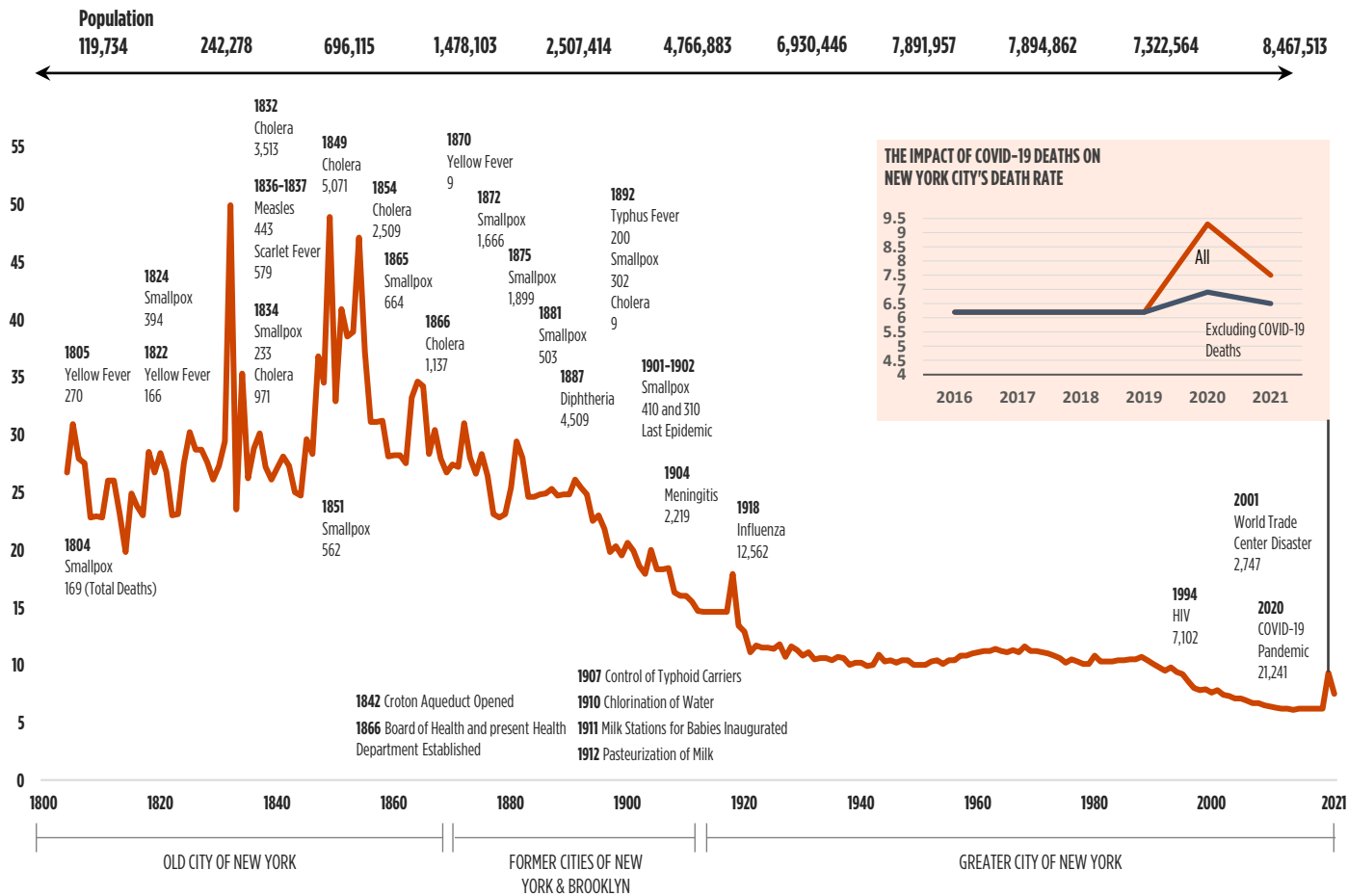


# Summary of Vital Statistics 2021

## The Conquest of Pestilence in New York City

...As Shown by the Death Rate as Recorded in the Official Records of the Department of Health and Mental Hygiene

Deaths per 1,000 Population



# SUMMARY OF VITAL STATISTICS 2021

The City of New York

New York City Department of Health and Mental Hygiene  
Division of Epidemiology  
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|   |              |
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This report was prepared by the Office of Vital Statistics, New York City Department of Health and Mental Hygiene, under the direction of Wenhui Li, PhD and Kacie Seil, MPH.  
Suggested citation: Li W, Onyebeke C, Castro A, Gurung S, Maduro G, Sun Y, Seil K, and Van Wye G. *Summary of Vital Statistics, 2021*. New York, NY: Bureau of Vital Statistics, New York City Department of Health and Mental Hygiene.

This publication is available online at <https://www1.nyc.gov/assets/doh/downloads/pdf/vs/2021sum.pdf>.

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Dear Fellow New Yorker:

The New York City Department of Health and Mental Hygiene's Annual Summary of Vital Statistics highlights trends in births and deaths that occur in New York City. The special section on COVID-19 mortality in our 2021 report highlights COVID-19 data by various demographic and geographic categories. These 2021 data and trends are important depictions of the state of health in New York City during the COVID-19 pandemic. They inform our programs and policies by sharing information on major drivers of population health. Many of these data were used to inform our recently released HealthyNYC campaign, which aims to increase the life expectancy of New Yorkers above and beyond where it was in 2019.

Highlights from our 2021 report, which begins on the next page, include:

*Life expectancy*

- Citywide, life expectancy at birth was 80.7 years, increasing by 2.7 years since 2020.
- The pandemic also exacerbated existing inequities- non-Hispanic/Latino Black New Yorkers had the lowest life expectancy among racial/ethnic groups at 76.1 years, while non-Hispanic/Latino White New Yorkers had the highest at 81.8 years. This gap has improved since 2020 but is still greater than the gap that existed in 2019.
- This report is the first to include a combined 3-year life expectancy estimate for Asian and Pacific Islander New Yorkers. In 2019-2021, the life expectancy for this group exceeded all other race/ethnicity groups, at 84.6 years.

*Mortality rates*

- The COVID-19 crude mortality rate decreased substantially, from 241.3 deaths per 100,000 population in 2020 to 97.2 per 100,000 population in 2021.
- From 2019 to 2020, the citywide age-adjusted mortality rate sharply increased by 53.6%, largely due to the COVID-19 pandemic. In contrast, the age-adjusted death rate decreased from 787.4 per 100,000 population in 2020, to 612.5 in 2021. However, the rate is still higher than the rate of 512.7 in 2019 before the pandemic.
- New York City's age-adjusted premature death rate (age <65 years) increased by 48.8% from 2019 to 2020. In contrast, the citywide age-adjusted premature death rate decreased by 13.9% from 2020 (268.2 per 100,000 population) to 2021 (230.8 per 100,000 population). However, the rate is still higher than the rate of 180.2 in 2019 before the pandemic.
- The crude unintentional drug overdose rate continued to rise, with a 33.5% increase from 2020. The 2021 drug-related death rate was highest among non-Hispanic/Latino Black New Yorkers. The drug-related death rate for 55-64 year-olds was higher than all other age groups. In the past 10 years, rates have increased across NYC, but the increase was highest in very high poverty neighborhoods (354.2%).
- The infant mortality rate was 4.0 infant deaths per 1,000 live births in 2021, a 2.6% increase from 2020, and the rate for non-Hispanic/Latino Black New Yorkers was 5.1 times the rate for non-Hispanic/Latino Whites. The rate may vary from year to year due to small numbers.

*Birth rate*

- New York City's birth rate was 11.7 births per 1,000 population in 2021, an increase of 2.6% since 2020.

Providing these data help to inform our programmatic priorities and to illuminate the long-term impact of structural racism, particularly for Black New Yorkers. The DOHMH is committed to using data to address the persistence of racial/ethnic and neighborhood inequities.

Sincerely,

Ashwin Vashan, MD, PhD  
Commissioner



# SUMMARY OF VITAL STATISTICS

## EXECUTIVE SUMMARY, 2021

- In 2021, the birth rate was highest among non-Hispanic/Latino Whites at 13.4 births per 1,000 population, followed by 11.6 among both Asians and Pacific Islanders and Hispanics/Latinos, and 9.5 among non-Hispanic/Latino Blacks.

- In 2021, the community district with the highest crude birth rate was Borough Park with 22.9 births per 1,000 population; the community district with the lowest crude birth rate was Bayside with 4.3 births per 1,000 population.

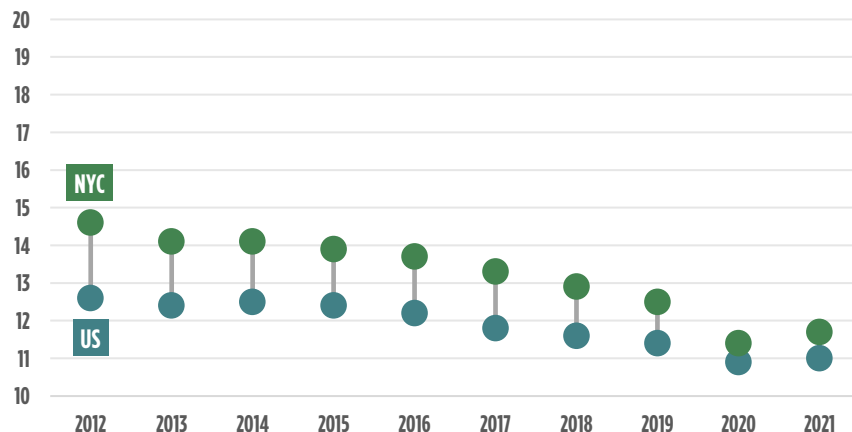
- In 2021, New York City had an infant mortality rate of 4.0 infant deaths per 1,000 live births. This represents an increase of 2.6% from 2020 (3.9 infant deaths per 1,000 live births). Due to the small number of infant deaths, the rate may fluctuate from year to year.

- The infant mortality rate has declined by 14.9% since 2012.

- The infant mortality rate disparity between non-Hispanic/Latino Blacks and non-Hispanic/Latino Whites increased from 3.1 in 2020 to 5.1 in 2021. The disparity in infant mortality rates between Puerto Ricans and non-Hispanic/Latino Whites decreased slightly from 2.6 in 2020 to 2.4 in 2021. These changes may be due to the small number of infant deaths from year to year.

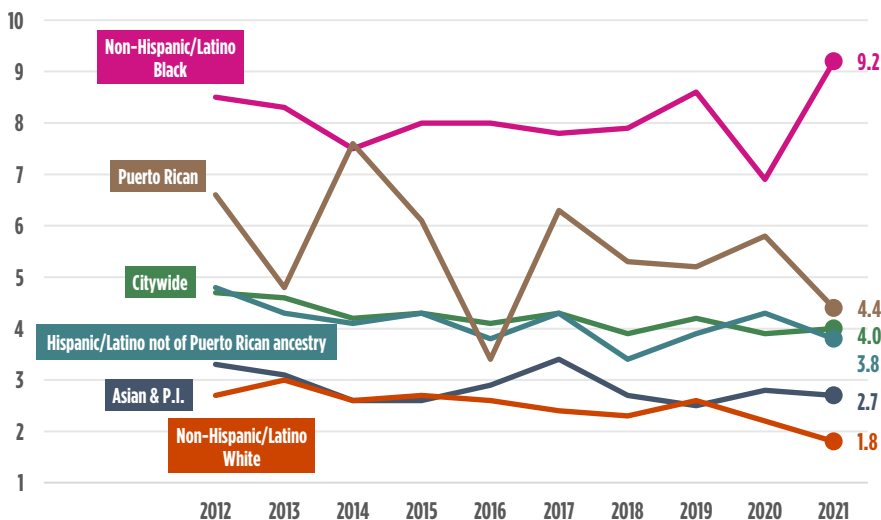
## Pregnancy Outcomes

The 2021 **citywide** crude birth rate was 11.7 births per 1,000 population, an increase of 2.6% from 2020. **New York City's birth rate** has experienced a modest decrease in the past ten years, as has the **United States' birth rate**.



## Infant Mortality

Infant mortality rates decreased from 2020 to 2021 among all racial/ethnic groups except for **non-Hispanic/Latino Blacks**, for which the rate increased by 33.3%.



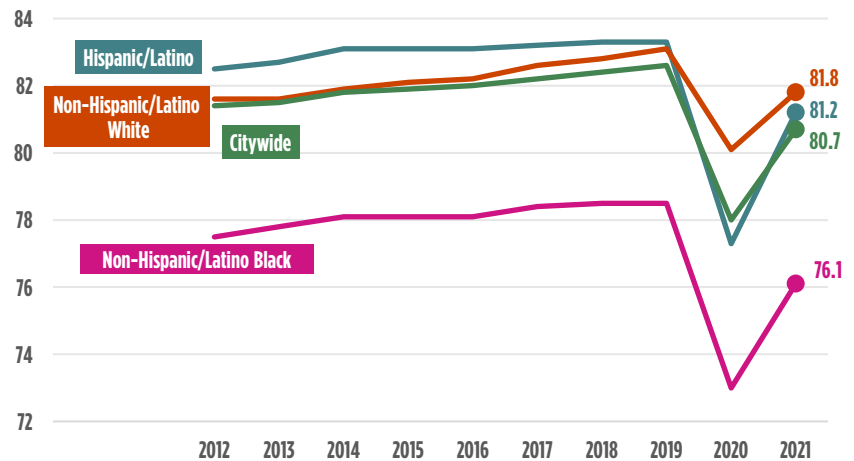
# SUMMARY OF VITAL STATISTICS

## EXECUTIVE SUMMARY, 2021

- New York City’s life expectancy at birth in 2021 was 80.7 years, increasing by 2.7 years since 2020.
- From 2020 to 2021, life expectancy increased by 3.1 years among non-Hispanic/Latino Blacks, 3.9 years among Hispanics/Latinos, and 1.7 years among non-Hispanic/Latino Whites.
- The annual life expectancy estimate for Asians and Pacific Islanders is not displayed due to small single-year age population denominators. For the first time, life expectancy is calculated for decennial year 2020 using 2019–2021 combined data (see Table M24).

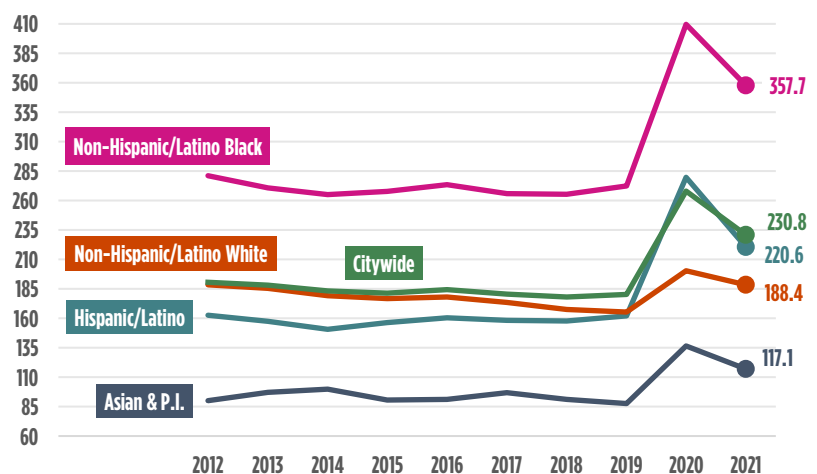
### Life Expectancy at Birth

The New York City 2021 life expectancy at birth was 81.2 years among Hispanics/Latinos, 81.8 years among non-Hispanic/Latino Whites, and 76.1 years among non-Hispanic/Latino Blacks. Life expectancy for each racial/ethnic group increased since 2020.



### Mortality

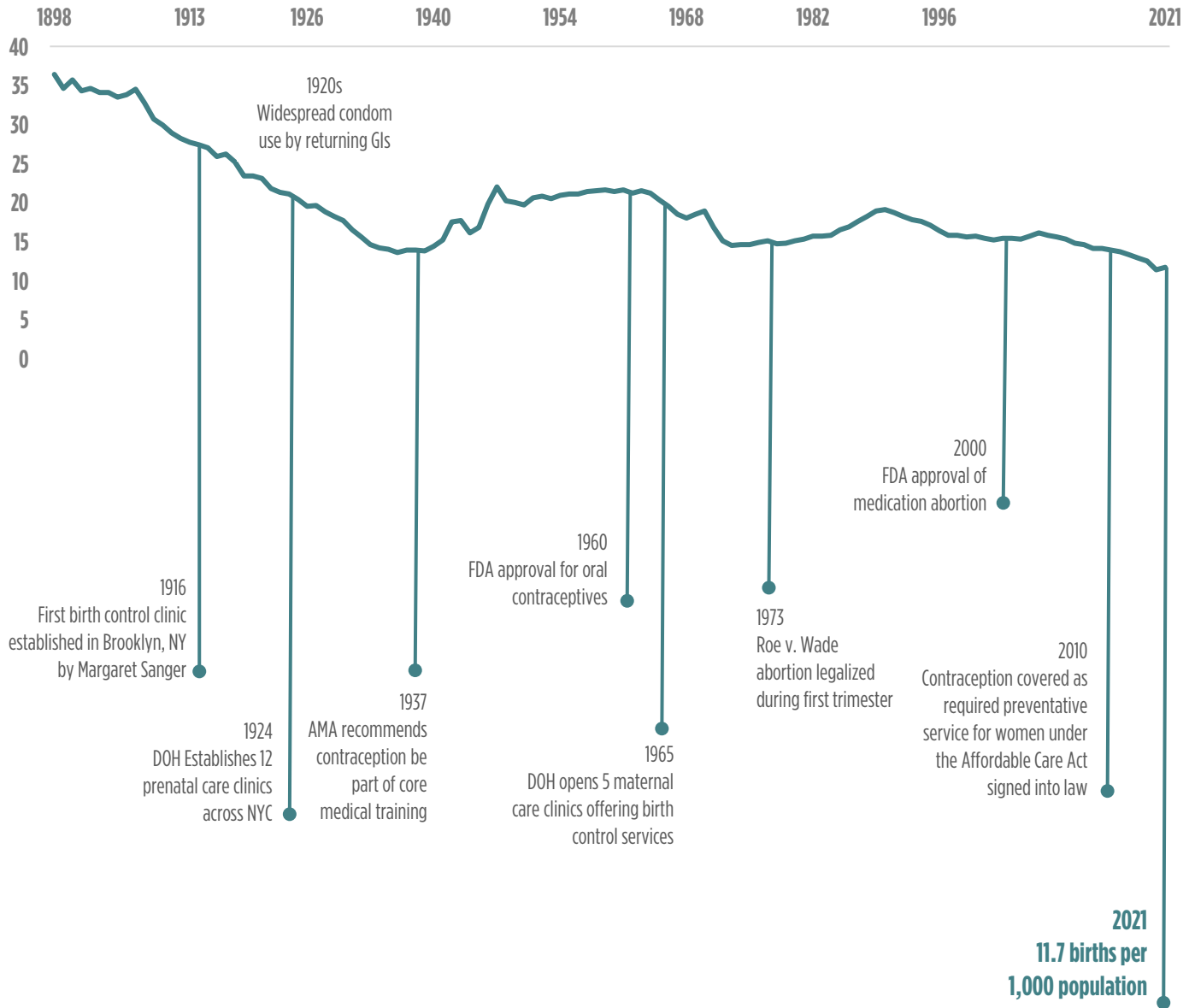
From 2020 to 2021, the age-adjusted premature mortality rate decreased among Hispanics/Latinos by 21.2%, among non-Hispanic/Latino Blacks by 12.6%, among non-Hispanic/Latino Whites by 5.9%, and among Asians and Pacific Islanders by 14.2%.



- The citywide age-adjusted death rate decreased since 2020, from 787.4 per 100,000 population in 2020, to 612.5 in 2021 (a 22.2% decrease).
- From 2020 to 2021, the age-adjusted death rate decreased among Hispanics/Latinos by 28.5%, among non-Hispanic/Latino Blacks by 25.1%, among non-Hispanic/Latino Whites by 14.6%, and among Asians and Pacific Islanders by 21.1%.

# PREGNANCY OUTCOMES

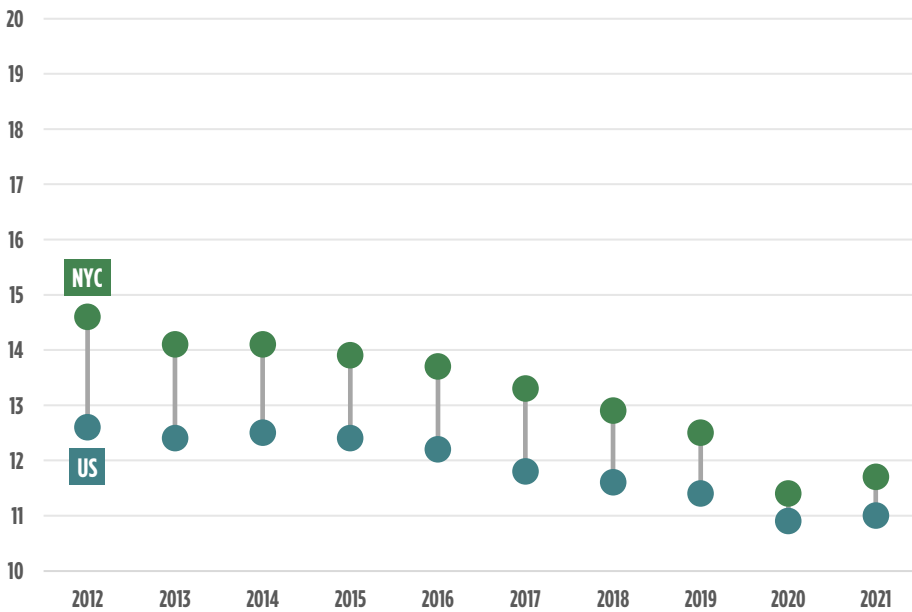
## Birth Rate Per 1,000 Population Over Time



# PREGNANCY OUTCOMES

Figure 1. Birth Rates, New York City and the United States, 2012–2021

The 2021 citywide crude birth rate was 11.7 births per 1,000 population. New York City's birth rate has experienced a modest decrease in the past ten years, as has the United States' birth rate.



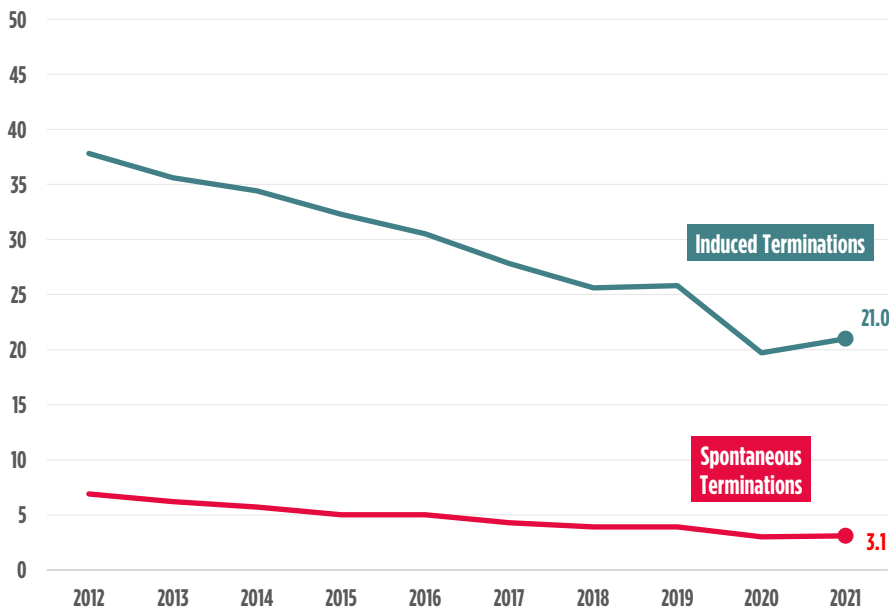
The 2021 citywide crude birth rate increased by 2.6% from 2020. It decreased by 19.9% since 2012.

In 2021, live births decreased slightly by 0.8% from 2020, a seventh consecutive year decline. The population also decreased from 2020 to 2021, by 3.5%.

New York City's 2021 crude birth rate was slightly higher than the United States rate (11.7 vs. 11.0 nationwide), consistent with previous years.

Figure 2. Spontaneous and Induced Termination of Pregnancy Rates, New York City, 2012–2021

The 2021 citywide crude spontaneous termination of pregnancy (miscarriages and stillbirths) rate was 3.1 terminations per 1,000 females aged 15 to 44 years.



The spontaneous termination of pregnancy rate has slightly increased since 2020 and has been between 3.0 and 6.9 terminations per 1,000 females aged 15 to 44 years since 2012.

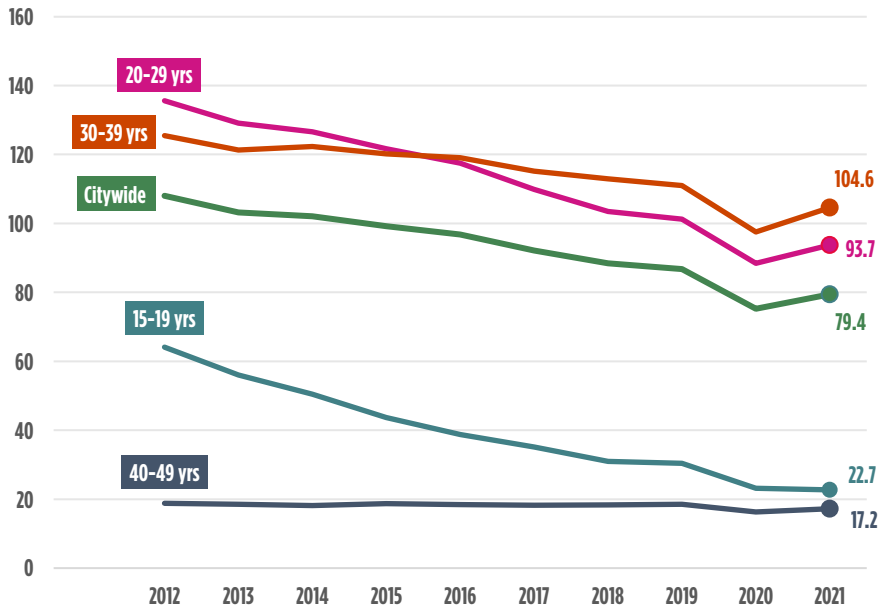
Changes in rates of spontaneous terminations of pregnancy may be due to variations in the reporting of these events by facilities rather than true changes in such events. For example, some facilities may fail to report very early gestational age spontaneous terminations. DOHMH continues to conduct outreach and education of targeted medical facilities about legal reporting requirements.

The 2021 citywide crude rate of induced terminations of pregnancy was 21.0 terminations per 1,000 females aged 15 to 44 years, increasing by 6.6% since 2020. Since 2012, the rate has decreased by 44.4%, from 37.8 to 21.0 terminations per 1,000 females aged 15 to 44 years.

# PREGNANCY OUTCOMES

Figure 3. Pregnancy Rates\* by Woman's Age Group, New York City, 2012-2021

In 2021, women aged 30 to 39 years of age had the highest rate of pregnancy (live births, induced terminations, and spontaneous terminations) at 104.6 pregnancies per 1,000 females aged 30 to 39 years.



\*See Technical Notes for the definition of pregnancy rate.

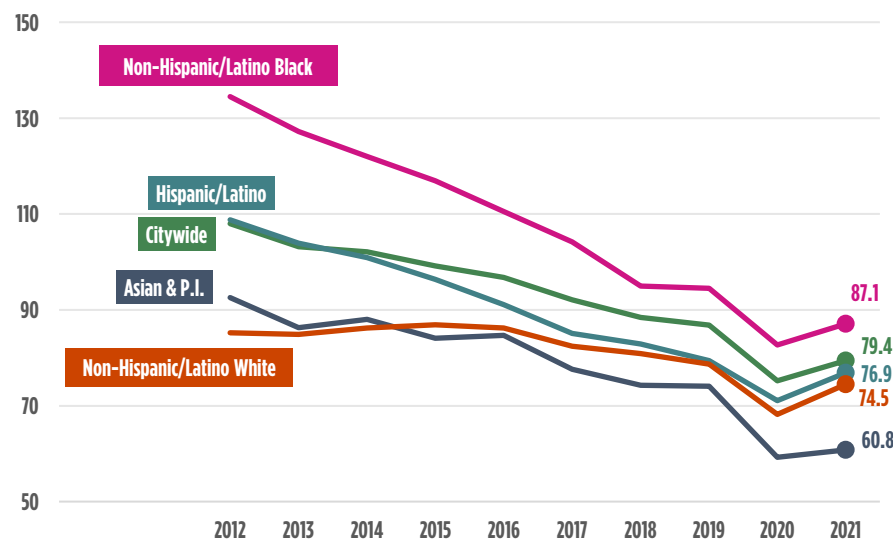
The second highest rate of pregnancy was for women aged 20 to 29 at 93.7, then women 15 to 19 years old and 40 to 49 years old, with pregnancy rates of 22.7 and 17.2, respectively.

Since 2012, pregnancy rates have decreased by 30.9% among women aged 20-29 years old, by 16.7% among women aged 30-39 years old, and by 8.5% among women aged 40-49 years old.

The teen pregnancy rate (15-19 years of age) decreased by 64.6% since 2012, and by 2.2% since 2020.

Figure 4. Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2012-2021

Since 2012, the citywide pregnancy rate has declined by 26.5%, from 108.0 pregnancies per 1,000 females aged 15-44 to 79.4.



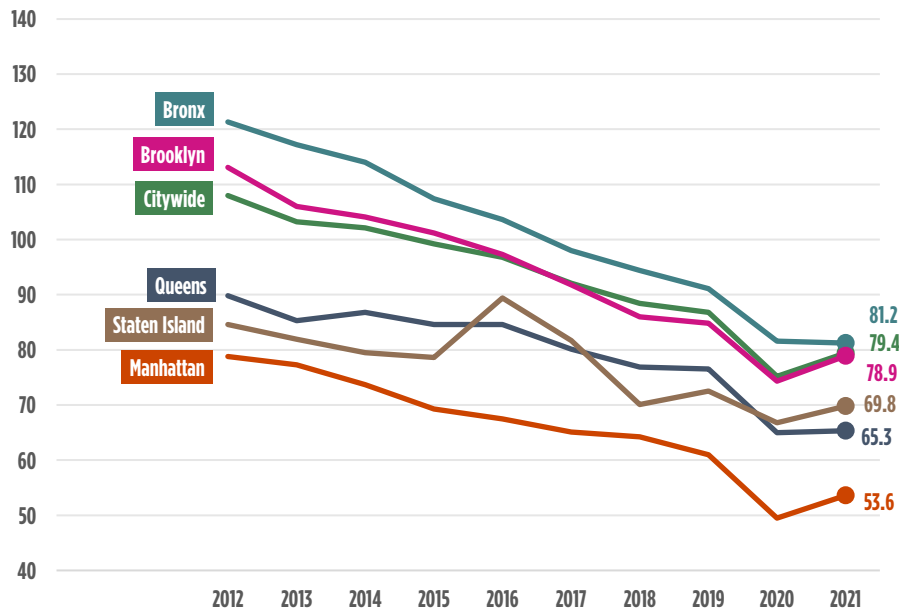
In 2021, the pregnancy rate was highest among non-Hispanic/Latino Blacks at 87.1 pregnancies per 1,000 females aged 15-44, followed by 76.9 among Hispanics/Latinos, 74.5 among non-Hispanic/Latino Whites, and 60.8 among Asians and Pacific Islanders.

From 2012 to 2021, the pregnancy rate decreased among all groups. Over the ten-year period, non-Hispanic/Latino Blacks experienced a 35.2% decline; Hispanics/Latinos, a 29.3% decline; Asians and Pacific Islanders, a 34.3% decline, and non-Hispanic/Latino Whites, a 12.6% decline.

# PREGNANCY OUTCOMES

Figure 5. Pregnancy Rates by Woman's Borough of Residence, New York City, 2012-2021

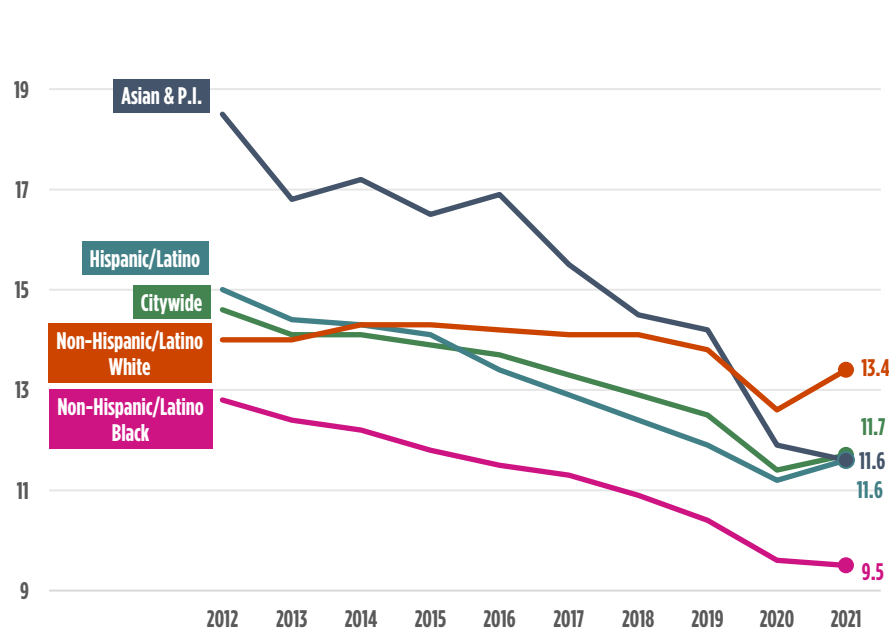
In 2021, the pregnancy rate in the **Bronx** continued to be the highest, at 81.2 pregnancies per 1,000 females aged 15-44, followed by **Brooklyn** at 78.9, **Staten Island** at 69.8, Queens at 65.3 and **Manhattan** at 53.6.



Since 2012, pregnancy rates have declined in all boroughs. Rates have decreased by 33.1% in the **Bronx**, by 30.2% in **Brooklyn**, by 32.0% in **Manhattan**, by 27.3% in Queens, and by 17.5% in Staten Island.

Figure 6. Birth Rates by Mother's Racial/Ethnic Group, New York City, 2012-2021

In 2021, the birth rate was highest among **non-Hispanic/Latino Whites** at 13.4 births per 1,000 population, followed by 11.6 among both **Asians and Pacific Islanders** and **Hispanics/Latinos**, and 9.5 among **non-Hispanic/Latino Blacks**.

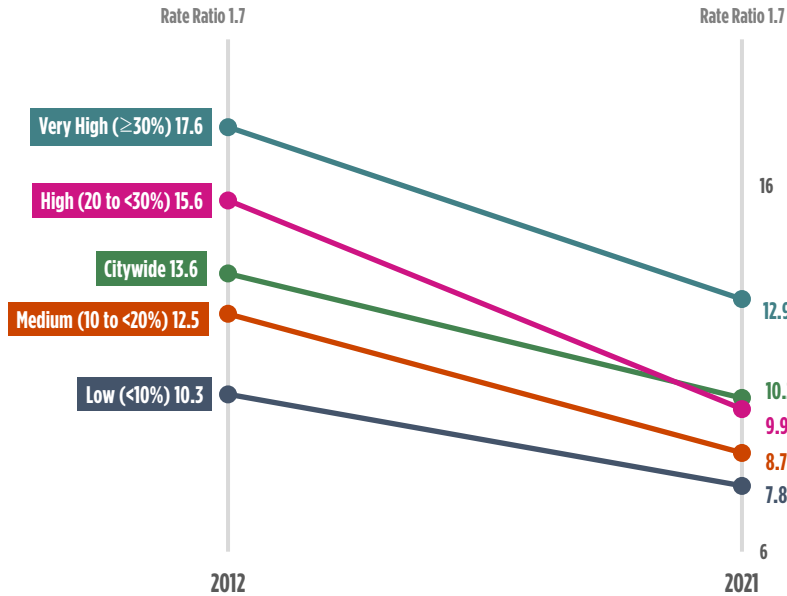


From 2020 to 2021, **Asians and Pacific Islanders** and **non-Hispanic/Latino Blacks** experienced a decline in birth rates- a 2.5% decline for **Asians and Pacific Islanders** and a 1.0% decline for **non-Hispanic/Latino Blacks**. **Hispanics/Latinos** and **non-Hispanic/Latino Whites** experienced an increase in birth rates- a 3.6% increase for **Hispanics/Latinos** and a 6.3% increase for **non-Hispanic/Latino Whites**.

# PREGNANCY OUTCOMES

Figure 7. Birth Rates by Neighborhood Poverty\*\*†, New York City, 2012 and 2021

In 2021, the birth rate was highest in the city's **very high** poverty neighborhoods, at 12.9 births per 1,000 population, compared to 7.8 for the low poverty neighborhoods.



In 2021, the birth rate in the city's **very high** poverty neighborhoods was 1.7 times the birth rate of the city's low poverty neighborhoods, which is the same rate ratio as in 2012.

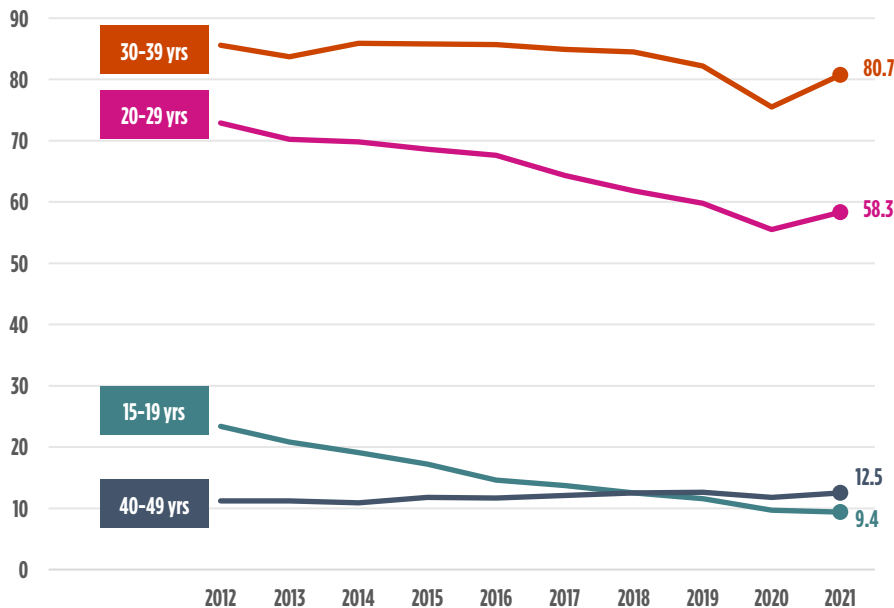
Since 2012, birth rates decreased across all categories of neighborhood poverty.

\*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

†The citywide estimate is restricted to NYC residents.

Figure 8. Birth Rates by Mother's Age Group, New York City, 2012-2021

In 2021, the birth rate among women aged **30 to 39 years** of age continued to be the highest, at 80.7 births per 1,000 female population, followed by women **20 to 29** at 58.3, then women **40 to 49 years** old and **15 to 19 years** old, with birth rates of 12.5 and 9.4, respectively.

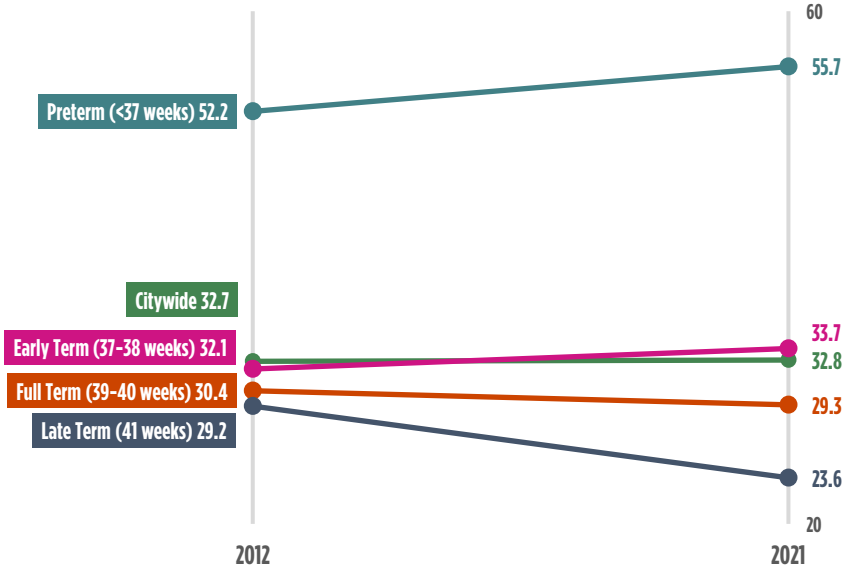


Since 2012, birth rates decreased among all age groups except for women aged 40-49 years old, for which the rate increased by 11.6%.

Among women **20-29 years** old, the birth rate has declined by 20.0% since 2012, yet increased by 5.0% since 2020. The teen birth rate (**15-19 years** of age) has decreased by 59.8% since 2012, and 3.1% since 2020. The birth rate for women aged **30-39 years** old has declined by 5.7% since 2012, yet increased by 6.9% since 2020.

# PREGNANCY OUTCOMES

Figure 9. Percent of Births via Cesarean Delivery by Gestational Age, New York City, 2012 and 2021  
From 2012 to 2021, the percent of births delivered via Cesarean delivery increased for preterm infants (<37 weeks gestational age) and early term infants (37-38 weeks gestation) but decreased for full term infants (39-40 weeks gestation) and late term infants (41 weeks gestation).



For both years, as gestational age increases, the percent of births delivered via Cesarean delivery decreases.

For 2012 and 2021, a majority of preterm infants were delivered by Cesarean section.

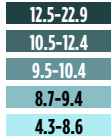


# PREGNANCY OUTCOMES

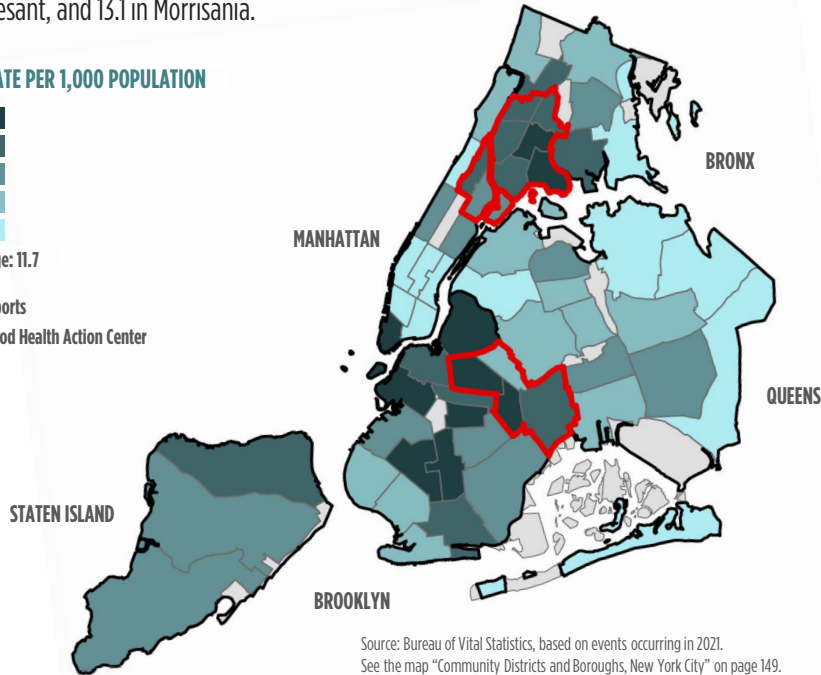
Figure 10. Birth Rates by Community District of Residence, New York City, 2021

In 2021, the community district with the highest crude birth rate was Borough Park with 22.9 births per 1,000 population, followed by 17.6 in Williamsburg/Greenpoint, 14.7 in Battery Park/Tribeca, 14.1 in Bedford Stuyvesant, and 13.1 in Morrisania.

## LIVE BIRTH RATE PER 1,000 POPULATION



Citywide Average: 11.7



The community district with the lowest crude birth rate was Bayside with 4.3 births per 1,000 population, then the Lower East Side with 4.9, Chelsea/Clinton with 6.0, Greenwich Village/SOHO with 6.7, and Flushing with 6.8.

Source: Bureau of Vital Statistics, based on events occurring in 2021.  
See the map "Community Districts and Boroughs, New York City" on page 149.

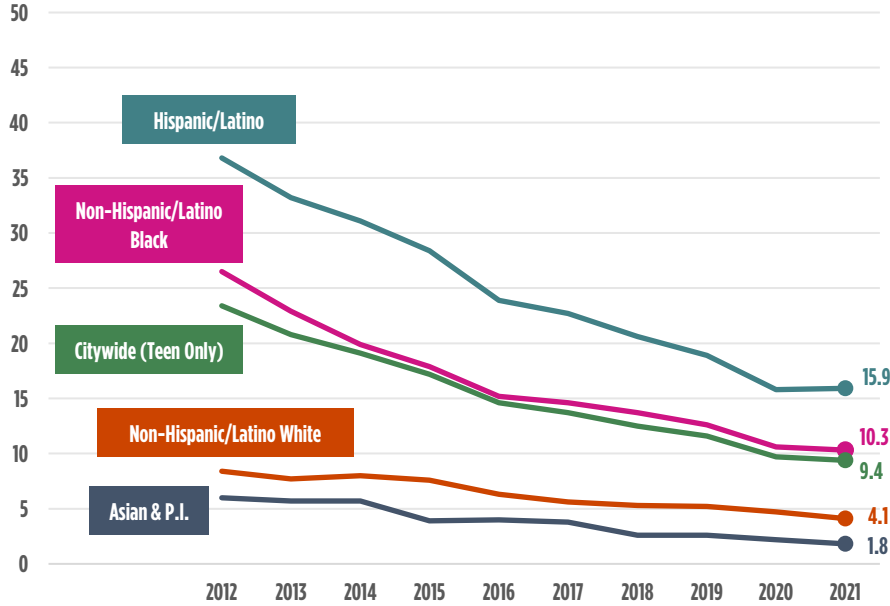
| MANHATTAN                  | CD   | Birth Rate |
|----------------------------|------|------------|
| Battery Park, Tribeca      | MN01 | 14.7       |
| Central Harlem             | MN10 | 10.9       |
| Upper East Side            | MN08 | 10.3       |
| East Harlem                | MN11 | 10.2       |
| Upper West Side            | MN07 | 9.7        |
| Washington Heights         | MN12 | 8.8        |
| Midtown Business District  | MN05 | 8.2        |
| Manhattanville             | MN09 | 7.8        |
| Murray Hill                | MN06 | 7.5        |
| Greenwich Village, SOHO    | MN02 | 6.7        |
| Chelsea, Clinton           | MN04 | 6.0        |
| Lower East Side            | MN03 | 4.9        |
| BRONX                      | CD   | Birth Rate |
| Morrisania                 | BX03 | 13.1       |
| Hunts Point                | BX02 | 12.7       |
| Mott Haven                 | BX01 | 12.4       |
| East Tremont               | BX06 | 12.4       |
| Concourse, Highbridge      | BX04 | 12.1       |
| University, Morris Heights | BX05 | 12.1       |
| Unionport, Soundview       | BX09 | 11.6       |
| Fordham                    | BX07 | 11.4       |
| Pelham Parkway             | BX11 | 9.9        |
| Williamsbridge             | BX12 | 9.4        |
| Riverdale                  | BX08 | 9.2        |
| Throgs Neck                | BX10 | 7.2        |
| STATEN ISLAND              | CD   | Birth Rate |
| Port Richmond              | SI01 | 10.7       |
| Willowbrook, South Beach   | SI02 | 9.8        |
| Tottenville                | SI03 | 9.5        |

| BROOKLYN                      | CD   | Birth Rate |
|-------------------------------|------|------------|
| Borough Park                  | BK12 | 22.9       |
| Williamsburg, Greenpoint      | BK01 | 17.6       |
| Bedford Stuyvesant            | BK03 | 14.1       |
| Park Slope                    | BK06 | 13.0       |
| Brownsville                   | BK16 | 13.0       |
| Crown Heights South           | BK09 | 12.8       |
| Flatbush, Midwood             | BK14 | 12.5       |
| East New York                 | BK05 | 11.8       |
| Crown Heights North           | BK08 | 11.4       |
| Fort Greene, Brooklyn Heights | BK02 | 11.3       |
| Sheepshead Bay                | BK15 | 11.2       |
| Sunset Park                   | BK07 | 10.4       |
| East Flatbush                 | BK17 | 9.6        |
| Canarsie                      | BK18 | 9.5        |
| Bensonhurst                   | BK11 | 9.4        |
| Bushwick                      | BK04 | 9.1        |
| Coney Island                  | BK13 | 9.0        |
| Bay Ridge                     | BK10 | 8.8        |

| QUEENS                    | CD   | Birth Rate |
|---------------------------|------|------------|
| Woodhaven                 | QN09 | 10.4       |
| Jamaica, St. Albans       | QN12 | 10.3       |
| Jackson Heights           | QN03 | 9.7        |
| Elmhurst, Corona          | QN04 | 9.3        |
| Rego Park, Forest Hills   | QN06 | 9.0        |
| Howard Beach              | QN10 | 9.0        |
| Ridgewood, Glendale       | QN05 | 8.8        |
| Astoria, Long Island City | QN01 | 8.7        |
| Fresh Meadows, Briarwood  | QN08 | 8.7        |
| Sunnyside, Woodside       | QN02 | 8.6        |
| The Rockaways             | QN14 | 8.1        |
| Queens Village            | QN13 | 7.0        |
| Flushing                  | QN07 | 6.8        |
| Bayside                   | QN11 | 4.3        |

# PREGNANCY OUTCOMES

Figure 11. Teen Birth Rates by Mother’s Racial/Ethnic Group, New York City, 2012–2021  
From 2012 to 2021, the citywide teen birth rate declined by 59.8% overall.

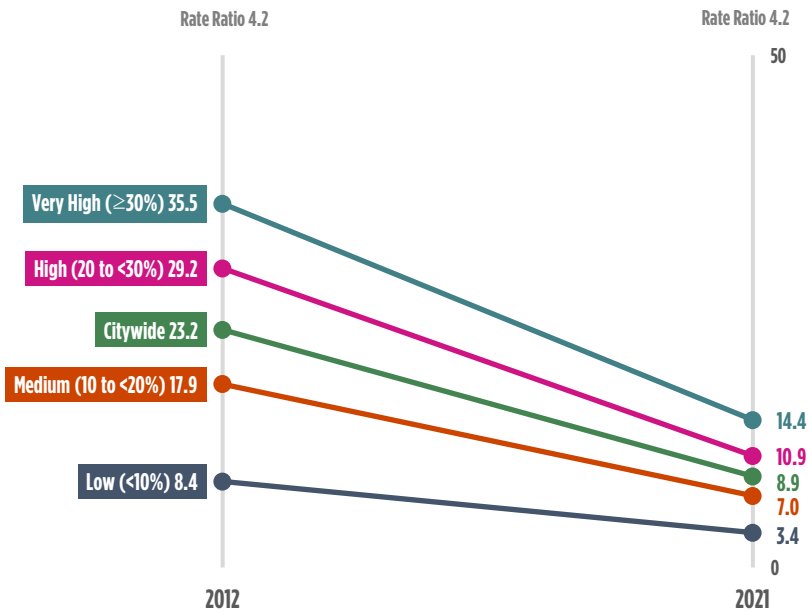


Teen birth rates also declined for all racial/ethnic groups: by 56.8% among Hispanics/Latinos, 61.1% among non-Hispanic/Latino Blacks, 51.2% among non-Hispanic/Latino Whites, and 70.0% among Asians and Pacific Islanders.

The teen birth rate among Hispanics/Latinos remains high compared to that of non-Hispanic/Latino Whites. In 2012, the teen birth rate for Hispanics/Latinos was 4.4 times that of non-Hispanic/Latino Whites. In 2021, the teen birth rate for Hispanics/Latinos was 3.9 times that of non-Hispanic/Latino Whites.

In 2021, the teen birth rate among non-Hispanic/Latino Blacks was 2.5 times that of non-Hispanic/Latino Whites, reflecting a narrowing of the difference since 2012, when it was 3.2 times that of non-Hispanic/Latino Whites.

Figure 12. Teen Birth Rate by Neighborhood Poverty\*, New York City Residents, 2012 and 2021  
Between 2012 and 2021, teen birth rates declined across all poverty levels.



Over that time period, teen birth rates declined by 59.4% in the city’s very high poverty neighborhoods, by 62.7% in high poverty neighborhoods, by 60.9% in medium poverty neighborhoods, and by 59.5% in low poverty neighborhoods.

Teen birth rates remain comparatively high in the city’s very high poverty neighborhoods. In 2021, the teen birth rate in very high poverty neighborhoods was 4.2 times that of low poverty neighborhoods; in 2012, it was also 4.2 times that of low poverty neighborhoods.

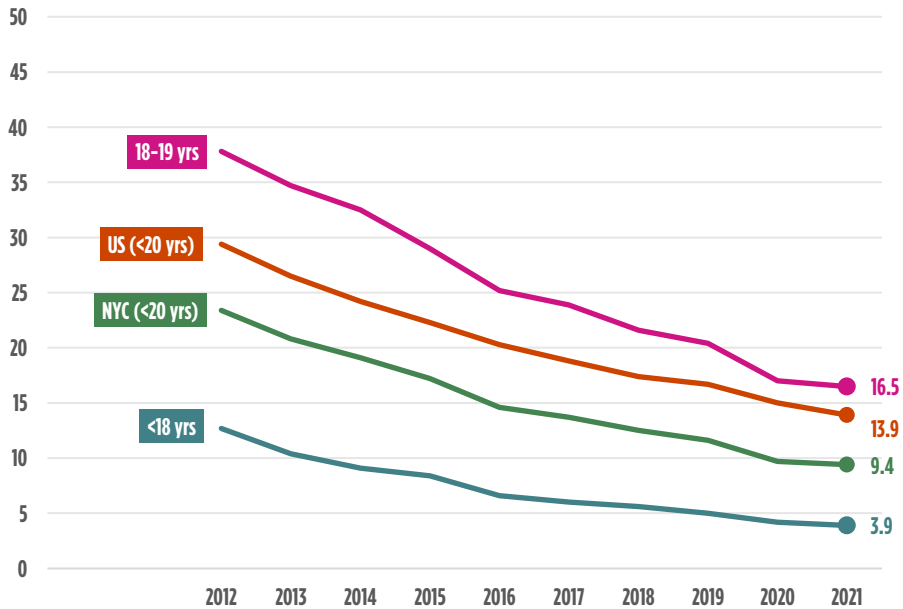
\*Neighborhood poverty (based on mother’s residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008–2012 for 2012 data and per ACS 2016–2020 for 2021 data.

†The citywide estimate is restricted to NYC residents.

# PREGNANCY OUTCOMES

Figure 13. Teen Birth Rates by Age Group, New York City, 2012-2021

From 2012 to 2021, birth rates declined among all teenagers, regardless of age.



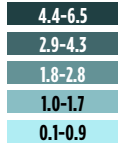
Among teens less than 18 years of age, the birth rate declined over this period by 69.3%; among women 18-19, it declined by 56.3%.

The overall rate of teen birth in New York City (births to women <20) declined by 59.8%, and the citywide teen birth rate has been consistently lower than the US teen birth rate.

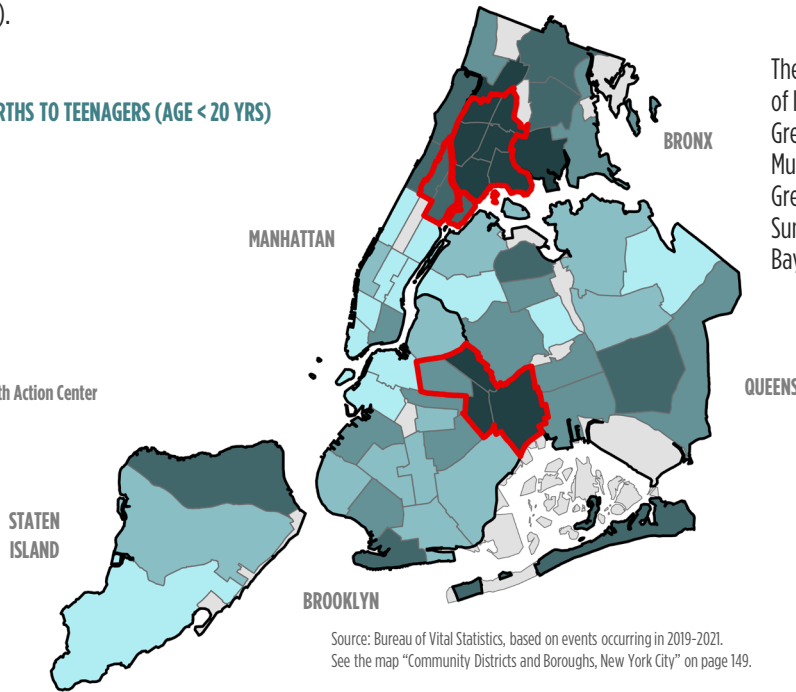
# PREGNANCY OUTCOMES

Figure 14. Percent of Live Births to Teenagers (Three-Year Averages) by Community District of Residence, New York City, 2019-2021  
 The community districts with the highest percentage of live births to teenagers (<20 years) were Hunts Point with 6.5%, followed by Brownsville with 6.1%, Mott Haven with 5.9%, Bushwick with 5.4%, and East Tremont with 5.3% (three-year average).

## PERCENT OF LIVE BIRTHS TO TEENAGERS (AGE < 20 YRS)



Citywide Average: 2.3



Source: Bureau of Vital Statistics, based on events occurring in 2019-2021.  
 See the map "Community Districts and Boroughs, New York City" on page 149.

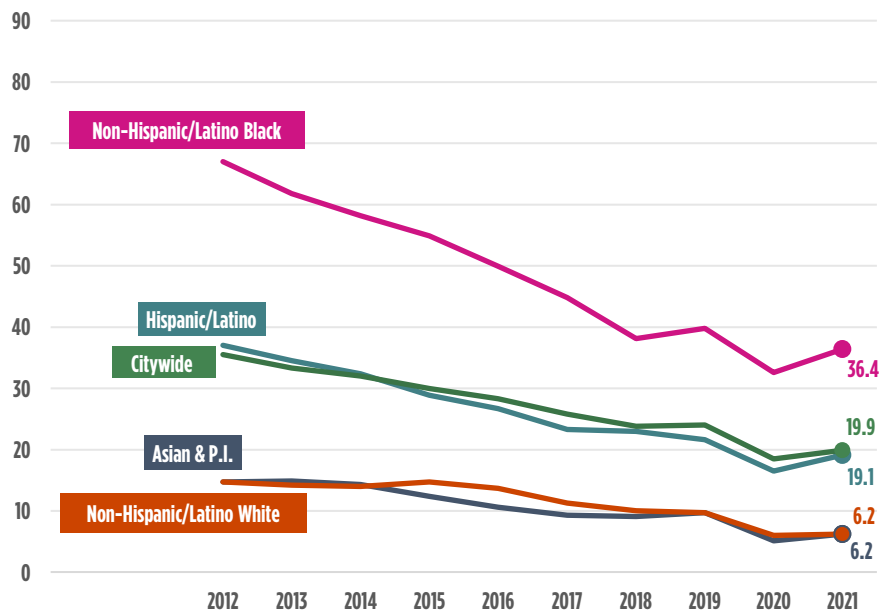
The following community districts had less than 1% of live births to teenagers: Battery Park/Tribeca, Greenwich Village/SOHO, Midtown Business District, Murray Hill, Upper West Side, Upper East Side, Fort Greene/Brooklyn Heights, Park Slope, Sunnyside/Woodside, Rego Park/Forest Hills, Bayside, and Tottenville.

| MANHATTAN                  |                  |     |
|----------------------------|------------------|-----|
| CD                         | Birth Percentage |     |
| Manhattanville             | MN09             | 4.3 |
| East Harlem                | MN11             | 3.4 |
| Washington Heights         | MN12             | 3.2 |
| Central Harlem             | MN10             | 3.1 |
| Lower East Side            | MN03             | 2.2 |
| Chelsea, Clinton           | MN04             | 1.0 |
| Midtown Business District  | MN05             | 0.8 |
| Upper West Side            | MN07             | 0.5 |
| Greenwich Village, SOHO    | MN02             | 0.3 |
| Murray Hill                | MN06             | 0.3 |
| Battery Park, Tribeca      | MN01             | 0.1 |
| Upper East Side            | MN08             | 0.1 |
| BRONX                      |                  |     |
| CD                         | Birth Percentage |     |
| Hunts Point                | BX02             | 6.5 |
| Mott Haven                 | BX01             | 5.9 |
| East Tremont               | BX06             | 5.3 |
| Morrisania                 | BX03             | 5.1 |
| University, Morris Heights | BX05             | 4.8 |
| Concourse, Highbridge      | BX04             | 4.6 |
| Unionport, Soundview       | BX09             | 4.6 |
| Fordham                    | BX07             | 4.4 |
| Williamsbridge             | BX12             | 4.0 |
| Pelham Parkway             | BX11             | 3.2 |
| Throgs Neck                | BX10             | 2.8 |
| Riverdale                  | BX08             | 2.0 |
| STATEN ISLAND              |                  |     |
| CD                         | Birth Percentage |     |
| Port Richmond              | SI01             | 3.6 |
| Willowbrook, South Beach   | SI02             | 1.0 |
| Tottenville                | SI03             | 0.6 |

| BROOKLYN                      |                  |     |
|-------------------------------|------------------|-----|
| CD                            | Birth Percentage |     |
| Brownsville                   | BK16             | 6.1 |
| Bushwick                      | BK04             | 5.4 |
| East New York                 | BK05             | 4.5 |
| Coney Island                  | BK13             | 3.2 |
| East Flatbush                 | BK17             | 2.8 |
| Bedford Stuyvesant            | BK03             | 2.7 |
| Crown Heights North           | BK08             | 2.5 |
| Sunset Park                   | BK07             | 2.3 |
| Bensonhurst                   | BK11             | 1.9 |
| Canarsie                      | BK18             | 1.7 |
| Borough Park                  | BK12             | 1.5 |
| Flatbush, Midwood             | BK14             | 1.4 |
| Sheepshead Bay                | BK15             | 1.4 |
| Williamsburg, Greenpoint      | BK01             | 1.3 |
| Crown Heights South           | BK09             | 1.3 |
| Bay Ridge                     | BK10             | 1.1 |
| Fort Greene, Brooklyn Heights | BK02             | 0.8 |
| Park Slope                    | BK06             | 0.8 |
| QUEENS                        |                  |     |
| CD                            | Birth Percentage |     |
| The Rockaways                 | QN14             | 4.0 |
| Jackson Heights               | QN03             | 3.4 |
| Jamaica, St. Albans           | QN12             | 3.2 |
| Elmhurst, Corona              | QN04             | 2.7 |
| Woodhaven                     | QN09             | 2.7 |
| Ridgewood, Glendale           | QN05             | 2.5 |
| Queens Village                | QN13             | 1.9 |
| Howard Beach                  | QN10             | 1.8 |
| Astoria, Long Island City     | QN01             | 1.3 |
| Flushing                      | QN07             | 1.3 |
| Fresh Meadows, Briarwood      | QN08             | 1.2 |
| Sunnyside, Woodside           | QN02             | 0.9 |
| Bayside                       | QN11             | 0.7 |
| Rego Park, Forest Hills       | QN06             | 0.5 |

# PREGNANCY OUTCOMES

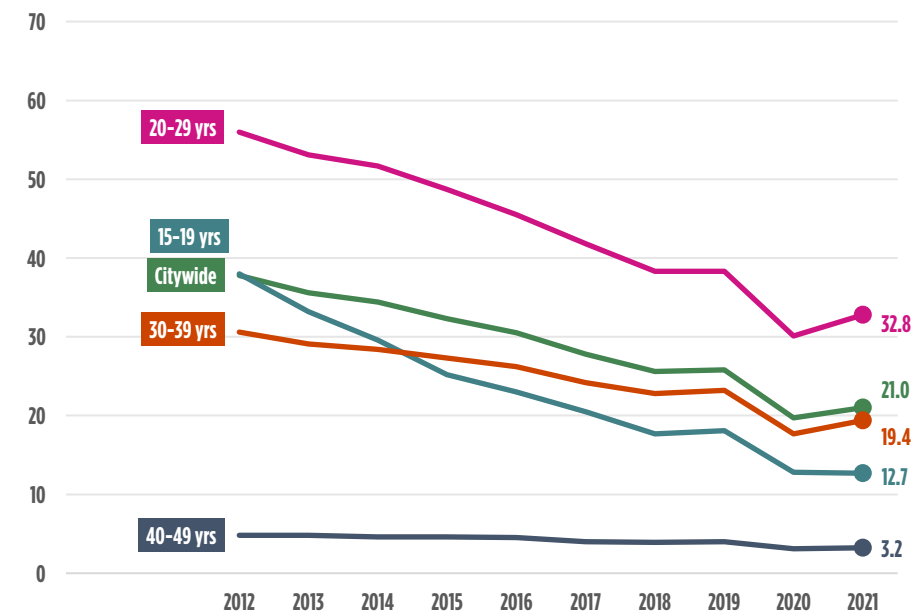
Figure 15. Age-Adjusted Induced Termination of Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2012-2021  
The 2021 **citywide** age-adjusted rate of induced terminations of pregnancy (at 19.9 terminations per 1,000 females aged 15 to 44 years) declined by 43.9% since 2012.



Similarly, age-adjusted rates among each racial/ethnic group declined: by 57.8% among Asians and Pacific Islanders and **non-Hispanic/Latino Whites**, by 48.4% among Hispanics/Latinos, and by 45.7% among **non-Hispanic/Latino Blacks**.

The disparity between **non-Hispanic/Latino White** and **non-Hispanic/Latino Black** induced termination of pregnancy rates has increased since 2012. The rate among **non-Hispanic/Latino Blacks** was 5.9 times that of **non-Hispanic/Latino Whites** (36.4 terminations per 1,000 females aged 15-44 vs. 6.2) in 2021, compared to 4.6 times in 2012.

Figure 16. Age-Specific Induced Termination of Pregnancy Rates by Woman's Age Group, New York City, 2012-2021  
The 2021 crude **citywide** rate of induced terminations of pregnancy declined 44.4% since 2012, from 37.8 to 21.0 terminations per 1,000 women aged 15-49 years.



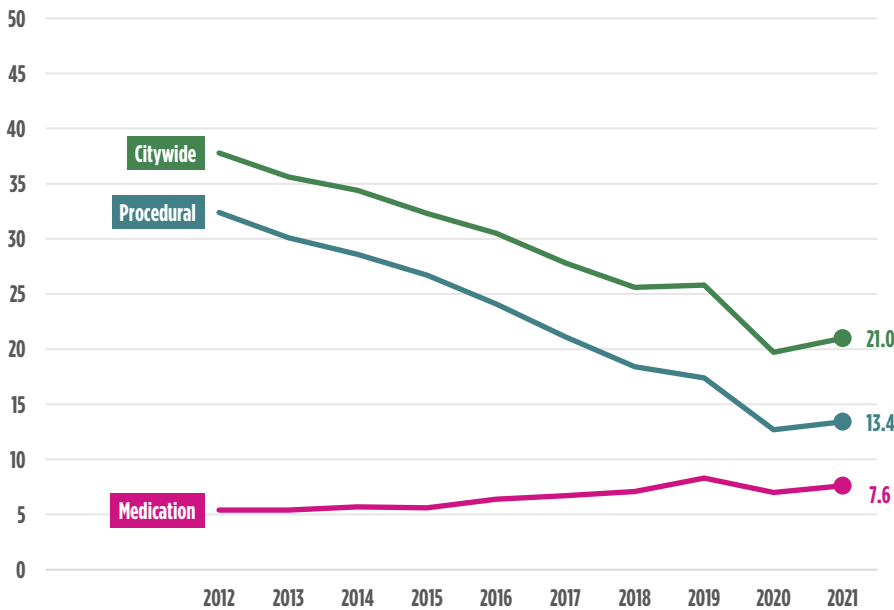
Since 2012, the age-specific rate declined 66.6% among teens (15 to 19 years of age), from 38.0 terminations per 1,000 females in 2012, to 12.7 in 2021. The rate declined by 41.4% among women 20 to 29 years of age, 36.6% among women 30 to 39 years of age and 33.3% among women 40 and older.

Rates remain the highest among women 20 to 29 years of age, followed by women 30 to 39 years of age, then teens, and women 40 and over.

# PREGNANCY OUTCOMES

Figure 17. Induced Termination of Pregnancy Rates by Medication vs. Procedural Abortion, New York City, 2012-2021

Since 2012, the crude rate of medication abortion in New York City increased 40.7%, to 7.6 terminations per 1,000 females aged 15-44, while the rate of procedural abortion decreased 58.6% to 13.4 terminations per 1,000 females aged 15-44.

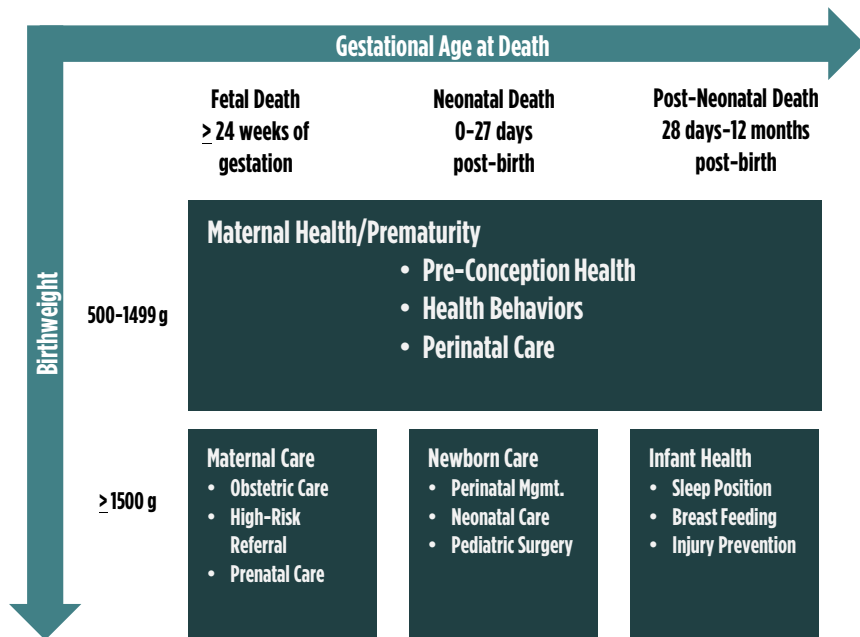


Medication-induced abortion, using mifepristone in combination with misoprostol, is termed a “medication abortion” and may be performed up to eleven weeks of gestation to terminate a pregnancy, in contrast to a procedural abortion, which may be performed later than eleven weeks of gestation. Medication abortion is not to be confused with the morning-after pill, also known as emergency contraception, which is used to prevent pregnancy.

# PERINATAL PERIODS OF RISK (PPOR)

Figure 1. Model of Perinatal Periods of Risk and Intervention Priorities

The Perinatal Periods of Risk (PPOR) model (see below) illustrates four periods of risk and classifies fetal and infant deaths based on birthweight (500-1,499 grams vs. 1,500 grams or more) and gestational age/age at death (fetal, neonatal, or post-neonatal death), and the labels indicate the primary areas of prevention.



Based on WHO/CDC's Periods of Risk approach (1991) to reduce fetal deaths (more commonly called miscarriages and/or stillbirths) and infant mortality, the PPOR methodology was developed to address the complexity of infant mortality.

Each labeled box in the PPOR model (maternal health/prematurity; maternal care; newborn care; and infant health) represents a period of risk, and within each period, deaths are similar in terms of causes, maternal risk factors, and opportunities for prevention.

PPOR first requires that deaths are 'mapped' to the correct period of risk based on birthweight and gestational age/age at death. The mortality rate is then calculated for each period of risk. Mortality rates from the four periods should sum up to the overall mortality rate.

Figure 2. Contributions to Fetal-Infant Mortality Rates per 1,000 Births and Fetal Deaths, New York City, 2012-2021  
The overall fetal-infant mortality rate (FIMR) for New York City was 6.2 per 1,000 live births in 2021, decreasing by 13.9% since 2012, and decreasing by 7.5% from 2020.

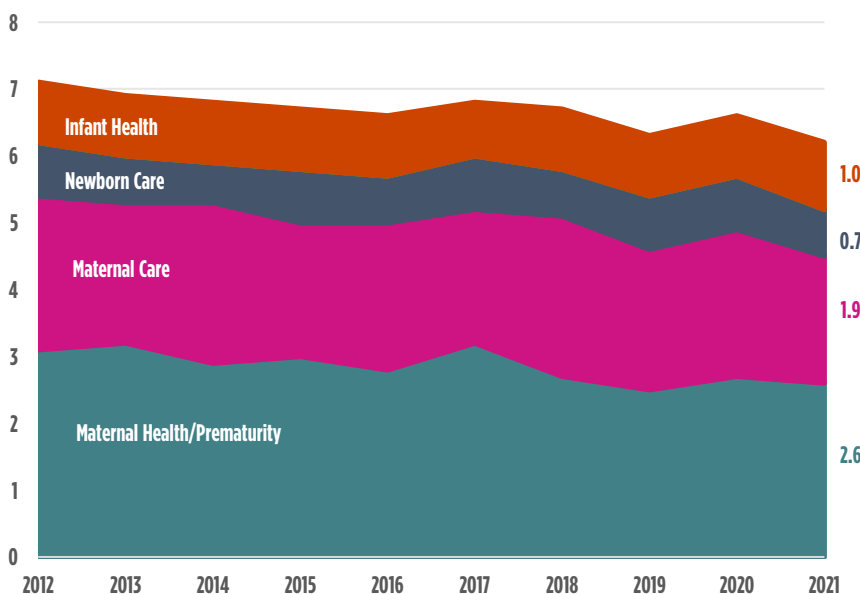
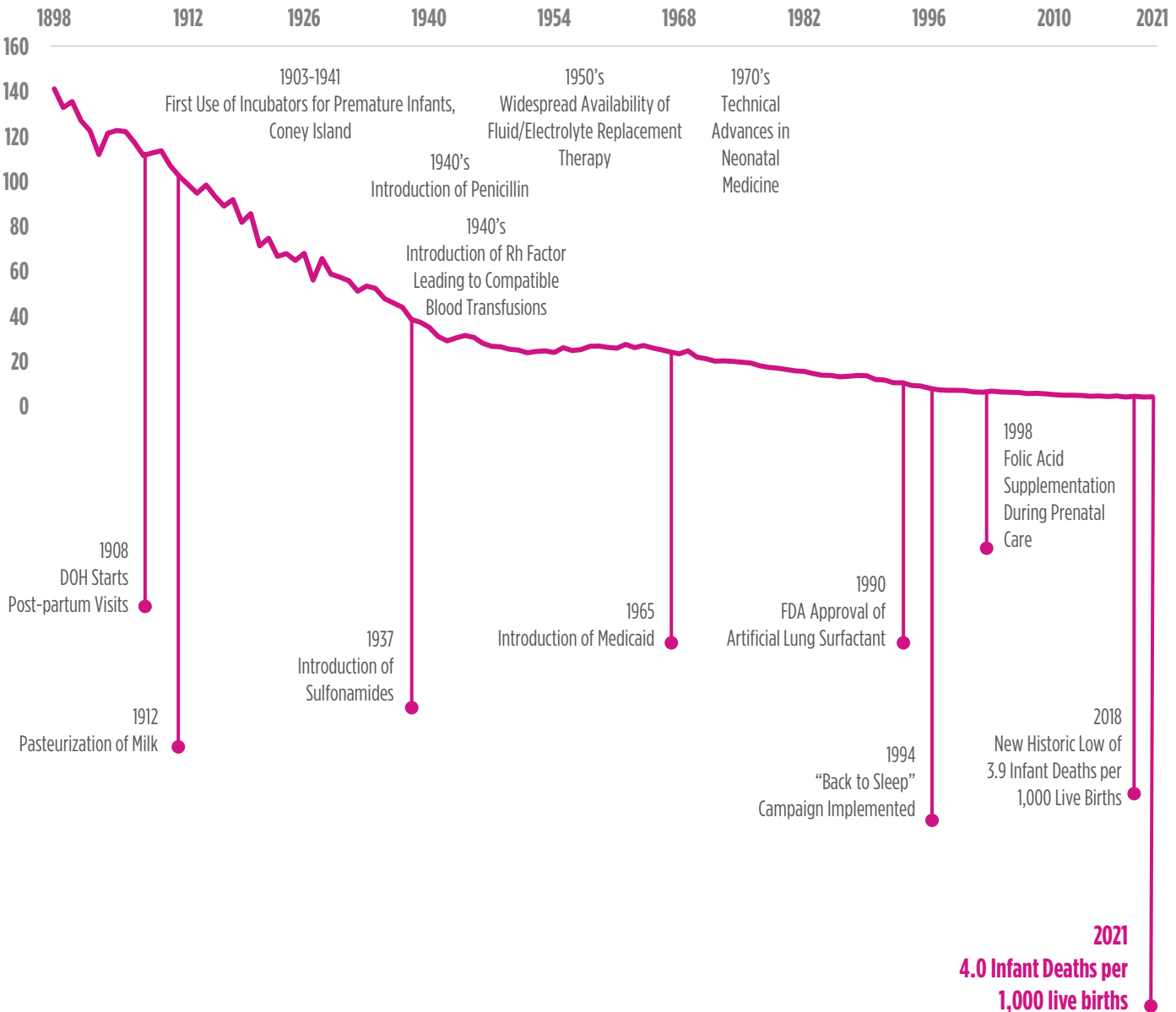


Figure 2 illustrates the relative contribution of risk factors to the overall FIMR. Refer to Figure 1 for specific risk factors. Deaths with a birthweight between 500 grams and 1,499 grams, and occurring at any gestational age or birth age, contributed 41.9% to the FIMR in 2021, indicating that prevention efforts should focus on maternal health/prematurity risk factors.

The share of the FIMR attributable to the infant health period increased from 12.5% in 2012 to 16.1% in 2021 (post-neonatal deaths with a birthweight of 1,500 grams or greater). The contribution of the maternal care period to the FIMR decreased from 31.9% in 2012 to 30.6% in 2021 (fetal deaths with a birthweight of 1,500 grams or greater). The share of the FIMR attributable to the newborn care period increased by 0.2 percentage points between 2012 and 2021 (neonatal deaths with a birthweight of 1,500 grams or greater), from 11.1% to 11.3%.

# INFANT MORTALITY

Infant Mortality Rate Per 1,000 Live Births Over Time

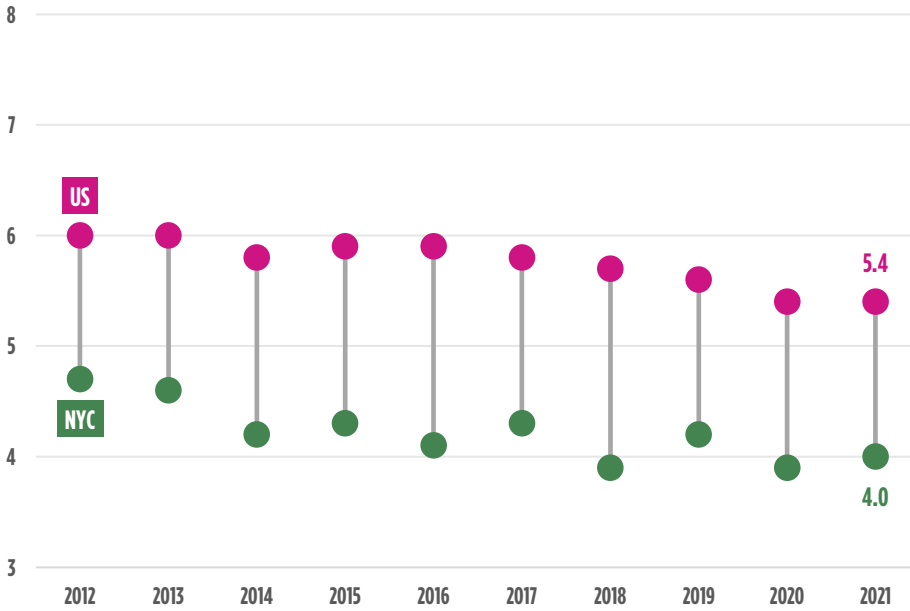




# INFANT MORTALITY

Figure 1. Infant Mortality Rate, New York City and the United States\*, 2012-2021

In the last 10 years, New York City's infant mortality rate (the number of infant deaths-death of an infant before their first birthday-for every 1,000 live births) has had a steeper decline than the US rate has (14.9% decline vs. 10.0% decline).

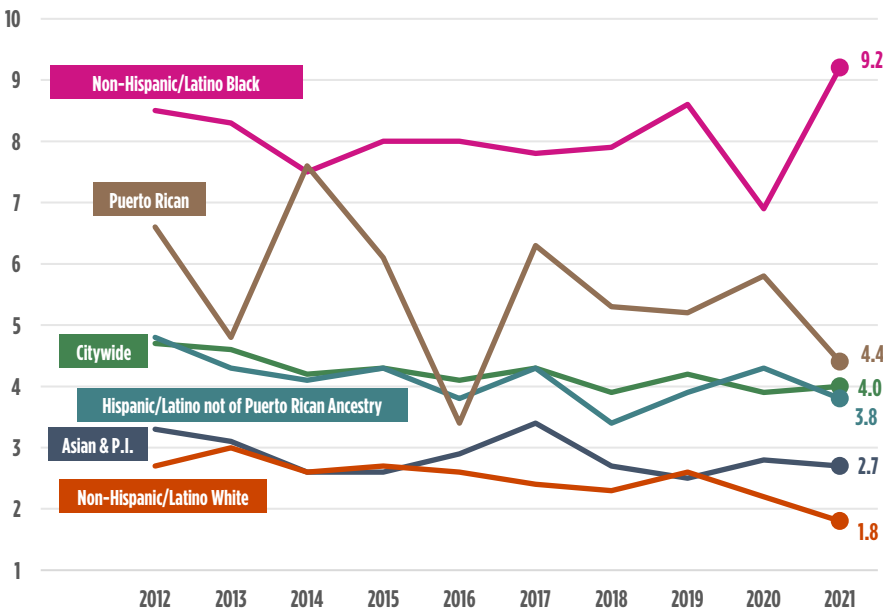


In 2021, New York City had an infant mortality rate of 4.0 infant deaths per 1,000 live births. This represents an increase of 2.6% from 2020 (3.9 infant deaths per 1,000 live births). The infant mortality rate may fluctuate from year to year due to the small number of infant deaths.

\*Data source: National Center for Health Statistics, National Vital Statistics System

Figure 2. Infant Mortality Rate by Mother's Racial/Ethnic Group, New York City, 2012-2021

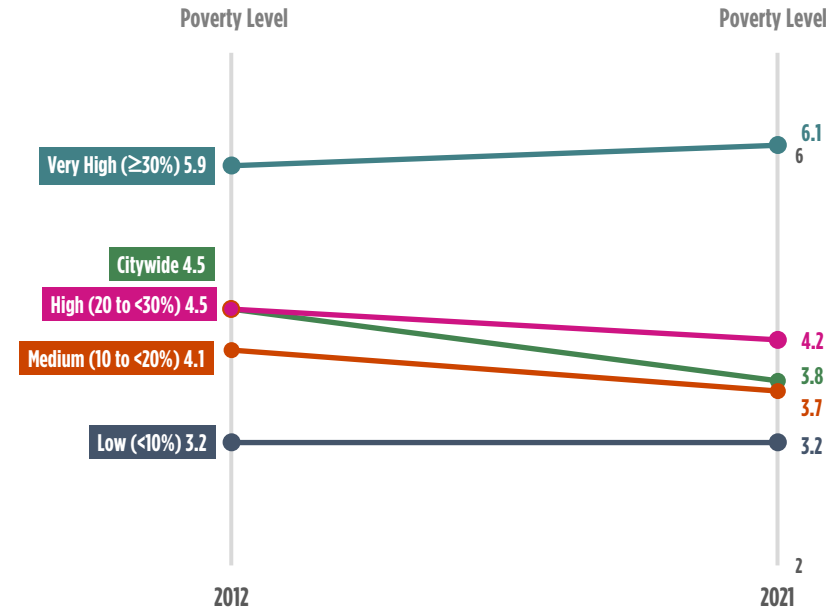
Infant mortality rates decreased from 2020 to 2021 among all racial/ethnic groups except for non-Hispanic/Latino Blacks, for which the rate increased by 33.3%.



Although rates fluctuate due to small numbers, they are consistently higher among some groups: the rate for non-Hispanic/Latino Blacks was 5.1 times the rate for non-Hispanic/Latino Whites in 2021; the rate for Puerto Ricans was 2.4 times the rate for non-Hispanic/Latino Whites in 2021.

# INFANT MORTALITY

Figure 3. Infant Mortality Rate by Neighborhood Poverty\*\*†, New York City Residents, 2012 and 2021  
 From 2012 to 2021, the infant mortality rate increased in **very high poverty** areas, declined in **high poverty** and **medium poverty** areas, and remained the same in low poverty areas.

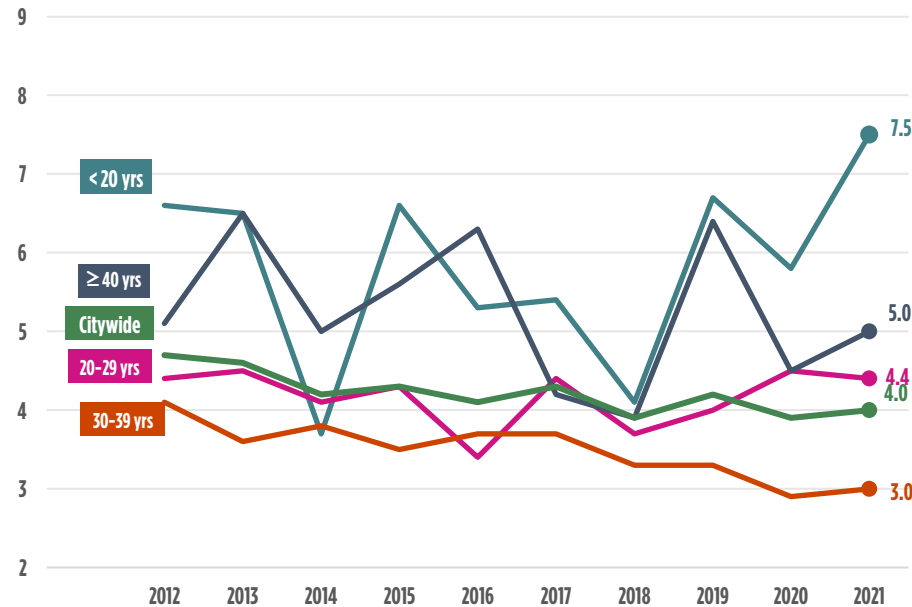


The infant mortality rate in **very high poverty** areas was 1.9 times the infant mortality rate in low poverty areas in 2021.

\*Neighborhood poverty (based on woman’s residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

†The citywide estimate is restricted to NYC residents.

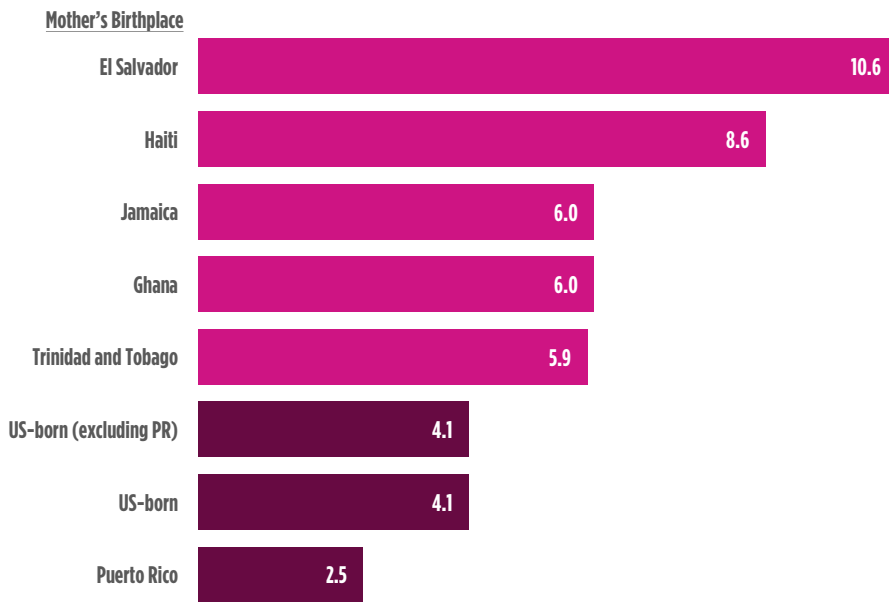
Figure 4. Infant Mortality Rate by Mother’s Age, New York City, 2012-2021  
 Since 2012, infant mortality rates decreased by 26.8% among infants born to women in the **30-39 age group**, decreased by 2.0% for women in the **≥40 age group**, increased by 13.6% for women in the **<20 age group**, and remained the same for women in the **20-29 age group**.



The infant mortality rate in New York City was highest among infants born to the youngest women (<20 years of age). In 2021, the rate among this group was 7.5 infant deaths per 1,000 live births (a 29.3% increase from 2020). In 2021, the infant mortality rate for women in the ≥40 age group was 5.0 infant deaths per 1,000 live births. The fluctuation (from year to year) in the infant mortality rate among infants born to women age <20 and ≥40 is likely due to the small number of infant deaths.

# INFANT MORTALITY

Figure 5. Infant Mortality Rates by Mother's Birthplace, US-born and Countries of Top 5 IMR, 3-Year Moving Average, 2019-2021  
 For the 2019-2021 time period, the infant mortality rate among US-born women (excluding Puerto Rico) was 4.1 infant deaths per 1,000 live births. For the same time period, the infant mortality rate for Puerto Rico-born women was 2.5 infant deaths per 1,000 live births.



The infant mortality rate was highest among women born in El Salvador at 10.6 infant deaths per 1,000 live births.

Women born in Haiti had the second highest infant mortality rate at 8.6 infant deaths per 1,000 live births, followed by Jamaica-born women (6.0), Ghana-born women (6.0), and Trinidad and Tobago-born women at 5.9 infant deaths per 1,000 live births.

Figure 6. Neonatal and Post-Neonatal Infant Mortality Rate, New York City, 2012-2021  
 In 2021, the **neonatal** (infants who are less than 28 days old) infant mortality rate was 2.5 infant deaths per 1,000 live births, and the **post-neonatal** (infants 28 days to less than 1 year old) IMR was 1.6 infant deaths per 1,000 live births.

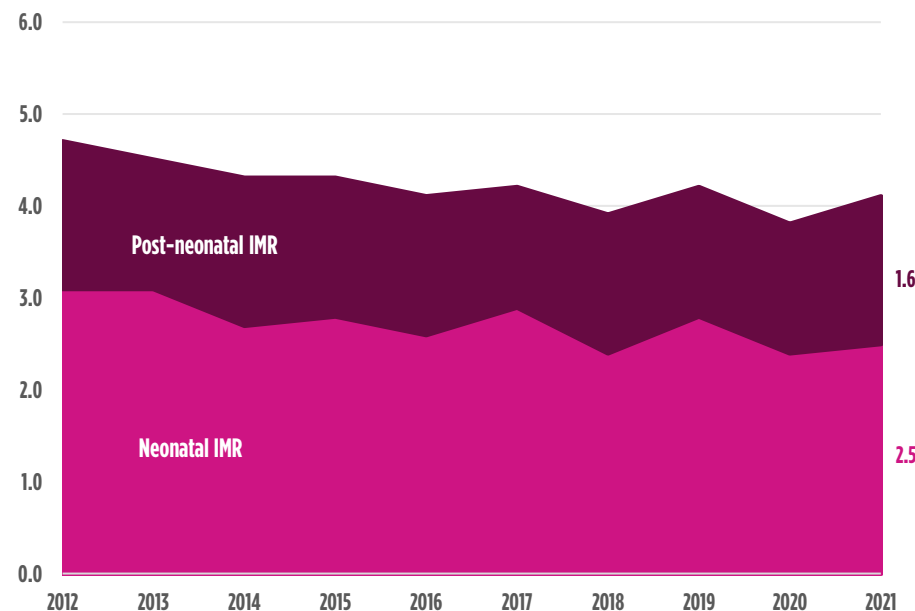
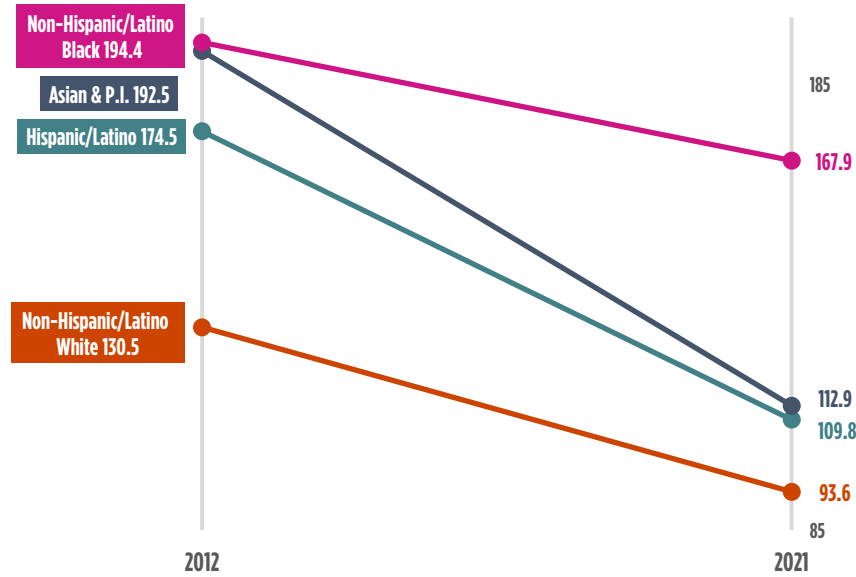


Figure 6 illustrates the share of the IMR that is attributable to **neonatal** and **post-neonatal** deaths. The share of the IMR attributable to **neonatal** deaths decreased from 65.7% in 2012 to 61.5% in 2021. The share of the IMR attributable to **post-neonatal** deaths increased from 34.3% in 2012 to 38.5% in 2021.

The sum of the **neonatal** IMR and **post-neonatal** IMR is not equal to the total IMR (4.0) due to rounding.

# INFANT MORTALITY

Figure 7. Infant Mortality Rates by Mother's Racial/Ethnic Group\*, Very Low Birthweight, 2012 and 2021  
 From 2012 to 2021, infant mortality rates among very low birthweight infants (born under 1,500 grams, VLBW) declined among all racial/ethnic groups.

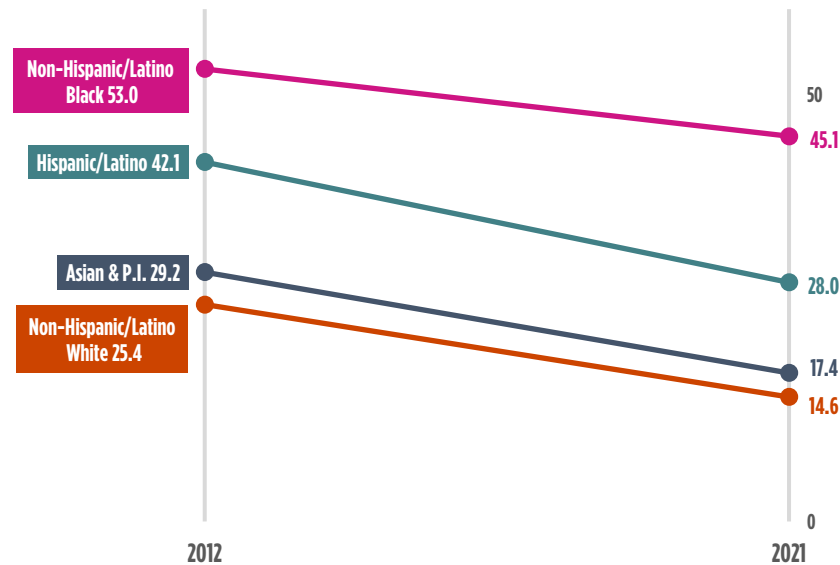


Among VLBW infants in 2021, the infant mortality rate was highest for **non-Hispanic/Latino Blacks** at 167.9 deaths per 1,000 live births, followed by Asians and Pacific Islanders (112.9), Hispanics/Latinos (109.8), and **non-Hispanic/Latino Whites** (93.6).

In 2021, the infant mortality rates for **non-Hispanic/Latino Black**, Asian and Pacific Islander, and **Hispanic/Latino** VLBW infants were 1.8, 1.2, and 1.2 times the VLBW infant mortality rate for **non-Hispanic/Latino White** infants, respectively.

\*Other/not stated maternal racial/ethnic groups not included in the figure.

Figure 8. Infant Mortality Rates by Mother's Racial/Ethnic Group\*, Low Birthweight, 2012 and 2021  
 From 2012 to 2021, infant mortality rates among low birthweight infants (born under 2,500 grams) declined among all racial/ethnic groups.



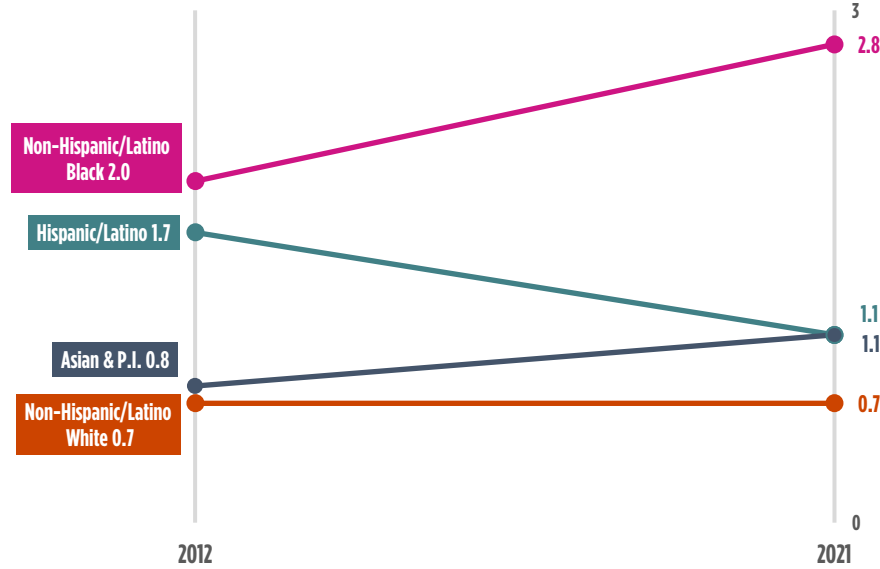
Among low birthweight infants in 2021, the infant mortality rate was highest for **non-Hispanic/Latino Blacks** at 45.1 deaths per 1,000 live births, 3.1 times that of **non-Hispanic/Latino Whites** (14.6).

\*Other/not stated maternal racial/ethnic groups not included in the figure.

# INFANT MORTALITY

Figure 9. Infant Mortality Rates by Mother's Racial/Ethnic Group\*, Normal Birthweight, 2012 and 2021

From 2012 to 2021, infant mortality rates among normal birthweight infants ( $\geq 2,500$  grams) increased among **non-Hispanic/Latino Blacks** and **Asians and Pacific Islanders**, decreased for **Hispanic/Latinos**, and remained the same for **non-Hispanic/Latino Whites**.



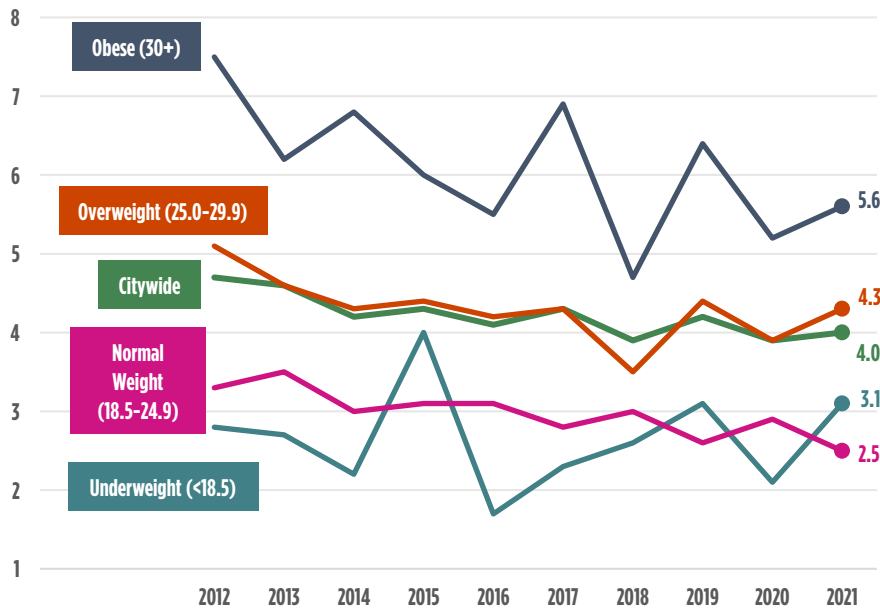
In 2021, **non-Hispanic/Latino Black** normal birthweight infants had an infant mortality rate of 2.8 infant deaths per 1,000 live births, followed by 1.1 for both **Hispanic/Latinos** and **Asians and Pacific Islanders**, and 0.7 for **non-Hispanic/Latino Whites**.

The infant mortality rate among **non-Hispanic/Latino Blacks** was 2.5 times that of **Asians and Pacific Islanders** and **Hispanics/Latinos**, and 4.0 times that of **non-Hispanic/Latino Whites**.

\*Other/not stated maternal racial/ethnic groups not included in the figure.

Figure 10. Infant Mortality Rates by Mother's Pre-Pregnancy Body Mass Index (BMI)\*, 2012-2021

Infant mortality rates increased from 2020 to 2021 among all pre-pregnancy body mass index (BMI) groups except for women with a **normal weight** BMI, which saw a decrease.



Rates fluctuate over time but are consistently higher among women with **overweight** and **obese** BMIs. The rate for women with an **overweight** BMI was 1.7 times the rate for women with a **normal weight** BMI in 2021; the rate for women with **obesity** was 2.2 times the rate for women with a **normal weight** BMI in 2021.

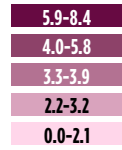
Women are categorized as having an **underweight** pre-pregnancy BMI if their pre-pregnancy BMI is less than 18.5, a **normal weight** BMI if their BMI is between 18.5 and 24.9, an **overweight** BMI if their BMI is between 25.0 and 29.9, and having **obesity** if their BMI is 30 or above.

# INFANT MORTALITY

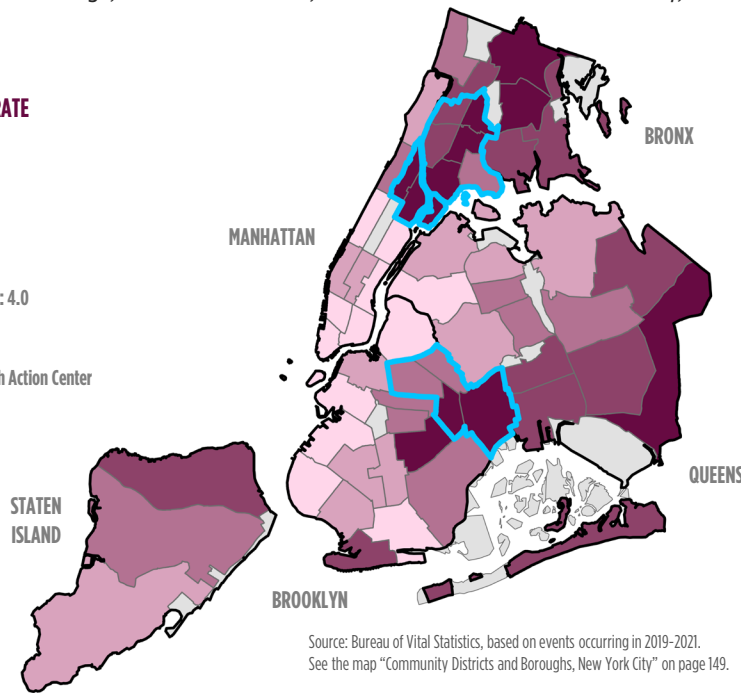
Figure 11. Average Infant Mortality Rate (Three-Year Averages) by Community District of Residence, New York City, 2019-2021\*

The three-year average infant mortality rate was highest in Brownsville at 8.4 deaths per 1,000 live births, followed by 8.1 in Williamsbridge, 7.2 in Central Harlem, 7.0 in Mott Haven and Pelham Parkway, and 6.9 in East Flatbush.

## INFANT MORTALITY RATE



Citywide 3-Year Average: 4.0



Source: Bureau of Vital Statistics, based on events occurring in 2019-2021. See the map "Community Districts and Boroughs, New York City" on page 149.

The lowest three-year average infant mortality rate was in Greenwich Village/SOHO with 0.0 deaths per 1,000 live births, followed by 0.9 in the Upper East Side and Murray Hill, 1.4 in Battery Park/Tribeca and the Lower East Side, 1.7 in Sunset Park, and 1.8 in Park Slope.

\*Due to instability in the infant mortality rates by community district, rates are presented as three-year averages.

| MANHATTAN                 |      |     |
|---------------------------|------|-----|
| CD                        | IMR  |     |
| Central Harlem            | MN10 | 7.2 |
| East Harlem               | MN11 | 6.1 |
| Manhattanville            | MN09 | 3.5 |
| Washington Heights        | MN12 | 3.2 |
| Chelsea, Clinton          | MN04 | 2.6 |
| Midtown Business District | MN05 | 2.5 |
| Upper West Side           | MN07 | 1.9 |
| Battery Park, Tribeca     | MN01 | 1.4 |
| Lower East Side           | MN03 | 1.4 |
| Murray Hill               | MN06 | 0.9 |
| Upper East Side           | MN08 | 0.9 |
| Greenwich Village, SOHO   | MN02 | 0.0 |

| BRONX                      |      |     |
|----------------------------|------|-----|
| CD                         | IMR  |     |
| Williamsbridge             | BX12 | 8.1 |
| Mott Haven                 | BX01 | 7.0 |
| Pelham Parkway             | BX11 | 7.0 |
| East Tremont               | BX06 | 6.2 |
| Morrisania                 | BX03 | 5.9 |
| Concourse, Highbridge      | BX04 | 5.3 |
| University, Morris Heights | BX05 | 4.5 |
| Throgs Neck                | BX10 | 4.5 |
| Unionport, Soundview       | BX09 | 4.4 |
| Fordham                    | BX07 | 4.1 |
| Riverdale                  | BX08 | 3.5 |
| Hunts Point                | BX02 | 3.3 |

| STATEN ISLAND            |      |     |
|--------------------------|------|-----|
| CD                       | IMR  |     |
| Port Richmond            | SI01 | 5.4 |
| Willowbrook, South Beach | SI02 | 3.9 |
| Tottenville              | SI03 | 2.9 |

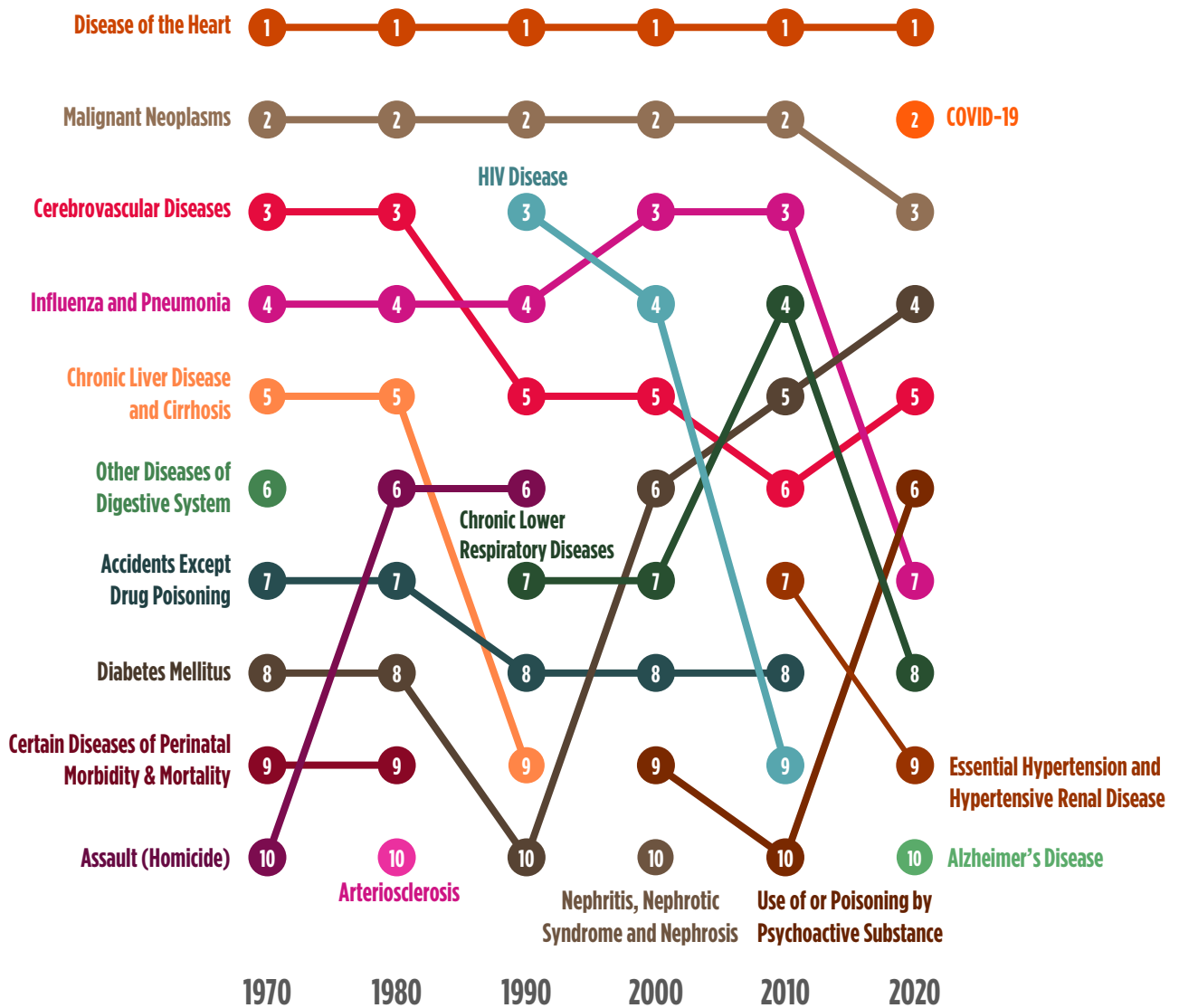
| BROOKLYN                      |      |     |
|-------------------------------|------|-----|
| CD                            | IMR  |     |
| Brownsville                   | BK16 | 8.4 |
| East Flatbush                 | BK17 | 6.9 |
| East New York                 | BK05 | 6.1 |
| Coney Island                  | BK13 | 4.6 |
| Crown Heights South           | BK09 | 3.9 |
| Bedford Stuyvesant            | BK03 | 3.7 |
| Crown Heights North           | BK08 | 3.6 |
| Bushwick                      | BK04 | 3.4 |
| Canarsie                      | BK18 | 3.3 |
| Fort Greene, Brooklyn Heights | BK02 | 2.9 |
| Bensonhurst                   | BK11 | 2.3 |
| Borough Park                  | BK12 | 2.2 |
| Flatbush, Midwood             | BK14 | 2.2 |
| Bay Ridge                     | BK10 | 2.1 |
| Williamsburg, Greenpoint      | BK01 | 2.0 |
| Sheepshead Bay                | BK15 | 1.9 |
| Park Slope                    | BK06 | 1.8 |
| Sunset Park                   | BK07 | 1.7 |

| QUEENS                    |      |     |
|---------------------------|------|-----|
| CD                        | IMR  |     |
| Queens Village            | QN13 | 6.7 |
| Jamaica, St. Albans       | QN12 | 5.8 |
| The Rockaways             | QN14 | 5.7 |
| Howard Beach              | QN10 | 5.2 |
| Bayside                   | QN11 | 4.7 |
| Woodhaven                 | QN09 | 4.2 |
| Rego Park, Forest Hills   | QN06 | 3.8 |
| Elmhurst, Corona          | QN04 | 3.7 |
| Fresh Meadows, Briarwood  | QN08 | 3.4 |
| Ridgewood, Glendale       | QN05 | 3.0 |
| Astoria, Long Island City | QN01 | 2.7 |
| Jackson Heights           | QN03 | 2.7 |
| Flushing                  | QN07 | 2.5 |
| Sunnyside, Woodside       | QN02 | 2.1 |

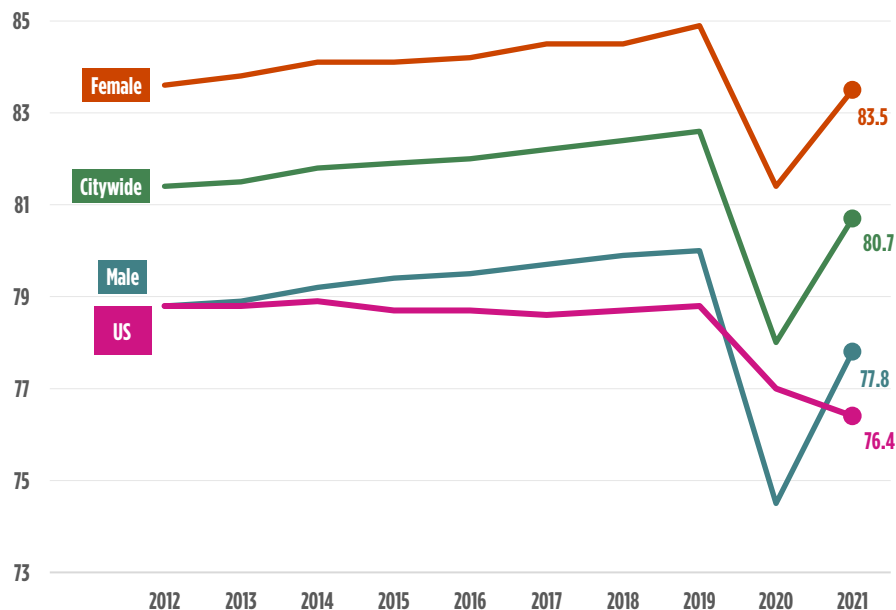
# MORTALITY

Leading Causes of Death (1970 – 2020), by rank



# LIFE EXPECTANCY

Figure 1. Life Expectancy at Birth, Overall and by Sex, **New York City** and the **United States**, 2012-2021\*  
**New York City's** life expectancy at birth in 2021 was 80.7 years, increasing by 2.7 years since 2020. The increase is largely due to the decline of COVID-19 deaths from 2020 to 2021.



The life expectancy among **males** in **New York City** was 77.8 years, a 3.3-year increase since 2020.

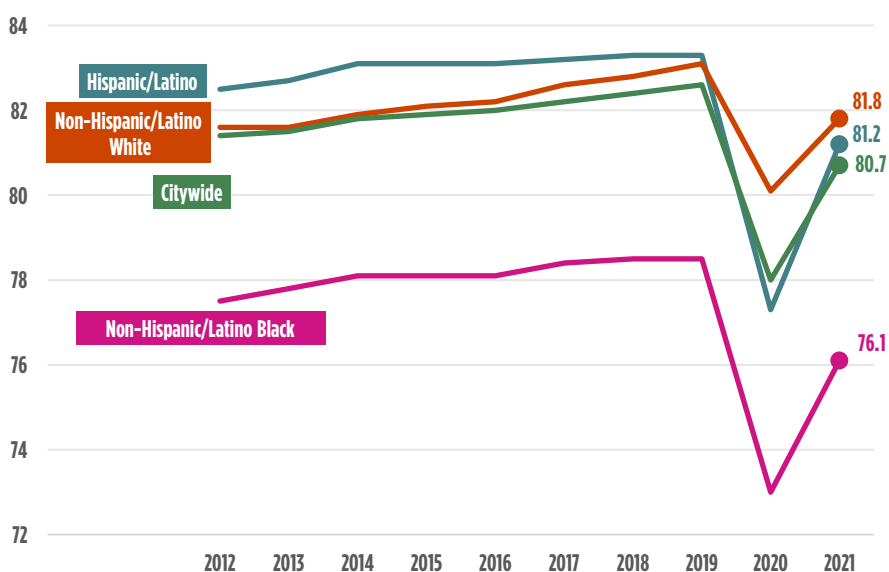
The life expectancy among **females** in **New York City** was 83.5 years, a 2.1-year increase since 2020.

The **United States'** life expectancy at birth was 76.4 in 2021 and has been consistently lower than **New York City's** life expectancy. The disparity between the **US** and **citywide** life expectancies gradually increased between 2012 and 2019, decreased between 2019 and 2020, and increased again between 2020 and 2021.

\*Life expectancies for 2012-2019 are updated based on citywide population estimates for 2011-2020 from "2021 County and Economic Development Regions Population Estimates" by the Cornell Jeb E. Brooks School of Public Policy. Population estimates by demographics were imputed by the Bureau of Epidemiological Services at NYC Department of Health and Mental Hygiene. Population data for 2021 are from Census Bureau population estimates, 2022 vintage.

Figure 2. Life Expectancy at Birth by Racial/Ethnic Group, **New York City**, 2012-2021

The **New York City** 2021 life expectancy at birth was 81.2 years among **Hispanics/Latinos**, 81.8 years among **non-Hispanic/Latino Whites**, and 76.1 years among **non-Hispanic/Latino Blacks**. Life expectancy for each racial/ethnic group increased since 2020.



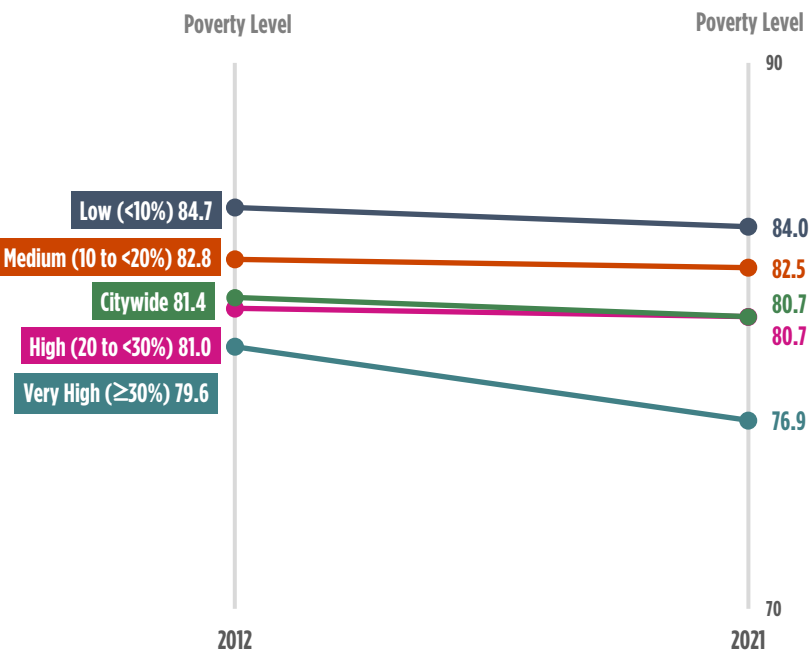
From 2020 to 2021, life expectancy increased by 3.1 years among **non-Hispanic/Latino Blacks**, 3.9 years among **Hispanics/Latinos**, and 1.7 years among **non-Hispanic/Latino Whites**.

The annual life expectancy estimate for **Asians and Pacific Islanders** is not displayed due to small single-year age population denominators. For the first time, life expectancy is calculated for decennial year 2020 using 2019-2021 combined data (see Table M24).



# LIFE EXPECTANCY

Figure 3. Life Expectancy at Birth by Neighborhood Poverty\*, New York City, 2012 and 2021  
 Life expectancy decreased across all categories of neighborhood poverty between 2012 and 2021. For very high poverty areas, life expectancy decreased by 2.7 years, compared to 0.7 years for low poverty areas.



The difference in life expectancy between very high and low poverty areas in 2021 was 7.1 years, compared to 7.7 years in 2020.

\*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

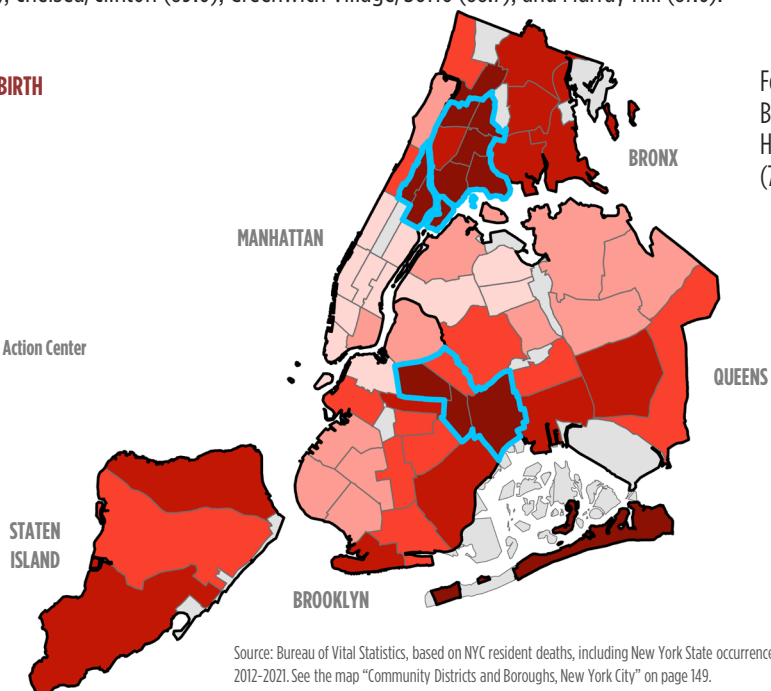
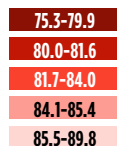
\*Mortality data are based on NYC residents, including New York State occurrence.

# LIFE EXPECTANCY

Figure 4. Life Expectancy at Birth by Community District, New York City, 2012-2021

For 2012-2021, New York City's life expectancy at birth was highest in Sunnyside/Woodside (89.8), Midtown Business District (89.1), Chelsea/Clinton (89.0), Greenwich Village/SOHO (88.7), and Murray Hill (87.6).

## LIFE EXPECTANCY AT BIRTH



For 2012-2021, life expectancy at birth was lowest in Brownsville (75.3), the Rockaways (76.5), Central Harlem (76.8), Morrisania (77.2), and East Tremont (77.4).

Source: Bureau of Vital Statistics, based on NYC resident deaths, including New York State occurrence, 2012-2021. See the map "Community Districts and Boroughs, New York City" on page 149.

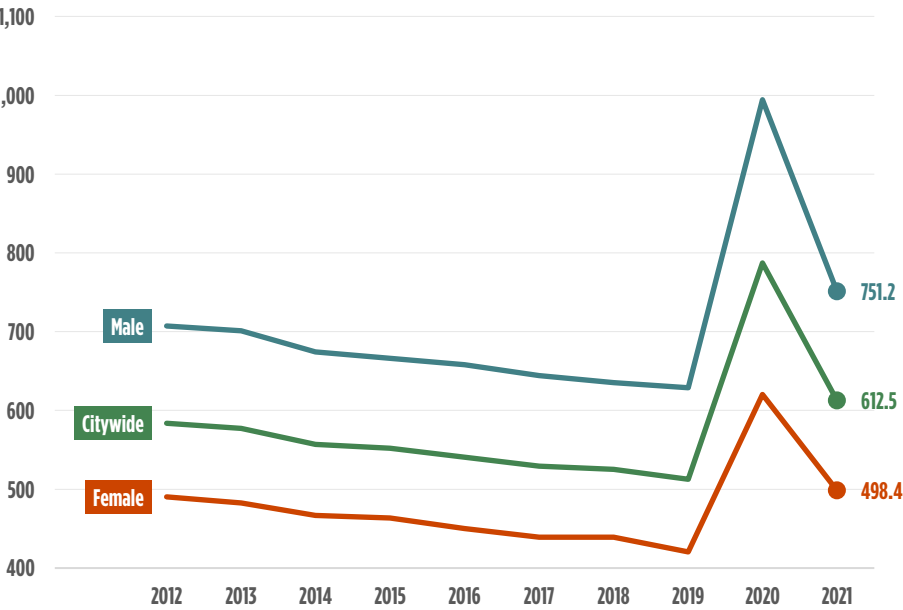
| MANHATTAN                 |      | CD   | Life Expectancy |
|---------------------------|------|------|-----------------|
| Midtown Business District | MN05 | 89.1 |                 |
| Chelsea, Clinton          | MN04 | 89.0 |                 |
| Greenwich Village, SOHO   | MN02 | 88.7 |                 |
| Murray Hill               | MN06 | 87.6 |                 |
| Upper East Side           | MN08 | 87.4 |                 |
| Battery Park, Tribeca     | MN01 | 86.8 |                 |
| Upper West Side           | MN07 | 85.9 |                 |
| Washington Heights        | MN12 | 84.6 |                 |
| Lower East Side           | MN03 | 84.3 |                 |
| Manhattanville            | MN09 | 82.3 |                 |
| East Harlem               | MN11 | 78.1 |                 |
| Central Harlem            | MN10 | 76.8 |                 |
| BRONX                     |      | CD   | Life Expectancy |
| Riverdale                 | BX08 | 81.7 |                 |
| Throgs Neck               | BX10 | 81.5 |                 |
| Williamsbridge            | BX12 | 81.2 |                 |
| Unionport, Soundview      | BX09 | 80.8 |                 |
| Pelham Parkway            | BX11 | 80.4 |                 |
| Concourse, Highbridge     | BX04 | 79.9 |                 |
| Fordham                   | BX07 | 79.9 |                 |
| University/Morris Heights | BX05 | 79.8 |                 |
| Hunts Point               | BX02 | 79.7 |                 |
| Mott Haven                | BX01 | 77.7 |                 |
| East Tremont              | BX06 | 77.4 |                 |
| Morrisania                | BX03 | 77.2 |                 |
| STATEN ISLAND             |      | CD   | Life Expectancy |
| Willowbrook, South Beach  | SI02 | 82.1 |                 |
| Tottenville               | SI03 | 81.2 |                 |
| Port Richmond             | SI01 | 79.9 |                 |

| BROOKLYN                      |      | CD   | Life Expectancy |
|-------------------------------|------|------|-----------------|
| Fort Greene, Brooklyn Heights | BK02 | 85.9 |                 |
| Bensonhurst                   | BK11 | 84.9 |                 |
| Borough Park                  | BK12 | 84.8 |                 |
| Bay Ridge                     | BK10 | 84.5 |                 |
| Williamsburg, Greenpoint      | BK01 | 84.2 |                 |
| Sunset Park                   | BK07 | 84.1 |                 |
| Sheepshead Bay                | BK15 | 84.0 |                 |
| Park Slope                    | BK06 | 83.4 |                 |
| Flatbush, Midwood             | BK14 | 82.4 |                 |
| Crown Heights South           | BK09 | 82.2 |                 |
| East Flatbush                 | BK17 | 82.2 |                 |
| Bushwick                      | BK04 | 81.9 |                 |
| Canarsie                      | BK18 | 81.6 |                 |
| Crown Heights North           | BK08 | 81.2 |                 |
| Coney Island                  | BK13 | 80.5 |                 |
| Bedford Stuyvesant            | BK03 | 79.7 |                 |
| East New York                 | BK05 | 78.3 |                 |
| Brownsville                   | BK16 | 75.3 |                 |
| QUEENS                        |      | CD   | Life Expectancy |
| Sunnyside, Woodside           | QN02 | 89.8 |                 |
| Elmhurst, Corona              | QN04 | 86.2 |                 |
| Jackson Heights               | QN03 | 85.4 |                 |
| Rego Park, Forest Hills       | QN06 | 85.4 |                 |
| Flushing                      | QN07 | 85.3 |                 |
| Fresh Meadows, Briarwood      | QN08 | 85.0 |                 |
| Bayside                       | QN11 | 84.9 |                 |
| Astoria, Long Island City     | QN01 | 84.0 |                 |
| Woodhaven                     | QN09 | 83.0 |                 |
| Queens Village                | QN13 | 82.8 |                 |
| Ridgewood, Glendale           | QN05 | 81.7 |                 |
| Howard Beach                  | QN10 | 81.5 |                 |
| Jamaica, St. Albans           | QN12 | 80.9 |                 |
| The Rockaways                 | QN14 | 76.5 |                 |

# CITYWIDE MORTALITY

Figure 5. Age-Adjusted Death Rates, Overall and by Sex, New York City, 2012-2021

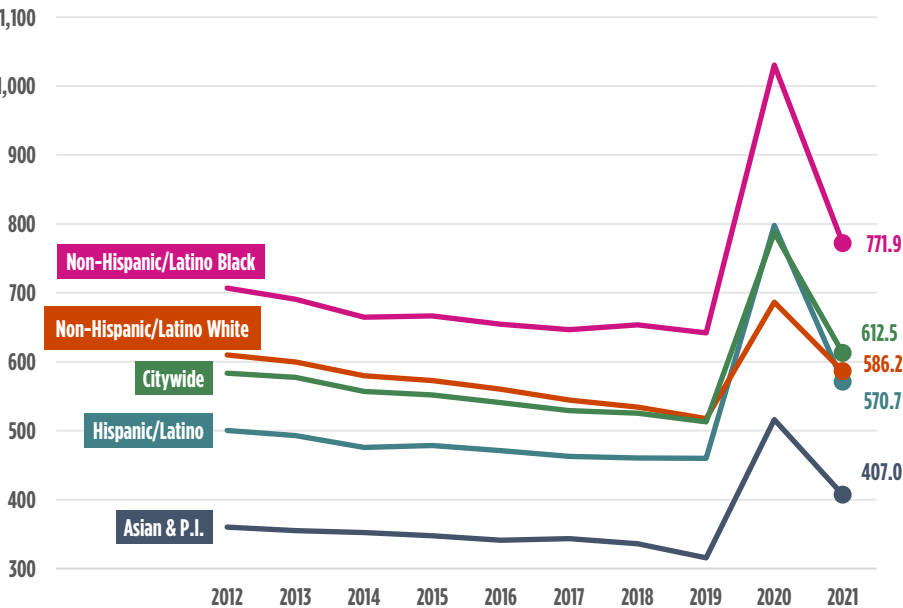
From 2019 to 2020, the citywide age-adjusted mortality rate sharply increased by 53.6%, largely due to the COVID-19 pandemic. In contrast, the age-adjusted death rate decreased from 787.4 per 100,000 population in 2020, to 612.5 in 2021, mostly due to the decline of COVID-19 deaths from 2020 to 2021.



From 2020 to 2021, age-adjusted death rates decreased by 24.4% among males, and by 19.7% among females.

Figure 6. Age-Adjusted Death Rates by Racial/Ethnic Group, New York City, 2012-2021

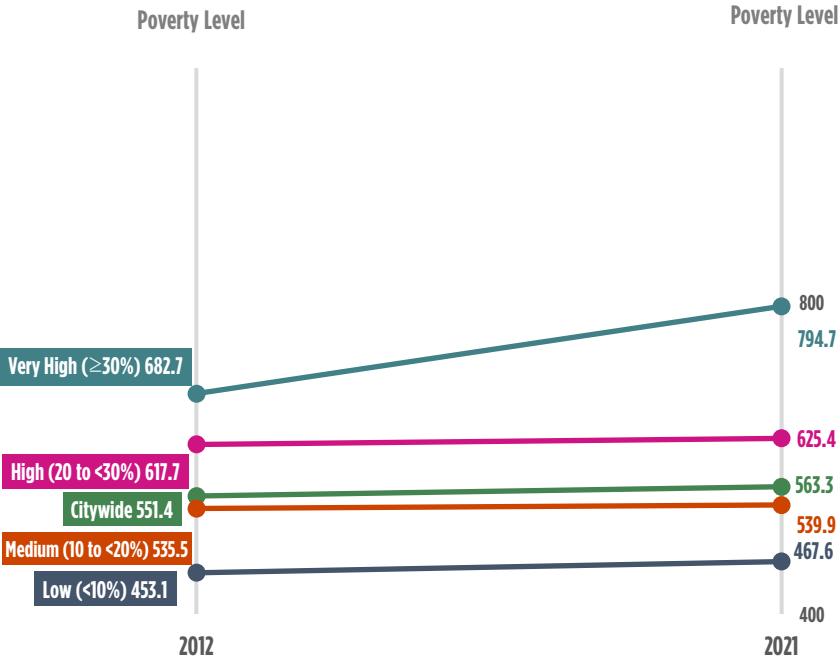
From 2020 to 2021, the age-adjusted death rate decreased among Hispanics/Latinos by 28.5%, among non-Hispanic/Latino Blacks by 25.1%, among non-Hispanic/Latino Whites by 14.6%, and among Asians and Pacific Islanders by 21.1%.



In 2021, the death rate for non-Hispanic/Latino Blacks was 31.7% higher than the rate for non-Hispanic/Latino Whites. The death rate has continued to be higher among non-Hispanic/Latino Blacks compared to non-Hispanic/Latino Whites over time. The gap has decreased since 2020 (the death rate for non-Hispanic/Latino Blacks was 50.0% higher than the rate for non-Hispanic/Latino Whites in 2020).

# CITYWIDE MORTALITY

Figure 7. Age-Adjusted Death Rates by Neighborhood Poverty\*, New York City Residents, 2012 and 2021  
 Since 2012, age-adjusted death rates increased across all categories of neighborhood poverty. Over that period, the rate increased by 16.4% in very high poverty areas, by 1.2% in high poverty areas, by 0.8% in medium poverty areas, and by 3.2% in low poverty areas.



The age-adjusted death rate in areas with very high poverty was 1.7 times the rate in areas with low poverty in 2021, an increase in disparity since 2012 (1.5 times the rate in 2012).

\*Neighborhood poverty (based on decedent’s residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

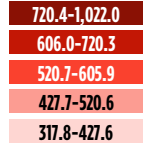
†The citywide estimate is restricted to NYC residents.

# NEIGHBORHOOD MORTALITY

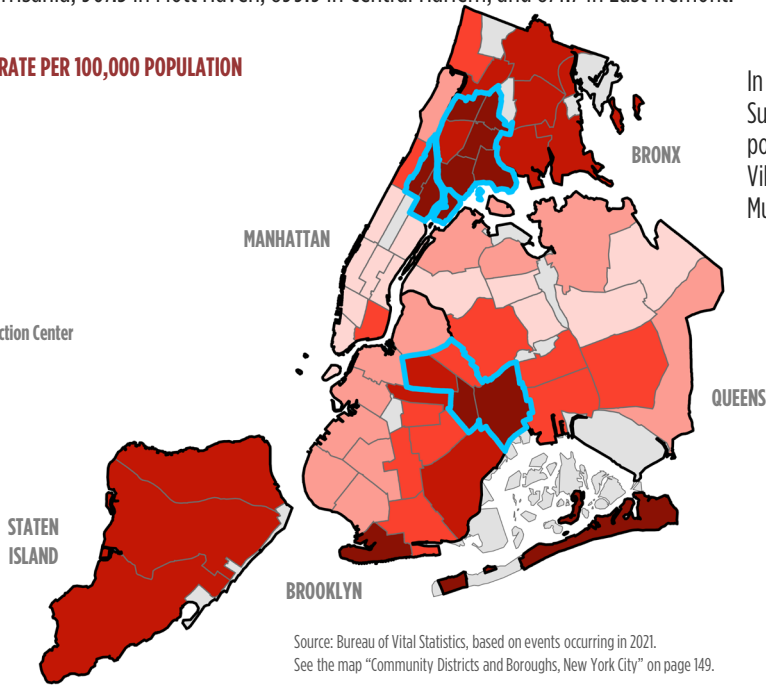
Figure 8. Age-Adjusted Death Rates by Community District of Residence, New York City, 2021

In 2021, Brownsville had the highest age-adjusted death rate, at 1,022.0 deaths per 100,000 population, followed by 915.6 in Morrisania, 907.5 in Mott Haven, 899.9 in Central Harlem, and 871.7 in East Tremont.

## AGE-ADJUSTED DEATH RATE PER 100,000 POPULATION



Citywide Average: 612.5



In 2021, age-adjusted death rates were lowest in Sunnyside/Woodside at 317.8 deaths per 100,000 population, followed by 332.4 in Greenwich Village/SOHO, 359.1 in the Upper East Side, 372.6 in Murray Hill, and 378.0 in Bayside.

Source: Bureau of Vital Statistics, based on events occurring in 2021. See the map "Community Districts and Boroughs, New York City" on page 149.

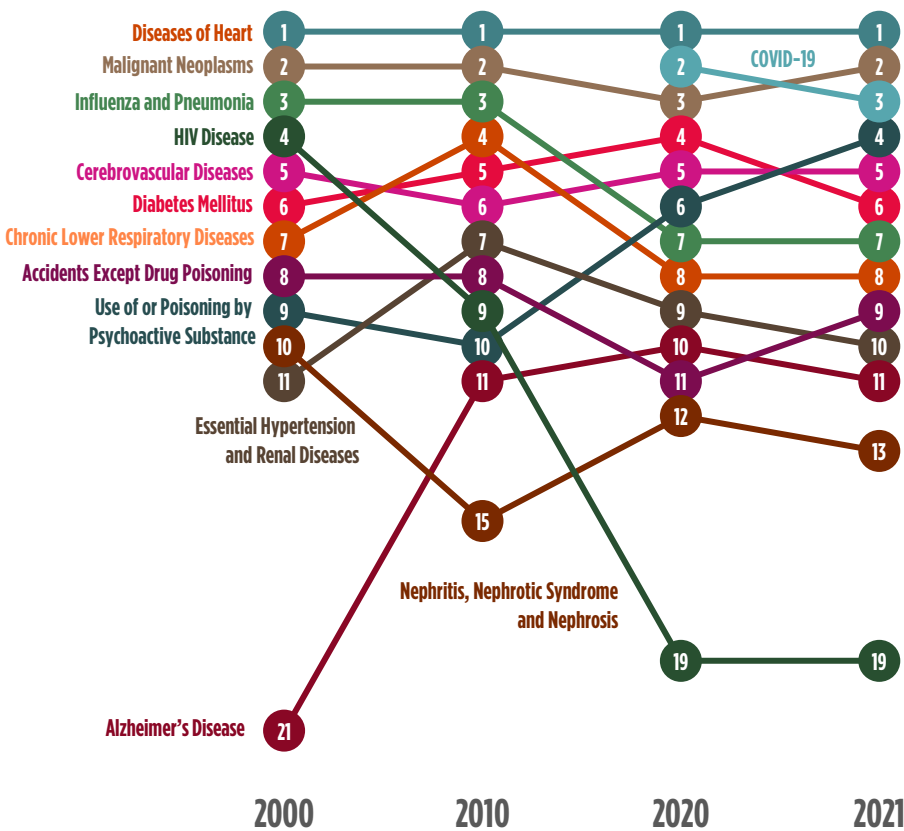
| MANHATTAN                 |                          |       |
|---------------------------|--------------------------|-------|
| CD                        | Age-adjusted Death Rates |       |
| Central Harlem            | MN10                     | 899.9 |
| East Harlem               | MN11                     | 867.5 |
| Manhattanville            | MN09                     | 605.9 |
| Lower East Side           | MN03                     | 563.4 |
| Washington Heights        | MN12                     | 509.3 |
| Upper West Side           | MN07                     | 427.6 |
| Battery Park, Tribeca     | MN01                     | 410.8 |
| Midtown Business District | MN05                     | 381.9 |
| Chelsea, Clinton          | MN04                     | 379.4 |
| Murray Hill               | MN06                     | 372.6 |
| Upper East Side           | MN08                     | 359.1 |
| Greenwich Village, SOHO   | MN02                     | 332.4 |
| BRONX                     |                          |       |
| CD                        | Age-adjusted Death Rates |       |
| Morrisania                | BX03                     | 915.6 |
| Mott Haven                | BX01                     | 907.5 |
| East Tremont              | BX06                     | 871.7 |
| Hunts Point               | BX02                     | 853.0 |
| University/Morris Heights | BX05                     | 756.2 |
| Fordham                   | BX07                     | 720.0 |
| Concourse, Highbridge     | BX04                     | 708.4 |
| Unionport, Soundview      | BX09                     | 656.4 |
| Pelham Parkway            | BX11                     | 656.2 |
| Throgs Neck               | BX10                     | 652.3 |
| Williamsbridge            | BX12                     | 650.0 |
| Riverdale                 | BX08                     | 593.4 |
| STATEN ISLAND             |                          |       |
| CD                        | Age-adjusted Death Rates |       |
| Tottenville               | SI03                     | 720.3 |
| Port Richmond             | SI01                     | 701.0 |
| Willowbrook, South Beach  | SI02                     | 633.2 |

| BROOKLYN                      |                          |        |
|-------------------------------|--------------------------|--------|
| CD                            | Age-adjusted Death Rates |        |
| Brownsville                   | BK16                     | 1022.0 |
| East New York                 | BK05                     | 816.5  |
| Coney Island                  | BK13                     | 745.9  |
| Bedford Stuyvesant            | BK03                     | 693.7  |
| Crown Heights North           | BK08                     | 623.3  |
| Canarsie                      | BK18                     | 611.7  |
| East Flatbush                 | BK17                     | 603.2  |
| Flatbush, Midwood             | BK14                     | 572.8  |
| Bushwick                      | BK04                     | 559.4  |
| Crown Heights South           | BK09                     | 546.6  |
| Sheepshead Bay                | BK15                     | 540.0  |
| Sunset Park                   | BK07                     | 520.6  |
| Bensonhurst                   | BK11                     | 512.7  |
| Williamsburg, Greenpoint      | BK01                     | 507.4  |
| Bay Ridge                     | BK10                     | 487.3  |
| Borough Park                  | BK12                     | 468.2  |
| Park Slope                    | BK06                     | 464.6  |
| Fort Greene, Brooklyn Heights | BK02                     | 463.0  |
| QUEENS                        |                          |        |
| CD                            | Age-adjusted Death Rates |        |
| The Rockaways                 | QN14                     | 790.5  |
| Ridgewood, Glendale           | QN05                     | 592.5  |
| Jamaica, St. Albans           | QN12                     | 576.6  |
| Howard Beach                  | QN10                     | 575.0  |
| Woodhaven                     | QN09                     | 527.8  |
| Astoria, Long Island City     | QN01                     | 516.2  |
| Queens Village                | QN13                     | 439.4  |
| Flushing                      | QN07                     | 433.5  |
| Jackson Heights               | QN03                     | 431.4  |
| Rego Park, Forest Hills       | QN06                     | 424.7  |
| Fresh Meadows, Briarwood      | QN08                     | 421.6  |
| Elmhurst, Corona              | QN04                     | 420.3  |
| Bayside                       | QN11                     | 378.0  |

# LEADING CAUSES OF DEATH

Figure 9. Leading Causes of Death, New York City, 2000, 2010, 2020, and 2021

Heart disease\* and malignant neoplasms ranked as the top two leading causes of death in 2021.



COVID-19 dropped from the 2<sup>nd</sup> leading cause in 2020 to the 3<sup>rd</sup> in 2021.

Use of or poisoning by psychoactive substance<sup>†</sup> dropped from the 9<sup>th</sup> leading cause in 2000 to the 10<sup>th</sup> in 2010, rose to the 6<sup>th</sup> in 2020 and then to the 4<sup>th</sup> in 2021.

Alzheimer's disease has risen from the 21<sup>st</sup> leading cause in 2000, to the 11<sup>th</sup> leading cause in 2010, then to the 10<sup>th</sup> in 2020, and dropped to the 11<sup>th</sup> in 2021. Although this change in ranking reflects the aging of the population, increases in Alzheimer's disease observed since 2010 may be partly attributed to efforts to improve cause of death reporting.

Influenza and pneumonia dropped from the 3<sup>rd</sup> leading cause in 2000 and 2010 to the 7<sup>th</sup> in 2020 and 2021.

\* See the 2010 Summary of Vital Statistics: Mortality - Special Section: Cause of Death Quality Improvement Initiative for information on the trends in cause of death reporting, particularly for heart disease.

† Appendix B Technical Notes: Drug-Related Deaths.

Table 1. Leading Causes of Death by Sex, New York City, 2021\*

Heart disease and malignant neoplasms are the 1<sup>st</sup> and 2<sup>nd</sup> leading causes of death, respectively, for both males and females.

| Rank | Male   | Female  |
|------|--|---|
| 1    | Diseases of Heart                                    | Diseases of Heart                             |
| 2    | Malignant Neoplasms                                  | Malignant Neoplasms                           |
| 3    | COVID-19   | COVID-19                                      |
| 4    | Use of or Poisoning by Psychoactive Substance        | Cerebrovascular Diseases                      |
| 5    | Diabetes Mellitus                                    | Alzheimer's Disease                           |
| 6    | Cerebrovascular Diseases                             | Diabetes Mellitus                             |
| 7    | Influenza and Pneumonia                              | Influenza and Pneumonia                       |
| 8    | Accidents Except Poisoning by Psychoactive Substance | Chronic Lower Respiratory Diseases            |
| 9    | Chronic Lower Respiratory Diseases                   | Essential Hypertension and Renal Diseases     |
| 10   | Essential Hypertension and Renal Diseases            | Use of or Poisoning by Psychoactive Substance |

COVID-19 is the 3<sup>rd</sup> leading cause of death among males and females.

Use of or poisoning by psychoactive substance is the 4<sup>th</sup> leading cause of death among males but ranks 10<sup>th</sup> among females.

Accidents except poisoning by psychoactive substance are a leading cause of death among males only (8<sup>th</sup>).

Alzheimer's disease is ranked as a leading cause of death among females only (5<sup>th</sup>).

\*Counts and percentages for this table can be found in Table M7.

# LEADING CAUSES OF DEATH

Table 2. Leading Causes of Death by Racial/Ethnic Group\*, New York City, 2021†

Heart disease, COVID-19, and malignant neoplasms are the top 3 leading causes of death among all racial/ethnic groups.

| Rank | Puerto Rican   | Hispanic/Latino not of Puerto Rican ancestry         | Asian & Pacific Islander                              | Non-Hispanic/Latino White                            | Non-Hispanic/Latino Black                              |
|------|--|--|---|--|--|
| 1    | Diseases of Heart                                    | Diseases of Heart                                    | Diseases of Heart                                     | Diseases of Heart                                    | Diseases of Heart                                      |
| 2    | Malignant Neoplasms                                  | COVID-19   | Malignant Neoplasms                                   | Malignant Neoplasms                                  | Malignant Neoplasms                                    |
| 3    | COVID-19   | Malignant Neoplasms                                  | COVID-19  | COVID-19   | COVID-19   |
| 4    | Use of or Poisoning by Psychoactive Substance        | Use of or Poisoning by Psychoactive Substance        | Cerebrovascular Diseases                              | Use of or Poisoning by Psychoactive Substance        | Use of or Poisoning by Psychoactive Substance          |
| 5    | Cerebrovascular Diseases                             | Cerebrovascular Diseases                             | Influenza and Pneumonia                               | Cerebrovascular Diseases                             | Diabetes Mellitus                                      |
| 6    | Diabetes Mellitus                                    | Accidents Except Poisoning by Psychoactive Substance | Diabetes Mellitus                                     | Influenza and Pneumonia                              | Cerebrovascular Diseases                               |
| 7    | Influenza and Pneumonia                              | Diabetes Mellitus                                    | Accidents Except Poisoning by Psychoactive Substance  | Chronic Lower Respiratory Diseases                   | Essential Hypertension and Hypertensive Renal Diseases |
| 8    | Chronic Lower Respiratory Diseases                   | Influenza and Pneumonia                              | Essential Hypertension and Hypertensive Renal Disease | Alzheimer's Disease                                  | Influenza and Pneumonia                                |
| 9    | Alzheimer's Disease                                  | Chronic Liver Disease and Cirrhosis                  | Chronic Lower Respiratory Diseases                    | Accidents Except Poisoning by Psychoactive Substance | Chronic Lower Respiratory Diseases                     |
| 10   | Accidents Except Poisoning by Psychoactive Substance | Alzheimer's Disease                                  | Intentional Self-harm (Suicide)                       | Diabetes Mellitus                                    | Assault (Homicide)                                     |

Use of or poisoning by psychoactive substance (drug-related deaths) is a leading cause of death among all racial/ethnic groups except Asians and Pacific Islanders.

Chronic lower respiratory diseases are among the top 10 leading causes in all racial/ethnic groups except Hispanics/Latinos not of Puerto Rican ancestry. Chronic lower respiratory diseases rank 8<sup>th</sup> among Puerto Ricans, 9<sup>th</sup> among Asians and Pacific Islanders and non-Hispanic/Latino Blacks, and 7<sup>th</sup> among non-Hispanic/Latino Whites.

Assault (homicide) is a leading cause of death among non-Hispanic/Latino Blacks only (10<sup>th</sup>).

Essential hypertension and hypertensive renal disease ranks 8<sup>th</sup> among Asians and Pacific Islanders, and 7<sup>th</sup> among non-Hispanic/Latino Blacks.

Cerebrovascular diseases rank 5<sup>th</sup> among Puerto Ricans, Hispanics/Latinos not of Puerto Rican ancestry, and non-Hispanic/Latino Whites, rank 4<sup>th</sup> among Asians and Pacific Islanders, and rank 6<sup>th</sup> among non-Hispanic/Latino Blacks.

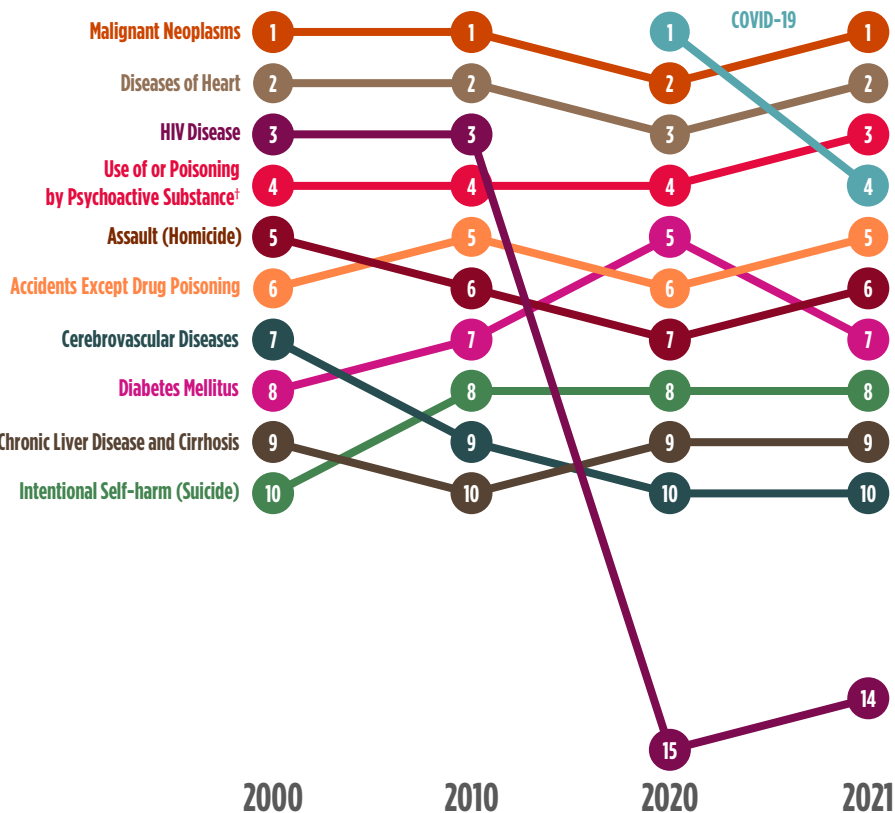
\* Decedents of other or multiple races, or with unknown ethnicities are not shown.

† Counts and percentages for this table can be found in Table M8.

# PREMATURE DEATH

Figure 10. Leading Causes of Premature Death (Age <65 Years), New York City, 2000, 2010, 2020, and 2021

**Malignant neoplasms (cancer)** and **heart disease\*** ranked as the top two leading causes of premature death in 2021.



HIV disease dropped from the 3<sup>rd</sup> leading cause of premature death in 2000 and 2010, to the 15<sup>th</sup> in 2020, and then rose to the 14<sup>th</sup> in 2021.

COVID-19 dropped from the 1<sup>st</sup> leading cause of premature death in 2020 to the 4<sup>th</sup> in 2021.

Diabetes mellitus has risen from the 8<sup>th</sup> leading cause of premature death in 2000, and the 7<sup>th</sup> leading cause in 2010, to the 5<sup>th</sup> in 2020, but dropped to 7<sup>th</sup> in 2021.

Intentional self-harm (suicide) rose from the 10<sup>th</sup> leading cause of premature death in 2000 to the 8<sup>th</sup> leading cause in 2010, 2020, and 2021.

\* See the 2010 Summary of Vital Statistics: Mortality - Special Section: Cause of Death Quality Improvement Initiative for information on the trends in cause of death reporting, particularly for heart disease.

† Appendix B Technical Notes: Drug-Related Deaths.

Table 3. Leading Causes of Premature Death (Age <65 Years) by Sex, New York City, 2021\*

Heart disease was the 1<sup>st</sup> leading cause of premature death for males in 2021, and malignant neoplasms were the 1<sup>st</sup> leading cause of premature death for females.

| Rank | Male   | Female   |
|------|--|--|
| 1    | Diseases of Heart                                    | Malignant Neoplasms                                  |
| 2    | Use of or Poisoning by Psychoactive Substance        | Diseases of Heart                                    |
| 3    | Malignant Neoplasms                                  | COVID-19   |
| 4    | COVID-19   | Use of or Poisoning by Psychoactive Substance        |
| 5    | Accidents Except Poisoning by Psychoactive Substance | Diabetes Mellitus                                    |
| 6    | Assault (Homicide)                                   | Cerebrovascular Diseases                             |
| 7    | Intentional Self-harm (Suicide)                      | Chronic Lower Respiratory Diseases                   |
| 8    | Diabetes Mellitus                                    | Accidents Except Poisoning by Psychoactive Substance |
| 9    | Chronic Liver Disease and Cirrhosis                  | Intentional Self-harm (Suicide)                      |
| 10   | Mental Disorders due to use of alcohol               | Chronic Liver Disease and Cirrhosis                  |

Use of or poisoning by psychoactive substance was the 2<sup>nd</sup> leading cause of premature death among males, and the 4<sup>th</sup> leading cause of premature death among females.

Assault (homicide) and mental disorders due to use of alcohol were leading causes of premature death among males only (6<sup>th</sup> and 10<sup>th</sup>, respectively). Cerebrovascular diseases and chronic lower respiratory diseases ranked as leading causes among females only (6<sup>th</sup> and 7<sup>th</sup>, respectively).

\*Counts and percentages for this table can be found in Table M9.



# PREMATURE DEATH

Table 4. Leading Causes of Premature Death (Age <65 Years) by Racial/Ethnic Group\*, New York City, 2021†  
 Use of or poisoning by psychoactive substance is the 1<sup>st</sup> leading cause of premature death for Puerto Ricans and Hispanics/Latinos not of Puerto Rican ancestry, while malignant neoplasms are the 1<sup>st</sup> leading cause for Asians and Pacific Islanders and non-Hispanic/Latino Whites, and heart disease is the 1<sup>st</sup> leading cause for non-Hispanic/Latino Blacks.

| Rank | Puerto Rican   | Hispanic/Latino not of Puerto Rican ancestry         | Asian & Pacific Islander                               | Non-Hispanic/Latino White                            | Non-Hispanic/Latino Black  |
|------|--|--|--|--|--|
| 1    | Use of or Poisoning by Psychoactive Substance          | Use of or Poisoning by Psychoactive Substance        | Malignant Neoplasms                                    | Malignant Neoplasms                                  | Diseases of Heart  |
| 2    | Diseases of Heart                                      | Malignant Neoplasms                                  | COVID-19   | Diseases of Heart                                    | Malignant Neoplasms  |
| 3    | Malignant Neoplasms                                    | COVID-19   | Diseases of Heart                                      | Use of or Poisoning by Psychoactive Substance        | Use of or Poisoning by Psychoactive Substance                      |
| 4    | COVID-19   | Diseases of Heart                                    | Intentional Self-harm (Suicide)                        | COVID-19   | COVID-19   |
| 5    | Human Immunodeficiency Virus (HIV) Disease             | Accidents Except Poisoning by Psychoactive Substance | Use of or Poisoning by Psychoactive Substance          | Intentional Self-harm (Suicide)                      | Assault (Homicide)   |
| 6    | Diabetes Mellitus                                      | Chronic Liver Disease and Cirrhosis                  | Accidents Except Poisoning by Psychoactive Substance   | Accidents Except Poisoning by Psychoactive Substance | Diabetes Mellitus  |
| 7    | Accidents Except Poisoning by Psychoactive Substance** | Intentional Self-harm (Suicide)                      | Cerebrovascular Diseases                               | Chronic Liver Disease and Cirrhosis                  | Accidents Except Poisoning by Psychoactive Substance               |
| 8    | Chronic Lower Respiratory Diseases**                   | Assault (Homicide)                                   | Diabetes Mellitus                                      | Mental Disorders Due to Use of Alcohol               | Cerebrovascular Diseases   |
| 9    | Influenza and Pneumonia                                | Mental Disorders due to use of alcohol               | Chronic Liver Disease and Cirrhosis                    | Diabetes Mellitus                                    | Human Immunodeficiency Virus (HIV) Disease                         |
| 10   | Assault (Homicide)                                     | Cerebrovascular Diseases                             | Certain Conditions Originating in the Perinatal Period | Cerebrovascular Diseases                             | Chronic Lower Respiratory Diseases **<br>Influenza and Pneumonia** |

COVID-19 is the 4<sup>th</sup> leading cause of premature death for Puerto Ricans, non-Hispanic/Latino Whites, and non-Hispanic/Latino Blacks, the 3<sup>rd</sup> leading cause for Hispanics/Latinos not of Puerto Rican ancestry, and the 2<sup>nd</sup> leading cause for Asians and Pacific Islanders.

Certain conditions originating in the perinatal period are a leading cause of premature death among Asians and Pacific Islanders only (10<sup>th</sup>).

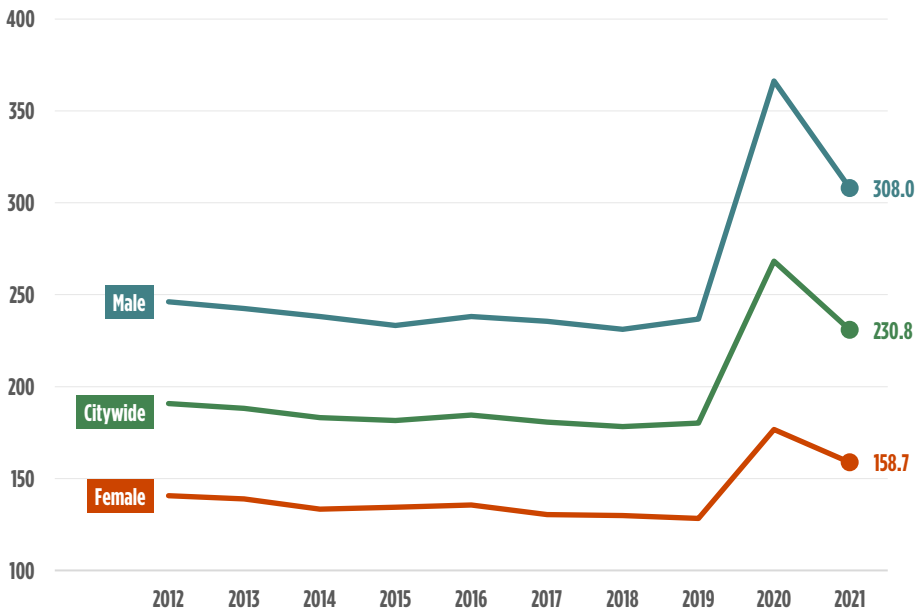
Intentional self-harm (suicide) is a leading cause of premature death among Hispanics/Latinos not of Puerto Rican ancestry (7<sup>th</sup>), Asians and Pacific Islanders (4<sup>th</sup>), and non-Hispanic/Latino Whites (5<sup>th</sup>). It is not ranked as a leading cause of premature death among Puerto Ricans and non-Hispanic/Latino Blacks.

Human immunodeficiency virus (HIV) disease is a leading cause of premature death among Puerto Ricans (5<sup>th</sup>) and non-Hispanic/Latino Blacks (9<sup>th</sup>).

\* Decedents of other or multiple races, or with unknown ethnicities are not shown.  
 † Counts and percentages for this table can be found in Table M10.  
 \*\* Tied ranks

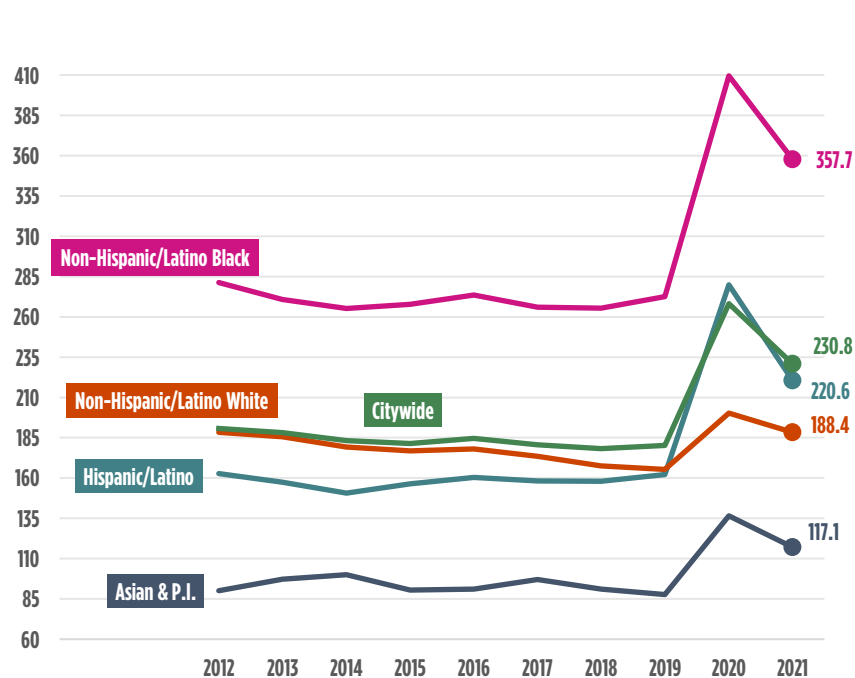
# PREMATURE DEATH

Figure 11. Age-Adjusted Premature Death (Age <65 Years) Rates, Overall and by Sex, New York City, 2012–2021  
 New York City's age-adjusted premature death rate (age <65 years) increased by 48.8% from 2019 to 2020. In contrast, the citywide age-adjusted premature death rate decreased by 13.9% from 2020 (268.2 per 100,000 population) to 2021 (230.8 per 100,000 population).



The age-adjusted premature death rate for females has been consistently lower than the rate for males.

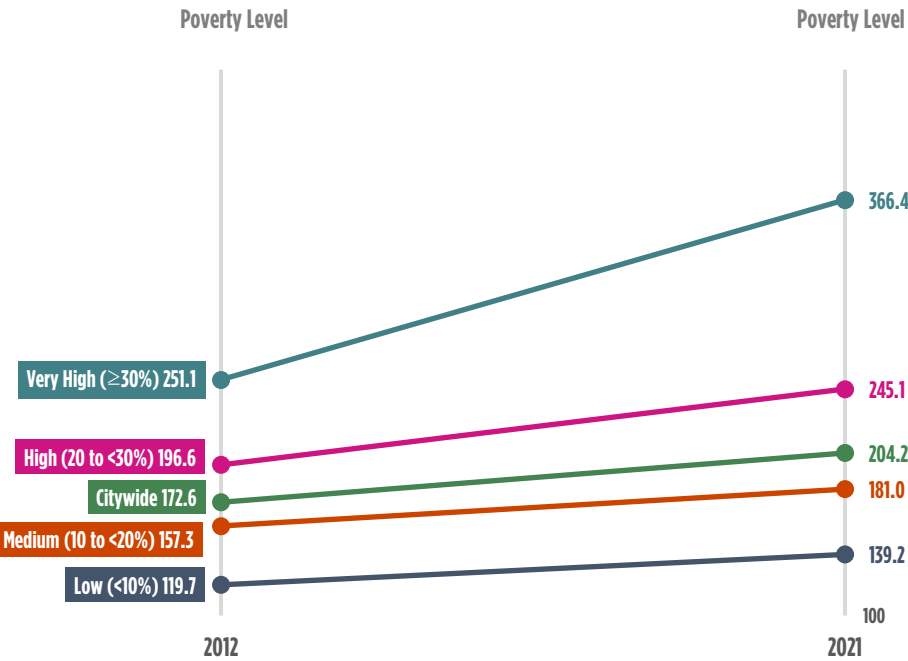
Figure 12. Age-Adjusted Premature Death (Age <65 Years) Rates by Racial/Ethnic Group, New York City, 2012–2021  
 From 2020 to 2021, the age-adjusted premature mortality rate decreased among Hispanics/Latinos by 21.2%, among non-Hispanic/Latino Blacks by 12.6%, among non-Hispanic/Latino Whites by 5.9%, and among Asians and Pacific Islanders by 14.2%.



Non-Hispanic/Latino Blacks had the highest age-adjusted premature death rate (89.9% higher than non-Hispanic/Latino Whites). Only non-Hispanic/Latino Blacks had a rate above the citywide average in 2021.

# PREMATURE DEATH

Figure 13. Age-Adjusted Premature Death (Age <65 Years) Rates by Neighborhood Poverty\*, New York City Residents, 2012 and 2021  
 Between 2012 and 2021, the age-adjusted premature mortality rate increased across all neighborhood poverty categories.



Over that time, the rate increased by 16.3% in low poverty neighborhoods, by 15.1% in medium poverty neighborhoods, by 24.7% in high poverty neighborhoods, and by 45.9% in very high poverty neighborhoods.

The gap between very high and low poverty neighborhoods remains pronounced. Very high poverty neighborhoods experienced an age-adjusted premature mortality rate that was 2.6 times that of low poverty neighborhoods in 2021, a slight increase in disparity from 2020 (2.5 in 2020).

\*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

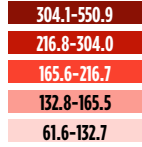
†The citywide estimate is restricted to NYC residents.

# PREMATURE DEATH

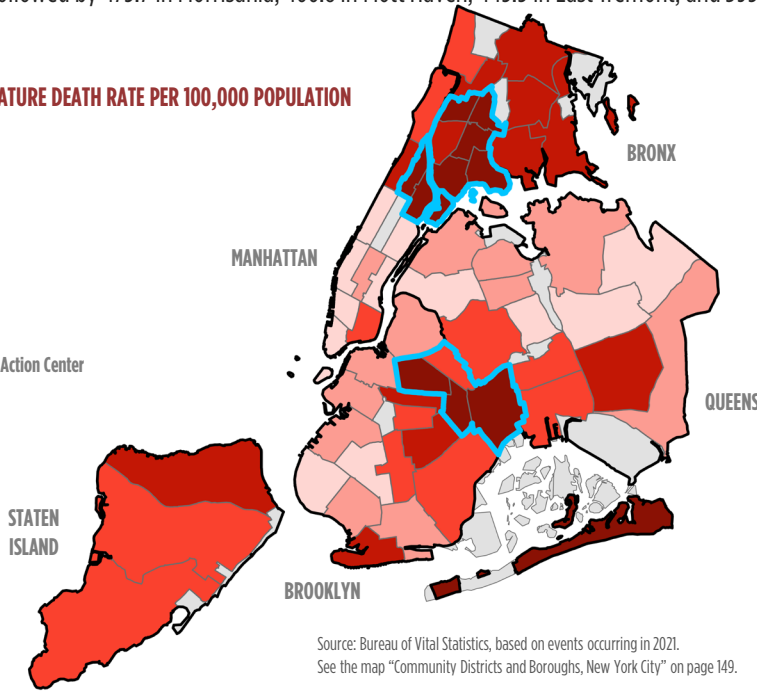
Figure 14. Age-Adjusted Premature Death (Age <65 Years) Rates by Community District of Residence, New York City, 2021

In 2021, New York City age-adjusted premature death rates were highest in Brownsville at 550.9 deaths per 100,000 population, followed by 475.7 in Morrisania, 466.8 in Mott Haven, 445.5 in East Tremont, and 395.7 in Hunts Point.

## AGE-ADJUSTED PREMATURE DEATH RATE PER 100,000 POPULATION



Citywide Average: 230.8



In 2021, age-adjusted premature death rates were lowest in Greenwich Village/SOHO at 61.6 deaths per 100,000 population, followed by 67.3 in Battery Park/Tribeca, 83.6 in the Upper East Side, 100.9 in Sunnyside/Woodside, and 106.5 in the Upper West Side.

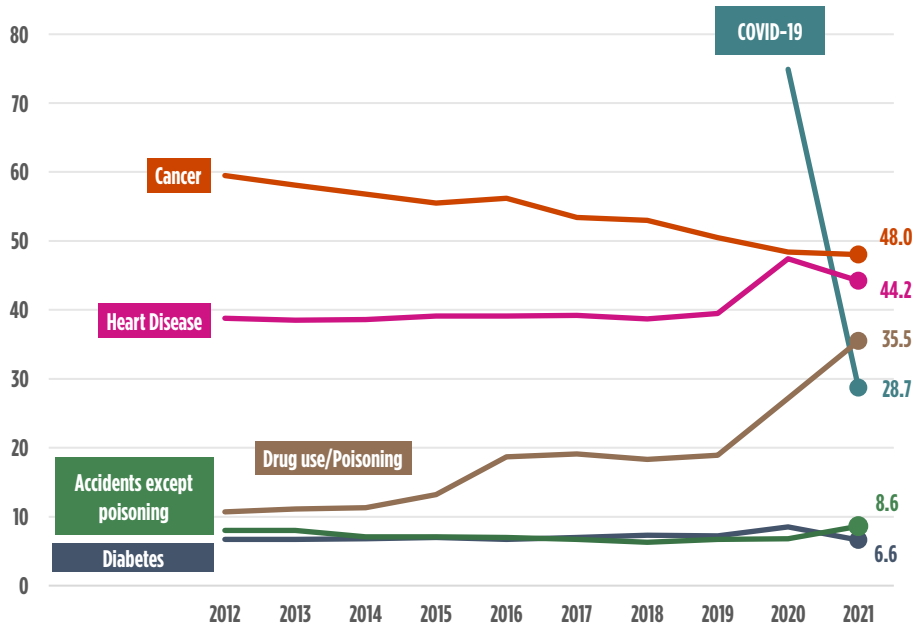
Source: Bureau of Vital Statistics, based on events occurring in 2021.  
See the map "Community Districts and Boroughs, New York City" on page 149.

| MANHATTAN                  |                       |       | BROOKLYN                      |                       |       |
|----------------------------|-----------------------|-------|-------------------------------|-----------------------|-------|
| CD                         | Premature Death Rates |       | CD                            | Premature Death Rates |       |
| East Harlem                | MN11                  | 392.0 | Brownsville                   | BK16                  | 550.9 |
| Central Harlem             | MN10                  | 355.6 | East New York                 | BK05                  | 343.6 |
| Manhattanville             | MN09                  | 228.2 | Bedford Stuyvesant            | BK03                  | 310.2 |
| Lower East Side            | MN03                  | 189.2 | East Flatbush                 | BK17                  | 262.0 |
| Washington Heights         | MN12                  | 187.7 | Coney Island                  | BK13                  | 248.2 |
| Midtown Business District  | MN05                  | 150.0 | Crown Heights North           | BK08                  | 246.2 |
| Chelsea, Clinton           | MN04                  | 132.7 | Crown Heights South           | BK09                  | 212.8 |
| Murray Hill                | MN06                  | 106.6 | Canarsie                      | BK18                  | 206.8 |
| Upper West Side            | MN07                  | 106.5 | Bushwick                      | BK04                  | 187.0 |
| Upper East Side            | MN08                  | 83.6  | Flatbush, Midwood             | BK14                  | 167.3 |
| Battery Park, Tribeca      | MN01                  | 67.3  | Williamsburg, Greenpoint      | BK01                  | 165.5 |
| Greenwich Village, SOHO    | MN02                  | 61.6  | Park Slope                    | BK06                  | 162.2 |
| BRONX                      |                       |       | QUEENS                        |                       |       |
| CD                         | Premature Death Rates |       | CD                            | Premature Death Rates |       |
| Morrisania                 | BX03                  | 475.7 | Sunset Park                   | BK07                  | 156.7 |
| Mott Haven                 | BX01                  | 466.8 | Fort Greene, Brooklyn Heights | BK02                  | 155.2 |
| East Tremont               | BX06                  | 445.5 | Sheepshead Bay                | BK15                  | 154.0 |
| Hunts Point                | BX02                  | 395.7 | Bensonhurst                   | BK11                  | 147.5 |
| University, Morris Heights | BX05                  | 356.9 | Bay Ridge                     | BK10                  | 132.0 |
| Concourse, Highbridge      | BX04                  | 304.0 | Borough Park                  | BK12                  | 122.2 |
| Fordham                    | BX07                  | 302.3 | QUEENS                        |                       |       |
| Williamsbridge             | BX12                  | 265.2 | The Rockaways                 | QN14                  | 334.3 |
| Pelham Parkway             | BX11                  | 264.3 | Jamaica, St. Albans           | QN12                  | 230.9 |
| Unionport, Soundview       | BX09                  | 260.5 | Howard Beach                  | QN10                  | 196.9 |
| Throgs Neck                | BX10                  | 245.6 | Ridgewood, Glendale           | QN05                  | 181.8 |
| Riverdale                  | BX08                  | 216.7 | Woodhaven                     | QN09                  | 172.7 |
| STATEN ISLAND              |                       |       | Astoria, Long Island City     | QN01                  | 165.4 |
| CD                         | Premature Death Rates |       | Queens Village                | QN13                  | 149.8 |
| Port Richmond              | SI01                  | 246.7 | Elmhurst, Corona              | QN04                  | 141.9 |
| Willowbrook, South Beach   | SI02                  | 197.1 | Jackson Heights               | QN03                  | 140.3 |
| Tottenville                | SI03                  | 195.6 | Flushing                      | QN07                  | 137.1 |
|                            |                       |       | Fresh Meadows, Briarwood      | QN08                  | 121.3 |
|                            |                       |       | Bayside                       | QN11                  | 114.6 |
|                            |                       |       | Rego Park, Forest Hills       | QN06                  | 109.3 |
|                            |                       |       | Sunnyside, Woodside           | QN02                  | 100.9 |

# PREMATURE DEATH

Figure 15. Leading Causes of Premature Death (Age <65 Years), New York City, 2012–2021

In 2021, **cancer** had the highest premature death rate at 48.0 deaths per 100,000 population, followed by **heart disease** at 44.2. Over the past ten years, the premature death rate for **cancer** declined by 19.3%, and the rate for **heart disease** increased by 13.9%.



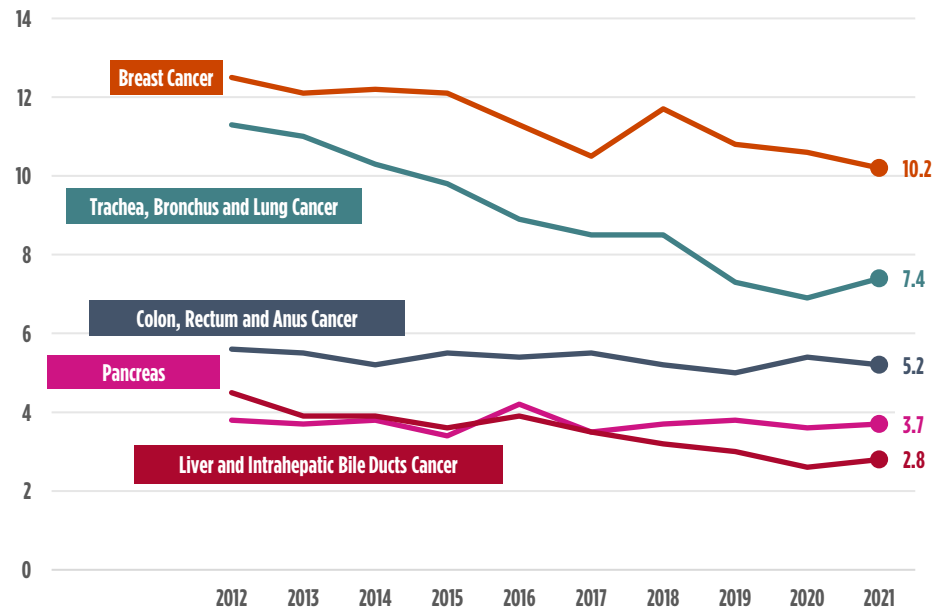
Use of or poisoning by psychoactive substance, **COVID-19**, **accidents except poisoning**, and **diabetes** accounted for the 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> leading causes of premature death, respectively, in 2021.

The rate of premature drug-related deaths (use of or poisoning by psychoactive substance) increased by 30.5% from 2020 to 2021 and increased by 231.8% since 2012.

The rate of **COVID-19** deaths decreased by 61.7% since 2020.

Figure 16. Leading Causes of Premature Cancer Deaths (Age <65 Years), New York City, 2012–2021

**Breast** (female) and **lung cancer** death rates were the highest in New York City, at 10.2 and 7.4 deaths per 100,000 population, respectively.

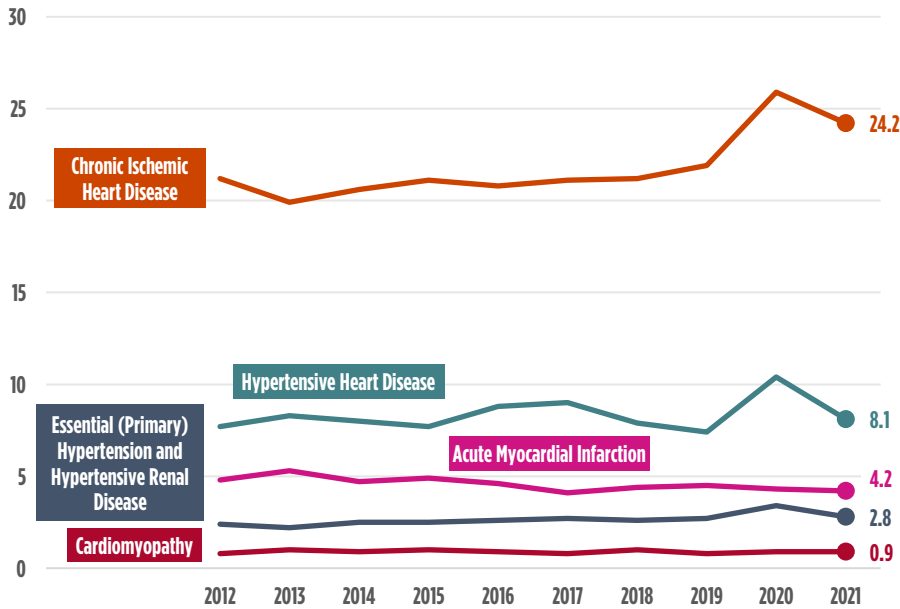


**Breast** (female) cancer and **lung cancer** death rates declined by 18.4% and 34.5%, respectively, since 2012. The **breast** (female) cancer rate declined by 3.8% from 2020 to 2021, and the **lung cancer** rate declined by 7.2% from 2020 to 2021.

**Colon**, **pancreas**, and **liver** cancers account for the 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> highest rates of cancer deaths, at 5.2, 3.7, and 2.8 deaths per 100,000 population, respectively. Death rates for these cancers all have declined since 2012.

# PREMATURE DEATH

Figure 17. Leading Causes of Premature Heart Disease Deaths (Age <65 Years), New York City, 2012–2021  
 The crude rate of the leading cause of premature heart disease deaths, **chronic ischemic heart disease**, has increased by 14.2% since 2012.

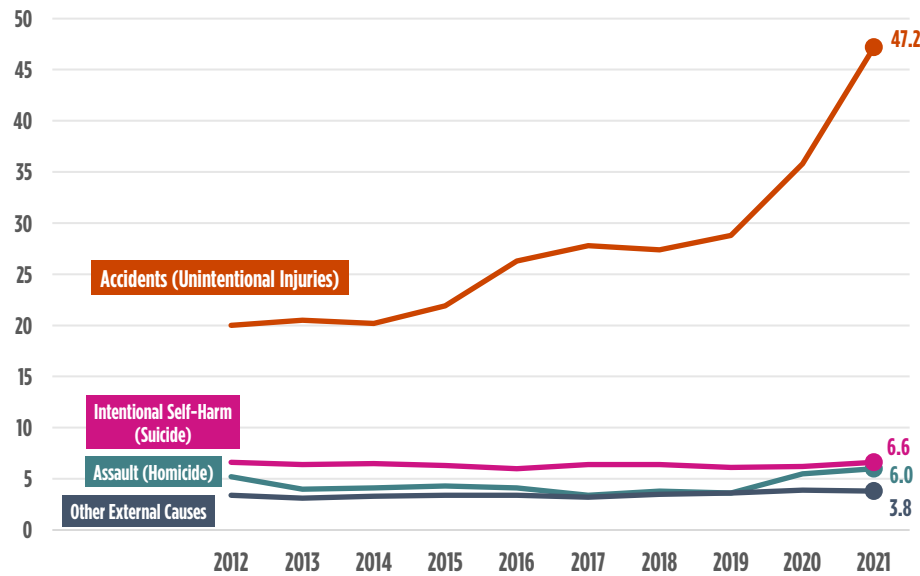


Since 2012, **hypertensive heart disease** increased by 5.2%, **essential hypertension and hypertensive renal disease** increased by 16.7%, **acute myocardial infarction** decreased by 12.5%, and **cardiomyopathy** increased by 12.5%.

# EXTERNAL CAUSES OF DEATH

Figure 18. Crude Death Rates for External Causes of Death\*, New York City, 2012–2021

Deaths due to **accidents** continued to account for the largest share of deaths due to external causes.



In 2021, the **accident** death rate increased by 136.0% from ten years ago (47.2 per 100,000 population in 2021 vs. 20.0 per 100,000 population in 2012), primarily due to the increase of drug-related deaths.

The rate of deaths due to **assault (homicide)** increased over the past ten years by 15.4%.

The **suicide** rate was 6.6 per 100,000 population in 2021, the same as in 2012.

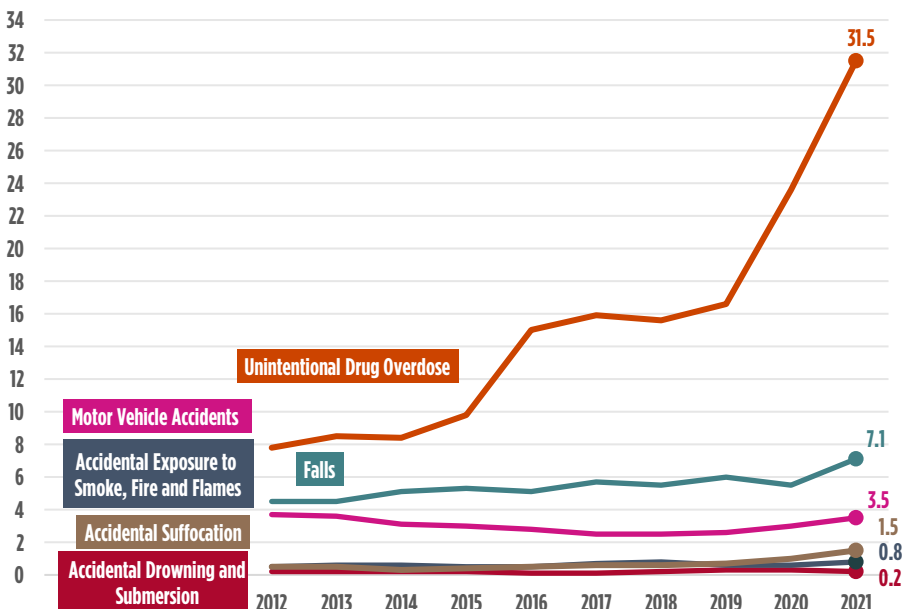
The death rate due to all other external causes combined was higher in 2021 (3.8 per 100,000 population) compared to ten years ago (3.4 per 100,000 population)†.

\* Appendix B. Technical Notes: Deaths, Cause of Death International Classification of Disease (ICD) Coding.

† Other external causes include medical and/or surgical care complications and deaths due to undetermined intent.

Figure 19. Crude Death Rates for Selected Accidental Causes of Death, New York City, 2012–2021

The **unintentional drug overdose**\* rate increased by 33.5% from 2020 (23.6 per 100,000 population in 2020 vs. 31.5 per 100,000 population in 2021) and by 303.8% from 2012 (7.8 per 100,000 population in 2012).



**Unintentional drug overdose** exceeds all other causes, with a crude rate in 2021 that was 9.0 times that of **motor vehicle accidents**, and 4.4 times that of **fall-related** deaths.

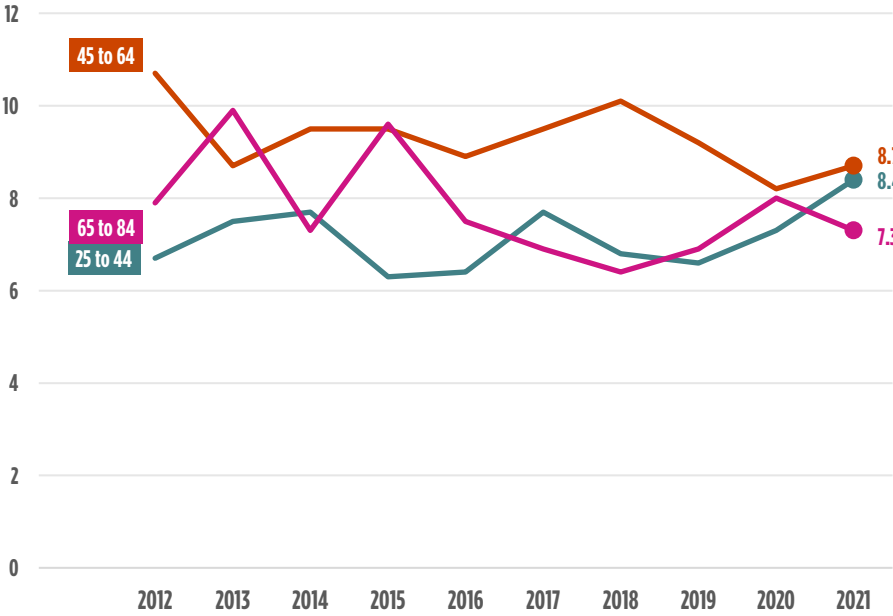
The crude death rate due to **motor vehicle accidents** declined over the past ten years, from 3.7 deaths per 100,000 population in 2012, to 3.5 per 100,000 population in 2021, a decrease of 5.4%, but increased by 16.7% from 2020 to 2021. The **falls-related** crude death rate has increased by 57.8% since 2012 (7.1 per 100,000 population in 2021 vs. 4.5 per 100,000 population in 2012).

The death rate due to **accidental suffocation** increased over the past ten years by 200.0% and the death rate due to **accidental exposure to smoke, fire, and flames** increased by 60.0%. The death rate due to **accidental drowning and submersion** in 2021 was the same as it was in 2012.

\* Appendix B. Technical Notes: Drug-Related Deaths.

# EXTERNAL CAUSES OF DEATH

Figure 20. Age-Specific Suicide Death Rates, New York City, 2012–2021  
Death rates due to suicide were highest among the age group 45 to 64, at 8.7 deaths per 100,000 population in 2021.



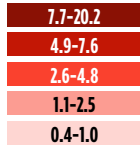
The rate of suicide deaths among adults aged 65-84 was 7.3 per 100,000 population in 2021, 7.6% lower than the rate in 2012. Compared to 2012, rates increased by 25.4% among the age group 25-44, and decreased by 18.7% among the age group 45-64.



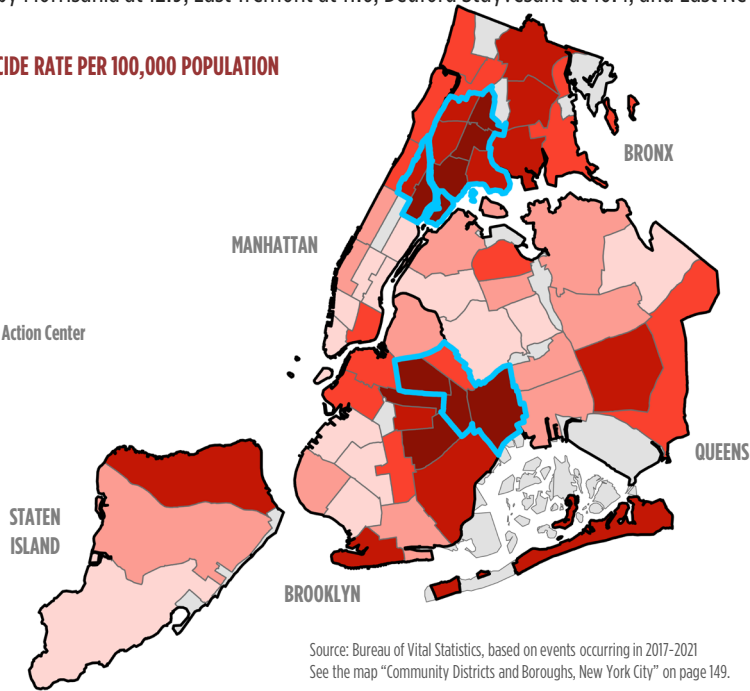
# EXTERNAL CAUSES OF DEATH

Figure 21. Age-Adjusted Homicide Death Rates (Five-Year Averages) by Community District of Residence, New York City, 2017-2021  
 The five-year average age-adjusted homicide rate was highest in Brownsville with 20.2 deaths per 100,000 population, followed by Morrisania at 12.9, East Tremont at 11.6, Bedford Stuyvesant at 10.4, and East New York at 10.3.

## AGE-ADJUSTED HOMICIDE RATE PER 100,000 POPULATION



Citywide Average: 4.5



Source: Bureau of Vital Statistics, based on events occurring in 2017-2021  
 See the map "Community Districts and Boroughs, New York City" on page 149.

In nine community districts, five-year average rates were less than 1.0 per 100,000 population: Battery Park/Tribeca, Greenwich Village/SOHO, Midtown Business District, Murray Hill, Upper East Side, Borough Park, Ridgewood/Glendale, Sunset Park, and Bayside.

This figure uses five years of data due to the small number of homicide deaths in each community district per year.

| MANHATTAN                 |                      |     |
|---------------------------|----------------------|-----|
| CD                        | Homicide Death Rates |     |
| East Harlem               | MN11                 | 8.4 |
| Central Harlem            | MN10                 | 7.6 |
| Manhattanville            | MN09                 | 4.2 |
| Washington Heights        | MN12                 | 2.9 |
| Lower East Side           | MN03                 | 2.6 |
| Upper West Side           | MN07                 | 1.7 |
| Chelsea, Clinton          | MN04                 | 1.5 |
| Greenwich Village, SOHO   | MN02                 | 0.8 |
| Midtown Business District | MN05                 | 0.6 |
| Upper East Side           | MN08                 | 0.6 |
| Murray Hill               | MN06                 | 0.5 |
| Battery Park, Tribeca     | MN01                 | 0.4 |

| BRONX                      |                      |      |
|----------------------------|----------------------|------|
| CD                         | Homicide Death Rates |      |
| Morrisania                 | BX03                 | 12.9 |
| East Tremont               | BX06                 | 11.6 |
| Mott Haven                 | BX01                 | 9.7  |
| University, Morris Heights | BX05                 | 7.6  |
| Hunts Point                | BX02                 | 7.5  |
| Williamsbridge             | BX12                 | 6.8  |
| Unionport, Soundview       | BX09                 | 6.7  |
| Concourse, Highbridge      | BX04                 | 6.6  |
| Pelham Parkway             | BX11                 | 5.8  |
| Fordham                    | BX07                 | 4.6  |
| Throgs Neck                | BX10                 | 2.7  |
| Riverdale                  | BX08                 | 2.6  |

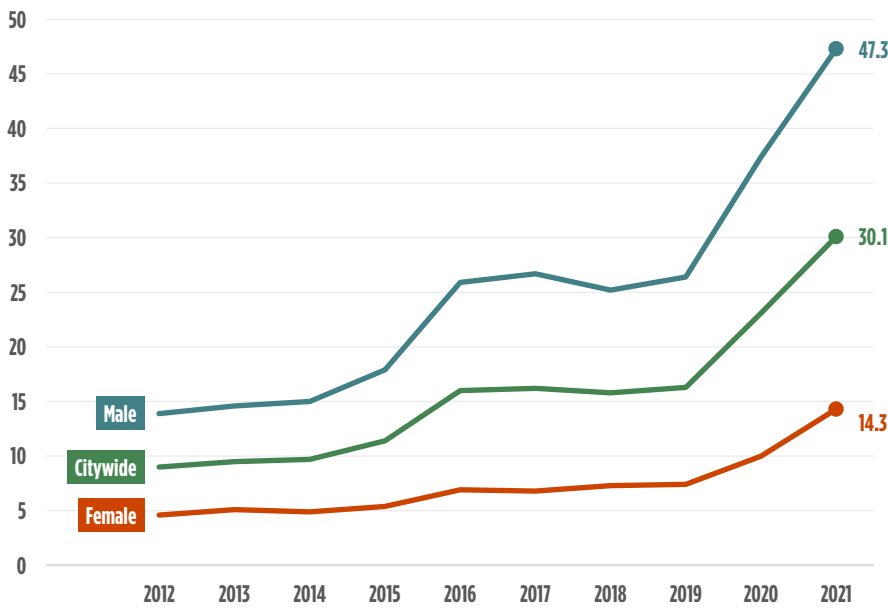
| STATEN ISLAND            |                      |     |
|--------------------------|----------------------|-----|
| CD                       | Homicide Death Rates |     |
| Port Richmond            | SI01                 | 5.5 |
| Willowbrook, South Beach | SI02                 | 2.4 |
| Tottenville              | SI03                 | 1.0 |

| BROOKLYN                      |                      |      |
|-------------------------------|----------------------|------|
| CD                            | Homicide Death Rates |      |
| Brownsville                   | BK16                 | 20.2 |
| Bedford Stuyvesant            | BK03                 | 10.4 |
| East New York                 | BK05                 | 10.3 |
| Crown Heights North           | BK08                 | 8.4  |
| East Flatbush                 | BK17                 | 7.9  |
| Crown Heights South           | BK09                 | 5.4  |
| Coney Island                  | BK13                 | 5.0  |
| Canarsie                      | BK18                 | 5.0  |
| Bushwick                      | BK04                 | 4.8  |
| Park Slope                    | BK06                 | 3.4  |
| Flatbush, Midwood             | BK14                 | 3.3  |
| Fort Greene, Brooklyn Heights | BK02                 | 3.1  |
| Williamsburg, Greenpoint      | BK01                 | 2.1  |
| Sheepshead Bay                | BK15                 | 1.8  |
| Bay Ridge                     | BK10                 | 1.2  |
| Bensonhurst                   | BK11                 | 1.0  |
| Sunset Park                   | BK07                 | 0.9  |
| Borough Park                  | BK12                 | 0.6  |

| QUEENS                    |                      |     |
|---------------------------|----------------------|-----|
| CD                        | Homicide Death Rates |     |
| The Rockaways             | QN14                 | 7.6 |
| Jamaica, St. Albans       | QN12                 | 6.7 |
| Queens Village            | QN13                 | 4.5 |
| Jackson Heights           | QN03                 | 3.1 |
| Howard Beach              | QN10                 | 2.5 |
| Astoria, Long Island City | QN01                 | 2.4 |
| Woodhaven                 | QN09                 | 2.3 |
| Fresh Meadows, Briarwood  | QN08                 | 2.2 |
| Elmhurst, Corona          | QN04                 | 1.5 |
| Flushing                  | QN07                 | 1.3 |
| Sunnyside, Woodside       | QN02                 | 1.0 |
| Rego Park, Forest Hills   | QN06                 | 1.0 |
| Ridgewood, Glendale       | QN05                 | 0.8 |
| Bayside                   | QN11                 | 0.6 |

Figure S1. Age-Adjusted Drug-related Death Rates, Overall and by Sex, New York City, 2012-2021



This special section focuses on **drug-related** (use of or poisoning by psychoactive substance) deaths, which include deaths due to chronic substance use and drug overdose. All manners of death are included in drug-related deaths. The National Center for Health Statistics uses this definition for categorizing the leading causes of death.

Unintentional drug overdose deaths accounted for 97.2% of drug-related deaths in 2021.

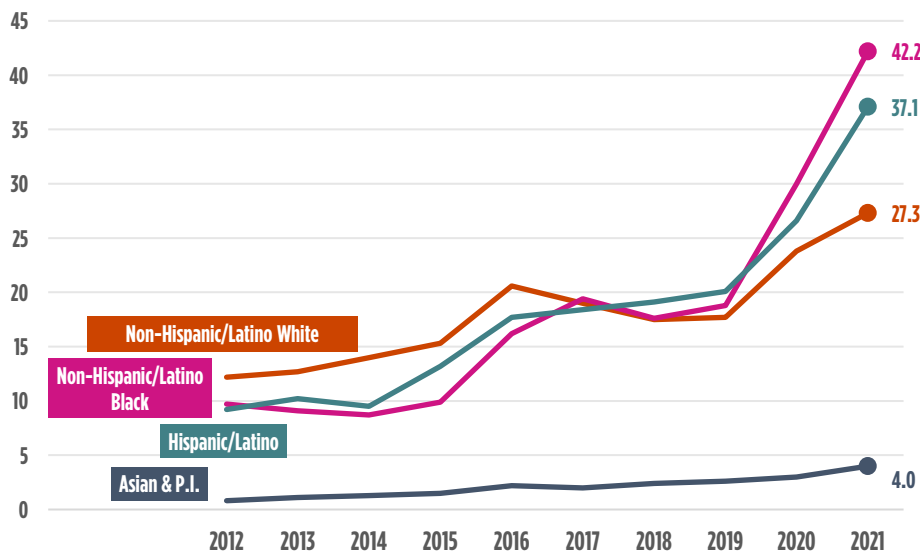
The age-adjusted drug-related death rate was 30.1 per 100,000 population in 2021, a 30.3% increase since 2020, and a 234.4% increase since 2012.

The age-adjusted drug-related death rate for **males** increased to 47.3 per 100,000 population in 2021, a 26.5% increase since 2020, and a 240.3% increase since 2012. The age-adjusted drug-related death rate for **females** increased to 14.3 per 100,000 population in 2021, a 43.0% increase since 2020 and a 210.9% increase since 2012.

# DRUG-RELATED MORTALITY

Figure S2. Age-Adjusted Drug-related Death Rates by Racial/Ethnic Group, New York City, 2012-2021

Between 2012 and 2021, age-adjusted drug-related death rates increased by 335.1% among **non-Hispanic/Latino Blacks**, by 303.3% among **Hispanics/Latinos**, by 123.8% among **non-Hispanic/Latino Whites**, and by 400.0% among Asians and Pacific Islanders.

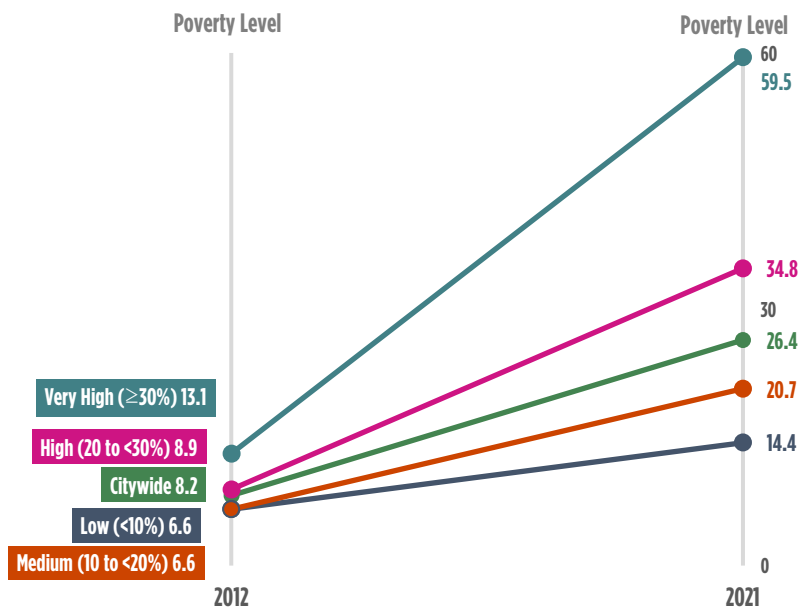


The drug-related death rate increased for all racial/ethnic groups from 2020 to 2021.

In 2021, the drug-related death rate among **non-Hispanic/Latino Blacks** was 1.5 times the rate for **non-Hispanic/Latino Whites**, a change from 2020, in which the death rate for **non-Hispanic/Latino Blacks** was 1.3 times the rate for **non-Hispanic/Latino Whites**.

Figure S3. Age-Adjusted Drug-related Death Rates by Neighborhood Poverty\*\*, New York City, 2012 and 2021

Since 2012, age-adjusted drug-related death rates increased across all categories of neighborhood poverty. Over that period, the rate increased by 354.2% in **very high poverty** areas, by 291.0% in **high poverty** areas, by 213.6% in **medium poverty** areas, and by 118.2% in low poverty areas.



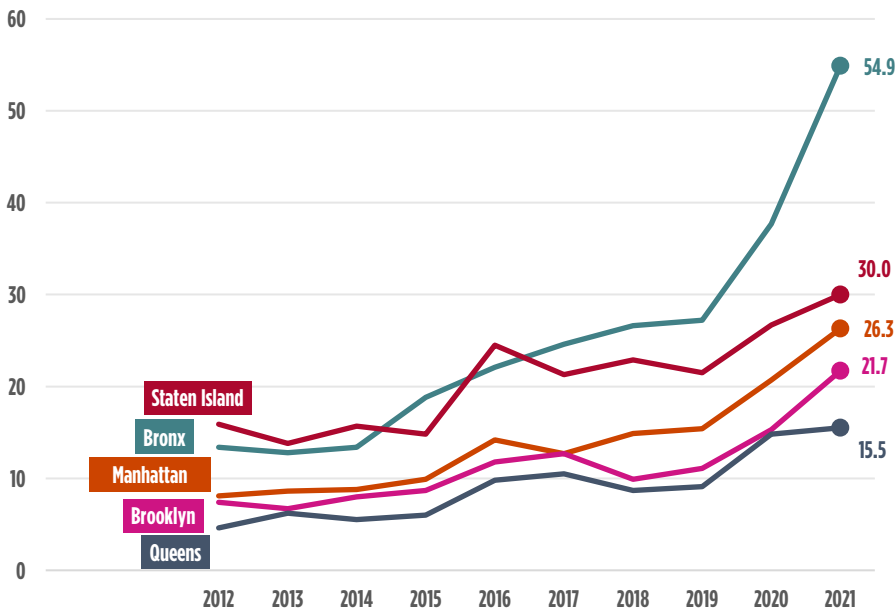
The age-adjusted drug-related death rate in areas with **very high poverty** was 4.1 times the rate in areas with low poverty in 2021. In 2012, the rate in areas with **very high poverty** was 2.0 times the rate of areas with low poverty.

\*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

†The citywide estimate is restricted to NYC residents.

# DRUG-RELATED MORTALITY

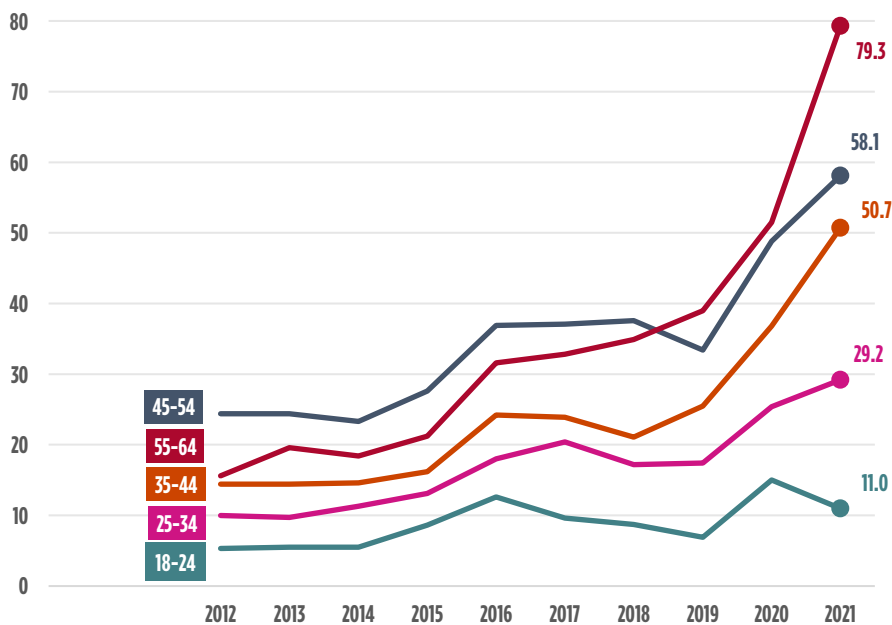
Figure S4. Age-Adjusted Drug-related Death Rates by Borough of Residence, New York City, 2012-2021  
 Since 2012, age-adjusted drug-related death rates have increased across all boroughs.



Over that period, age-adjusted drug-related death rates increased by 224.7% in **Manhattan**, by 309.7% in the **Bronx**, by 193.2% in **Brooklyn**, by 237.0% in **Queens**, and by 88.7% in **Staten Island**.

From 2012 to 2021, the **Bronx** and **Staten Island** have consistently had higher age-adjusted drug-related death rates, compared to the other three boroughs.

Figure S5. Age-Specific Drug-related Death Rates, Ages 18-64, New York City, 2012-2021  
 Between 2012 and 2021, age-specific drug-related death rates increased for all age groups.



Over that period, age-specific drug-related death rates increased by 107.5% for **18-24 year-olds**, by 192.0% for **25-34 year-olds**, by 252.1% for **35-44 year-olds**, by 138.1% for **45-54 year-olds**, and by 408.3% for **55-64 year-olds**.

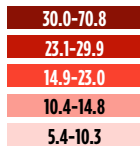
The drug-related death rate for **55-64 year-olds** was higher than all other age groups.

91.8% of drug-related deaths were premature (<65 year olds) in 2021.

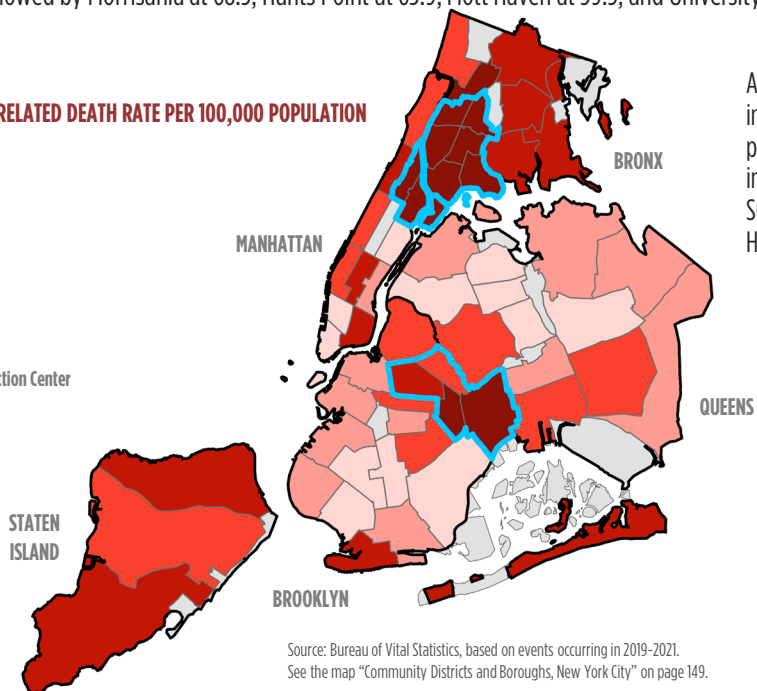
# DRUG-RELATED MORTALITY

Figure S6. Age-Adjusted Drug-related Death Rates (Three-Year Averages) by Community District of Residence, New York City, 2019-2021  
 The three-year average age-adjusted drug-related death rate was highest in East Tremont with 70.8 deaths per 100,000 population, followed by Morrisania at 68.5, Hunts Point at 63.9, Mott Haven at 59.5, and University/Morris Heights at 52.9.

## AGE-ADJUSTED DRUG-RELATED DEATH RATE PER 100,000 POPULATION



Citywide Average: 20.2



Age-adjusted drug-related death rates were lowest in Borough Park at 5.4 deaths per 100,000 population, followed by 6.0 in Elmhurst/Corona, 6.6 in Greenwich Village/SOHO, 7.2 in Sunnyside/Woodside, and 8.0 in Rego Park/Forest Hills.

Source: Bureau of Vital Statistics, based on events occurring in 2019-2021. See the map "Community Districts and Boroughs, New York City" on page 149.

| MANHATTAN                 | CD   | Drug-Related Death Rate |
|---------------------------|------|-------------------------|
| Central Harlem            | MN10 | 43.7                    |
| East Harlem               | MN11 | 41.1                    |
| Manhattanville            | MN09 | 28.8                    |
| Lower East Side           | MN03 | 28.2                    |
| Midtown Business District | MN05 | 27.3                    |
| Washington Heights        | MN12 | 23.0                    |
| Chelsea, Clinton          | MN04 | 18.9                    |
| Upper West Side           | MN07 | 15.0                    |
| Murray Hill               | MN06 | 11.8                    |
| Battery Park, Tribeca     | MN01 | 8.2                     |
| Upper East Side           | MN08 | 8.2                     |
| Greenwich Village, SOHO   | MN02 | 6.6                     |

| BRONX                      | CD   | Drug-Related Death Rate |
|----------------------------|------|-------------------------|
| East Tremont               | BX06 | 70.8                    |
| Morrisania                 | BX03 | 68.5                    |
| Hunts Point                | BX02 | 63.9                    |
| Mott Haven                 | BX01 | 59.5                    |
| University, Morris Heights | BX05 | 52.9                    |
| Concourse, Highbridge      | BX04 | 43.3                    |
| Fordham                    | BX07 | 41.6                    |
| Unionport, Soundview       | BX09 | 27.1                    |
| Throgs Neck                | BX10 | 26.7                    |
| Williamsbridge             | BX12 | 25.4                    |
| Pelham Parkway             | BX11 | 24.3                    |
| Riverdale                  | BX08 | 19.8                    |

| STATEN ISLAND            | CD   | Drug-Related Death Rate |
|--------------------------|------|-------------------------|
| Port Richmond            | SI01 | 28.5                    |
| Tottenville              | SI03 | 27.4                    |
| Willowbrook, South Beach | SI02 | 22.0                    |

| BROOKLYN                      | CD   | Drug-Related Death Rate |
|-------------------------------|------|-------------------------|
| Brownsville                   | BK16 | 41.2                    |
| East New York                 | BK05 | 31.7                    |
| Coney Island                  | BK13 | 27.0                    |
| Bedford Stuyvesant            | BK03 | 24.1                    |
| Crown Heights North           | BK08 | 20.0                    |
| Williamsburg, Greenpoint      | BK01 | 19.8                    |
| Bushwick                      | BK04 | 16.7                    |
| East Flatbush                 | BK17 | 16.2                    |
| Park Slope                    | BK06 | 14.8                    |
| Crown Heights South           | BK09 | 14.8                    |
| Fort Greene, Brooklyn Heights | BK02 | 14.6                    |
| Bay Ridge                     | BK10 | 13.2                    |
| Sheepshead Bay                | BK15 | 13.0                    |
| Sunset Park                   | BK07 | 11.8                    |
| Canarsie                      | BK18 | 10.3                    |
| Bensonhurst                   | BK11 | 10.0                    |
| Flatbush, Midwood             | BK14 | 10.0                    |
| Borough Park                  | BK12 | 5.4                     |

| QUEENS                    | CD   | Drug-Related Death Rate |
|---------------------------|------|-------------------------|
| The Rockaways             | QN14 | 29.9                    |
| Jamaica, St. Albans       | QN12 | 18.3                    |
| Ridgewood, Glendale       | QN05 | 17.8                    |
| Howard Beach              | QN10 | 17.7                    |
| Astoria, Long Island City | QN01 | 14.6                    |
| Woodhaven                 | QN09 | 14.6                    |
| Flushing                  | QN07 | 13.0                    |
| Bayside                   | QN11 | 11.1                    |
| Queens Village            | QN13 | 11.0                    |
| Fresh Meadows, Briarwood  | QN08 | 9.8                     |
| Jackson Heights           | QN03 | 9.6                     |
| Rego Park, Forest Hills   | QN06 | 8.0                     |
| Sunnyside, Woodside       | QN02 | 7.2                     |
| Elmhurst, Corona          | QN04 | 6.0                     |

# SPECIAL SECTION: COVID-19 MORTALITY

## Introduction

In March 2020, New York City became the epicenter of the COVID-19 pandemic, and deaths due to COVID-19 continued into 2021. In 2021, COVID-19 deaths varied widely by demographics and geographics: age-adjusted COVID-19 death rates were higher among Hispanics/Latinos and non-Hispanic/Latino Blacks, and COVID-19 death rates were highest in very high poverty neighborhoods. New York City life expectancy also dropped substantially from recent pre-pandemic years.

In this Special Section, we summarize some of the data on mortality in New York City caused by COVID-19. COVID-19 mortality is presented by demographic characteristics of decedents, small geographic area of residence i.e., community district, socio-economic strata i.e., neighborhood poverty, place of death, occupation, and industry. The impact of COVID-19 deaths on life expectancy at birth is also presented.

At the end of this report is an important note concerning the measures taken by the Bureau of Vital Statistics to ensure that COVID-19 deaths were properly classified during a time of great fluidity, uncertainty, and quickly-evolving understanding about the nature of this novel condition. This report is solely based on the ICD-10 classification code, U07.1, assigned to COVID-19. However, real time surveillance data and PCR testing efforts complemented death certificate data in order to obtain a better assessment of the mortality impact of the epidemic.

# COVID-19 MORTALITY

Figure C1. Daily COVID-19 Deaths, New York City, 2021

There were 8,229 COVID-19 deaths in 2021. In 2021, COVID-19 death counts peaked from January to February in New York City, with February 11 having the highest death count at 87 deaths. Death counts rose again from August to December 2021.

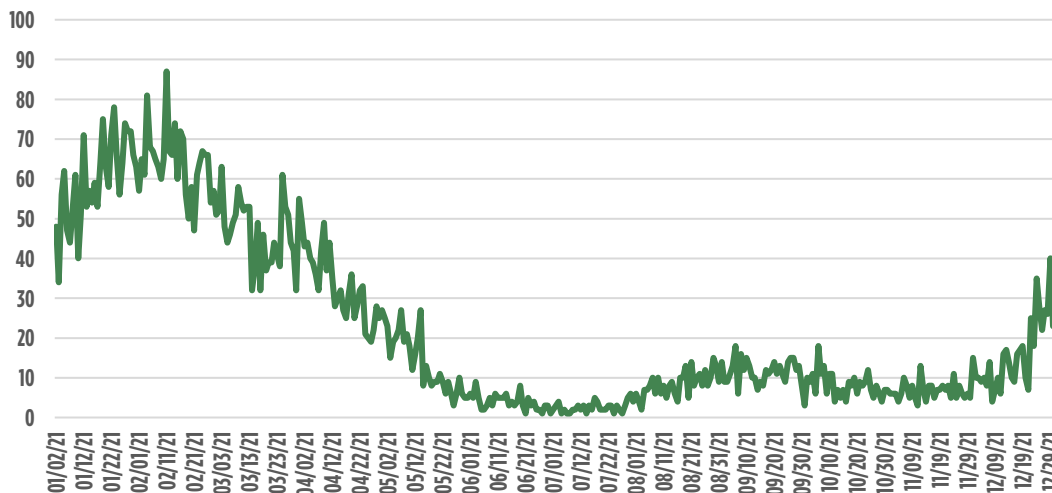
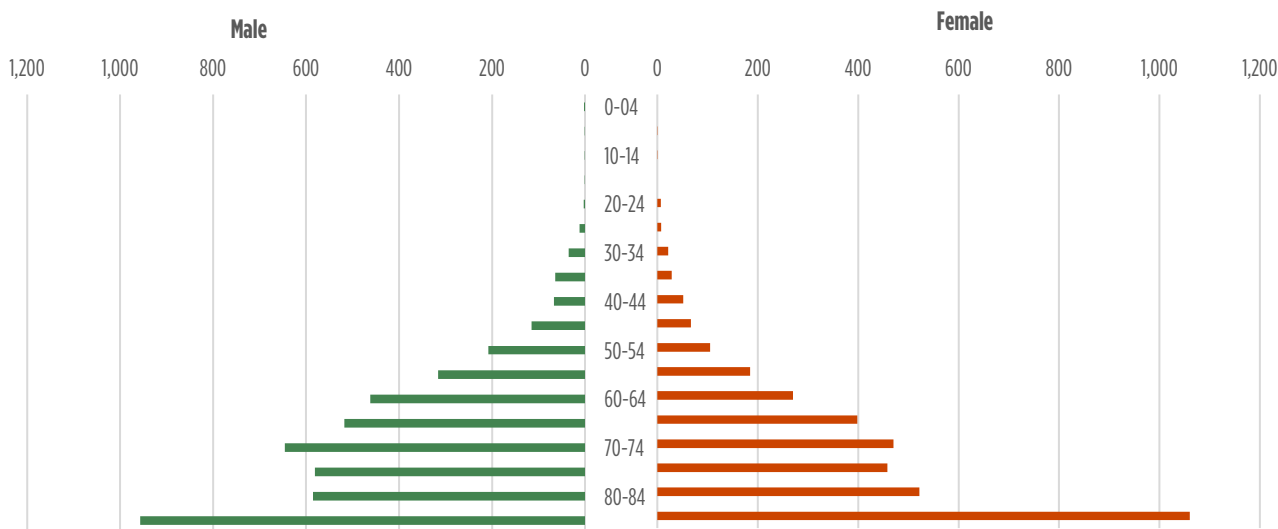


Figure C2. Age Pyramid, COVID-19 Deaths, New York City, 2021

COVID-19 deaths were higher among males than females except for the following age groups: 5-9 years of age, 10-14 years of age, 20-24 years of age, and ages 85 and over.



# COVID-19 MORTALITY

Figure C3. Crude COVID-19 Death Rate by Age and Sex, New York City, 2021

The crude COVID-19 death rate increased as age increased. Rates among males exceeded rates among females in each age group except the 0-24 age group. Rates are per 100,000 population.

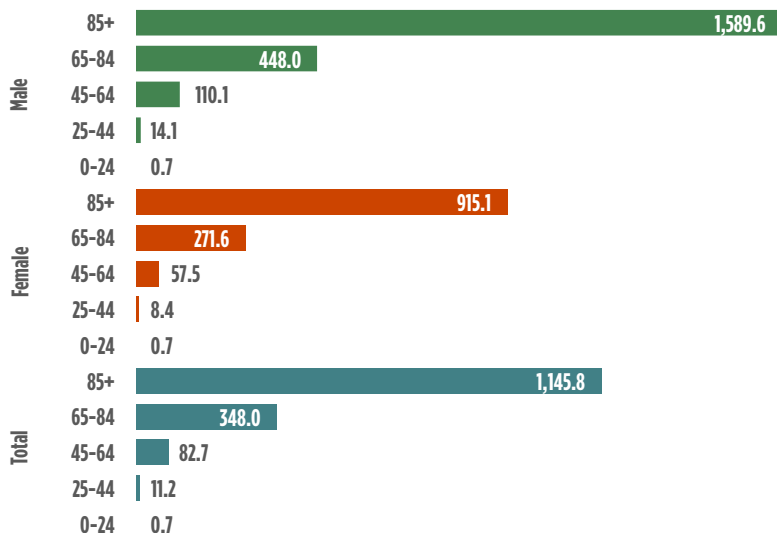
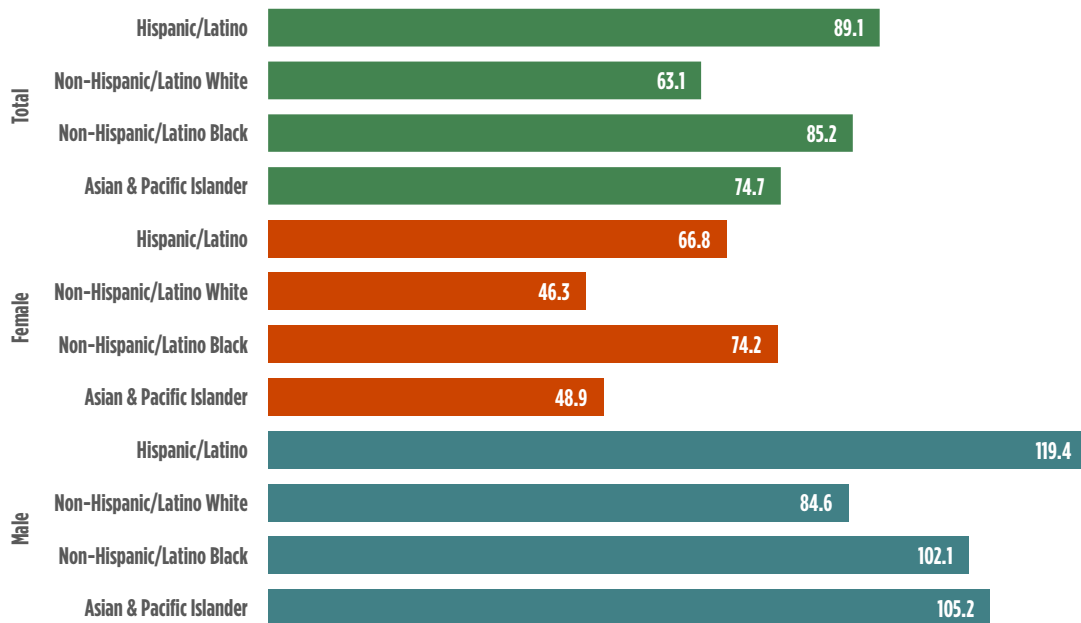


Figure C4. Age-adjusted COVID-19 Death Rate by Race/Ethnicity, New York City, 2021

The age-adjusted COVID-19 death rate was highest among Hispanic/Latino males at 119.4 deaths per 100,000 population, followed by Asian & Pacific Islander males at 105.2. Age-adjusted COVID-19 death rates were lowest among non-Hispanic/Latino White females at 46.3 deaths per 100,000 population, followed by Asian & Pacific Islander females at 48.9.





# COVID-19 MORTALITY

Figure C5. COVID-19 Deaths by Birthplace and Sex, New York City, 2021  
 Nearly half of COVID-19 decedents were born in the United States. The second most common birthplace among decedents was China overall and for males, and the Dominican Republic (D. R.) for females.

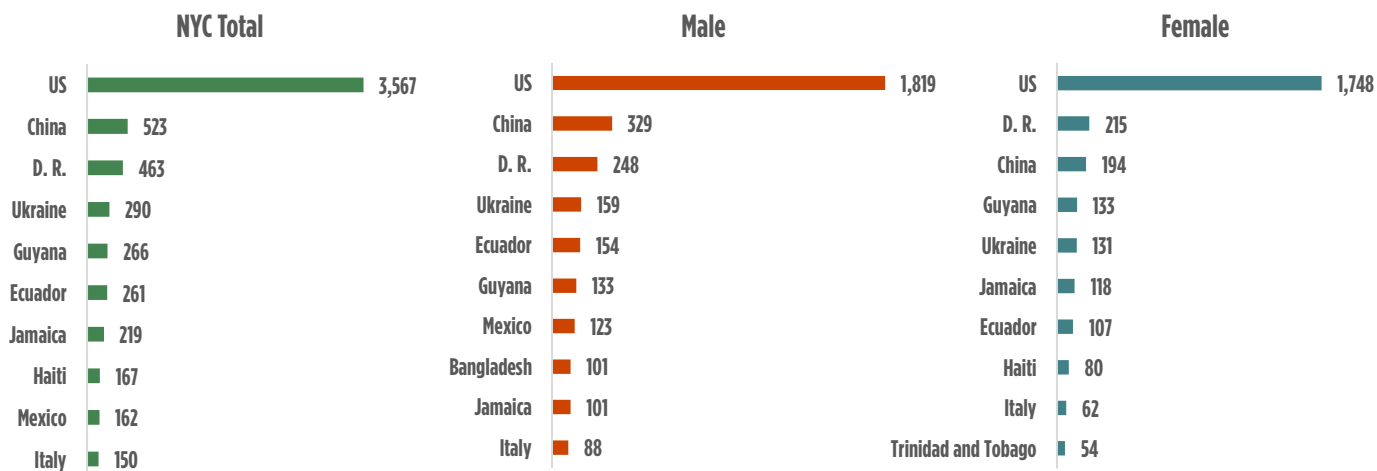


Figure C6. Age-adjusted COVID-19 Death Rate by Neighborhood Poverty, New York City, 2021  
 COVID-19 mortality was highest in very high poverty neighborhoods, at 110.0 deaths per 100,000 population, and lowest in low poverty neighborhoods, at 53.9 deaths per 100,000 population.

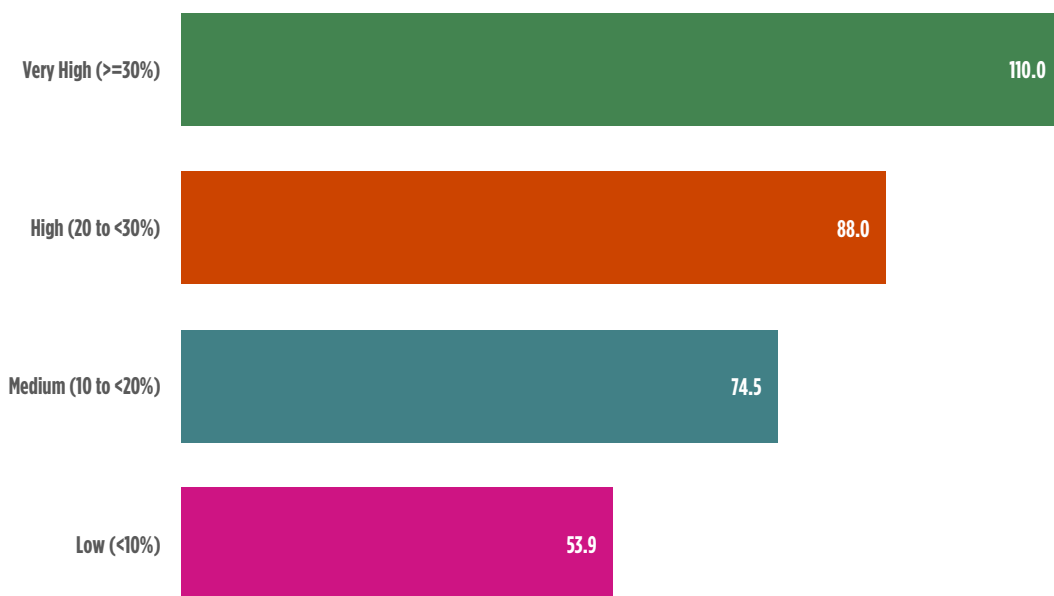


Figure C7. Age-adjusted COVID-19 Death Rate by Borough of Residence and Sex, New York City, 2021

Males in the Bronx had the highest age-adjusted COVID-19 death rate compared to other groups (by borough and sex), at 121.0 deaths per 100,000 population. Rates among males exceeded the rates among females in each borough.

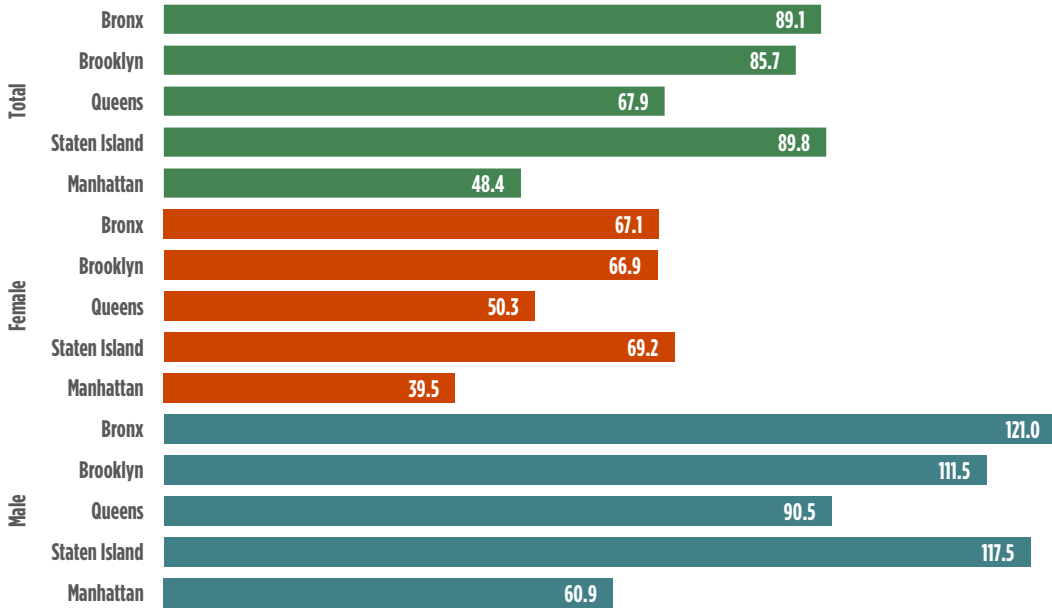
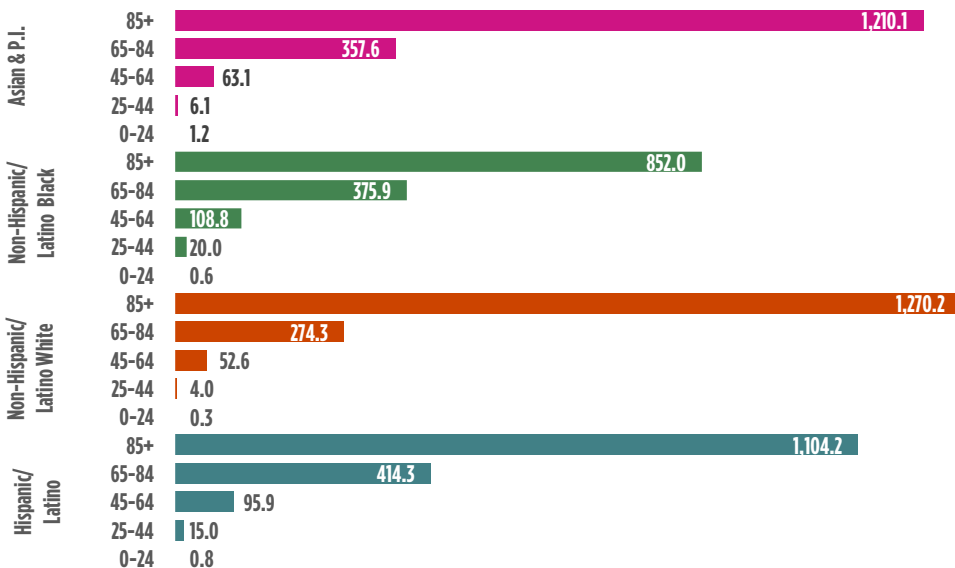


Figure C8. Crude COVID-19 Death Rate by Race/Ethnicity and Age, New York City, 2021

COVID-19 death rates were highest in the 85+ age group for each racial/ethnic group. Non-Hispanic/Latino Whites in the 85+ age group had the highest death rate at 1,270.2 deaths per 100,000 population.

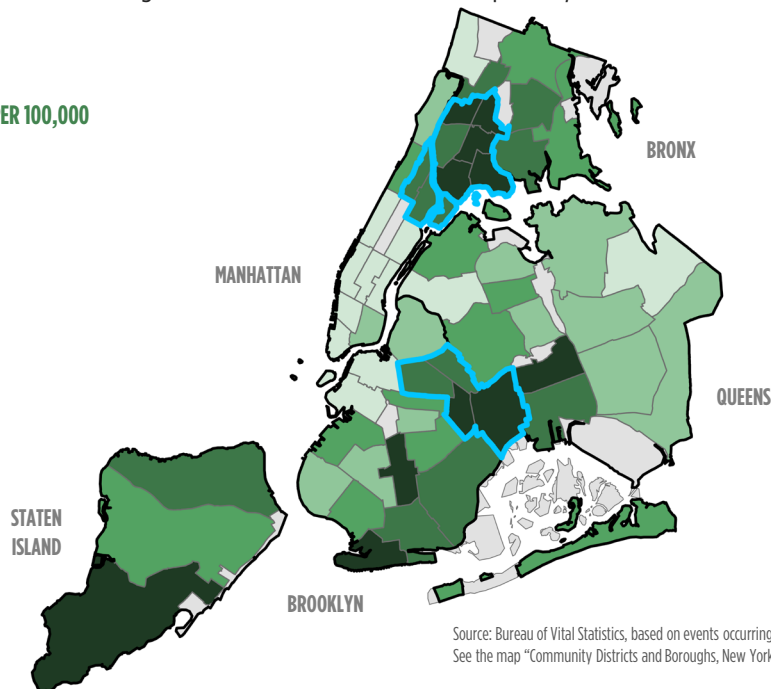
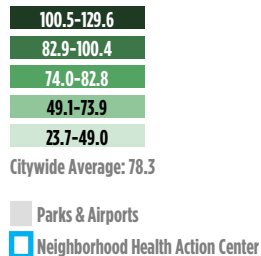


# COVID-19 MORTALITY

Figure C9. Age-adjusted COVID-19 Death Rate by Community District, New York City, 2021

Age-adjusted COVID-19 death rates were highest in Brownsville (129.6 deaths per 100,000 population), Coney Island (125.5), East Tremont (120.1), Hunts Point (116.7), and East New York (115.9), all of which are in the Neighborhood Health Action Centers except Coney Island.

## AGE-ADJUSTED COVID-19 DEATH RATE PER 100,000 POPULATION



Source: Bureau of Vital Statistics, based on events occurring in 2021. See the map "Community Districts and Boroughs, New York City" on page 149.

| MANHATTAN                  |                     |       |
|----------------------------|---------------------|-------|
| CD                         | COVID-19 Death Rate |       |
| Central Harlem             | MN10                | 100.0 |
| East Harlem                | MN11                | 98.7  |
| Manhattanville             | MN09                | 77.5  |
| Lower East Side            | MN03                | 70.5  |
| Washington Heights         | MN12                | 61.1  |
| Battery Park, Tribeca      | MN01                | 35.4  |
| Chelsea, Clinton           | MN04                | 34.7  |
| Midtown Business District  | MN05                | 31.2  |
| Upper West Side            | MN07                | 30.2  |
| Murray Hill                | MN06                | 28.1  |
| Greenwich Village, SOHO    | MN02                | 23.9  |
| Upper East Side            | MN08                | 23.7  |
| BRONX                      |                     |       |
| CD                         | COVID-19 Death Rate |       |
| East Tremont               | BX06                | 120.1 |
| Hunts Point                | BX02                | 116.7 |
| Mott Haven                 | BX01                | 115.2 |
| University, Morris Heights | BX05                | 106.4 |
| Morrisania                 | BX03                | 105.9 |
| Unionport, Soundview       | BX09                | 98.1  |
| Fordham                    | BX07                | 87.6  |
| Concourse, Highbridge      | BX04                | 84.7  |
| Pelham Parkway             | BX11                | 83.4  |
| Throgs Neck                | BX10                | 82.8  |
| Williamsbridge             | BX12                | 76.9  |
| Riverdale                  | BX08                | 49.0  |
| STATEN ISLAND              |                     |       |
| CD                         | COVID-19 Death Rate |       |
| Tottenville                | SI03                | 100.7 |
| Port Richmond              | SI01                | 88.7  |
| Willowbrook, South Beach   | SI02                | 81.3  |

| BROOKLYN                      |                     |       |
|-------------------------------|---------------------|-------|
| CD                            | COVID-19 Death Rate |       |
| Brownsville                   | BK16                | 129.6 |
| Coney Island                  | BK13                | 125.5 |
| East New York                 | BK05                | 115.9 |
| Flatbush, Midwood             | BK14                | 100.7 |
| Bedford Stuyvesant            | BK03                | 94.4  |
| Sheepshead Bay                | BK15                | 90.4  |
| Canarsie                      | BK18                | 87.6  |
| Bushwick                      | BK04                | 83.2  |
| Bensonhurst                   | BK11                | 82.5  |
| East Flatbush                 | BK17                | 81.2  |
| Crown Heights North           | BK08                | 77.7  |
| Sunset Park                   | BK07                | 77.6  |
| Borough Park                  | BK12                | 72.4  |
| Crown Heights South           | BK09                | 69.7  |
| Bay Ridge                     | BK10                | 68.8  |
| Williamsburg, Greenpoint      | BK01                | 66.8  |
| Fort Greene, Brooklyn Heights | BK02                | 46.5  |
| Park Slope                    | BK06                | 41.1  |
| QUEENS                        |                     |       |
| CD                            | COVID-19 Death Rate |       |
| Woodhaven                     | QN09                | 105.4 |
| Howard Beach                  | QN10                | 100.4 |
| Astoria, Long Island City     | QN01                | 78.8  |
| The Rockaways                 | QN14                | 78.3  |
| Elmhurst, Corona              | QN04                | 75.0  |
| Ridgewood, Glendale           | QN05                | 74.4  |
| Jamaica, St. Albans           | QN12                | 73.9  |
| Flushing                      | QN07                | 65.5  |
| Fresh Meadows, Briarwood      | QN08                | 62.1  |
| Jackson Heights               | QN03                | 61.4  |
| Queens Village                | QN13                | 55.4  |
| Rego Park, Forest Hills       | QN06                | 49.5  |
| Sunnyside, Woodside           | QN02                | 48.0  |
| Bayside                       | QN11                | 35.1  |

Table C1. Percent of COVID-19 Deaths by Place of Death and Sex, New York City, 2021

Females were more likely than males to die of COVID-19 in nursing home/long term care facilities, and males were more likely than females to die of COVID-19 at home.

| Place of Death                       | Total        |              | Male         |              | Female       |              |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                      | Deaths       | %            | Deaths       | %            | Deaths       | %            |
| Hospital Inpatient                   | 7,197        | 87.5         | 4,004        | 87.5         | 3,193        | 87.4         |
| Emergency/Outpatient                 | 329          | 4.0          | 178          | 3.9          | 151          | 4.1          |
| Dead on Arrival                      | 18           | 0.2          | 7            | 0.2          | 11           | 0.3          |
| Nursing Home/Long Term Care Facility | 177          | 2.2          | 90           | 2.0          | 87           | 2.4          |
| Hospice Facility                     | 9            | 0.1          | 5            | 0.1          | 4            | 0.1          |
| Home                                 | 490          | 6.0          | 283          | 6.2          | 207          | 5.7          |
| Other                                | 9            | 0.1          | 7            | 0.2          | 2            | 0.1          |
| <b>Total</b>                         | <b>8,229</b> | <b>100.0</b> | <b>4,574</b> | <b>100.0</b> | <b>3,655</b> | <b>100.0</b> |

Table C2. Percent of COVID-19 Deaths by Place of Death and Race/Ethnicity, New York City, 2021

Non-Hispanic/Latino Whites were more likely to die of COVID-19 in nursing home/long term care facilities than those of other racial/ethnic groups.

| Place of Death                       | Hispanic/Latino |              | Non-Hispanic/Latino White |              | Non-Hispanic/Latino Black |              | Asian & Pacific Islander |              |
|--------------------------------------|-----------------|--------------|---------------------------|--------------|---------------------------|--------------|--------------------------|--------------|
|                                      | Deaths          | %            | Deaths                    | %            | Deaths                    | %            | Deaths                   | %            |
| Hospital Inpatient                   | 1,949           | 88.5         | 2,345                     | 87.1         | 1,647                     | 84.7         | 1,044                    | 90.6         |
| Emergency/Outpatient                 | 83              | 3.8          | 71                        | 2.6          | 128                       | 6.6          | 35                       | 3.0          |
| Dead on Arrival                      | 3               | 0.1          | 5                         | 0.2          | 9                         | 0.5          | -                        | -            |
| Nursing Home/Long Term Care Facility | 26              | 1.2          | 96                        | 3.6          | 39                        | 2.0          | 14                       | 1.2          |
| Hospice Facility                     | 4               | 0.2          | 3                         | 0.1          | -                         | -            | 2                        | 0.2          |
| Home                                 | 135             | 6.1          | 169                       | 6.3          | 119                       | 6.1          | 55                       | 4.8          |
| Other                                | 2               | 0.1          | 2                         | 0.1          | 3                         | 0.2          | 2                        | 0.2          |
| <b>Total</b>                         | <b>2,202</b>    | <b>100.0</b> | <b>2,691</b>              | <b>100.0</b> | <b>1,945</b>              | <b>100.0</b> | <b>1,152</b>             | <b>100.0</b> |

Table C3. Leading Causes of Death by Sex, New York City, 2020 and 2021

In 2021, COVID-19 deaths ranked 2<sup>nd</sup> for both **males** and **females**. COVID-19 deaths decreased by 63.9% among **males** and decreased by 57.4% among **females** from 2020 to 2021.

| Cause of Death |  | Deaths 2020   | Deaths 2021   | % Change      |
|----------------|--|---------------|---------------|---------------|
| <b>Male</b>    |  |               |               |               |
| 1              | Diseases of Heart                                | 10,700        | 8,397         | -21.5%        |
| 2              | COVID-19   | 12,655        | 4,574         | -63.9%        |
| 3              | Malignant Neoplasms                              | 5,701         | 5,638         | -1.1%         |
| 4              | Psych. Substance Use & Accidental Drug Poisoning | 1,687         | 2,066         | 22.5%         |
| 5              | Diabetes Mellitus                                | 1,136         | 911           | -19.8%        |
| 6              | Influenza and Pneumonia                          | 1,110         | 866           | -22.0%        |
| 7              | Cerebrovascular Disease                          | 979           | 908           | -7.3%         |
| 8              | Chronic Lower Respiratory Diseases               | 822           | 631           | -23.2%        |
| 9              | Essential Hypertension and Renal Diseases        | 725           | 565           | -22.1%        |
| 10             | Accidents Except Drug Poisoning                  | 691           | 857           | 24.0%         |
|                | Other Causes                                     | 7,423         | 7,537         | 1.5%          |
|                | <b>Total</b>                                     | <b>43,629</b> | <b>32,950</b> | <b>-24.5%</b> |
| <b>Female</b>  |  |               |               |               |
| 1              | Diseases of Heart                                | 10,561        | 8,171         | -22.6%        |
| 2              | COVID-19   | 8,586         | 3,655         | -57.4%        |
| 3              | Malignant Neoplasms                              | 5,969         | 5,940         | -0.5%         |
| 4              | Cerebrovascular Disease                          | 1,215         | 1,241         | 2.1%          |
| 5              | Diabetes Mellitus                                | 1,083         | 803           | -25.9%        |
| 6              | Influenza and Pneumonia                          | 939           | 762           | -18.8%        |
| 7              | Chronic Lower Respiratory Diseases               | 913           | 748           | -18.1%        |
| 8              | Essential Hypertension and Renal Diseases        | 867           | 718           | -17.2%        |
| 9              | Alzheimer's Disease                              | 816           | 813           | -0.4%         |
| 10             | Psych. Substance Use & Accidental Drug Poisoning | 484           | 678           | 40.1%         |
|                | Other Causes                                     | 7,081         | 7,072         | -0.1%         |
|                | <b>Total</b>                                     | <b>38,514</b> | <b>30,601</b> | <b>-20.5%</b> |

Table C4. Top 10 Occupations among COVID-19 Decedents by Sex, Age 18-64, New York City, 2021  
Among those who died from COVID-19 in 2021, construction and extraction, and healthcare support were the top occupations for males and females, respectively.

| Male  | Female  |
|---|---|
| Construction and Extraction                   | Healthcare Support                            |
| Transportation                                | Office and Administrative Support             |
| Food Preparation and Serving Related          | Personal Care and Service                     |
| Sales and Related                             | Education, Training, and Library              |
| Building and Grounds Cleaning and Maintenance | Building and Grounds Cleaning and Maintenance |
| Protective Service                            | Healthcare Practitioners and Technical        |
| Office and Administrative Support             | Sales and Related                             |
| Management                                    | Protective Service                            |
| Installation, Maintenance, and Repair         | Community and Social Service                  |
| Production                                    | Food Preparation and Serving Related          |

Table C5. Top 10 Industries among COVID-19 Decedents by Sex, Age 18-64, New York City, 2021  
Among those who died from COVID-19 in 2021, construction, and health care and social assistance were the top industries among males and females, respectively.

| Male   | Female  |
|--|---|
| Construction                                     | Health Care and Social Assistance               |
| Transportation and Warehousing                   | Other Services Sector (except Public Admin)     |
| Accommodations and Food Service                  | Education Services                              |
| Retail Trade                                     | Public Administration                           |
| Administrative and Support and Waste Management  | Administrative and Support and Waste Management |
| Health Care and Social Assistance                | Retail Trade                                    |
| Other Services Sector (except Public Admin)      | Accommodations and Food Service                 |
| Professional, Scientific, and Technical Services | Finance and Insurance                           |
| Public Administration                            | Transportation and Warehousing                  |
| Manufacturing                                    | Arts, Entertainment, Recreation                 |

Table C6. Top 10 Occupations among COVID-19 Decedents by Race/Ethnicity, Age 18-64, New York City, 2021

Among those who died from COVID-19 in 2021, construction and extraction was the top occupation for **Hispanics/Latinos** and **non-Hispanic/Latino Whites**, while healthcare support, and food preparation and serving related were the top occupations for **non-Hispanic/Latino Blacks** and **Asians and Pacific Islanders**, respectively.

| Hispanic/Latino                               | Non-Hispanic/Latino White                      | Non-Hispanic/Latino Black                     | Asian and Pacific Islander             |
|---|--|---|--|
| Construction and Extraction                   | Construction and Extraction                    | Healthcare Support                            | Food Preparation and Serving Related   |
| Food Preparation and Serving Related          | Sales and Related                              | Protective Service                            | Sales and Related                      |
| Transportation                                | Management                                     | Office and Administrative Support             | Healthcare Support                     |
| Building and Grounds Cleaning and Maintenance | Office and Administrative Support              | Transportation                                | Office and Administrative Support      |
| Sales and Related                             | Transportation                                 | Building and Grounds Cleaning and Maintenance | Transportation                         |
| Office and Administrative Support             | Installation, Maintenance, and Repair          | Construction and Extraction                   | Personal Care and Service              |
| Healthcare Support                            | Protective Service                             | Personal Care and Service                     | Healthcare Practitioners and Technical |
| Personal Care and Service                     | Arts, Design, Entertainment, Sports, and Media | Sales and Related                             | Management                             |
| Management                                    | Production                                     | Food Preparation and Serving Related          | Production                             |
| Production                                    | Healthcare Support                             | Community and Social Service                  | Construction and Extraction            |

Table C7. Top 10 Industries among COVID-19 Decedents by Race/Ethnicity, Age 18-64, New York City, 2021

Among those who died from COVID-19 in 2021, accommodations and food service was the top industry for **Hispanics/Latinos**, construction was the top industry for **non-Hispanic/Latino Whites**, and health care and social assistance was the top industry for **non-Hispanic/Latino Blacks** and **Asians and Pacific Islanders**.

| Hispanic/Latino                                  | Non-Hispanic/Latino White                        | Non-Hispanic/Latino Black                       | Asian and Pacific Islander                  |
|--|--|---|---|
| Accommodations and Food Service                  | Construction                                     | Health Care and Social Assistance               | Health Care and Social Assistance           |
| Construction                                     | Retail Trade                                     | Transportation and Warehousing                  | Accommodations and Food Service             |
| Health Care and Social Assistance                | Health Care and Social Assistance                | Administrative and Support and Waste Management | Retail Trade                                |
| Transportation and Warehousing                   | Transportation and Warehousing                   | Public Administration                           | Transportation and Warehousing              |
| Administrative and Support and Waste Management  | Other Services Sector (except Public Admin)      | Construction                                    | Construction                                |
| Other Services Sector (except Public Admin)      | Professional, Scientific, and Technical Services | Other Services Sector (except Public Admin)     | Other Services Sector (except Public Admin) |
| Retail Trade                                     | Public Administration                            | Education Services                              | Manufacturing                               |
| Manufacturing                                    | Administrative and Support and Waste Management  | Retail Trade                                    | Public Administration                       |
| Education Services                               | Real Estate and Rental and Leasing               | Arts, Entertainment, Recreation                 | Arts, Entertainment, Recreation             |
| Professional, Scientific, and Technical Services | Education Services                               | Accommodations and Food Service                 | Finance and Insurance                       |

Table C8. The Impact of COVID-19 Deaths on Life Expectancy by Sex, New York City, 2021

Life expectancy at birth decreased by 2.2 years among males and by 1.4 years among females from 2019 to 2021.

| Exact Age | Total | Change from 2019 (Years) | Male | Change from 2019 (Years) | Female | Change from 2019 (Years) |
|-----------|-------|--------------------------|------|--------------------------|--------|--------------------------|
| 0         | 80.7  | -1.8                     | 77.8 | -2.2                     | 83.5   | -1.4                     |
| 1         | 80.0  | -1.9                     | 77.1 | -2.2                     | 82.8   | -1.4                     |
| 5         | 76.1  | -1.9                     | 73.2 | -2.2                     | 78.8   | -1.4                     |
| 10        | 71.1  | -1.9                     | 68.2 | -2.2                     | 73.9   | -1.4                     |
| 15        | 66.2  | -1.9                     | 63.2 | -2.2                     | 68.9   | -1.4                     |
| 20        | 61.3  | -1.9                     | 58.4 | -2.2                     | 63.9   | -1.4                     |
| 25        | 56.5  | -1.8                     | 53.7 | -2.1                     | 59.0   | -1.4                     |
| 30        | 51.7  | -1.8                     | 49.0 | -2.0                     | 54.1   | -1.4                     |
| 35        | 47.0  | -1.7                     | 44.4 | -1.9                     | 49.3   | -1.4                     |
| 40        | 42.3  | -1.6                     | 39.8 | -1.8                     | 44.6   | -1.3                     |
| 45        | 37.8  | -1.5                     | 35.4 | -1.6                     | 39.8   | -1.2                     |
| 50        | 33.3  | -1.4                     | 31.1 | -1.5                     | 35.2   | -1.2                     |
| 55        | 29.0  | -1.2                     | 27.0 | -1.3                     | 30.8   | -1.1                     |
| 60        | 25.0  | -1.0                     | 23.1 | -1.1                     | 26.5   | -1.0                     |
| 65        | 21.1  | -0.9                     | 19.5 | -0.8                     | 22.4   | -0.8                     |
| 70        | 17.4  | -0.7                     | 16.1 | -0.7                     | 18.4   | -0.7                     |
| 75        | 13.9  | -0.5                     | 12.8 | -0.4                     | 14.7   | -0.5                     |
| 80        | 10.8  | -0.3                     | 9.9  | -0.2                     | 11.3   | -0.3                     |
| 85        | 7.9   | -0.1                     | 7.2  | -0.1                     | 8.2    | -0.1                     |



# COVID-19 MORTALITY

Table C9. The Impact of COVID-19 Deaths on Life Expectancy by Race/Ethnicity, New York City, 2021

Life expectancy at birth decreased by 2.1 years among Hispanics/Latinos, by 1.3 years among non-Hispanic/Latino Whites, and by 2.4 years among non-Hispanic/Latino Blacks from 2019 to 2021.

| Exact Age | Hispanic/Latino | Change from 2019 (Years) | Non-Hispanic/Latino White | Change from 2019 (Years) | Non-Hispanic/Latino Black | Change from 2019 (Years) |
|-----------|-----------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| 0         | 81.2            | -2.1                     | 81.8                      | -1.3                     | 76.1                      | -2.4                     |
| 1         | 80.4            | -2.1                     | 81.0                      | -1.3                     | 75.8                      | -2.3                     |
| 5         | 76.5            | -2.1                     | 77.1                      | -1.4                     | 71.9                      | -2.3                     |
| 10        | 71.5            | -2.1                     | 72.1                      | -1.3                     | 67.0                      | -2.4                     |
| 15        | 66.5            | -2.2                     | 67.1                      | -1.3                     | 62.0                      | -2.4                     |
| 20        | 61.6            | -2.1                     | 62.2                      | -1.3                     | 57.2                      | -2.3                     |
| 25        | 56.8            | -2.1                     | 57.4                      | -1.3                     | 52.5                      | -2.3                     |
| 30        | 52.1            | -2.0                     | 52.5                      | -1.3                     | 47.8                      | -2.2                     |
| 35        | 47.4            | -1.9                     | 47.7                      | -1.3                     | 43.3                      | -2.0                     |
| 40        | 42.8            | -1.8                     | 43.0                      | -1.2                     | 38.9                      | -1.8                     |
| 45        | 38.3            | -1.7                     | 38.3                      | -1.1                     | 34.6                      | -1.6                     |
| 50        | 33.8            | -1.5                     | 33.7                      | -1.0                     | 30.4                      | -1.5                     |
| 55        | 29.5            | -1.4                     | 29.3                      | -1.0                     | 26.4                      | -1.3                     |
| 60        | 25.5            | -1.2                     | 25.2                      | -0.8                     | 22.9                      | -1.0                     |
| 65        | 21.6            | -1.0                     | 21.2                      | -0.7                     | 19.5                      | -0.8                     |
| 70        | 17.9            | -0.8                     | 17.3                      | -0.6                     | 16.3                      | -0.6                     |
| 75        | 14.3            | -0.5                     | 13.7                      | -0.5                     | 13.4                      | -0.2                     |
| 80        | 11.1            | -0.3                     | 10.4                      | -0.3                     | 10.6                      | 0.0                      |
| 85        | 8.2             | -0.2                     | 7.5                       | -0.1                     | 8.1                       | 0.1                      |

## NOTES TO SPECIAL SECTION: COVID-19 MORTALITY

### Deaths—How NYC ascertained deaths during the COVID-19 pandemic: Comparison of two COVID-19 definitions

With the beginning of the COVID-19 pandemic, the NYC Health Department implemented several measures to ensure complete ascertainment of COVID-19 deaths, as adequate nosology guidance did not exist, doctors did not necessarily know how to complete the cause of death section on the death certificate, and testing for the disease was extremely limited. To ensure the best possible ascertainment, the team worked very closely with the NYC DOHMH ICS/Surveillance Epidemiology team to monitor cases, including matching lab records of COVID-19 tests with the death registry. This allowed real-time reporting of COVID-19 deaths in a time when total deaths were increasing rapidly.

COVID-19 deaths in this Summary are defined by the International Classification of Diseases, 10<sup>th</sup> Revision (ICD-10): U07.1. This definition is different from surveillance data that were released daily on the NYC Department of Health and Mental Hygiene website.

### Life Expectancy

Deaths in New York City are relatively stable from year to year with a small downward trend. As a result, the excess deaths in 2021 compared to 2019 are most likely due to COVID-19. Life expectancy in 2019 is used as a baseline to show the decrease of life expectancy caused by COVID-19 deaths.

# POPULATION CHARACTERISTICS

Table PC1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2021

| Year      | Population | Live Births                                  |                           | Fertility Rates            |                 | Total Fertility Rates |                           | Marriages*      |                           | Deaths                 |                            | Infant Mortality |  |
|-----------|------------|--|---------------------------|----------------------------|-----------------|-----------------------|---------------------------|-----------------|---------------------------|------------------------|----------------------------|------------------|--|
|           |            | Total Reported*                              | Rate per 1,000 Population | Per 1,000 Women Aged 15-44 | Per 1,000 Women | Total Reported*       | Rate per 1,000 Population | Total Reported* | Rate per 1,000 Population | Deaths Under One Year* | Rate per 1,000 Live Births |                  |  |
| 1898-1900 | 3,358,000  | 119,000                                      | 35.4                      |                            |                 | 30,535                | 9.1                       | 67,503          | 20.1                      | 16,264                 | 136.7                      |                  |  |
| 1901-1905 | 3,786,000  | 129,000                                      | 34.1                      |                            |                 | 37,988                | 10.0                      | 71,689          | 18.9                      | 15,611                 | 121.0                      |                  |  |
| 1906-1910 | 4,473,000  | 144,000                                      | 32.2                      |                            |                 | 44,966                | 10.1                      | 75,865          | 17.0                      | 16,609                 | 115.3                      |                  |  |
| 1911-1915 | 5,049,000  | 140,581                                      | 27.8                      |                            |                 | 51,157                | 10.1                      | 74,666          | 14.8                      | 14,060                 | 100.0                      |                  |  |
| 1916-1920 | 5,492,000  | 136,101                                      | 24.8                      |                            |                 | 59,081                | 10.8                      | 80,435          | 14.6                      | 12,004                 | 88.2                       |                  |  |
| 1921-1925 | 6,175,000  | 130,462                                      | 21.1                      |                            |                 | 62,710                | 10.2                      | 69,303          | 11.2                      | 8,985                  | 68.9                       |                  |  |
| 1926-1930 | 6,703,000  | 125,590                                      | 18.7                      |                            |                 | 62,278                | 9.3                       | 75,395          | 11.2                      | 7,662                  | 61.0                       |                  |  |
| 1931-1935 | 7,101,000  | 106,179                                      | 15.0                      |                            |                 | 63,273                | 8.9                       | 75,561          | 10.6                      | 5,521                  | 52.0                       |                  |  |
| 1936-1940 | 7,363,000  | 102,418                                      | 13.9                      |                            |                 | 69,184                | 9.4                       | 76,065          | 10.3                      | 4,079                  | 39.8                       |                  |  |
| 1941-1945 | 7,597,000  | 126,495                                      | 16.7                      |                            |                 | 76,086                | 10.0                      | 78,382          | 10.3                      | 3,525                  | 27.9                       |                  |  |
| 1946-1950 | 7,815,000  | 158,926                                      | 20.3                      |                            |                 | 90,914                | 11.6                      | 79,708          | 10.2                      | 4,139                  | 26.0                       |                  |  |
| 1951-1955 | 7,867,000  | 163,526                                      | 20.8                      |                            |                 | 71,689                | 9.1                       | 80,583          | 10.2                      | 3,986                  | 24.4                       |                  |  |
| 1956-1960 | 7,806,000  | 166,949                                      | 21.4                      |                            |                 | 68,281                | 8.7                       | 84,290          | 10.8                      | 4,290                  | 25.7                       |                  |  |
| 1961-1965 | 7,816,200  | 165,197                                      | 21.1                      |                            |                 | 68,318                | 8.7                       | 87,597          | 11.2                      | 4,333                  | 26.2                       |                  |  |
| 1966-1970 | 7,872,972  | 147,294                                      | 18.7                      |                            |                 | 71,653                | 9.1                       | 88,779          | 11.3                      | 3,477                  | 23.6                       |                  |  |
| 1971-1975 | 7,652,200  | 115,941                                      | 15.1                      |                            |                 | 67,737                | 8.9                       | 82,113          | 10.7                      | 2,313                  | 19.9                       |                  |  |
| 1976      | 7,401,000  | 109,995                                      | 14.9                      |                            |                 | 55,829                | 7.5                       | 77,538          | 10.5                      | 2,092                  | 19.0                       |                  |  |
| 1977      | 7,318,000  | 110,486                                      | 15.1                      |                            |                 | 52,804                | 7.2                       | 75,011          | 10.3                      | 1,971                  | 17.8                       |                  |  |
| 1978      | 7,236,000  | 106,720                                      | 14.7                      |                            |                 | 54,247                | 7.5                       | 73,081          | 10.1                      | 1,827                  | 17.1                       |                  |  |
| 1979      | 7,154,000  | 106,021                                      | 14.8                      |                            |                 | 58,532                | 8.2                       | 72,079          | 10.1                      | 1,767                  | 16.7                       |                  |  |
| 1980      | 7,071,639  | 107,066                                      | 15.1                      | 63.6                       |                 | 58,637                | 8.3                       | 76,625          | 10.8                      | 1,719                  | 16.1                       |                  |  |
| 1981      | 7,097,000  | 108,547                                      | 15.3                      | 63.9                       |                 | 61,775                | 8.7                       | 73,329          | 10.3                      | 1,678                  | 15.5                       |                  |  |
| 1982      | 7,122,000  | 111,487                                      | 15.7                      | 65.1                       |                 | 66,619                | 9.4                       | 73,083          | 10.3                      | 1,706                  | 15.3                       |                  |  |
| 1983      | 7,147,000  | 112,353                                      | 15.7                      | 65.1                       |                 | 68,164                | 9.5                       | 73,544          | 10.3                      | 1,603                  | 14.3                       |                  |  |
| 1984      | 7,172,000  | 113,332                                      | 15.8                      | 65.1                       |                 | 76,336                | 10.6                      | 74,278          | 10.4                      | 1,540                  | 13.6                       |                  |  |
| 1985      | 7,197,000  | 118,542                                      | 16.5                      | 67.6                       |                 | 77,897                | 10.8                      | 74,852          | 10.4                      | 1,591                  | 13.4                       |                  |  |
| 1986      | 7,222,000  | 122,108                                      | 16.9                      | 69.0                       |                 | 82,199                | 11.4                      | 75,702          | 10.5                      | 1,566                  | 12.8                       |                  |  |
| 1987      | 7,247,000  | 127,386                                      | 17.6                      | 71.5                       |                 | 76,194                | 10.5                      | 76,448          | 10.5                      | 1,673                  | 13.1                       |                  |  |
| 1988      | 7,272,000  | 132,226                                      | 18.2                      | 73.6                       |                 | 74,137                | 10.2                      | 77,817          | 10.7                      | 1,770                  | 13.4                       |                  |  |
| 1989      | 7,297,000  | 137,673                                      | 18.9                      | 76.0                       |                 | 69,758                | 9.6                       | 75,957          | 10.4                      | 1,827                  | 13.3                       |                  |  |
| 1990      | 7,322,564  | 139,630                                      | 19.1                      | 76.5                       |                 | 71,301                | 9.7                       | 73,875          | 10.1                      | 1,620                  | 11.6                       |                  |  |
| 1991      | 7,388,000  | 138,148                                      | 18.7                      | 75.3                       |                 | 69,314                | 9.4                       | 72,421          | 9.8                       | 1,575                  | 11.4                       |                  |  |
| 1992      | 7,455,000  | 136,002                                      | 18.2                      | 73.8                       |                 | 71,947                | 9.7                       | 71,001          | 9.5                       | 1,390                  | 10.2                       |                  |  |
| 1993      | 7,522,000  | 133,583                                      | 17.8                      | 72.1                       |                 | 72,490                | 9.6                       | 73,408          | 9.8                       | 1,366                  | 10.2                       |                  |  |
| 1994      | 7,590,000  | 133,662                                      | 17.6                      | 71.8                       |                 | 70,438                | 9.3                       | 71,038          | 9.4                       | 1,207                  | 9.0                        |                  |  |
| 1995      | 7,658,000  | 131,009                                      | 17.1                      | 70.1                       |                 | 71,507                | 9.3                       | 70,769          | 9.2                       | 1,155                  | 8.8                        |                  |  |
| 1996      | 7,727,000  | 126,901                                      | 16.4                      | 67.5                       |                 | 79,361                | 10.3                      | 66,784          | 8.6                       | 992                    | 7.8                        |                  |  |
| 1997      | 7,796,000  | 123,313                                      | 15.8                      | 65.3                       |                 | 80,027                | 10.3                      | 62,506          | 8.0                       | 881                    | 7.1                        |                  |  |
| 1998      | 7,866,000  | 124,252                                      | 15.8                      | 65.5                       |                 | 53,661                | 6.8                       | 61,010          | 7.8                       | 843                    | 6.8                        |                  |  |
| 1999      | 7,937,000  | 123,739                                      | 15.6                      | 64.9                       |                 | 55,075                | 6.9                       | 62,470          | 7.9                       | 848                    | 6.9                        |                  |  |
| 2000      | 8,008,278  | 125,563                                      | 15.7                      | 65.5                       | 1,918.4         | 58,291                | 7.3                       | 60,839          | 7.6                       | 839                    | 6.7                        |                  |  |
| 2001†     | 8,060,000  | 124,023                                      | 15.4                      | 64.5                       | 1,884.2         | 72,587                | 9.0                       | 62,964          | 7.8                       | 760                    | 6.1                        |                  |  |
| 2001†     | 8,060,000  | Excluding World Trade Center disaster deaths |                           |                            |                 |                       |                           | 60,218          | 7.5                       |                        |                            |                  |  |
| 2002†     | 8,072,000  | 122,937                                      | 15.2                      | 64.1                       | 1,866.4         | 65,490                | 8.1                       | 59,651          | 7.4                       | 742                    | 6.0                        |                  |  |
| 2003†     | 8,068,000  | 124,345                                      | 15.4                      | 65.1                       | 1,890.5         | 61,101                | 7.6                       | 59,213          | 7.3                       | 807                    | 6.5                        |                  |  |
| 2004†     | 8,043,000  | 124,099                                      | 15.4                      | 65.3                       | 1,898.3         | 62,057                | 7.7                       | 57,466          | 7.1                       | 760                    | 6.1                        |                  |  |
| 2005†     | 8,013,000  | 122,725                                      | 15.3                      | 65.0                       | 1,890.7         | 66,348                | 8.3                       | 57,068          | 7.1                       | 732                    | 6.0                        |                  |  |
| 2006†     | 7,994,000  | 125,506                                      | 15.7                      | 66.6                       | 1,935.2         | 65,619                | 8.2                       | 55,391          | 6.9                       | 740                    | 5.9                        |                  |  |
| 2007      | 8,014,000  | 128,961                                      | 16.1                      | 68.4                       | 1,976.3         | 66,483                | 8.3                       | 54,073          | 6.7                       | 697                    | 5.4                        |                  |  |
| 2008      | 8,068,000  | 127,680                                      | 15.8                      | 67.3                       | 1,937.2         | 66,670                | 8.3                       | 54,193          | 6.7                       | 698                    | 5.5                        |                  |  |
| 2009      | 8,132,000  | 126,774                                      | 15.6                      | 66.5                       | 1,902.0         | 65,542                | 8.1                       | 52,881          | 6.5                       | 668                    | 5.3                        |                  |  |
| 2010      | 8,175,133  | 124,791                                      | 15.3                      | 65.3                       | 1,863.2         | 67,051                | 8.2                       | 52,575          | 6.4                       | 609                    | 4.9                        |                  |  |
| 2011‡     | 8,338,000  | 123,029                                      | 14.8                      | 63.7                       | 1,835.1         | 71,401                | 8.6                       | 52,789          | 6.3                       | 577                    | 4.7                        |                  |  |
| 2012‡     | 8,464,000  | 123,231                                      | 14.6                      | 63.2                       | 1,824.5         | 74,362                | 8.8                       | 52,455          | 6.2                       | 583                    | 4.7                        |                  |  |
| 2013‡     | 8,566,000  | 120,457                                      | 14.1                      | 61.5                       | 1,768.7         | 77,678                | 9.1                       | 53,409          | 6.2                       | 551                    | 4.6                        |                  |  |
| 2014‡     | 8,655,000  | 122,084                                      | 14.1                      | 62.1                       | 1,767.2         | 78,409                | 9.1                       | 53,034          | 6.1                       | 516                    | 4.2                        |                  |  |
| 2015‡     | 8,737,000  | 121,673                                      | 13.9                      | 61.8                       | 1,753.9         | 77,777                | 8.9                       | 54,120          | 6.2                       | 526                    | 4.3                        |                  |  |
| 2016‡     | 8,795,000  | 120,367                                      | 13.7                      | 61.3                       | 1,738.6         | 84,073                | 9.6                       | 54,280          | 6.2                       | 491                    | 4.1                        |                  |  |
| 2017‡     | 8,815,000  | 117,013                                      | 13.3                      | 59.9                       | 1,688.8         | 82,866                | 9.4                       | 54,319          | 6.2                       | 500                    | 4.3                        |                  |  |
| 2018‡     | 8,826,000  | 114,296                                      | 12.9                      | 58.8                       | 1,714.2         | 76,688                | 8.7                       | 55,081          | 6.2                       | 446                    | 3.9                        |                  |  |
| 2019‡     | 8,825,000  | 110,442                                      | 12.5                      | 57.1                       | 1,678.5         | 73,827                | 8.4                       | 54,559          | 6.2                       | 464                    | 4.2                        |                  |  |
| 2020      | 8,804,190  | 100,022                                      | 11.4                      | 52.2                       | 1,452.5         | 36,142                | 4.1                       | 82,143          | 9.3                       | 388                    | 3.9                        |                  |  |
| 2021      | 8,467,513  | 99,262                                       | 11.7                      | 55.2                       | 1,543.3         | 41,642                | 4.9                       | 63,551          | 7.5                       | 400                    | 4.0                        |                  |  |

\*Figures prior to 1966 are averages across the years presented; single-year figures prior to 1966 appear in the annual summaries for 1965 and earlier. Figures for 1898-1913 births are estimated.

† See Technical Notes: Births, Mother's Marital Status.

‡ Population data may vary by publication year. See Technical Notes: Population, Citywide population.



# POPULATION CHARACTERISTICS

Table PC2. Population Estimates by Age, Mutually Exclusive Race and Hispanic/Latino Origin, and Sex, New York City, 2021

| Age in Years | All       |           |           | Hispanic/Latino |           |           | Non-Hisp./Latino White |           |           | Non-Hisp./Latino Black |         |           | Asian and Pacific Islander |         |         | Other or Multiple Races |        |        |
|--------------|-----------|-----------|-----------|-----------------|-----------|-----------|------------------------|-----------|-----------|------------------------|---------|-----------|----------------------------|---------|---------|-------------------------|--------|--------|
|              | Total     | Male      | Female    | Total           | Male      | Female    | Total                  | Male      | Female    | Total                  | Male    | Female    | Total                      | Male    | Female  | Total                   | Male   | Female |
| All Ages     | 8,467,513 | 4,064,170 | 4,403,343 | 2,464,120       | 1,195,079 | 1,269,041 | 2,686,836              | 1,320,331 | 1,366,505 | 1,847,192              | 846,206 | 1,000,986 | 1,287,365                  | 615,606 | 671,759 | 182,000                 | 86,948 | 95,052 |
| Under 5      | 501,729   | 256,012   | 245,717   | 162,850         | 82,606    | 80,244    | 143,215                | 73,335    | 69,880    | 101,093                | 51,170  | 49,923    | 72,886                     | 37,833  | 35,053  | 21,685                  | 11,068 | 10,617 |
| 5-9          | 493,596   | 252,191   | 241,405   | 168,242         | 85,550    | 82,692    | 132,423                | 68,092    | 64,331    | 99,109                 | 49,932  | 49,177    | 73,514                     | 38,195  | 35,319  | 20,308                  | 10,422 | 9,886  |
| 10-14        | 477,818   | 245,187   | 232,631   | 171,007         | 87,607    | 83,400    | 125,079                | 64,252    | 60,827    | 106,987                | 54,370  | 52,617    | 59,241                     | 31,063  | 28,178  | 15,504                  | 7,895  | 7,609  |
| 15-19        | 460,033   | 232,475   | 227,558   | 163,447         | 83,118    | 80,329    | 121,641                | 61,434    | 60,207    | 103,543                | 51,795  | 51,748    | 58,843                     | 29,960  | 28,883  | 12,559                  | 6,168  | 6,391  |
| 20-24        | 493,123   | 238,247   | 254,876   | 165,671         | 82,248    | 83,423    | 133,139                | 63,156    | 69,983    | 112,280                | 53,870  | 58,410    | 69,397                     | 33,054  | 36,343  | 12,636                  | 5,919  | 6,717  |
| 25-29        | 678,554   | 325,574   | 352,980   | 193,722         | 95,935    | 97,787    | 223,376                | 106,068   | 117,308   | 142,001                | 68,115  | 73,886    | 103,399                    | 47,971  | 55,428  | 16,056                  | 7,485  | 8,571  |
| 30-34        | 724,810   | 358,661   | 366,149   | 200,846         | 102,771   | 98,075    | 244,502                | 121,713   | 122,789   | 148,353                | 72,493  | 75,860    | 116,098                    | 54,372  | 61,626  | 15,011                  | 7,212  | 7,799  |
| 35-39        | 622,162   | 308,142   | 314,020   | 180,371         | 91,701    | 88,670    | 204,753                | 104,693   | 100,060   | 124,172                | 58,687  | 65,485    | 101,587                    | 47,813  | 53,774  | 11,279                  | 5,248  | 6,031  |
| 40-44        | 548,897   | 267,400   | 281,497   | 165,050         | 82,128    | 82,922    | 168,867                | 86,955    | 81,912    | 115,332                | 52,713  | 62,619    | 90,382                     | 41,447  | 48,935  | 9,266                   | 4,157  | 5,109  |
| 45-49        | 510,482   | 245,716   | 264,766   | 152,677         | 74,603    | 78,074    | 152,922                | 78,555    | 74,367    | 109,544                | 48,764  | 60,780    | 87,131                     | 40,053  | 47,078  | 8,208                   | 3,741  | 4,467  |
| 50-54        | 532,616   | 257,153   | 275,463   | 154,415         | 74,394    | 80,021    | 159,980                | 83,248    | 76,732    | 123,222                | 54,902  | 68,320    | 86,711                     | 40,852  | 45,859  | 8,288                   | 3,757  | 4,531  |
| 55-59        | 538,762   | 257,898   | 280,864   | 148,614         | 69,555    | 79,059    | 160,579                | 83,425    | 77,154    | 134,586                | 59,764  | 74,822    | 86,902                     | 41,347  | 45,555  | 8,081                   | 3,807  | 4,274  |
| 60-64        | 508,336   | 239,210   | 269,126   | 127,998         | 58,315    | 69,683    | 165,038                | 82,569    | 82,469    | 126,263                | 55,512  | 70,751    | 81,606                     | 39,447  | 42,159  | 7,431                   | 3,367  | 4,064  |
| 65-69        | 434,227   | 198,225   | 236,002   | 102,214         | 44,529    | 57,685    | 156,821                | 75,212    | 81,609    | 99,216                 | 41,939  | 57,277    | 70,329                     | 33,925  | 36,404  | 5,647                   | 2,620  | 3,027  |
| 70-74        | 361,685   | 158,473   | 203,212   | 79,454          | 33,257    | 46,197    | 146,821                | 67,087    | 79,734    | 77,355                 | 30,883  | 46,472    | 53,880                     | 25,443  | 28,437  | 4,175                   | 1,803  | 2,372  |
| 75-79        | 238,187   | 98,300    | 139,887   | 54,763          | 21,541    | 33,222    | 96,999                 | 42,273    | 54,726    | 53,062                 | 19,257  | 33,805    | 30,884                     | 14,197  | 16,687  | 2,479                   | 1,032  | 1,447  |
| 80-84        | 166,462   | 65,101    | 101,361   | 37,550          | 13,911    | 23,639    | 69,667                 | 28,849    | 40,818    | 35,629                 | 12,078  | 23,551    | 21,932                     | 9,584   | 12,348  | 1,684                   | 679    | 1,005  |
| 85 & Over    | 176,034   | 60,205    | 115,829   | 35,229          | 11,310    | 23,919    | 81,014                 | 29,415    | 51,599    | 35,445                 | 9,962   | 25,483    | 22,643                     | 8,950   | 13,693  | 1,703                   | 568    | 1,135  |

Data Source: US Census Bureau, Census 2021 population estimates as of July 1, 2021.

Table PC3. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2021

| Months       | Number        |               |               |               | Average Per Day |            |            |               |
|--------------|---------------|---------------|---------------|---------------|-----------------|------------|------------|---------------|
|              | Marriages*    | Births        | Deaths        | Infant Deaths | Marriages       | Births     | Deaths     | Infant Deaths |
| January      | 2,868         | 7,040         | 6,817         | 31            | 93              | 227        | 220        | 1.0           |
| February     | 2,878         | 7,156         | 6,282         | 35            | 103             | 256        | 224        | 1.3           |
| March        | 3,448         | 8,295         | 6,272         | 34            | 111             | 268        | 202        | 1.1           |
| April        | 3,361         | 8,098         | 5,344         | 27            | 112             | 270        | 178        | 0.9           |
| May          | 3,089         | 8,148         | 4,889         | 28            | 100             | 263        | 158        | 0.9           |
| June         | 3,576         | 8,578         | 4,373         | 34            | 119             | 286        | 146        | 1.1           |
| July         | 3,453         | 8,754         | 4,386         | 31            | 111             | 282        | 141        | 1.0           |
| August       | 3,735         | 8,956         | 4,862         | 45            | 120             | 289        | 157        | 1.5           |
| September    | 3,989         | 8,634         | 4,819         | 31            | 133             | 288        | 161        | 1.0           |
| October      | 3,698         | 8,710         | 4,908         | 34            | 119             | 281        | 158        | 1.1           |
| November     | 3,681         | 8,403         | 4,937         | 32            | 123             | 280        | 165        | 1.1           |
| December     | 3,866         | 8,490         | 5,662         | 38            | 125             | 274        | 183        | 1.2           |
| <b>Total</b> | <b>41,642</b> | <b>99,262</b> | <b>63,551</b> | <b>400</b>    | <b>114</b>      | <b>272</b> | <b>174</b> | <b>1.1</b>    |

\* See Technical Notes: Births, Mother's Marital Status.

# PREGNANCY OUTCOMES

Table PO1. Live Births by Borough of Birth\* and Institution, New York City, 2021

| Borough and Institution                                  | Births        |
|--|---------------|
| <b>Manhattan</b>   |               |
| Bellevue Hospital Center                                 | 1,179         |
| Harlem Hospital Center                                   | 575           |
| Jazz Birth Center of Manhattan                           | 147           |
| Lenox Health Greenwich Village                           | 1             |
| Lenox Hill Hospital                                      | 4,167         |
| Metropolitan Hospital Center                             | 886           |
| Mount Sinai Hospital                                     | 7,043         |
| Mount Sinai St. Luke's                                   | 1             |
| Mount Sinai West   | 4,201         |
| New York-Presbyterian/Columbia University Medical Center | 4,481         |
| New York Weill Cornell Medical Center                    | 7,461         |
| New York-Presbyterian/Lower Manhattan Hospital           | 1,871         |
| New York-Presbyterian/The Allen Hospital                 | 2,092         |
| NYU Langone - Tisch Hospital                             | 5,315         |
| Home†  | 106           |
| Places other than a hospital or home‡                    | 33            |
| <b>Bronx</b>   |               |
| Bronxcare Health Systems                                 | 1,722         |
| Jack D. Weiler Hospital                                  | 3,248         |
| Jacobi Medical Center                                    | 1,705         |
| Lincoln Medical and Mental Health Center                 | 1,456         |
| Montefiore Medical Center - Henry & Lucy Moses Division  | 1             |
| Montefiore Medical Center - Wakefield Division           | 1,250         |
| North Central Bronx Hospital                             | 1,036         |
| St. Barnabas Hospital                                    | 656           |
| Home†  | 112           |
| Places other than a hospital or home‡                    | 12            |
| <b>Brooklyn</b>  |               |
| Brookdale University Hospital and Medical Center         | 616           |
| Brooklyn Birthing Center                                 | 23            |
| Brooklyn Hospital Center                                 | 1,511         |
| Coney Island Hospital                                    | 1,087         |
| Interfaith Medical Center                                | 1             |
| Kings County Hospital Center                             | 1,230         |
| Maimonides Medical Center                                | 6,632         |
| New York Community Hospital                              | 1             |
| New York-Presbyterian/Brooklyn Methodist Hospital        | 4,666         |
| NYU Lutheran Medical Center                              | 3,816         |
| The Birthing Center of NYS                               | 2             |
| University Hospital of Brooklyn                          | 815           |
| Woodhull Medical and Mental Health Center                | 1,254         |
| Wyckoff Heights Medical Center                           | 1,017         |
| Home†  | 496           |
| Places other than a hospital or home‡                    | 50            |
| <b>Queens</b>  |               |
| Elmhurst Hospital Center                                 | 1,778         |
| Flushing Hospital Medical Center                         | 2,333         |
| Jamaica Hospital Medical Center                          | 1,485         |
| Long Island Jewish Forest Hills                          | 1,943         |
| Long Island Jewish Medical Center                        | 7,730         |
| Mount Sinai Queens                                       | 4             |
| New York-Presbyterian/Queens Medical Center              | 2,789         |
| Queens Hospital Center                                   | 1,167         |
| St. John's Episcopal Hospital South Shore                | 388           |
| Home†  | 127           |
| Places other than a hospital or home‡                    | 14            |
| <b>Staten Island</b>                                     |               |
| Richmond University Medical Center                       | 2,733         |
| Staten Island University Hospital                        | 2,765         |
| Home†  | 29            |
| Places other than a hospital or home‡                    | 3             |
| <b>New York City Total</b>                               | <b>99,262</b> |

\* Live births are presented by borough of birth beginning in 2010; in prior years, they were reported by borough of report.

† See Technical Notes: Geographical Units, Birthplace Presentation.

‡ Places other than a hospital or home include ambulances, taxis, and airplanes.

§ New birth center opened in 2017. In the 2017 Summary, the 3 births at this center were categorized into "Home" birth.

# PREGNANCY OUTCOMES

Table PO2. Live Births by Mother's Ancestry\* and Borough of Residence, New York City, 2021

| Mother's Ancestry                       | Borough of Residence |               |               |               |               |               |               |          |
|---|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|
|   | Total                | Manhattan     | Bronx         | Brooklyn      | Queens        | Staten Island | Non-Residents | Unknown  |
| <b>Total</b>                            | <b>99,262</b>        | <b>13,599</b> | <b>15,634</b> | <b>32,683</b> | <b>19,867</b> | <b>4,963</b>  | <b>12,513</b> | <b>3</b> |
| <b>Hispanic/Latino</b>                  |                      |               |               |               |               |               |               |          |
| Colombian                               | 965                  | 110           | 54            | 114           | 542           | 35            | 110           | -        |
| Cuban                                   | 289                  | 78            | 47            | 58            | 45            | 22            | 39            | -        |
| Dominican                               | 9,264                | 1,503         | 4,559         | 1,162         | 1,247         | 115           | 678           | -        |
| Ecuadorian                              | 2,799                | 141           | 348           | 476           | 1,637         | 43            | 154           | -        |
| Mexican                                 | 3,957                | 381           | 949           | 1,147         | 1,029         | 302           | 149           | -        |
| Puerto Rican                            | 4,826                | 571           | 1,840         | 1,026         | 584           | 444           | 361           | -        |
| Other Hispanic/Latino                   | 6,562                | 857           | 1,577         | 1,503         | 1,721         | 202           | 702           | -        |
| <b>North American and the Caribbean</b> |                      |               |               |               |               |               |               |          |
| African-American                        | 10,892               | 1,055         | 2,502         | 4,418         | 1,691         | 334           | 892           | -        |
| American                                | 11,451               | 2,208         | 195           | 4,660         | 1,186         | 1,099         | 2,102         | 1        |
| Guyanese                                | 1,388                | 11            | 91            | 328           | 848           | 12            | 98            | -        |
| Haitian                                 | 1,016                | 37            | 35            | 588           | 199           | 10            | 147           | -        |
| Jamaican                                | 1,345                | 46            | 303           | 443           | 360           | 12            | 181           | -        |
| Trinidadian                             | 386                  | 9             | 20            | 169           | 144           | 8             | 36            | -        |
| Other North American and Caribbean      | 1,007                | 160           | 90            | 426           | 191           | 18            | 122           | -        |
| <b>African</b>                          |                      |               |               |               |               |               |               |          |
| Egyptian                                | 409                  | 29            | 11            | 109           | 132           | 88            | 40            | -        |
| Ghanaian                                | 417                  | 11            | 315           | 24            | 20            | 20            | 27            | -        |
| Nigerian                                | 399                  | 19            | 89            | 102           | 101           | 50            | 38            | -        |
| Other African                           | 1,634                | 259           | 746           | 300           | 188           | 64            | 77            | -        |
| <b>European</b>                         |                      |               |               |               |               |               |               |          |
| English                                 | 867                  | 277           | 25            | 239           | 60            | 10            | 256           | -        |
| German                                  | 407                  | 139           | 6             | 122           | 39            | 14            | 87            | -        |
| Irish                                   | 1,014                | 228           | 24            | 214           | 156           | 79            | 313           | -        |
| Italian                                 | 2,110                | 300           | 51            | 400           | 241           | 504           | 614           | -        |
| Polish                                  | 559                  | 86            | 5             | 165           | 162           | 43            | 98            | -        |
| Russian                                 | 934                  | 153           | 20            | 414           | 136           | 80            | 131           | -        |
| Other European                          | 3,594                | 612           | 205           | 1,389         | 558           | 320           | 510           | -        |
| <b>Asian</b>                            |                      |               |               |               |               |               |               |          |
| Asian Indian                            | 1,578                | 290           | 45            | 150           | 562           | 49            | 482           | -        |
| Bangladeshi                             | 2,484                | 37            | 551           | 459           | 1,355         | 17            | 65            | -        |
| Chinese                                 | 5,065                | 624           | 38            | 1,719         | 1,799         | 332           | 553           | -        |
| Filipino                                | 625                  | 74            | 29            | 92            | 273           | 37            | 120           | -        |
| Korean                                  | 647                  | 220           | 5             | 127           | 170           | 8             | 117           | -        |
| Pakistani                               | 1,390                | 65            | 62            | 560           | 339           | 118           | 246           | -        |
| Other Asian                             | 5,369                | 749           | 404           | 2,115         | 1,345         | 269           | 487           | -        |
| <b>Other</b>                            |                      |               |               |               |               |               |               |          |
| Jewish or Hebrew                        | 4,329                | 302           | 25            | 3,258         | 184           | 72            | 488           | -        |
| Other or not stated                     | 9,284                | 1,958         | 368           | 4,207         | 623           | 133           | 1,993         | 2        |

\*See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

# PREGNANCY OUTCOMES

Table PO3. Live Births by Mother's Racial/Ethnic Group and Age, New York City, 2021

|  | Total         | Age of Mother (Years) |              |               |               |               |               |              |
|--|---------------|-----------------------|--------------|---------------|---------------|---------------|---------------|--------------|
|  |               | <18                   | 18-19        | 20-24         | 25-29         | 30-34         | 35-39         | ≥40          |
| <b>Total</b>                                 | <b>99,262</b> | <b>512</b>            | <b>1,619</b> | <b>13,177</b> | <b>22,231</b> | <b>32,187</b> | <b>22,719</b> | <b>6,817</b> |
| Puerto Rican                                 | 4,826         | 54                    | 170          | 980           | 1,361         | 1,317         | 719           | 225          |
| Hispanic/Latino not of Puerto Rican ancestry | 23,836        | 276                   | 775          | 4,134         | 6,400         | 6,664         | 4,240         | 1,347        |
| Asian and Pacific Islander                   | 14,927        | 4                     | 49           | 983           | 3,141         | 5,927         | 3,836         | 987          |
| Non-Hispanic/Latino White                    | 36,023        | 25                    | 219          | 4,254         | 6,447         | 12,492        | 9,788         | 2,798        |
| Non-Hispanic/Latino Black                    | 17,608        | 145                   | 387          | 2,592         | 4,482         | 5,137         | 3,571         | 1,294        |
| Non-Hispanic/Latino Other                    | 642           | 1                     | 9            | 93            | 143           | 192           | 158           | 46           |
| Non-Hispanic/Latino of two or more races     | 1,008         | 5                     | 4            | 80            | 168           | 343           | 319           | 89           |
| Not stated                                   | 392           | 2                     | 6            | 61            | 89            | 115           | 88            | 31           |

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2021

|  | Total         | Age Group (Years) |              |               |               |               |               |              |
|--|---------------|-------------------|--------------|---------------|---------------|---------------|---------------|--------------|
|  |               | <18               | 18-19        | 20-24         | 25-29         | 30-34         | 35-39         | ≥40          |
| <b>Total Live Births</b>                   | <b>99,262</b> | <b>512</b>        | <b>1,619</b> | <b>13,177</b> | <b>22,231</b> | <b>32,187</b> | <b>22,719</b> | <b>6,817</b> |
| <b>Sex</b>                                 |               |                   |              |               |               |               |               |              |
| Male                                       | 50,614        | 286               | 842          | 6,793         | 11,383        | 16,415        | 11,554        | 3,341        |
| Female                                     | 48,648        | 226               | 777          | 6,384         | 10,848        | 15,772        | 11,165        | 3,476        |
| <b>First Live Birth</b>                    |               |                   |              |               |               |               |               |              |
| Yes  | 41,673        | 480               | 1,412        | 8,161         | 9,375         | 13,127        | 7,194         | 1,924        |
| No   | 57,517        | 31                | 207          | 5,000         | 12,831        | 19,043        | 15,515        | 4,890        |
| Unknown                                    | 72            | 1                 | -            | 16            | 25            | 17            | 10            | 3            |
| <b>Pre-pregnancy Body Mass Index (BMI)</b> |               |                   |              |               |               |               |               |              |
| Underweight (BMI<18.5)                     | 4,172         | 45                | 135          | 847           | 959           | 1,262         | 751           | 173          |
| Normal weight (18.5≤BMI<25)                | 48,070        | 271               | 841          | 6,423         | 9,973         | 16,116        | 11,270        | 3,176        |
| Overweight (25≤BMI<30)                     | 26,037        | 117               | 352          | 3,250         | 6,141         | 8,174         | 6,075         | 1,928        |
| Obese (BMI≥30)                             | 20,282        | 72                | 274          | 2,524         | 4,981         | 6,457         | 4,488         | 1,486        |
| Unknown                                    | 701           | 7                 | 17           | 133           | 177           | 178           | 135           | 54           |
| <b>Birthweight at Delivery (Grams)</b>     |               |                   |              |               |               |               |               |              |
| <1500                                      | 1,469         | 7                 | 28           | 173           | 302           | 477           | 337           | 145          |
| 1500-2499                                  | 7,566         | 48                | 138          | 1,004         | 1,711         | 2,259         | 1,800         | 606          |
| 2500-3999                                  | 84,552        | 444               | 1,405        | 11,392        | 19,008        | 27,530        | 19,114        | 5,659        |
| ≥4000                                      | 5,652         | 13                | 48           | 606           | 1,200         | 1,915         | 1,465         | 405          |
| Not Stated                                 | 23            | -                 | -            | 2             | 10            | 6             | 3             | 2            |
| <b>Gestational Age (Weeks)*</b>            |               |                   |              |               |               |               |               |              |
| <32  | 1,513         | 9                 | 33           | 185           | 315           | 485           | 339           | 147          |
| 32-36                                      | 8,421         | 50                | 144          | 951           | 1,731         | 2,621         | 2,130         | 794          |
| ≥37  | 89,307        | 453               | 1,442        | 12,038        | 20,177        | 29,076        | 20,247        | 5,874        |
| Unknown                                    | 21            | -                 | -            | 3             | 8             | 5             | 3             | 2            |
| <b>Plurality</b>                           |               |                   |              |               |               |               |               |              |
| Single                                     | 96,058        | 506               | 1,597        | 12,885        | 21,553        | 31,130        | 21,840        | 6,547        |
| Twin                                       | 3,098         | 6                 | 22           | 289           | 655           | 1,012         | 864           | 250          |
| Triplet                                    | 102           | -                 | -            | 3             | 23            | 45            | 15            | 16           |
| Quadruplet                                 | 4             | -                 | -            | -             | -             | -             | -             | 4            |
| <b>Apgar Score at 5 Minutes</b>            |               |                   |              |               |               |               |               |              |
| ≤6   | 976           | 10                | 19           | 129           | 216           | 298           | 224           | 80           |
| 7  | 1,004         | 5                 | 15           | 133           | 206           | 337           | 220           | 88           |
| 8  | 5,500         | 28                | 91           | 610           | 1,122         | 1,777         | 1,387         | 485          |
| 9  | 90,990        | 463               | 1,477        | 12,217        | 20,482        | 29,530        | 20,712        | 6,109        |
| 10   | 532           | 3                 | 13           | 57            | 131           | 165           | 121           | 42           |
| Not Stated                                 | 260           | 3                 | 4            | 31            | 74            | 80            | 55            | 13           |

Table continued on following page

# PREGNANCY OUTCOMES

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2021 [CONTINUED]

|   | Age Group (Years) |            |              |               |               |               |               |              |
|---|-------------------|------------|--------------|---------------|---------------|---------------|---------------|--------------|
|   | Total             | <18        | 18-19        | 20-24         | 25-29         | 30-34         | 35-39         | ≥40          |
| <b>Total Live Births</b>                        | <b>99,262</b>     | <b>512</b> | <b>1,619</b> | <b>13,177</b> | <b>22,231</b> | <b>32,187</b> | <b>22,719</b> | <b>6,817</b> |
| <b>Method of Delivery</b>                       |                   |            |              |               |               |               |               |              |
| Vaginal   | 63,958            | 431        | 1,320        | 10,096        | 15,342        | 20,558        | 12,940        | 3,271        |
| Vaginal after any prior C-section               | 2,737             | 2          | 9            | 218           | 611           | 915           | 745           | 237          |
| Primary C-section                               | 19,100            | 78         | 263          | 2,226         | 3,923         | 6,168         | 4,684         | 1,758        |
| Low Risk <sup>†</sup>                           | 10,146            | 56         | 173          | 1,426         | 2,221         | 3,299         | 2,192         | 779          |
| Other   | 8,954             | 22         | 90           | 800           | 1,702         | 2,869         | 2,492         | 979          |
| Repeat C-section                                | 13,450            | 1          | 27           | 635           | 2,348         | 4,542         | 4,348         | 1,549        |
| Unknown   | 17                | -          | -            | 2             | 7             | 4             | 2             | 2            |
| <b>Attendant</b>                                |                   |            |              |               |               |               |               |              |
| Physician                                       | 90,532            | 416        | 1,364        | 11,324        | 19,903        | 29,859        | 21,223        | 6,443        |
| Certified nurse midwife                         | 8,122             | 92         | 243          | 1,758         | 2,154         | 2,141         | 1,387         | 347          |
| Other   | 608               | 4          | 12           | 95            | 174           | 187           | 109           | 27           |
| <b>Primary Payer for this Birth<sup>‡</sup></b> |                   |            |              |               |               |               |               |              |
| Medicaid  | 54,558            | 435        | 1,433        | 10,721        | 15,609        | 14,871        | 8,730         | 2,759        |
| Private   | 42,538            | 43         | 142          | 2,105         | 6,070         | 16,698        | 13,559        | 3,921        |
| Self-pay  | 469               | 5          | 7            | 80            | 112           | 141           | 99            | 25           |
| Other   | 1,474             | 27         | 27           | 223           | 389           | 419           | 289           | 100          |
| Not Stated                                      | 223               | 2          | 10           | 48            | 51            | 58            | 42            | 12           |
| <b>First Visit for Prenatal Care</b>            |                   |            |              |               |               |               |               |              |
| First trimester (1-3 months)                    | 71,162            | 202        | 835          | 8,278         | 15,230        | 24,136        | 17,368        | 5,113        |
| Second trimester (4-6 months)                   | 17,992            | 163        | 455          | 3,049         | 4,379         | 5,256         | 3,543         | 1,147        |
| Third trimester (7-9 months)                    | 5,760             | 91         | 202          | 1,033         | 1,490         | 1,584         | 1,042         | 318          |
| No care   | 1,041             | 20         | 37           | 218           | 260           | 278           | 184           | 44           |
| Not Stated                                      | 3,307             | 36         | 90           | 599           | 872           | 933           | 582           | 195          |
| <b>Marital Status<sup>§</sup></b>               |                   |            |              |               |               |               |               |              |
| Not married                                     | 37,242            | 504        | 1,370        | 7,378         | 10,046        | 9,738         | 6,015         | 2,191        |
| Married   | 62,020            | 8          | 249          | 5,799         | 12,185        | 22,449        | 16,704        | 4,626        |
| <b>Education Level</b>                          |                   |            |              |               |               |               |               |              |
| 11th grade or less/12th grade, no diploma       | 13,058            | 448        | 686          | 2,496         | 3,059         | 3,225         | 2,309         | 835          |
| High school graduate or GED                     | 23,239            | 58         | 710          | 5,837         | 6,640         | 5,525         | 3,363         | 1,106        |
| Some college/associate degree                   | 20,433            | 2          | 206          | 3,502         | 6,060         | 6,106         | 3,507         | 1,050        |
| Bachelor's degree                               | 22,543            | -          | 2            | 1,018         | 4,317         | 9,095         | 6,361         | 1,750        |
| Master's degree or higher                       | 19,432            | -          | -            | 230           | 2,015         | 8,085         | 7,069         | 2,033        |
| Not Stated                                      | 557               | 4          | 15           | 94            | 140           | 151           | 110           | 43           |
| <b>Birthplace<sup>  </sup></b>                  |                   |            |              |               |               |               |               |              |
| United States, including its territories        | 53,193            | 338        | 1,005        | 8,267         | 11,718        | 16,927        | 11,687        | 3,251        |
| Foreign-born                                    | 45,974            | 172        | 607          | 4,896         | 10,482        | 15,242        | 11,014        | 3,561        |
| Not Stated                                      | 95                | 2          | 7            | 14            | 31            | 18            | 18            | 5            |

\* See Technical Notes: Births, Gestational Age.

† Low Risk: Primiparous, Full-term, Singleton, and Vertex/Cephalic (head-first).

‡ See Technical Notes: Births, Birth Reporting.

§ See Technical Notes: Births, Mother's Marital Status.

|| See Technical Notes: Geographical Units, Birthplace Presentation.



# PREGNANCY OUTCOMES

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2021

|  | Racial/Ethnic Group* |                           |  |                                |                         |                                      |                                      |  | Not Stated |
|--|----------------------|---------------------------|--|--------------------------------|-------------------------|--------------------------------------|--------------------------------------|--|------------|
|  | Total                | Hispanic/<br>Puerto Rican | Hispanic/<br>Latino not of<br>Puerto Rican<br>ancestry | Asian &<br>Pacific<br>Islander | Non-<br>Latino<br>White | Non-<br>Hispanic/<br>Latino<br>Black | Non-<br>Hispanic/<br>Latino<br>Other | Non-<br>Hispanic/<br>Latino<br>Two or<br>More<br>Races |            |
| <b>Total Live Births</b>               | <b>99,262</b>        | <b>4,826</b>              | <b>23,836</b>  | <b>14,927</b>                  | <b>36,023</b>           | <b>17,608</b>                        | <b>642</b>                           | <b>1,008</b>   | <b>392</b> |
| <b>Sex</b>                             |                      |                           |  |                                |                         |                                      |                                      |  |            |
| Male                                   | 50,614               | 2,417                     | 12,102   | 7,680                          | 18,446                  | 8,950                                | 313                                  | 498  | 208        |
| Female                                 | 48,648               | 2,409                     | 11,734   | 7,247                          | 17,577                  | 8,658                                | 329                                  | 510  | 184        |
| <b>First Live Birth</b>                |                      |                           |  |                                |                         |                                      |                                      |  |            |
| Yes                                    | 41,673               | 1,959                     | 9,372  | 7,024                          | 15,264                  | 7,108                                | 280                                  | 527  | 139        |
| No                                     | 57,517               | 2,865                     | 14,453   | 7,901                          | 20,733                  | 10,488                               | 362                                  | 481  | 234        |
| Unknown                                | 72                   | 2                         | 11   | 2                              | 26                      | 12                                   | -                                    | -  | 19         |
| <b>Pre-pregnancy Body Mass Index</b>   |                      |                           |  |                                |                         |                                      |                                      |  |            |
| Underweight (BMI<18.5)                 | 4,172                | 158                       | 508  | 1,094                          | 1,816                   | 502                                  | 33                                   | 45   | 16         |
| Normal weight (18.5≤BMI<25)            | 48,070               | 1,551                     | 8,751  | 9,070                          | 22,234                  | 5,474                                | 286                                  | 545  | 159        |
| Overweight (25≤BMI<30)                 | 26,037               | 1,370                     | 7,947  | 3,343                          | 7,579                   | 5,307                                | 179                                  | 226  | 86         |
| Obese (BMI≥30)                         | 20,282               | 1,717                     | 6,430  | 1,377                          | 4,212                   | 6,160                                | 137                                  | 188  | 61         |
| Unknown                                | 701                  | 30                        | 200  | 43                             | 182                     | 165                                  | 7                                    | 4  | 70         |
| <b>Birthweight at Delivery (Grams)</b> |                      |                           |  |                                |                         |                                      |                                      |  |            |
| <1500                                  | 1,469                | 89                        | 330  | 186                            | 267                     | 554                                  | 16                                   | 18   | 9          |
| 1500-2499                              | 7,566                | 444                       | 1,674  | 1,305                          | 2,001                   | 1,953                                | 72                                   | 83   | 34         |
| 2500-3999                              | 84,552               | 4,043                     | 20,357   | 12,970                         | 31,142                  | 14,339                               | 528                                  | 856  | 317        |
| ≥4000                                  | 5,652                | 250                       | 1,473  | 466                            | 2,611                   | 761                                  | 25                                   | 51   | 15         |
| Not stated                             | 23                   | -                         | 2  | -                              | 2                       | 1                                    | 1                                    | -  | 17         |
| <b>Gestational Age (Weeks)†</b>        |                      |                           |  |                                |                         |                                      |                                      |  |            |
| <32                                    | 1,513                | 93                        | 344  | 189                            | 289                     | 559                                  | 14                                   | 16   | 9          |
| 32-36                                  | 8,421                | 534                       | 2,138  | 1,197                          | 2,370                   | 2,018                                | 67                                   | 64   | 33         |
| ≥37                                    | 89,307               | 4,198                     | 21,354   | 13,541                         | 33,362                  | 15,030                               | 561                                  | 928  | 333        |
| Unknown                                | 21                   | 1                         | -  | -                              | 2                       | 1                                    | -                                    | -  | 17         |
| <b>Plurality</b>                       |                      |                           |  |                                |                         |                                      |                                      |  |            |
| Single                                 | 96,058               | 4,658                     | 23,224   | 14,536                         | 34,795                  | 16,880                               | 615                                  | 975  | 375        |
| Twin                                   | 3,098                | 162                       | 594  | 388                            | 1,185                   | 695                                  | 24                                   | 33   | 17         |
| Triplet                                | 102                  | 6                         | 18   | 3                              | 43                      | 29                                   | 3                                    | -  | -          |
| Quadruplet                             | 4                    | -                         | -  | -                              | -                       | 4                                    | -                                    | -  | -          |
| <b>Apgar Score at 5 Minutes</b>        |                      |                           |  |                                |                         |                                      |                                      |  |            |
| ≤6                                     | 976                  | 61                        | 223  | 97                             | 247                     | 326                                  | 6                                    | 9  | 7          |
| 7                                      | 1,004                | 63                        | 214  | 108                            | 276                     | 317                                  | 11                                   | 11   | 4          |
| 8                                      | 5,500                | 312                       | 1,200  | 752                            | 1,744                   | 1,363                                | 46                                   | 51   | 32         |
| 9                                      | 90,990               | 4,343                     | 22,033   | 13,888                         | 33,461                  | 15,435                               | 575                                  | 931  | 324        |
| 10                                     | 532                  | 32                        | 111  | 67                             | 224                     | 86                                   | 3                                    | 4  | 5          |
| Not stated                             | 260                  | 15                        | 55   | 15                             | 71                      | 81                                   | 1                                    | 2  | 20         |
| <b>Method of Delivery</b>              |                      |                           |  |                                |                         |                                      |                                      |  |            |
| Vaginal                                | 63,958               | 3,004                     | 14,734   | 9,387                          | 25,218                  | 10,295                               | 401                                  | 667  | 252        |
| Vaginal after any prior C-section      | 2,737                | 137                       | 646  | 315                            | 1,115                   | 470                                  | 21                                   | 20   | 13         |
| Primary C-section                      | 19,100               | 995                       | 4,507  | 2,960                          | 6,083                   | 4,121                                | 146                                  | 219  | 69         |
| Low Risk                               | 10,146               | 532                       | 2,384  | 1,734                          | 3,270                   | 1,969                                | 88                                   | 136  | 33         |
| Other                                  | 8,954                | 463                       | 2,123  | 1,226                          | 2,813                   | 2,152                                | 58                                   | 83   | 36         |
| Repeat C-section                       | 13,450               | 690                       | 3,949  | 2,265                          | 3,607                   | 2,722                                | 74                                   | 102  | 41         |
| Unknown                                | 17                   | -                         | -  | -                              | -                       | -                                    | -                                    | -  | 17         |

Table continued on following page

# PREGNANCY OUTCOMES

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2021 [CONTINUED]

|   | Racial/Ethnic Group* |              |  |                          |                    |                    |                    |                                       | Not Stated |
|---|----------------------|--------------|--|--------------------------|--------------------|--------------------|--------------------|---------------------------------------|------------|
|   | Total                | Puerto Rican | Hispanic/Latino not of Puerto Rican ancestry | Asian & Pacific Islander | Non-Hispanic/White | Non-Hispanic/Black | Non-Hispanic/Other | Non-Hispanic/Latino Two or More Races |            |
| <b>Attendant</b>  |                      |              |  |                          |                    |                    |                    |                                       |            |
| Physician   | 90,532               | 4,334        | 21,325                                       | 14,350                   | 32,822             | 15,829             | 605                | 938                                   | 329        |
| Certified nurse midwife   | 8,122                | 463          | 2,339  | 532                      | 3,034              | 1,622              | 28                 | 64                                    | 40         |
| Other   | 608                  | 29           | 172  | 45                       | 167                | 157                | 9                  | 6                                     | 23         |
| <b>Primary Payer for this Births</b>                              |                      |              |  |                          |                    |                    |                    |                                       |            |
| Medicaid  | 54,558               | 3,164        | 17,954                                       | 7,587                    | 13,511             | 11,469             | 356                | 306                                   | 211        |
| Private   | 42,538               | 1,496        | 5,340  | 7,109                    | 21,923             | 5,570              | 270                | 683                                   | 147        |
| Self-pay  | 469                  | 23           | 100  | 59                       | 122                | 149                | 3                  | 7                                     | 6          |
| Other   | 1,474                | 131          | 376  | 157                      | 440                | 339                | 12                 | 11                                    | 8          |
| Not stated  | 223                  | 12           | 66   | 15                       | 27                 | 81                 | 1                  | 1                                     | 20         |
| <b>First Visit for Prenatal Care</b>                              |                      |              |  |                          |                    |                    |                    |                                       |            |
| First trimester (1-3 months)                                      | 71,162               | 3,321        | 15,233                                       | 11,493                   | 28,621             | 11,083             | 438                | 751                                   | 222        |
| Second trimester (4-6 months)                                     | 17,992               | 982          | 5,508  | 2,292                    | 4,811              | 4,005              | 144                | 168                                   | 82         |
| Third trimester (7-9 months)                                      | 5,760                | 266          | 1,938  | 658                      | 1,250              | 1,553              | 32                 | 41                                    | 22         |
| No care   | 1,041                | 77           | 239  | 100                      | 299                | 282                | 10                 | 7                                     | 27         |
| Not stated  | 3,307                | 180          | 918  | 384                      | 1,042              | 685                | 18                 | 41                                    | 39         |
| <b>Marital Status  </b>   |                      |              |  |                          |                    |                    |                    |                                       |            |
| Not married   | 37,242               | 3,602        | 14,749                                       | 2,311                    | 4,074              | 11,831             | 182                | 337                                   | 156        |
| Married   | 62,020               | 1,224        | 9,087  | 12,616                   | 31,949             | 5,777              | 460                | 671                                   | 236        |
| <b>Education Level</b>  |                      |              |  |                          |                    |                    |                    |                                       |            |
| 11 <sup>th</sup> grade or less/12 <sup>th</sup> grade, no diploma | 13,058               | 875          | 5,914  | 1,795                    | 2,285              | 2,031              | 71                 | 47                                    | 40         |
| High school graduate or GED                                       | 23,239               | 1,398        | 6,252  | 2,535                    | 7,582              | 5,103              | 187                | 126                                   | 56         |
| Some college/associate degree                                     | 20,433               | 1,597        | 6,346  | 2,363                    | 4,250              | 5,490              | 130                | 205                                   | 52         |
| Bachelor's degree   | 22,543               | 608          | 3,485  | 4,404                    | 10,423             | 3,108              | 150                | 307                                   | 58         |
| Master's degree or higher   | 19,432               | 344          | 1,729  | 3,795                    | 11,309             | 1,780              | 97                 | 321                                   | 57         |
| Not stated  | 557                  | 4            | 110  | 35                       | 174                | 96                 | 7                  | 2                                     | 129        |
| <b>Birthplace¶</b>  |                      |              |  |                          |                    |                    |                    |                                       |            |
| United States, including territories                              | 53,193               | 4,801        | 8,424  | 2,538                    | 25,766             | 10,400             | 281                | 768                                   | 215        |
| Foreign-born  | 45,974               | 23           | 15,397                                       | 12,388                   | 10,242             | 7,187              | 361                | 240                                   | 136        |
| Not stated  | 95                   | 2            | 15   | 1                        | 15                 | 21                 | -                  | -                                     | 41         |

\* See Technical Notes: Demographic Characteristics of Vital Events, Race, Ancestry and Ethnic Group.

† See Technical Notes: Births, Gestational Age.

‡ Low Risk: Primiparous, Full-term, Singleton, and Vertex/Cephalic (head-first).

§ See Technical Notes: Births, Birth Reporting.

|| See Technical Notes: Mother's Marital Status.

¶ See Technical Notes: Geographical Units, Birthplace Presentation.

# PREGNANCY OUTCOMES

Table PO6. Live Births by Selected Characteristics and Mother's Ancestry, New York City, 2021

| Mother's Ancestry                      | Percent of Total Live Births with Specified Characteristics |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
|--|---|---------------|------------------|---------------------------------|----------------------------|--------------------------|-------------|--------------|-----------------------|-----------------------|--------------------------|
|  | Live Births   | Foreign-Born* | First Live Birth | Low Birth Weight (<2,500 Grams) | Preterm Birth (<37 Weeks)† | Late or No Prenatal Care | Not Married | On Medicaid‡ | Pre-pregnancy Obesity | Teen-aged (<20 Years) | Exclusive Breast Feeding |
| <b>Total</b>                           | <b>99,262</b>   | <b>46.4</b>   | <b>42.0</b>      | <b>9.1</b>                      | <b>10.0</b>                | <b>7.1</b>               | <b>37.5</b> | <b>55.1</b>  | <b>20.6</b>           | <b>2.1</b>            | <b>42.4</b>              |
| <b>Hispanic/Latino</b>                 |   |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
| Colombian                              | 965   | 68.9          | 54.6             | 7.5                             | 9.2                        | 8.4                      | 49.9        | 56.7         | 17.3                  | 0.9                   | 51.8                     |
| Cuban                                  | 289   | 18.3          | 56.4             | 10.4                            | 9.0                        | 5.0                      | 39.4        | 36.5         | 20.1                  | 1.7                   | 52.2                     |
| Dominican                              | 9,264   | 69.3          | 41.3             | 8.6                             | 10.4                       | 10.6                     | 62.1        | 77.2         | 28.3                  | 4.3                   | 26.9                     |
| Ecuadorian                             | 2,799   | 81.2          | 35.6             | 7.0                             | 9.1                        | 12.7                     | 56.7        | 82.5         | 21.3                  | 5.3                   | 46.4                     |
| Mexican                                | 3,957   | 62.8          | 31.8             | 7.7                             | 9.8                        | 6.9                      | 66.4        | 84.1         | 29.1                  | 4.9                   | 38.0                     |
| Puerto Rican                           | 4,826   | 0.5           | 40.6             | 11.0                            | 13.0                       | 7.4                      | 74.6        | 65.7         | 35.8                  | 4.6                   | 33.3                     |
| Other Hispanic/Latino                  | 6,562   | 53.4          | 39.7             | 9.2                             | 11.5                       | 8.5                      | 63.7        | 69.5         | 28.8                  | 4.5                   | 38.8                     |
| <b>North America and the Caribbean</b> |   |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
| African-American                       | 10,892  | 15.6          | 42.2             | 14.9                            | 15.3                       | 8.5                      | 76.2        | 65.4         | 36.7                  | 4.1                   | 32.7                     |
| American                               | 11,451  | 4.5           | 44.4             | 7.2                             | 7.6                        | 2.8                      | 14.9        | 31.2         | 12.8                  | 0.6                   | 55.5                     |
| Guyanese                               | 1,388   | 89.3          | 41.9             | 16.8                            | 15.3                       | 10.9                     | 46.3        | 66.9         | 22.0                  | 1.3                   | 36.2                     |
| Haitian                                | 1,016   | 80.9          | 42.0             | 13.1                            | 13.2                       | 13.1                     | 47.1        | 62.0         | 32.0                  | 1.2                   | 29.6                     |
| Jamaican                               | 1,345   | 92.3          | 41.1             | 13.9                            | 16.4                       | 19.4                     | 65.9        | 67.0         | 38.3                  | 2.1                   | 30.7                     |
| Trinidadian                            | 386   | 86.5          | 43.3             | 12.4                            | 11.7                       | 13.1                     | 52.3        | 52.6         | 34.5                  | 1.0                   | 34.8                     |
| Other North America and the Caribbean  | 1,007   | 86.5          | 50.7             | 11.3                            | 12.6                       | 13.4                     | 39.2        | 49.3         | 21.9                  | 1.4                   | 48.1                     |
| <b>African</b>                         |   |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
| Egyptian                               | 409   | 88.3          | 27.9             | 8.6                             | 9.5                        | 15.4                     | 4.9         | 65.5         | 27.0                  | 0.0                   | 43.8                     |
| Ghanaian                               | 417   | 98.8          | 27.3             | 12.7                            | 13.7                       | 14.6                     | 42.9        | 70.8         | 33.9                  | 0.5                   | 30.2                     |
| Nigerian                               | 399   | 92.0          | 33.1             | 13.0                            | 16.0                       | 9.1                      | 31.3        | 60.3         | 31.9                  | 0.0                   | 40.5                     |
| Other African                          | 1,634   | 96.1          | 29.6             | 10.7                            | 9.1                        | 13.4                     | 29.8        | 74.2         | 25.3                  | 0.4                   | 47.6                     |
| <b>European</b>                        |   |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
| English                                | 867   | 31.4          | 54.2             | 10.4                            | 12.3                       | 9.6                      | 13.1        | 11.3         | 8.4                   | 0.1                   | 63.2                     |
| German                                 | 407   | 28.0          | 60.4             | 5.7                             | 9.6                        | 4.7                      | 11.3        | 7.4          | 7.4                   | 0.0                   | 74.0                     |
| Irish                                  | 1,014   | 11.5          | 54.9             | 4.7                             | 6.8                        | 3.8                      | 13.3        | 6.8          | 12.4                  | 0.1                   | 63.2                     |
| Italian                                | 2,110   | 8.2           | 53.7             | 7.8                             | 8.9                        | 2.4                      | 16.8        | 12.5         | 17.6                  | 0.2                   | 50.8                     |
| Polish                                 | 559   | 59.2          | 53.8             | 6.8                             | 8.6                        | 2.9                      | 14.7        | 24.9         | 9.4                   | 0.4                   | 56.3                     |
| Russian                                | 934   | 83.1          | 50.5             | 3.4                             | 5.7                        | 4.0                      | 21.3        | 38.0         | 9.0                   | 0.0                   | 57.0                     |
| Other European                         | 3,594   | 71.5          | 48.5             | 5.7                             | 7.5                        | 5.6                      | 16.7        | 36.8         | 10.2                  | 0.2                   | 56.0                     |
| <b>Asian</b>                           |   |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
| Asian Indian                           | 1,578   | 79.2          | 54.2             | 12.0                            | 10.5                       | 4.3                      | 7.5         | 29.5         | 10.9                  | 0.4                   | 48.7                     |
| Bangladeshi                            | 2,484   | 97.0          | 35.4             | 13.2                            | 10.8                       | 6.1                      | 3.3         | 77.9         | 14.3                  | 0.4                   | 38.9                     |
| Chinese                                | 5,065   | 83.3          | 47.8             | 6.4                             | 6.9                        | 3.3                      | 23.7        | 53.4         | 3.3                   | 0.1                   | 34.9                     |
| Filipino                               | 625   | 71.8          | 57.0             | 10.6                            | 11.8                       | 4.1                      | 21.3        | 25.1         | 11.7                  | 0.2                   | 51.7                     |
| Korean                                 | 647   | 60.1          | 62.3             | 6.6                             | 7.7                        | 3.8                      | 11.1        | 13.0         | 2.9                   | 0.0                   | 57.6                     |
| Pakistani                              | 1,390   | 89.0          | 35.8             | 10.9                            | 9.9                        | 8.5                      | 3.6         | 72.4         | 19.7                  | 0.9                   | 29.6                     |
| Other Asian                            | 5,369   | 85.8          | 38.6             | 6.7                             | 6.7                        | 8.4                      | 12.2        | 58.7         | 10.8                  | 1.6                   | 44.1                     |
| <b>Other</b>                           |   |               |                  |                                 |                            |                          |             |              |                       |                       |                          |
| Jewish or Hebrew                       | 4,329   | 11.2          | 29.4             | 6.1                             | 6.0                        | 3.4                      | 4.7         | 63.7         | 12.2                  | 0.9                   | 39.4                     |
| Other or Not Stated                    | 9,284   | 18.8          | 42.2             | 7.5                             | 8.7                        | 5.1                      | 15.3        | 33.4         | 12.9                  | 0.9                   | 52.5                     |

Note: See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

\* Beginning in 2006, US Virgin Islands and Guam are not included in the Foreign-born category.

† Clinical gestational age <37 completed weeks.

‡ Due to revision of the birth certificate, since 2021 "On Medicaid" excludes Family Health Plus, Other government, and Child Health Plus B.

# PREGNANCY OUTCOMES

Table PO7. Live Births by Selected Characteristics and Community District of Residence, New York City, 2021

| Community District of Residence    | Live Births   | Rate*       | Percent of Total Live Births With Specified Characteristics |                  |                                 |                            |                          |              |                       |                          |
|------------------------------------|---------------|-------------|---|------------------|---------------------------------|----------------------------|--------------------------|--------------|-----------------------|--------------------------|
|                                    |               |             | Foreign-Born†   | First Live Birth | Low Birth-weight (<2,500 Grams) | Preterm Birth (<37 weeks)‡ | Late or No Prenatal Care | On Medicaid§ | Pre-pregnancy Obesity | Exclusive Breast Feeding |
| <b>NEW YORK CITY</b>               | <b>99,262</b> | <b>11.7</b> | <b>46.4</b>   | <b>42.0</b>      | <b>9.1</b>                      | <b>10.0</b>                | <b>7.1</b>               | <b>55.1</b>  | <b>20.6</b>           | <b>42.4</b>              |
| <b>MANHATTAN</b>                   | <b>13,513</b> | <b>8.6</b>  | <b>37.9</b>   | <b>54.2</b>      | <b>8.3</b>                      | <b>9.1</b>                 | <b>7.3</b>               | <b>29.9</b>  | <b>14.3</b>           | <b>56.9</b>              |
| Battery Park, Tribeca (01)         | 852           | 14.7        | 37.0  | 56.1             | 6.9                             | 7.9                        | 3.8                      | 3.6          | 3.3                   | 68.3                     |
| Greenwich Village, SOHO (02)       | 565           | 6.7         | 33.3  | 64.2             | 6.7                             | 7.8                        | 2.7                      | 6.4          | 2.0                   | 74.1                     |
| Lower East Side (03)               | 811           | 4.9         | 36.3  | 49.6             | 8.6                             | 10.0                       | 7.4                      | 45.5         | 18.2                  | 54.6                     |
| Chelsea, Clinton (04)              | 820           | 6.0         | 45.5  | 64.9             | 8.5                             | 8.3                        | 6.7                      | 17.1         | 8.4                   | 62.1                     |
| Midtown Business District (05)     | 470           | 8.2         | 37.4  | 62.3             | 9.1                             | 10.6                       | 6.3                      | 16.8         | 8.5                   | 67.0                     |
| Murray Hill (06)                   | 1,000         | 7.5         | 40.9  | 63.4             | 7.9                             | 7.6                        | 5.7                      | 8.8          | 6.9                   | 70.1                     |
| Upper West Side (07)               | 1,957         | 9.7         | 31.9  | 58.7             | 7.5                             | 8.8                        | 5.1                      | 11.4         | 7.6                   | 64.2                     |
| Upper East Side (08)               | 2,188         | 10.3        | 31.6  | 60.6             | 6.6                             | 6.5                        | 3.9                      | 4.6          | 5.0                   | 70.1                     |
| Manhattanville (09)                | 806           | 7.8         | 46.6  | 46.3             | 10.9                            | 11.3                       | 15.9                     | 63.0         | 26.6                  | 42.6                     |
| Central Harlem (10)                | 1,200         | 10.9        | 35.3  | 40.3             | 10.9                            | 11.8                       | 13.0                     | 55.1         | 29.2                  | 48.1                     |
| East Harlem (11)                   | 1,212         | 10.2        | 35.0  | 42.4             | 9.5                             | 11.4                       | 8.6                      | 60.9         | 28.9                  | 37.6                     |
| Washington Heights (12)            | 1,632         | 8.8         | 50.4  | 47.9             | 8.6                             | 9.9                        | 10.5                     | 65.6         | 24.7                  | 33.6                     |
| <b>BRONX</b>                       | <b>15,720</b> | <b>11.0</b> | <b>54.8</b>   | <b>37.0</b>      | <b>11.1</b>                     | <b>12.0</b>                | <b>11.6</b>              | <b>79.1</b>  | <b>32.1</b>           | <b>28.1</b>              |
| Mott Haven (01)                    | 1,198         | 12.4        | 42.6  | 33.8             | 11.1                            | 12.4                       | 9.5                      | 77.7         | 35.6                  | 36.5                     |
| Hunts Point (02)                   | 699           | 12.7        | 46.1  | 35.3             | 11.0                            | 11.3                       | 13.4                     | 82.8         | 32.3                  | 29.5                     |
| Morrisania (03)                    | 1,171         | 13.1        | 46.8  | 34.8             | 12.7                            | 12.9                       | 11.6                     | 83.9         | 36.2                  | 26.4                     |
| Concourse, Highbridge (04)         | 1,849         | 12.1        | 60.8  | 37.3             | 8.9                             | 10.7                       | 12.0                     | 81.6         | 32.2                  | 28.7                     |
| University/Morris Heights (05)     | 1,610         | 12.1        | 61.0  | 35.0             | 9.0                             | 10.5                       | 15.3                     | 85.7         | 33.0                  | 22.5                     |
| East Tremont (06)                  | 1,058         | 12.4        | 46.0  | 31.3             | 12.1                            | 13.9                       | 12.3                     | 86.0         | 33.7                  | 25.8                     |
| Fordham (07)                       | 1,652         | 11.4        | 64.9  | 39.4             | 10.2                            | 10.6                       | 11.7                     | 82.3         | 29.8                  | 23.9                     |
| Riverdale (08)                     | 933           | 9.2         | 46.7  | 43.7             | 10.9                            | 12.0                       | 7.8                      | 53.4         | 23.4                  | 36.8                     |
| Unionport, Soundview (09)          | 2,121         | 11.6        | 57.7  | 37.4             | 11.4                            | 11.6                       | 10.4                     | 81.5         | 30.5                  | 27.7                     |
| Throgs Neck (10)                   | 861           | 7.2         | 52.1  | 37.8             | 12.3                            | 11.5                       | 8.8                      | 69.1         | 31.3                  | 30.8                     |
| Pelham Parkway (11)                | 1,130         | 9.9         | 59.6  | 37.8             | 9.7                             | 11.0                       | 11.3                     | 74.1         | 31.3                  | 29.6                     |
| Williamsbridge (12)                | 1,438         | 9.4         | 54.5  | 39.2             | 14.8                            | 16.2                       | 13.2                     | 78.7         | 35.2                  | 25.6                     |
| <b>BROOKLYN</b>                    | <b>32,681</b> | <b>12.4</b> | <b>40.3</b>   | <b>39.2</b>      | <b>8.0</b>                      | <b>9.0</b>                 | <b>6.0</b>               | <b>61.2</b>  | <b>19.0</b>           | <b>40.6</b>              |
| Williamsburg, Greenpoint (01)      | 3,529         | 17.6        | 17.2  | 36.5             | 5.1                             | 5.9                        | 4.8                      | 56.6         | 12.8                  | 48.1                     |
| Fort Greene, Brooklyn Heights (02) | 1,528         | 11.3        | 27.3  | 61.8             | 8.1                             | 8.4                        | 3.9                      | 15.3         | 8.9                   | 65.3                     |
| Bedford Stuyvesant (03)            | 2,096         | 14.1        | 21.5  | 40.2             | 8.3                             | 9.4                        | 5.5                      | 62.2         | 21.1                  | 40.8                     |
| Bushwick (04)                      | 995           | 9.1         | 50.7  | 47.4             | 10.4                            | 11.2                       | 10.2                     | 67.5         | 27.7                  | 38.9                     |
| East New York (05)                 | 2,067         | 11.8        | 52.8  | 37.0             | 11.9                            | 14.1                       | 9.1                      | 77.8         | 30.8                  | 32.7                     |
| Park Slope (06)                    | 1,445         | 13.0        | 23.9  | 54.7             | 8.4                             | 8.7                        | 2.6                      | 15.0         | 10.2                  | 68.9                     |
| Sunset Park (07)                   | 1,374         | 10.4        | 60.0  | 43.5             | 7.8                             | 9.5                        | 3.6                      | 65.0         | 15.8                  | 38.6                     |
| Crown Heights North (08)           | 1,084         | 11.4        | 31.5  | 54.1             | 9.4                             | 10.1                       | 5.4                      | 43.2         | 22.0                  | 53.5                     |
| Crown Heights South (09)           | 1,248         | 12.8        | 40.4  | 41.9             | 8.7                             | 9.4                        | 6.3                      | 62.4         | 19.4                  | 51.8                     |
| Bay Ridge (10)                     | 1,278         | 8.8         | 57.2  | 40.8             | 7.0                             | 8.1                        | 4.3                      | 56.5         | 17.0                  | 41.2                     |
| Bensonhurst (11)                   | 1,982         | 9.4         | 74.9  | 37.1             | 7.2                             | 8.3                        | 6.1                      | 73.7         | 17.9                  | 32.9                     |
| Borough Park (12)                  | 4,685         | 22.9        | 22.7  | 26.0             | 5.1                             | 5.7                        | 2.6                      | 77.5         | 12.4                  | 33.0                     |
| Coney Island (13)                  | 985           | 9.0         | 63.1  | 38.7             | 9.9                             | 11.4                       | 11.1                     | 76.1         | 21.2                  | 36.8                     |
| Flatbush, Midwood (14)             | 2,073         | 12.5        | 50.6  | 36.1             | 7.8                             | 8.9                        | 5.5                      | 61.4         | 20.9                  | 37.3                     |
| Sheepshead Bay (15)                | 2,002         | 11.2        | 55.0  | 34.8             | 6.2                             | 7.6                        | 7.1                      | 59.3         | 12.6                  | 41.0                     |
| Brownsville (16)                   | 1,055         | 13.0        | 34.8  | 37.3             | 14.7                            | 15.2                       | 12.0                     | 76.5         | 35.2                  | 22.8                     |
| East Flatbush (17)                 | 1,449         | 9.6         | 56.5  | 42.5             | 11.3                            | 11.7                       | 10.2                     | 67.0         | 31.2                  | 29.1                     |
| Canarsie (18)                      | 1,806         | 9.5         | 46.4  | 38.8             | 10.0                            | 10.9                       | 9.1                      | 57.1         | 29.7                  | 32.0                     |
| <b>QUEENS</b>                      | <b>19,867</b> | <b>8.5</b>  | <b>65.5</b>   | <b>43.1</b>      | <b>9.6</b>                      | <b>10.1</b>                | <b>7.4</b>               | <b>62.6</b>  | <b>20.0</b>           | <b>46.9</b>              |
| Astoria, Long Island City (01)     | 1,683         | 8.7         | 48.8  | 55.2             | 8.7                             | 8.6                        | 7.2                      | 44.9         | 17.5                  | 55.4                     |
| Sunnyside, Woodside (02)           | 1,312         | 8.6         | 61.3  | 55.3             | 6.7                             | 7.4                        | 6.9                      | 42.1         | 13.4                  | 57.9                     |
| Jackson Heights (03)               | 1,721         | 9.7         | 74.6  | 38.4             | 8.5                             | 10.1                       | 10.2                     | 76.2         | 21.1                  | 50.1                     |
| Elmhurst, Corona (04)              | 1,738         | 9.3         | 82.9  | 37.1             | 7.3                             | 8.5                        | 9.3                      | 83.3         | 19.8                  | 46.9                     |
| Ridgewood, Glendale (05)           | 1,421         | 8.8         | 60.0  | 44.8             | 7.9                             | 9.3                        | 7.9                      | 55.1         | 18.7                  | 46.1                     |
| Rego Park, Forest Hills (06)       | 1,029         | 9.0         | 60.6  | 49.5             | 7.8                             | 8.6                        | 3.3                      | 38.0         | 11.1                  | 50.9                     |
| Flushing (07)                      | 1,807         | 6.8         | 81.4  | 43.6             | 6.9                             | 9.7                        | 5.0                      | 74.4         | 12.0                  | 39.9                     |
| Fresh Meadows, Briarwood (08)      | 1,359         | 8.7         | 63.4  | 36.7             | 8.5                             | 8.3                        | 5.8                      | 62.0         | 19.5                  | 43.9                     |
| Woodhaven (09)                     | 1,523         | 10.4        | 72.0  | 40.6             | 10.0                            | 10.2                       | 6.1                      | 70.2         | 21.5                  | 49.6                     |
| Howard Beach (10)                  | 1,123         | 9.0         | 68.1  | 41.4             | 12.7                            | 12.2                       | 6.4                      | 62.5         | 20.2                  | 44.3                     |
| Bayside (11)                       | 512           | 4.3         | 65.0  | 42.6             | 9.0                             | 11.1                       | 3.4                      | 48.0         | 12.9                  | 37.7                     |
| Jamaica, St. Albans (12)           | 2,380         | 10.3        | 64.5  | 40.9             | 13.1                            | 12.9                       | 10.1                     | 68.4         | 28.9                  | 46.7                     |
| Queens Village (13)                | 1,347         | 7.0         | 57.5  | 41.5             | 14.3                            | 12.6                       | 7.9                      | 58.1         | 27.8                  | 42.5                     |
| The Rockaways (14)                 | 912           | 8.1         | 37.1  | 37.2             | 12.9                            | 12.0                       | 8.9                      | 64.7         | 28.1                  | 36.7                     |
| <b>STATEN ISLAND</b>               | <b>4,963</b>  | <b>10.1</b> | <b>36.3</b>   | <b>37.4</b>      | <b>8.1</b>                      | <b>10.2</b>                | <b>2.4</b>               | <b>44.4</b>  | <b>23.0</b>           | <b>30.0</b>              |
| Port Richmond (01)                 | 2,033         | 10.7        | 38.0  | 36.7             | 9.8                             | 11.2                       | 3.0                      | 56.5         | 26.2                  | 27.5                     |
| Willowbrook, South Beach (02)      | 1,393         | 9.8         | 45.7  | 38.0             | 6.4                             | 9.0                        | 2.9                      | 46.5         | 19.6                  | 31.0                     |
| Tottenville (03)                   | 1,527         | 9.5         | 25.8  | 37.9             | 7.5                             | 10.0                       | 1.3                      | 26.6         | 21.9                  | 32.2                     |
| <b>NEW YORK CITY RESIDENTS</b>     | <b>86,744</b> | <b>10.2</b> | <b>48.1</b>   | <b>41.9</b>      | <b>9.0</b>                      | <b>9.9</b>                 | <b>7.3</b>               | <b>58.9</b>  | <b>21.1</b>           | <b>41.7</b>              |
| <b>NON-RESIDENTS</b>               | <b>12,513</b> | -           | <b>34.5</b>   | <b>42.5</b>      | <b>9.9</b>                      | <b>11.0</b>                | <b>5.4</b>               | <b>28.5</b>  | <b>17.0</b>           | <b>46.9</b>              |
| <b>RESIDENCE UNKNOWN</b>           | <b>5</b>      | -           | -   | -                | -                               | -                          | -                        | -            | -                     | -                        |

Note: Borough totals may be higher than the sum of the community districts as they may include some live births whose community district could not be determined.

\*Rate per 1,000 population. For population information, see Technical Notes: Population, Community District, Population Estimates.

† See Technical Notes: Geographical Units, Birthplace Presentation.

‡ Clinical gestational age <37 completed weeks.

§ Due to revision of the birth certificate, since 2021 "On Medicaid" excludes Family Health Plus, Other government, and Child Health Plus B.



# PREGNANCY OUTCOMES

Table PO8. Live Births by Mother's Birthplace and Borough of Residence, New York City, 2021

| Birthplace                            | Total         | Borough of Residence |               |               |               |              | Staten Island | Non-Residents | Residence Unknown |
|---------------------------------------|---------------|----------------------|---------------|---------------|---------------|--------------|---------------|---------------|-------------------|
|                                       |               | Manhattan            | Bronx         | Brooklyn      | Queens        |              |               |               |                   |
| United States                         | 53,197        | 8,431                | 7,060         | 19,499        | 6,858         | 3,157        | 8,191         | 1             |                   |
| United States (excluding Puerto Rico) | 52,619        | 8,351                | 6,809         | 19,390        | 6,798         | 3,128        | 8,142         | 1             |                   |
| Puerto Rico                           | 578           | 80                   | 251           | 109           | 60            | 29           | 49            | -             |                   |
| Dominican Republic                    | 6,568         | 936                  | 3,449         | 833           | 876           | 66           | 408           | -             |                   |
| China                                 | 4,196         | 440                  | 33            | 1,388         | 1,619         | 279          | 437           | -             |                   |
| Mexico                                | 2,542         | 254                  | 641           | 689           | 684           | 190          | 84            | -             |                   |
| Bangladesh                            | 2,460         | 42                   | 549           | 454           | 1,344         | 18           | 53            | -             |                   |
| Ecuador                               | 2,298         | 101                  | 298           | 390           | 1,387         | 22           | 100           | -             |                   |
| Jamaica                               | 1,733         | 58                   | 386           | 597           | 458           | 13           | 221           | -             |                   |
| Guyana                                | 1,505         | 14                   | 93            | 432           | 843           | 13           | 110           | -             |                   |
| India                                 | 1,229         | 197                  | 29            | 85            | 490           | 41           | 387           | -             |                   |
| Pakistan                              | 1,224         | 41                   | 61            | 508           | 305           | 103          | 206           | -             |                   |
| Uzbekistan                            | 1,108         | 13                   | 1             | 775           | 257           | 26           | 36            | -             |                   |
| Yemen                                 | 979           | 81                   | 278           | 401           | 153           | 41           | 25            | -             |                   |
| Haiti                                 | 954           | 30                   | 31            | 596           | 172           | 9            | 116           | -             |                   |
| Guatemala                             | 879           | 24                   | 129           | 345           | 298           | 34           | 49            | -             |                   |
| Honduras                              | 824           | 43                   | 370           | 148           | 181           | 34           | 48            | -             |                   |
| Russia                                | 696           | 107                  | 13            | 332           | 87            | 51           | 106           | -             |                   |
| Colombia                              | 680           | 75                   | 37            | 73            | 407           | 24           | 64            | -             |                   |
| Israel                                | 659           | 90                   | 7             | 369           | 72            | 20           | 101           | -             |                   |
| El Salvador                           | 588           | 21                   | 75            | 115           | 279           | 8            | 90            | -             |                   |
| Ukraine                               | 554           | 59                   | 4             | 328           | 51            | 62           | 50            | -             |                   |
| Canada                                | 542           | 149                  | 9             | 242           | 49            | 11           | 82            | -             |                   |
| Ghana                                 | 513           | 13                   | 387           | 27            | 26            | 23           | 37            | -             |                   |
| Philippines                           | 492           | 54                   | 28            | 56            | 241           | 27           | 86            | -             |                   |
| Trinidad and Tobago                   | 482           | 12                   | 18            | 243           | 158           | 9            | 42            | -             |                   |
| Other or Not Stated                   | 12,360        | 2,314                | 1,648         | 3,758         | 2,572         | 682          | 1,384         | 2             |                   |
| <b>Total</b>                          | <b>99,262</b> | <b>13,599</b>        | <b>15,634</b> | <b>32,683</b> | <b>19,867</b> | <b>4,963</b> | <b>12,513</b> | <b>3</b>      |                   |

# PREGNANCY OUTCOMES

Table PO9. Live Births by Mother's Birthplace and Age, New York City, 2021

| Birthplace                            | Total         | Age Group (Years) |               |               |               |               |              | Not Stated |
|---------------------------------------|---------------|-------------------|---------------|---------------|---------------|---------------|--------------|------------|
|                                       |               | <20               | 20-24         | 25-29         | 30-34         | 35-39         | ≥40          |            |
| United States                         | 53,197        | 1,343             | 8,267         | 11,722        | 16,927        | 11,687        | 3,251        | -          |
| United States (excluding Puerto Rico) | 52,619        | 1,324             | 8,162         | 11,579        | 16,769        | 11,587        | 3,198        | -          |
| Puerto Rico                           | 578           | 19                | 105           | 143           | 158           | 100           | 53           | -          |
| Dominican Republic                    | 6,568         | 271               | 1,173         | 1,837         | 1,843         | 1,091         | 353          | -          |
| China                                 | 4,196         | 5                 | 165           | 915           | 1,957         | 935           | 219          | -          |
| Mexico                                | 2,542         | 39                | 266           | 503           | 800           | 691           | 243          | -          |
| Bangladesh                            | 2,460         | 8                 | 348           | 832           | 804           | 386           | 82           | -          |
| Ecuador                               | 2,298         | 97                | 384           | 636           | 603           | 415           | 163          | -          |
| Jamaica                               | 1,733         | 35                | 237           | 379           | 510           | 400           | 172          | -          |
| Guyana                                | 1,505         | 20                | 239           | 414           | 449           | 274           | 109          | -          |
| India                                 | 1,229         | 2                 | 42            | 194           | 528           | 380           | 83           | -          |
| Pakistan                              | 1,224         | 6                 | 121           | 392           | 435           | 232           | 38           | -          |
| Uzbekistan                            | 1,108         | 16                | 213           | 352           | 323           | 177           | 27           | -          |
| Yemen                                 | 979           | 58                | 211           | 295           | 240           | 135           | 40           | -          |
| Haiti                                 | 954           | 9                 | 76            | 194           | 274           | 274           | 127          | -          |
| Guatemala                             | 879           | 70                | 177           | 230           | 231           | 139           | 32           | -          |
| Honduras                              | 824           | 62                | 163           | 202           | 175           | 170           | 52           | -          |
| Russia                                | 696           | -                 | 8             | 76            | 301           | 249           | 62           | -          |
| Colombia                              | 680           | 4                 | 47            | 147           | 228           | 184           | 70           | -          |
| Israel                                | 659           | 1                 | 70            | 129           | 217           | 177           | 65           | -          |
| El Salvador                           | 588           | 29                | 116           | 147           | 148           | 104           | 44           | -          |
| Ukraine                               | 554           | 1                 | 11            | 103           | 228           | 173           | 38           | -          |
| Canada                                | 542           | 2                 | 41            | 82            | 182           | 181           | 54           | -          |
| Ghana                                 | 513           | 2                 | 24            | 84            | 193           | 154           | 56           | -          |
| Philippines                           | 492           | 1                 | 20            | 61            | 189           | 172           | 49           | -          |
| Trinidad and Tobago                   | 482           | 2                 | 25            | 72            | 155           | 168           | 60           | -          |
| Other or Not Stated                   | 12,360        | 48                | 733           | 2,233         | 4,247         | 3,771         | 1,328        | -          |
| <b>Total</b>                          | <b>99,262</b> | <b>2,131</b>      | <b>13,177</b> | <b>22,231</b> | <b>32,187</b> | <b>22,719</b> | <b>6,817</b> | <b>-</b>   |

# PREGNANCY OUTCOMES

Table PO10. Live Births and Pregnancy Rates\* to Teenagers (Age 15-19 Years) by Racial/Ethnic Group and Borough of Residence, New York City, 2021

|  | Age Group (Years)† | Live Births | Spontaneous Terminations | Induced Terminations | Total | Population Birth Rate per Women 1,000 Women | Pregnancy Rate Per 1,000 Women |      |
|--|--------------------|-------------|--------------------------|----------------------|-------|---|--------------------------------|------|
| <b>New York City‡</b>                  | 15-17              | 512         | 31                       | 912                  | 1,455 | 129,696                                     | 3.9                            | 11.2 |
|  | 18-19              | 1,619       | 103                      | 1,989                | 3,711 | 97,862                                      | 16.5                           | 37.9 |
|  | 15-19              | 2,131       | 134                      | 2,901                | 5,166 | 227,558                                     | 9.4                            | 22.7 |
| <b>Racial/Ethnic Group‡</b>            |                    |             |                          |                      |       |   |                                |      |
| Hispanic/Latino                        | 15-17              | 330         | 15                       | 354                  | 699   | 47,210                                      | 7.0                            | 14.8 |
|  | 18-19              | 945         | 34                       | 701                  | 1,680 | 33,119                                      | 28.5                           | 50.7 |
|  | 15-19              | 1,275       | 49                       | 1,055                | 2,379 | 80,329                                      | 15.9                           | 29.6 |
| Asian and Pacific Islander             | 15-17              | 4           | -                        | 14                   | 18    | 16,149                                      | 0.2                            | 1.1  |
|  | 18-19              | 49          | -                        | 62                   | 111   | 12,734                                      | 3.8                            | 8.7  |
|  | 15-19              | 53          | -                        | 76                   | 129   | 28,883                                      | 1.8                            | 4.5  |
| Non-Hisp./Lat. White                   | 15-17              | 25          | 2                        | 42                   | 69    | 32,025                                      | 0.8                            | 2.2  |
|  | 18-19              | 219         | 14                       | 127                  | 360   | 28,182                                      | 7.8                            | 12.8 |
|  | 15-19              | 244         | 16                       | 169                  | 429   | 60,207                                      | 4.1                            | 7.1  |
| Non-Hisp./Lat. Black                   | 15-17              | 145         | 10                       | 362                  | 517   | 30,707                                      | 4.7                            | 16.8 |
|  | 18-19              | 387         | 32                       | 789                  | 1,208 | 21,041                                      | 18.4                           | 57.4 |
|  | 15-19              | 532         | 42                       | 1,151                | 1,725 | 51,748                                      | 10.3                           | 33.3 |
| <b>Racial/Ethnic Group§</b>            |                    |             |                          |                      |       |   |                                |      |
| Hispanic/Latino                        | 15-17              | 320         | 15                       | 331                  | 666   | 47,210                                      | 6.8                            | 14.1 |
|  | 18-19              | 911         | 33                       | 659                  | 1,603 | 33,119                                      | 27.5                           | 48.4 |
|  | 15-19              | 1,231       | 48                       | 990                  | 2,269 | 80,329                                      | 15.3                           | 28.2 |
| Asian and Pacific Islander             | 15-17              | 4           | -                        | 13                   | 17    | 16,149                                      | 0.2                            | 1.1  |
|  | 18-19              | 47          | -                        | 58                   | 105   | 12,734                                      | 3.7                            | 8.2  |
|  | 15-19              | 51          | -                        | 71                   | 122   | 28,883                                      | 1.8                            | 4.2  |
| Non-Hisp./Lat. White                   | 15-17              | 24          | 2                        | 32                   | 58    | 32,025                                      | 0.7                            | 1.8  |
|  | 18-19              | 188         | 10                       | 105                  | 303   | 28,182                                      | 6.7                            | 10.8 |
|  | 15-19              | 212         | 12                       | 137                  | 361   | 60,207                                      | 3.5                            | 6.0  |
| Non-Hisp./Lat. Black                   | 15-17              | 139         | 10                       | 340                  | 489   | 30,707                                      | 4.5                            | 15.9 |
|  | 18-19              | 371         | 31                       | 737                  | 1,139 | 21,041                                      | 17.6                           | 54.1 |
|  | 15-19              | 510         | 41                       | 1,077                | 1,628 | 51,748                                      | 9.9                            | 31.5 |
| <b>Borough of Residence</b>            |                    |             |                          |                      |       |   |                                |      |
| Manhattan                              | 15-17              | 47          | 5                        | 134                  | 186   | 17,046                                      | 2.8                            | 10.9 |
|  | 18-19              | 145         | 14                       | 221                  | 380   | 20,962                                      | 6.9                            | 18.1 |
|  | 15-19              | 192         | 19                       | 355                  | 566   | 38,008                                      | 5.1                            | 14.9 |
| Bronx                                  | 15-17              | 193         | 6                        | 209                  | 408   | 27,177                                      | 7.1                            | 15.0 |
|  | 18-19              | 494         | 32                       | 473                  | 999   | 19,054                                      | 25.9                           | 52.4 |
|  | 15-19              | 687         | 38                       | 682                  | 1,407 | 46,231                                      | 14.9                           | 30.4 |
| Brooklyn                               | 15-17              | 135         | 8                        | 290                  | 433   | 41,794                                      | 3.2                            | 10.4 |
|  | 18-19              | 494         | 18                       | 615                  | 1,127 | 28,557                                      | 17.3                           | 39.5 |
|  | 15-19              | 629         | 26                       | 905                  | 1,560 | 70,351                                      | 8.9                            | 22.2 |
| Queens                                 | 15-17              | 94          | 11                       | 180                  | 285   | 34,520                                      | 2.7                            | 8.3  |
|  | 18-19              | 338         | 27                       | 467                  | 832   | 23,403                                      | 14.4                           | 35.6 |
|  | 15-19              | 432         | 38                       | 647                  | 1,117 | 57,923                                      | 7.5                            | 19.3 |
| Staten Island                          | 15-17              | 26          | 1                        | 29                   | 56    | 9,160                                       | 2.8                            | 6.1  |
|  | 18-19              | 65          | 4                        | 66                   | 135   | 5,885                                       | 11.0                           | 22.9 |
|  | 15-19              | 91          | 5                        | 95                   | 191   | 15,045                                      | 6.0                            | 12.7 |
| <b>NYC Events to NYC Residents</b>     | 15-17              | 495         | 31                       | 842                  | 1,368 | 129,696                                     | 3.8                            | 10.5 |
|  | 18-19              | 1,536       | 95                       | 1,842                | 3,473 | 97,862                                      | 15.7                           | 35.5 |
|  | 15-19              | 2,031       | 126                      | 2,684                | 4,841 | 227,558                                     | 8.9                            | 21.3 |
| <b>NYC Events to Non-NYC Residents</b> | 15-17              | 17          | -                        | 70                   | 87    | -   | N.A.                           | N.A. |
|  | 18-19              | 83          | 8                        | 147                  | 238   | -   | N.A.                           | N.A. |
|  | 15-19              | 100         | 8                        | 217                  | 325   | -   | N.A.                           | N.A. |

\*Population data used to calculate rates are 2021 estimates from the US Census Bureau. See Technical Notes: Population.

† From 2011, the number of events to 15-17 year old females and to 15-19 year old females include events to females <18 and <20 years of age, respectively.

See Technical Notes: Pregnancy Outcome Rates.

‡ Includes all events occurring in NYC regardless of residence; other/unknown race and ethnicity are not presented.

§ Numbers and rates are limited to events occurring in NYC to NYC residents only; other/unknown race and ethnicity are not presented.

N.A. Not applicable.

# PREGNANCY OUTCOMES

Table PO11. Live Births to Teenagers (Age <20 Years), Overall and by Selected Characteristics, New York City, 2017-2021

|   | 2017           | 2018           | 2019           | 2020           | 2021          |
|---|----------------|----------------|----------------|----------------|---------------|
| <b>Total Live Births</b>                                | <b>117,013</b> | <b>114,296</b> | <b>110,442</b> | <b>100,022</b> | <b>99,262</b> |
| Percent to Teenagers (Age <20)                          | 2.7            | 2.5            | 2.4            | 2.3            | 2.1           |
| Population* (Females Age 15-19)                         | 229,278        | 220,948        | 218,164        | 233,966        | 227,558       |
| Birth Rate† (Age 15-19)                                 | 13.8           | 13.1           | 12.3           | 9.6            | 9.4           |
| Births to Teenagers                                     | 3,175          | 2,892          | 2,676          | 2,256          | 2,131         |
| Percent of Births with Specified Characteristics:       |                |                |                |                |               |
| Hispanic/Latino   | 59.9           | 59.3           | 59.1           | 59.2           | 62.2          |
| Foreign-born‡   | 32.7           | 34.2           | 35.2           | 34.0           | 36.7          |
| First Live Birth  | 87.3           | 87.7           | 88.5           | 89.1           | 88.8          |
| <2,500 grams  | 10.6           | 9.5            | 10.1           | 11.2           | 10.4          |
| Preterm§  | 10.6           | 9.3            | 10.4           | 10.0           | 11.1          |
| Prenatal Care in First or Second Trimester of Pregnancy | 84.3           | 84.4           | 82.6           | 84.7           | 82.5          |
| Not Married   | 87.0           | 86.9           | 86.1           | 85.5           | 87.9          |
| On Medicaid   | 90.4           | 90.2           | 89.2           | 87.9           | 88.2          |
| Pre-pregnancy Obesity                                   | 14.3           | 15.2           | 15.7           | 15.7           | 16.4          |
| <b>Infant Mortality Rate¶</b>                           | <b>5.4</b>     | <b>3.9</b>     | <b>4.2</b>     | <b>3.9</b>     | <b>4.0</b>    |

\* For denominator information, see Technical Notes: Population.

† Births to women age <20 years per 1,000 female population ages 15 to 19. See Technical Notes: Vital Event Rates.

‡ See Technical Notes: Geographical Units, Birthplace Presentation

§ Clinical gestational age <37 completed weeks.

|| See Technical Notes: Births, Birth Reporting.

¶ Infant mortality rate per 1,000 live births to teenagers.



# PREGNANCY OUTCOMES

Table PO12. Live Births to Teenagers (Age <20 Years) by Selected Characteristics and by Community District of Residence, New York City, 2019-2021\*

| Community District of Residence    | Live Births  | Percent of Total Live Births | Foreign-born | First Live Birth | Low Birth Weight (<2,500 Grams) | Preterm Birth (<37 Weeks) | Late or No Prenatal Care | Not Married | On Medicaid† | Exclusive Breast Feeding |
|------------------------------------|--------------|------------------------------|--------------|------------------|---------------------------------|---------------------------|--------------------------|-------------|--------------|--------------------------|
| <b>NEW YORK CITY</b>               | <b>7,063</b> | <b>2.3</b>                   | <b>35.3</b>  | <b>88.8</b>      | <b>10.5</b>                     | <b>10.5</b>               | <b>16.8</b>              | <b>86.5</b> | <b>87.9</b>  | <b>28.1</b>              |
| <b>MANHATTAN</b>                   | <b>682</b>   | <b>1.6</b>                   | <b>27.7</b>  | <b>89.3</b>      | <b>11.1</b>                     | <b>10.9</b>               | <b>17.9</b>              | <b>93.0</b> | <b>87.8</b>  | <b>28.2</b>              |
| Battery Park, Tribeca (01)         | 3            | 0.1                          | 33.3         | 66.7             | 33.3                            | 0.0                       | 0.0                      | 66.7        | 66.7         | 33.3                     |
| Greenwich Village, SoHo (02)       | 6            | 0.3                          | 0.0          | 66.7             | 16.7                            | 0.0                       | 0.0                      | 83.3        | 100.0        | 33.3                     |
| Lower East Side (03)               | 62           | 2.2                          | 14.5         | 91.9             | 9.7                             | 11.3                      | 13.5                     | 95.2        | 86.2         | 50.0                     |
| Chelsea, Clinton (04)              | 26           | 1.0                          | 26.9         | 80.8             | 19.2                            | 11.5                      | 22.7                     | 88.5        | 96.2         | 38.5                     |
| Midtown Business District (05)     | 13           | 0.8                          | 23.1         | 84.6             | 0.0                             | 7.7                       | 12.5                     | 100.0       | 100.0        | 23.1                     |
| Murray Hill (06)                   | 11           | 0.3                          | 36.4         | 90.9             | 9.1                             | 9.1                       | 22.2                     | 100.0       | 70.0         | 54.5                     |
| Upper West Side (07)               | 34           | 0.5                          | 21.9         | 82.4             | 20.6                            | 26.5                      | 10.7                     | 97.1        | 93.9         | 14.7                     |
| Upper East Side (08)               | 10           | 0.1                          | 20.0         | 90.0             | 30.0                            | 20.0                      | 10.0                     | 100.0       | 66.7         | 20.0                     |
| Manhattanville (09)                | 108          | 4.3                          | 29.0         | 88.0             | 6.5                             | 8.3                       | 29.9                     | 86.1        | 91.4         | 37.0                     |
| Central Harlem (10)                | 121          | 3.1                          | 17.4         | 93.4             | 11.6                            | 7.4                       | 19.5                     | 91.7        | 80.0         | 33.1                     |
| East Harlem (11)                   | 127          | 3.4                          | 16.5         | 91.3             | 11.8                            | 11.8                      | 12.4                     | 96.9        | 85.2         | 23.6                     |
| Washington Heights (12)            | 160          | 3.2                          | 51.3         | 88.8             | 10.0                            | 11.3                      | 16.9                     | 93.8        | 91.8         | 13.8                     |
| <b>BRONX</b>                       | <b>2,222</b> | <b>4.5</b>                   | <b>38.6</b>  | <b>89.1</b>      | <b>10.8</b>                     | <b>10.4</b>               | <b>20.3</b>              | <b>92.6</b> | <b>91.4</b>  | <b>23.9</b>              |
| Mott Haven (01)                    | 226          | 5.9                          | 25.8         | 85.8             | 10.6                            | 10.2                      | 16.5                     | 95.6        | 84.9         | 38.7                     |
| Hunts Point (02)                   | 140          | 6.5                          | 33.1         | 87.1             | 14.3                            | 12.9                      | 21.8                     | 94.3        | 95.7         | 25.7                     |
| Morrisania (03)                    | 188          | 5.1                          | 26.1         | 88.8             | 10.1                            | 8.5                       | 18.6                     | 95.7        | 91.3         | 21.8                     |
| Concourse, Highbridge (04)         | 272          | 4.6                          | 44.6         | 90.1             | 8.8                             | 11.0                      | 24.3                     | 91.5        | 91.7         | 22.4                     |
| University/Morris Heights (05)     | 256          | 4.8                          | 48.4         | 88.2             | 9.4                             | 8.2                       | 21.1                     | 92.2        | 93.7         | 24.2                     |
| East Tremont (06)                  | 179          | 5.3                          | 38.0         | 87.7             | 14.5                            | 11.2                      | 17.1                     | 96.6        | 89.1         | 20.2                     |
| Fordham (07)                       | 233          | 4.4                          | 45.1         | 93.6             | 9.0                             | 8.6                       | 19.5                     | 91.8        | 93.9         | 21.9                     |
| Riverdale (08)                     | 57           | 2.0                          | 50.9         | 94.7             | 7.0                             | 5.3                       | 21.6                     | 91.2        | 100.0        | 22.8                     |
| Unionport, Soundview (09)          | 303          | 4.6                          | 39.9         | 89.4             | 12.5                            | 12.9                      | 19.7                     | 93.4        | 90.6         | 22.8                     |
| Throgs Neck (10)                   | 74           | 2.8                          | 36.5         | 85.1             | 1.4                             | 1.4                       | 26.0                     | 90.5        | 91.8         | 16.2                     |
| Pelham Parkway (11)                | 116          | 3.2                          | 44.0         | 87.1             | 13.8                            | 16.4                      | 17.4                     | 75.9        | 91.4         | 24.1                     |
| Williamsbridge (12)                | 178          | 4.0                          | 32.6         | 91.6             | 12.9                            | 12.4                      | 22.1                     | 94.4        | 89.9         | 19.1                     |
| <b>BROOKLYN</b>                    | <b>2,201</b> | <b>2.1</b>                   | <b>28.6</b>  | <b>88.4</b>      | <b>10.6</b>                     | <b>10.5</b>               | <b>12.8</b>              | <b>79.0</b> | <b>87.4</b>  | <b>24.6</b>              |
| Williamsburg, Greenpoint (01)      | 143          | 1.3                          | 14.0         | 94.4             | 9.8                             | 9.8                       | 12.2                     | 48.3        | 86.6         | 37.8                     |
| Fort Greene, Brooklyn Heights (02) | 40           | 0.8                          | 22.5         | 80.0             | 20.0                            | 15.0                      | 5.0                      | 97.5        | 90.0         | 15.0                     |
| Bedford Stuyvesant (03)            | 171          | 2.7                          | 16.8         | 91.2             | 8.2                             | 8.8                       | 9.9                      | 85.4        | 86.2         | 18.7                     |
| Bushwick (04)                      | 161          | 5.4                          | 33.8         | 85.7             | 8.1                             | 11.8                      | 19.9                     | 93.8        | 87.5         | 25.5                     |
| East New York (05)                 | 302          | 4.5                          | 34.4         | 89.1             | 9.6                             | 13.6                      | 17.4                     | 94.0        | 89.7         | 25.2                     |
| Park Slope (06)                    | 34           | 0.8                          | 11.8         | 94.1             | 2.9                             | 8.8                       | 9.1                      | 91.2        | 85.3         | 35.3                     |
| Sunset Park (07)                   | 111          | 2.3                          | 50.5         | 82.0             | 9.0                             | 8.1                       | 2.9                      | 87.4        | 93.7         | 33.0                     |
| Crown Heights North (08)           | 83           | 2.5                          | 14.8         | 85.5             | 14.5                            | 9.6                       | 7.8                      | 96.4        | 85.4         | 19.3                     |
| Crown Heights South (09)           | 52           | 1.3                          | 21.2         | 82.7             | 23.1                            | 25.5                      | 8.2                      | 84.6        | 86.3         | 25.0                     |
| Bay Ridge (10)                     | 48           | 1.1                          | 50.0         | 83.3             | 4.2                             | 4.2                       | 6.4                      | 75.0        | 91.7         | 27.1                     |
| Bensonhurst (11)                   | 127          | 1.9                          | 60.6         | 86.6             | 7.9                             | 6.3                       | 8.0                      | 74.0        | 92.9         | 32.3                     |
| Borough Park (12)                  | 216          | 1.5                          | 20.4         | 94.9             | 9.3                             | 7.9                       | 4.7                      | 37.0        | 83.3         | 29.2                     |
| Coney Island (13)                  | 104          | 3.2                          | 23.3         | 92.3             | 12.6                            | 12.5                      | 19.0                     | 84.6        | 93.2         | 25.2                     |
| Flatbush, Midwood (14)             | 91           | 1.4                          | 39.6         | 86.8             | 11.0                            | 13.2                      | 9.9                      | 73.6        | 90.1         | 25.3                     |
| Sheepshead Bay (15)                | 86           | 1.4                          | 38.4         | 91.8             | 9.3                             | 9.3                       | 12.9                     | 39.5        | 79.1         | 29.4                     |
| Brownsville (16)                   | 204          | 6.1                          | 12.7         | 85.8             | 12.3                            | 9.8                       | 19.1                     | 98.0        | 86.1         | 13.7                     |
| East Flatbush (17)                 | 129          | 2.8                          | 31.8         | 84.5             | 17.1                            | 13.2                      | 22.4                     | 93.8        | 86.5         | 14.0                     |
| Canarsie (18)                      | 98           | 1.7                          | 23.5         | 85.7             | 10.2                            | 5.1                       | 15.3                     | 79.6        | 80.4         | 18.4                     |
| <b>QUEENS</b>                      | <b>1,361</b> | <b>2.1</b>                   | <b>49.0</b>  | <b>89.4</b>      | <b>8.7</b>                      | <b>9.5</b>                | <b>19.3</b>              | <b>88.2</b> | <b>87.8</b>  | <b>42.1</b>              |
| Astoria, Long Island City (01)     | 67           | 1.3                          | 20.9         | 86.6             | 7.5                             | 13.4                      | 12.3                     | 88.1        | 92.5         | 21.2                     |
| Sunnyside, Woodside (02)           | 37           | 0.9                          | 48.6         | 78.4             | 10.8                            | 2.7                       | 11.1                     | 86.5        | 94.6         | 40.5                     |
| Jackson Heights (03)               | 192          | 3.4                          | 55.2         | 88.0             | 6.3                             | 9.4                       | 22.5                     | 91.7        | 93.8         | 38.1                     |
| Elmhurst, Corona (04)              | 154          | 2.7                          | 53.2         | 89.6             | 9.1                             | 14.3                      | 18.2                     | 94.8        | 89.5         | 47.4                     |
| Ridgewood, Glendale (05)           | 114          | 2.5                          | 56.6         | 93.0             | 3.5                             | 6.1                       | 25.7                     | 86.8        | 83.9         | 35.1                     |
| Rego Park, Forest Hills (06)       | 18           | 0.5                          | 66.7         | 100.0            | 0.0                             | 0.0                       | 5.6                      | 55.6        | 83.3         | 50.0                     |
| Flushing (07)                      | 77           | 1.3                          | 71.4         | 89.6             | 6.5                             | 3.9                       | 18.7                     | 87.0        | 87.0         | 45.5                     |
| Fresh Meadows, Briarwood (08)      | 51           | 1.2                          | 52.9         | 94.1             | 11.8                            | 7.8                       | 16.0                     | 76.5        | 88.2         | 39.2                     |
| Woodhaven (09)                     | 127          | 2.7                          | 58.3         | 86.6             | 11.0                            | 13.4                      | 19.4                     | 81.9        | 91.2         | 53.5                     |
| Howard Beach (10)                  | 64           | 1.8                          | 64.1         | 92.2             | 10.9                            | 6.3                       | 14.8                     | 71.9        | 79.7         | 50.0                     |
| Bayside (11)                       | 10           | 0.7                          | 50.0         | 90.0             | 10.0                            | 0.0                       | 10.0                     | 90.0        | 100.0        | 30.0                     |
| Jamaica, St. Albans (12)           | 241          | 3.2                          | 40.7         | 86.7             | 11.2                            | 10.0                      | 22.0                     | 90.9        | 81.7         | 49.4                     |
| Queens Village (13)                | 81           | 1.9                          | 42.0         | 91.4             | 11.1                            | 8.6                       | 17.5                     | 91.4        | 83.8         | 43.2                     |
| The Rockaways (14)                 | 128          | 4.0                          | 28.9         | 94.5             | 8.6                             | 10.2                      | 19.1                     | 94.5        | 90.4         | 28.1                     |
| <b>STATEN ISLAND</b>               | <b>295</b>   | <b>2.0</b>                   | <b>18.7</b>  | <b>85.8</b>      | <b>13.6</b>                     | <b>11.2</b>               | <b>5.9</b>               | <b>92.5</b> | <b>77.2</b>  | <b>19.8</b>              |
| Port Richmond (01)                 | 226          | 3.6                          | 19.1         | 84.5             | 14.2                            | 11.5                      | 5.9                      | 96.0        | 83.6         | 17.7                     |
| Willowbrook, South Beach (02)      | 42           | 1.0                          | 19.0         | 85.7             | 11.9                            | 7.1                       | 2.4                      | 78.6        | 61.9         | 29.3                     |
| Tottenville (03)                   | 26           | 0.6                          | 15.4         | 96.2             | 11.5                            | 15.4                      | 12.0                     | 88.5        | 50.0         | 20.0                     |
| <b>NEW YORK CITY RESIDENTS</b>     | <b>6,761</b> | <b>2.5</b>                   | <b>35.5</b>  | <b>88.8</b>      | <b>10.5</b>                     | <b>10.3</b>               | <b>16.7</b>              | <b>87.3</b> | <b>88.4</b>  | <b>28.0</b>              |
| <b>NON-RESIDENTS</b>               | <b>302</b>   | <b>0.9</b>                   | <b>30.6</b>  | <b>88.1</b>      | <b>12.3</b>                     | <b>14.2</b>               | <b>17.0</b>              | <b>66.9</b> | <b>78.0</b>  | <b>28.6</b>              |
| <b>RESIDENCE UNKNOWN</b>           | -            | -                            | -            | -                | -                               | -                         | -                        | -           | -            | -                        |

Note: Borough totals may be higher than the sum of the community districts, as they may include some live births whose community district could not be determined. Map of percent of live births to teenagers by community district of residence is presented in PO Figure 14.

\*Three years of data were combined because of the relatively small number of live births per year for teenage women.

† Due to revision of the birth certificate, since 2021, "On Medicaid" excludes Family Health Plus, Other government, and Child Health Plus B.

# PREGNANCY OUTCOMES

Table PO13. Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy, Overall and by Borough Of Residence and Woman's Age, New York City, 2021\*

| Borough of Residence/<br>Pregnancy Outcome | Total          | Age Group (Years) |              |               |               |               |               |              | Unknown<br>or Not<br>Stated |
|--|----------------|-------------------|--------------|---------------|---------------|---------------|---------------|--------------|-----------------------------|
|  |                | <18               | 18-19        | 20-24         | 25-29         | 30-34         | 35-39         | ≥40          |                             |
| <b>NEW YORK CITY</b>                       | <b>142,685</b> | <b>1,455</b>      | <b>3,711</b> | <b>23,274</b> | <b>33,679</b> | <b>42,166</b> | <b>28,996</b> | <b>9,404</b> | -                           |
| Live Births                                | 99,262         | 512               | 1,619        | 13,177        | 22,231        | 32,187        | 22,719        | 6,817        | -                           |
| Spontaneous Terminations                   | 5,610          | 31                | 103          | 575           | 1,015         | 1,594         | 1,456         | 836          | -                           |
| Induced Terminations                       | 37,813         | 912               | 1,989        | 9,522         | 10,433        | 8,385         | 4,821         | 1,751        | -                           |
| <b>MANHATTAN</b>                           | <b>19,740</b>  | <b>186</b>        | <b>380</b>   | <b>2,380</b>  | <b>3,637</b>  | <b>6,520</b>  | <b>4,980</b>  | <b>1,657</b> | -                           |
| Live Births                                | 13,599         | 47                | 145          | 972           | 2,004         | 5,079         | 4,100         | 1,252        | -                           |
| Spontaneous Terminations                   | 869            | 5                 | 14           | 64            | 119           | 254           | 264           | 149          | -                           |
| Induced Terminations                       | 5,272          | 134               | 221          | 1,344         | 1,514         | 1,187         | 616           | 256          | -                           |
| <b>BRONX</b>                               | <b>24,568</b>  | <b>408</b>        | <b>999</b>   | <b>5,040</b>  | <b>6,789</b>  | <b>6,406</b>  | <b>3,674</b>  | <b>1,252</b> | -                           |
| Live Births                                | 15,634         | 193               | 494          | 2,863         | 4,388         | 4,361         | 2,525         | 810          | -                           |
| Spontaneous Terminations                   | 1,152          | 6                 | 32           | 115           | 256           | 314           | 272           | 157          | -                           |
| Induced Terminations                       | 7,782          | 209               | 473          | 2,062         | 2,145         | 1,731         | 877           | 285          | -                           |
| <b>BROOKLYN</b>                            | <b>45,700</b>  | <b>433</b>        | <b>1,127</b> | <b>8,582</b>  | <b>11,069</b> | <b>12,391</b> | <b>9,120</b>  | <b>2,978</b> | -                           |
| Live Births                                | 32,683         | 135               | 494          | 5,474         | 7,564         | 9,515         | 7,262         | 2,239        | -                           |
| Spontaneous Terminations                   | 1,243          | 8                 | 18           | 146           | 218           | 360           | 307           | 186          | -                           |
| Induced Terminations                       | 11,774         | 290               | 615          | 2,962         | 3,287         | 2,516         | 1,551         | 553          | -                           |
| <b>QUEENS</b>                              | <b>29,605</b>  | <b>285</b>        | <b>832</b>   | <b>4,559</b>  | <b>7,574</b>  | <b>8,773</b>  | <b>5,732</b>  | <b>1,850</b> | -                           |
| Live Births                                | 19,867         | 94                | 338          | 2,373         | 4,954         | 6,568         | 4,287         | 1,253        | -                           |
| Spontaneous Terminations                   | 1,346          | 11                | 27           | 161           | 265           | 357           | 330           | 195          | -                           |
| Induced Terminations                       | 8,392          | 180               | 467          | 2,025         | 2,355         | 1,848         | 1,115         | 402          | -                           |
| <b>STATEN ISLAND</b>                       | <b>6,509</b>   | <b>56</b>         | <b>135</b>   | <b>837</b>    | <b>1,564</b>  | <b>2,276</b>  | <b>1,282</b>  | <b>359</b>   | -                           |
| Live Births                                | 4,963          | 26                | 65           | 472           | 1,179         | 1,912         | 1,046         | 263          | -                           |
| Spontaneous Terminations                   | 321            | 1                 | 4            | 25            | 64            | 104           | 80            | 43           | -                           |
| Induced Terminations                       | 1,225          | 29                | 66           | 340           | 321           | 260           | 156           | 53           | -                           |
| <b>NON-RESIDENTS</b>                       | <b>16,560</b>  | <b>87</b>         | <b>238</b>   | <b>1,875</b>  | <b>3,044</b>  | <b>5,800</b>  | <b>4,208</b>  | <b>1,308</b> | -                           |
| Live Births                                | 12,513         | 17                | 83           | 1,022         | 2,140         | 4,752         | 3,499         | 1,000        | -                           |
| Spontaneous Terminations                   | 679            | -                 | 8            | 64            | 93            | 205           | 203           | 106          | -                           |
| Induced Terminations                       | 3,368          | 70                | 147          | 789           | 811           | 843           | 506           | 202          | -                           |
| <b>RESIDENCE UNKNOWN</b>                   | <b>3</b>       | <b>-</b>          | <b>-</b>     | <b>1</b>      | <b>2</b>      | <b>-</b>      | <b>-</b>      | <b>-</b>     | <b>-</b>                    |
| Live Births                                | 3              | -                 | -            | 1             | 2             | -             | -             | -            | -                           |
| Spontaneous Terminations                   | 0              | -                 | -            | -             | -             | -             | -             | -            | -                           |
| Induced Terminations                       | -              | -                 | -            | -             | -             | -             | -             | -            | -                           |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

# PREGNANCY OUTCOMES

Table PO14. Spontaneous Terminations of Pregnancy\* by Gestational Age and Woman's Age, New York City, 2021

| Gestational Age (Weeks) | Total        | Age Group (Years) |            |            |              |              |              |            |
|-------------------------|--------------|-------------------|------------|------------|--------------|--------------|--------------|------------|
|                         |              | <18               | 18-19      | 20-24      | 25-29        | 30-34        | 35-39        | ≥40        |
| <b>Total</b>            | <b>5,610</b> | <b>31</b>         | <b>103</b> | <b>575</b> | <b>1,015</b> | <b>1,594</b> | <b>1,456</b> | <b>836</b> |
| <13                     | 4,005        | 19                | 66         | 381        | 696          | 1,115        | 1,093        | 635        |
| 13-15                   | 397          | 3                 | 8          | 40         | 70           | 101          | 101          | 74         |
| 16-19                   | 497          | 5                 | 8          | 60         | 94           | 156          | 116          | 58         |
| 20-27                   | 434          | 3                 | 16         | 55         | 99           | 128          | 101          | 32         |
| ≥28                     | 277          | 1                 | 5          | 39         | 56           | 94           | 45           | 37         |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

Table PO15. Selected Characteristics of Spontaneous Terminations of Pregnancy\*, ≥ 28 Weeks Gestation, Overall and by Woman's Age, New York City, 2021

|                                   | Total      | Age Group (Years) |          |           |           |           |           |           |
|-----------------------------------|------------|-------------------|----------|-----------|-----------|-----------|-----------|-----------|
|                                   |            | <18               | 18-19    | 20-24     | 25-29     | 30-34     | 35-39     | ≥40       |
| <b>Total</b>                      | <b>277</b> | <b>1</b>          | <b>5</b> | <b>39</b> | <b>56</b> | <b>94</b> | <b>45</b> | <b>37</b> |
| <b>Sex</b>                        |            |                   |          |           |           |           |           |           |
| Male                              | 134        | 1                 | 1        | 14        | 26        | 52        | 22        | 18        |
| Female                            | 132        | -                 | 4        | 23        | 25        | 41        | 22        | 17        |
| Undetermined                      | 11         | -                 | -        | 2         | 5         | 1         | 1         | 2         |
| <b>Weight at Delivery (Grams)</b> |            |                   |          |           |           |           |           |           |
| <500                              | 11         | -                 | -        | 2         | 4         | 2         | 1         | 2         |
| 500-999                           | 23         | -                 | 1        | 2         | 6         | 4         | 3         | 7         |
| 1,000-1,499                       | 44         | -                 | 1        | 4         | 8         | 19        | 8         | 4         |
| 1,500-1,999                       | 57         | 1                 | 2        | 6         | 11        | 19        | 7         | 11        |
| 2,000-2,499                       | 44         | -                 | -        | 10        | 4         | 19        | 7         | 4         |
| ≥2,500                            | 85         | -                 | -        | 13        | 22        | 24        | 17        | 9         |
| Not stated                        | 13         | -                 | 1        | 2         | 1         | 7         | 2         | -         |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

Table PO16. Selected Characteristics of Spontaneous Terminations of Pregnancy\*, ≥28 Weeks Gestation, Overall and by Woman's Racial/Ethnic Group, New York City, 2021

|                                   | Total      | Racial/Ethnic Group |                                    |                            |                           |                           |          | Not Stated |
|-----------------------------------|------------|---------------------|------------------------------------|----------------------------|---------------------------|---------------------------|----------|------------|
|                                   |            | Puerto Rican        | Hispanic/Latino (not Puerto Rican) | Asian and Pacific Islander | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Other    |            |
| <b>Total</b>                      | <b>277</b> | <b>9</b>            | <b>44</b>                          | <b>30</b>                  | <b>91</b>                 | <b>82</b>                 | <b>3</b> | <b>18</b>  |
| <b>Sex</b>                        |            |                     |                                    |                            |                           |                           |          |            |
| Male                              | 134        | 3                   | 19                                 | 11                         | 47                        | 45                        | 2        | 7          |
| Female                            | 132        | 5                   | 24                                 | 18                         | 39                        | 34                        | 1        | 11         |
| Undetermined                      | 11         | 1                   | 1                                  | 1                          | 5                         | 3                         | -        | -          |
| <b>Weight at Delivery (Grams)</b> |            |                     |                                    |                            |                           |                           |          |            |
| <500                              | 11         | -                   | 4                                  | 1                          | 4                         | 1                         | -        | 1          |
| 500-999                           | 23         | -                   | 5                                  | 2                          | 5                         | 9                         | 1        | 1          |
| 1,000-1,499                       | 44         | 1                   | 6                                  | 9                          | 7                         | 17                        | 1        | 3          |
| 1,500-1,999                       | 57         | 5                   | 7                                  | 5                          | 24                        | 12                        | -        | 4          |
| 2,000-2,499                       | 44         | 1                   | 5                                  | 4                          | 9                         | 24                        | -        | 1          |
| ≥2,500                            | 85         | 1                   | 15                                 | 8                          | 36                        | 17                        | 1        | 7          |
| Not stated                        | 13         | 1                   | 2                                  | 1                          | 6                         | 2                         | -        | 1          |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

# PREGNANCY OUTCOMES

Table PO17. Live Births, Spontaneous Terminations of  $\geq 28$  Weeks Gestation\*, and Induced Terminations of Pregnancy\* by Borough of Residence and Occurrence, New York City, 2021

| Borough of Residence/<br>Pregnancy Outcome | Borough of Occurrence |               |               |               |               |               |
|--|-----------------------|---------------|---------------|---------------|---------------|---------------|
|  | Total                 | Manhattan     | Bronx         | Brooklyn      | Queens        | Staten Island |
| <b>NEW YORK CITY</b>                       | <b>137,352</b>        | <b>55,891</b> | <b>15,617</b> | <b>31,340</b> | <b>28,837</b> | <b>5,667</b>  |
| Live Births                                | 99,262                | 39,559        | 11,198        | 23,217        | 19,758        | 5,530         |
| Spontaneous Terminations                   | 277                   | 98            | 34            | 83            | 40            | 22            |
| Induced Terminations                       | 37,813                | 16,234        | 4,385         | 8,040         | 9,039         | 115           |
| <b>MANHATTAN</b>                           | <b>18,898</b>         | <b>17,134</b> | <b>709</b>    | <b>611</b>    | <b>428</b>    | <b>16</b>     |
| Live Births                                | 13,599                | 13,015        | 283           | 185           | 100           | 16            |
| Spontaneous Terminations                   | 27                    | 26            | -             | -             | 1             | -             |
| Induced Terminations                       | 5,272                 | 4,093         | 426           | 426           | 327           | -             |
| <b>BRONX</b>                               | <b>23,463</b>         | <b>8,793</b>  | <b>13,593</b> | <b>508</b>    | <b>556</b>    | <b>13</b>     |
| Live Births                                | 15,634                | 5,240         | 10,020        | 140           | 221           | 13            |
| Spontaneous Terminations                   | 47                    | 15            | 32            | -             | -             | -             |
| Induced Terminations                       | 7,782                 | 3,538         | 3,541         | 368           | 335           | -             |
| <b>BROOKLYN</b>                            | <b>44,554</b>         | <b>14,011</b> | <b>242</b>    | <b>26,317</b> | <b>2,723</b>  | <b>1,261</b>  |
| Live Births                                | 32,683                | 9,586         | 99            | 20,412        | 1,328         | 1,258         |
| Spontaneous Terminations                   | 97                    | 23            | 1             | 68            | 2             | 3             |
| Induced Terminations                       | 11,774                | 4,402         | 142           | 5,837         | 1,393         | -             |
| <b>QUEENS</b>                              | <b>28,301</b>         | <b>5,794</b>  | <b>191</b>    | <b>1,751</b>  | <b>20,510</b> | <b>55</b>     |
| Live Births                                | 19,867                | 3,985         | 104           | 1,151         | 14,573        | 54            |
| Spontaneous Terminations                   | 42                    | 6             | -             | 6             | 30            | -             |
| Induced Terminations                       | 8,392                 | 1,803         | 87            | 594           | 5,907         | 1             |
| <b>STATEN ISLAND</b>                       | <b>6,214</b>          | <b>973</b>    | <b>34</b>     | <b>1,210</b>  | <b>85</b>     | <b>3,912</b>  |
| Live Births                                | 4,963                 | 362           | 13            | 771           | 30            | 3,787         |
| Spontaneous Terminations                   | 26                    | 1             | -             | 6             | -             | 19            |
| Induced Terminations                       | 1,225                 | 610           | 21            | 433           | 55            | 106           |
| <b>NON-RESIDENTS</b>                       | <b>15,919</b>         | <b>9,185</b>  | <b>847</b>    | <b>942</b>    | <b>4,535</b>  | <b>410</b>    |
| Live Births                                | 12,513                | 7,370         | 678           | 557           | 3,506         | 402           |
| Spontaneous Terminations                   | 38                    | 27            | 1             | 3             | 7             | -             |
| Induced Terminations                       | 3,368                 | 1,788         | 168           | 382           | 1,022         | 8             |
| <b>RESIDENCE UNKNOWN</b>                   | <b>3</b>              | <b>1</b>      | <b>1</b>      | <b>1</b>      | <b>-</b>      | <b>-</b>      |
| Live Births                                | 3                     | 1             | 1             | 1             | -             | -             |
| Spontaneous Terminations                   | -                     | -             | -             | -             | -             | -             |
| Induced Terminations                       | -                     | -             | -             | -             | -             | -             |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

# PREGNANCY OUTCOMES

Table PO18. Induced Terminations of Pregnancy\* by Selected Characteristics and Woman's Age, New York City, 2021

|  | Total         | <18        | 18-19        | 20-24        | 25-29         | 30-34        | 35-39        | ≥40          | Not Stated |
|--|---------------|------------|--------------|--------------|---------------|--------------|--------------|--------------|------------|
| <b>Induced Termination of Pregnancy, All</b> | <b>37,813</b> | <b>912</b> | <b>1,989</b> | <b>9,522</b> | <b>10,433</b> | <b>8,385</b> | <b>4,821</b> | <b>1,751</b> | <b>-</b>   |
| <b>Racial/Ethnic Group</b>                   |               |            |              |              |               |              |              |              |            |
| Hispanic/Latino                              | 10,753        | 354        | 701          | 3,121        | 2,867         | 2,224        | 1,096        | 390          | -          |
| Asian and Pacific Islander                   | 1,876         | 14         | 62           | 356          | 486           | 497          | 308          | 153          | -          |
| Non-Hispanic/Latino White                    | 3,652         | 42         | 127          | 719          | 959           | 898          | 643          | 264          | -          |
| Non-Hispanic/Latino Black                    | 14,959        | 362        | 789          | 3,848        | 4,298         | 3,320        | 1,771        | 571          | -          |
| Other  | 1,913         | 41         | 106          | 508          | 560           | 399          | 226          | 73           | -          |
| Unknown                                      | 4,660         | 99         | 204          | 970          | 1,263         | 1,047        | 777          | 300          | -          |
| <b>Marital Status</b>                        |               |            |              |              |               |              |              |              |            |
| Married                                      | 5,074         | 13         | 34           | 496          | 1,093         | 1,506        | 1,322        | 610          | -          |
| Not married                                  | 24,880        | 747        | 1,625        | 7,177        | 7,183         | 5,068        | 2,386        | 694          | -          |
| Other/Unknown                                | 7,859         | 152        | 330          | 1,849        | 2,157         | 1,811        | 1,113        | 447          | -          |
| <b>Gestational Age (Weeks)</b>               |               |            |              |              |               |              |              |              |            |
| ≤6   | 16,808        | 321        | 815          | 4,297        | 4,856         | 3,770        | 2,004        | 745          | -          |
| 7 - 8  | 10,967        | 218        | 586          | 2,773        | 3,071         | 2,396        | 1,419        | 504          | -          |
| 9 - 10                                       | 4,507         | 149        | 271          | 1,145        | 1,197         | 993          | 566          | 186          | -          |
| 11 - 12                                      | 1,926         | 67         | 118          | 463          | 507           | 422          | 249          | 100          | -          |
| 13 - 15                                      | 1,589         | 47         | 76           | 374          | 390           | 330          | 270          | 102          | -          |
| 16 - 20                                      | 1,243         | 66         | 67           | 303          | 263           | 274          | 194          | 76           | -          |
| ≥21  | 767           | 44         | 56           | 166          | 148           | 198          | 119          | 36           | -          |
| Unknown                                      | 6             | -          | -            | 1            | 1             | 2            | -            | 2            | -          |
| <b>Type of Primary Termination Procedure</b> |               |            |              |              |               |              |              |              |            |
| Suction curettage                            | 21,160        | 456        | 1,010        | 5,131        | 5,946         | 4,784        | 2,803        | 1,030        | -          |
| Sharp curettage / D+C                        | 606           | 15         | 22           | 112          | 140           | 142          | 117          | 58           | -          |
| Dilation and evacuation                      | 2,287         | 105        | 136          | 504          | 471           | 540          | 382          | 149          | -          |
| Intrauterine instillation                    | 85            | 4          | 4            | 13           | 15            | 20           | 22           | 7            | -          |
| Hysterotomy / hysterectomy                   | 27            | 1          | 1            | 6            | 9             | 3            | 4            | 3            | -          |
| Medication (not procedural)                  | 13,632        | 331        | 816          | 3,753        | 3,849         | 2,892        | 1,489        | 502          | -          |
| Other  | 16            | -          | -            | 3            | 3             | 4            | 4            | 2            | -          |
| Procedure Missing                            | -             | -          | -            | -            | -             | -            | -            | -            | -          |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

# PREGNANCY OUTCOMES

Table PO19. Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Racial/Ethnic Group, New York City, 2017-2021\*

|                                 | 2017          | 2018          | 2019          | 2020          | 2021          |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>Marital Status (Percent)</b> |               |               |               |               |               |
| Married                         | 15.3          | 15.9          | 16.6          | 15.1          | 13.4          |
| Not married                     | 72.9          | 70.2          | 73.4          | 72.3          | 65.8          |
| Other/Unknown                   | 11.8          | 13.9          | 10.0          | 12.6          | 20.8          |
| <b>Age Group (Years)</b>        |               |               |               |               |               |
| <20                             | 4,754         | 4,092         | 4,161         | 2,989         | 2,901         |
| 20 - 24                         | 14,492        | 12,833        | 12,471        | 9,339         | 9,522         |
| 25 - 29                         | 15,576        | 14,259        | 14,159        | 10,729        | 10,433        |
| 30 - 34                         | 10,725        | 10,238        | 10,414        | 8,114         | 8,385         |
| 35 - 39                         | 6,474         | 6,047         | 6,260         | 4,562         | 4,821         |
| ≥40                             | 2,368         | 2,288         | 2,318         | 1,790         | 1,751         |
| Unknown                         | 2             | 2             | 1             | -             | -             |
| <b>Racial/Ethnic Group</b>      |               |               |               |               |               |
| Hispanic/Latino                 | 14,443        | 14,114        | 13,112        | 9,719         | 10,753        |
| Asian and Pacific Islander      | 3,047         | 2,998         | 3,188         | 1,626         | 1,876         |
| Non-Hispanic/Latino White       | 7,471         | 6,593         | 6,414         | 3,941         | 3,652         |
| Non-Hispanic/Latino Black       | 20,569        | 17,252        | 17,665        | 14,043        | 14,959        |
| Other                           | 1,930         | 949           | 1,926         | 997           | 1,913         |
| Unknown                         | 6,931         | 7,853         | 7,479         | 7,197         | 4,660         |
| <b>Total</b>                    | <b>54,391</b> | <b>49,759</b> | <b>49,784</b> | <b>37,523</b> | <b>37,813</b> |

\*See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

# PREGNANCY OUTCOMES

Table PO20. Characteristics of Birth\* and Pregnancy Outcomes by Neighborhood Poverty†, New York City, 2012 and 2021

| Birth Characteristics        | Low (<10%) |           |                         | Medium (10 to <20%) |           |                         | High (20 to <30%) |           |                         | Very High (≥30%) |           |                         |
|------------------------------|------------|-----------|-------------------------|---------------------|-----------|-------------------------|-------------------|-----------|-------------------------|------------------|-----------|-------------------------|
|                              | 2021       | 2012      | Change 2012 to 2021 (%) | 2021                | 2012      | Change 2012 to 2021 (%) | 2021              | 2012      | Change 2012 to 2021 (%) | 2021             | 2012      | Change 2012 to 2021 (%) |
| Births                       | 22,794     | 24,640    | -7.5                    | 23,970              | 30,127    | -20.4                   | 13,849            | 26,963    | -48.6                   | 17,726           | 31,718    | -44.1                   |
| Population                   | 2,941,010  | 2,397,525 | 22.7                    | 2,742,829           | 2,417,359 | 13.5                    | 1,405,107         | 1,728,336 | -18.7                   | 1,371,602        | 1,801,176 | -23.8                   |
| Birth Rate (per 1,000 pop.)  | 7.8        | 10.3      | -24.6                   | 8.7                 | 12.5      | -29.9                   | 9.9               | 15.6      | -36.8                   | 12.9             | 17.6      | -26.6                   |
| Preterm Live Births (%)      | 9.3        | 8.5       | 9.4                     | 9.7                 | 8.8       | 10.2                    | 10.2              | 8.7       | 17.2                    | 10.6             | 9.4       | 12.8                    |
| Low Birth Weight (%)         | 8.4        | 7.9       | 6.3                     | 9.0                 | 8.1       | 11.1                    | 9.2               | 8.1       | 13.6                    | 9.6              | 8.8       | 9.1                     |
| Body Mass Indicator          |            |           |                         |                     |           |                         |                   |           |                         |                  |           |                         |
| Normal (%)                   | 56.6       | 63.9      | -11.4                   | 47.3                | 55.9      | -15.4                   | 42.5              | 50.9      | -16.5                   | 41.4             | 47.4      | -12.7                   |
| Overweight/Obese (%)         | 38.8       | 29.6      | 31.1                    | 48.4                | 38.2      | 26.7                    | 53.7              | 43.7      | 22.9                    | 54.7             | 46.9      | 16.6                    |
| C-section (%)                | 34.1       | 34.2      | -0.3                    | 33.4                | 33.6      | -0.6                    | 32.3              | 32.5      | -0.6                    | 28.6             | 29.4      | -2.7                    |
| Multiple Births (%)          | 3.1        | 4.9       | -36.7                   | 3.0                 | 3.5       | -14.3                   | 2.9               | 3.1       | -6.5                    | 3.0              | 2.8       | 7.1                     |
| Breastfed Exclusively (%)    | 51.7       | 41.2      | 25.5                    | 43.2                | 32.3      | 33.7                    | 34.3              | 27.9      | 22.9                    | 30.7             | 24.5      | 25.3                    |
| Late or No Prenatal Care (%) | 5.6        | 4.2       | 33.3                    | 7.3                 | 7.0       | 4.3                     | 8.6               | 8.3       | 3.6                     | 9.3              | 8.6       | 8.1                     |
| Foreign-born (%)‡            | 46.7       | 44.0      | 6.1                     | 54.8                | 60.3      | -9.1                    | 52.6              | 59.0      | -10.8                   | 36.8             | 46.6      | -21.0                   |

\*Births with missing census tracts are excluded. New York City resident births only.

†See Technical Notes: Neighborhood Poverty. Neighborhood poverty (based on census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level.

‡See Technical Notes: Geographical Units, Birthplace Presentation.

# PREGNANCY OUTCOMES

Table PO21. Pregnancy Outcomes, Pregnancy Outcome Rates\*, and Pregnancy Rates\* by Woman's Age Group, Racial/Ethnic Group, and Borough of Residence, New York City, 2021

|                                   | Age Group†   | Live Births |               | Spontaneous Terminations |              | Induced Terminations |               | Pregnancy       |                |                 |
|-----------------------------------|--------------|-------------|---------------|--------------------------|--------------|----------------------|---------------|-----------------|----------------|-----------------|
|                                   |              | Years       | Counts‡       | Rates per 1,000          | Counts‡      | Rates per 1,000      | Counts‡       | Rates per 1,000 | Counts‡        | Rates per 1,000 |
| <b>New York City§</b>             |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 2,131         | 9.4                      | 134          | 0.6                  | 2,901         | 12.7            | 5,166          | 22.7            |
|                                   | 20-29        |             | 35,408        | 58.3                     | 1,590        | 2.6                  | 19,955        | 32.8            | 56,953         | 93.7            |
|                                   | 30-39        |             | 54,906        | 80.7                     | 3,050        | 4.5                  | 13,206        | 19.4            | 71,162         | 104.6           |
|                                   | 40-49        |             | 6,817         | 12.5                     | 836          | 1.5                  | 1,751         | 3.2             | 9,404          | 17.2            |
|                                   | <b>Total</b> |             | <b>99,262</b> | <b>11.7</b>              | <b>5,610</b> | <b>3.1</b>           | <b>37,813</b> | <b>21.0</b>     | <b>142,685</b> | <b>79.4</b>     |
| <b>Racial/Ethnic Groups  </b>     |              |             |               |                          |              |                      |               |                 |                |                 |
| <b>Hispanic/Latino</b>            |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 1,275         | 15.9                     | 49           | 0.6                  | 1,055         | 13.1            | 2,379          | 29.6            |
|                                   | 20-29        |             | 12,875        | 71.1                     | 482          | 2.7                  | 5,988         | 33.0            | 19,345         | 106.8           |
|                                   | 30-39        |             | 12,940        | 69.3                     | 694          | 3.7                  | 3,320         | 17.8            | 16,954         | 90.8            |
|                                   | 40-49        |             | 1,572         | 9.8                      | 215          | 1.3                  | 390           | 2.4             | 2,177          | 13.5            |
|                                   | <b>Total</b> |             | <b>28,662</b> | <b>11.6</b>              | <b>1,440</b> | <b>2.7</b>           | <b>10,753</b> | <b>20.2</b>     | <b>40,855</b>  | <b>76.9</b>     |
| <b>Asian and Pacific Islander</b> |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 53            | 1.8                      | 0            | 0.0                  | 76            | 2.6             | 129            | 4.5             |
|                                   | 20-29        |             | 4,124         | 44.9                     | 121          | 1.3                  | 842           | 9.2             | 5,087          | 55.4            |
|                                   | 30-39        |             | 9,763         | 84.6                     | 326          | 2.8                  | 805           | 7.0             | 10,894         | 94.4            |
|                                   | 40-49        |             | 987           | 10.3                     | 75           | 0.8                  | 153           | 1.6             | 1,215          | 12.7            |
|                                   | <b>Total</b> |             | <b>14,927</b> | <b>11.6</b>              | <b>522</b>   | <b>1.8</b>           | <b>1,876</b>  | <b>6.6</b>      | <b>17,325</b>  | <b>60.8</b>     |
| <b>Non-Hispanic/Latino White</b>  |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 244           | 4.1                      | 16           | 0.3                  | 169           | 2.8             | 429            | 7.1             |
|                                   | 20-29        |             | 10,701        | 57.1                     | 332          | 1.8                  | 1,678         | 9.0             | 12,711         | 67.9            |
|                                   | 30-39        |             | 22,280        | 100.0                    | 879          | 3.9                  | 1,541         | 6.9             | 24,700         | 110.8           |
|                                   | 40-49        |             | 2,798         | 17.9                     | 237          | 1.5                  | 264           | 1.7             | 3,299          | 21.1            |
|                                   | <b>Total</b> |             | <b>36,023</b> | <b>13.4</b>              | <b>1,464</b> | <b>2.7</b>           | <b>3,652</b>  | <b>6.6</b>      | <b>41,139</b>  | <b>74.5</b>     |
| <b>Non-Hispanic/Latino Black</b>  |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 532           | 10.3                     | 42           | 0.8                  | 1,151         | 22.2            | 1,725          | 33.3            |
|                                   | 20-29        |             | 7,074         | 53.5                     | 410          | 3.1                  | 8,146         | 61.6            | 15,630         | 118.1           |
|                                   | 30-39        |             | 8,708         | 61.6                     | 596          | 4.2                  | 5,091         | 36.0            | 14,395         | 101.8           |
|                                   | 40-49        |             | 1,294         | 10.5                     | 167          | 1.4                  | 571           | 4.6             | 2,032          | 16.5            |
|                                   | <b>Total</b> |             | <b>17,608</b> | <b>9.5</b>               | <b>1,215</b> | <b>3.1</b>           | <b>14,959</b> | <b>38.6</b>     | <b>33,782</b>  | <b>87.1</b>     |
| <b>Borough of Residence¶</b>      |              |             |               |                          |              |                      |               |                 |                |                 |
| <b>Manhattan</b>                  |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 192           | 5.1                      | 19           | 0.5                  | 355           | 9.3             | 566            | 14.9            |
|                                   | 20-29        |             | 2,976         | 21.9                     | 183          | 1.3                  | 2,858         | 21.0            | 6,017          | 44.2            |
|                                   | 30-39        |             | 9,179         | 64.4                     | 518          | 3.6                  | 1,803         | 12.7            | 11,500         | 80.7            |
|                                   | 40-49        |             | 1,252         | 12.6                     | 149          | 1.5                  | 256           | 2.6             | 1,657          | 16.6            |
|                                   | <b>Total</b> |             | <b>13,599</b> | <b>8.6</b>               | <b>869</b>   | <b>2.4</b>           | <b>5,272</b>  | <b>14.3</b>     | <b>19,740</b>  | <b>53.6</b>     |
| <b>Bronx</b>                      |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 687           | 14.9                     | 38           | 0.8                  | 682           | 14.8            | 1,407          | 30.4            |
|                                   | 20-29        |             | 7,251         | 70.5                     | 371          | 3.6                  | 4,207         | 40.9            | 11,829         | 115.0           |
|                                   | 30-39        |             | 6,886         | 64.8                     | 586          | 5.5                  | 2,608         | 24.5            | 10,080         | 94.8            |
|                                   | 40-49        |             | 810           | 8.8                      | 157          | 1.7                  | 285           | 3.1             | 1,252          | 13.7            |
|                                   | <b>Total</b> |             | <b>15,634</b> | <b>11.0</b>              | <b>1,152</b> | <b>3.8</b>           | <b>7,782</b>  | <b>25.7</b>     | <b>24,568</b>  | <b>81.2</b>     |
| <b>Brooklyn</b>                   |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 629           | 8.9                      | 26           | 0.4                  | 905           | 12.9            | 1,560          | 22.2            |
|                                   | 20-29        |             | 13,038        | 67.8                     | 364          | 1.9                  | 6,249         | 32.5            | 19,651         | 102.1           |
|                                   | 30-39        |             | 16,777        | 74.0                     | 667          | 2.9                  | 4,067         | 17.9            | 21,511         | 94.8            |
|                                   | 40-49        |             | 2,239         | 13.1                     | 186          | 1.1                  | 553           | 3.2             | 2,978          | 17.4            |
|                                   | <b>Total</b> |             | <b>32,683</b> | <b>12.4</b>              | <b>1,243</b> | <b>2.1</b>           | <b>11,774</b> | <b>20.3</b>     | <b>45,700</b>  | <b>78.9</b>     |
| <b>Queens</b>                     |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 432           | 7.5                      | 38           | 0.7                  | 647           | 11.2            | 1,117          | 19.3            |
|                                   | 20-29        |             | 7,327         | 50.0                     | 426          | 2.9                  | 4,380         | 29.9            | 12,133         | 82.7            |
|                                   | 30-39        |             | 10,855        | 63.2                     | 687          | 4.0                  | 2,963         | 17.3            | 14,505         | 84.4            |
|                                   | 40-49        |             | 1,253         | 8.2                      | 195          | 1.3                  | 402           | 2.6             | 1,850          | 12.2            |
|                                   | <b>Total</b> |             | <b>19,867</b> | <b>8.5</b>               | <b>1,346</b> | <b>3.0</b>           | <b>8,392</b>  | <b>18.5</b>     | <b>29,605</b>  | <b>65.3</b>     |
| <b>Staten Island</b>              |              |             |               |                          |              |                      |               |                 |                |                 |
|                                   | 15-19        |             | 91            | 6.0                      | 5            | 0.3                  | 95            | 6.3             | 191            | 12.7            |
|                                   | 20-29        |             | 1,651         | 55.3                     | 89           | 3.0                  | 661           | 22.1            | 2,401          | 80.4            |
|                                   | 30-39        |             | 2,958         | 90.3                     | 184          | 5.6                  | 416           | 12.7            | 3,558          | 108.6           |
|                                   | 40-49        |             | 263           | 8.4                      | 43           | 1.4                  | 53            | 1.7             | 359            | 11.4            |
|                                   | <b>Total</b> |             | <b>4,963</b>  | <b>10.1</b>              | <b>321</b>   | <b>3.4</b>           | <b>1,225</b>  | <b>13.1</b>     | <b>6,509</b>   | <b>69.8</b>     |

Population data used to calculate rates are 2021 estimates from the US Census Bureau. See Technical Notes: Population.

\*See Technical Notes: Population, Vital Event Rates.

†The denominators for total rates are females ages 15-44, except for total birth rates, which are the entire population.

‡Counts for females ages 15 to 19 are the number of events to females age <20; counts for females ages 40 to 49 are the number of events to females ages 40 and over. See Technical Notes: Vital Event Rates.

§Includes all events occurring in NYC regardless of residence.

||Other/unknown race and ethnicity are excluded.

¶Numbers and rates are limited to events occurring in NYC to NYC residents only.



# PREGNANCY OUTCOMES

Table PO22. Most Popular Baby Names by Sex, New York City, Selected Years

| Girls     |           |           |          |           |           |          |          |         |          |        |           |          |
|-----------|-----------|-----------|----------|-----------|-----------|----------|----------|---------|----------|--------|-----------|----------|
| Rank 1898 | 1928      | 1948      | 1980     | 1990      | 2000      | 2005     | 2010     | 2017    | 2018     | 2019   | 2020      | 2021     |
| 1         | Mary      | Linda     | Jennifer | Stephanie | Ashley    | Emily    | Isabella | Emma    | Emma     | Emma   | Emma      | Emma     |
| 2         | Catherine | Mary      | Jessica  | Jessica   | Samantha  | Ashley   | Sophia   | Olivia  | Isabella | Olivia | Sophia    | Olivia   |
| 3         | Margaret  | Annie     | Barbara  | Melissa   | Ashley    | Kayla    | Kayla    | Olivia  | Mia      | Sophia | Sophia    | Mia      |
| 4         | Annie     | Margaret  | Patricia | Nicole    | Jennifer  | Emily    | Sarah    | Emily   | Sophia   | Mia    | Mia       | Olivia   |
| 5         | Rose      | Catherine | Susan    | Michelle  | Amanda    | Brianna  | Isabella | Madison | Isabella | Olivia | Isabella  | Isabella |
| 6         | Marie     | Gloria    | Kathleen | Elizabeth | Samantha  | Sarah    | Samantha | Mia     | Ava      | Ava    | Leah      | Ava      |
| 7         | Esther    | Helen     | Carol    | Lisa      | Nicole    | Jessica  | Sophia   | Emma    | Leah     | Leah   | Ava       | Leah     |
| 8         | Sarah     | Teresa    | Nancy    | Christina | Christina | Nicole   | Nicole   | Leah    | Emily    | Sarah  | Chloe     | Sarah    |
| 9         | Frances   | Joan      | Margaret | Tiffany   | Melissa   | Michelle | Olivia   | Sarah   | Sarah    | Amelia | Amelia    | Chloe    |
| 10        | Ida       | Barbara   | Diane    | Maria     | Michelle  | Amanda   | Rachel   | Chloe   | Abigail  | Chloe  | Charlotte | Amelia   |

| Boys      |         |         |         |             |             |         |             |         |         |           |         |           |
|-----------|---------|---------|---------|-------------|-------------|---------|-------------|---------|---------|-----------|---------|-----------|
| Rank 1898 | 1928    | 1948    | 1980    | 1990        | 2000        | 2005    | 2010        | 2017    | 2018    | 2019      | 2020    | 2021      |
| 1         | John    | Robert  | Michael | Michael     | Michael     | Michael | Jayden      | Liam    | Liam    | Liam      | Liam    | Liam      |
| 2         | William | John    | David   | Christopher | Justin      | Daniel  | Ethan       | Noah    | Noah    | Noah      | Noah    | Noah      |
| 3         | Charles | James   | Jason   | Jonathan    | Christopher | Joshua  | Daniel      | Jacob   | Ethan   | Ethan     | Jacob   | Ethan     |
| 4         | George  | Michael | Joseph  | Anthony     | Matthew     | David   | Jacob       | Ethan   | Jacob   | Jacob     | Ethan   | Lucas     |
| 5         | Joseph  | Richard | William | Christopher | David       | Daniel  | Justin      | David   | Aiden   | Lucas     | Lucas   | Jacob     |
| 6         | Edward  | Edward  | Richard | Anthony     | Daniel      | Anthony | Matthew     | Justin  | Lucas   | David     | Aiden   | Joseph    |
| 7         | James   | Robert  | Joseph  | John        | Joseph      | Joshua  | Anthony     | Michael | Matthew | Lucas     | Daniel  | David     |
| 8         | Louis   | Thomas  | Thomas  | Daniel      | Matthew     | David   | Christopher | Matthew | Jayden  | Matthew   | Michael | Aiden     |
| 9         | Francis | George  | Stephen | Robert      | John        | Joseph  | Joseph      | Joseph  | Aiden   | Daniel    | David   | Alexander |
| 10        | Samuel  | Louis   | David   | James       | Andrew      | Kevin   | Nicholas    | Joshua  | Daniel  | Alexander | Matthew | Daniel    |

Table PO23. Most Popular Baby Names by Sex and Mother's Racial/Ethnic Group, New York City, 2021

| Rank | Girls    |                 |           |           |              | Boys     |                 |           |           |              |
|------|----------|-----------------|-----------|-----------|--------------|----------|-----------------|-----------|-----------|--------------|
|      | Overall  | Hispanic/Latino | NHL-Black | NHL-White | Asian & P.I. | Overall  | Hispanic/Latino | NHL-Black | NHL-White | Asian & P.I. |
| 1    | Emma     | Isabella        | Ava       | Esther    | Chloe*       | Liam     | Liam            | Noah      | Moshe     | Muhammad     |
| 2    | Olivia   | Luna            | Nova      | Leah      | Olivia*      | Noah     | Noah            | Amir      | David     | Ethan        |
| 3    | Mia      | Emma*           | Gianna    | Chaya     | Emma         | Ethan    | Matthew         | Elijah    | Joseph    | Lucas        |
| 4    | Sophia   | Mia*            | Olivia    | Emma      | Mia          | Lucas    | Lucas           | Liam      | Benjamin  | Aiden        |
| 5    | Leah     | Camila          | Fatoumata | Rachel    | Ava          | Jacob    | Dylan           | Josiah*   | Noah      | Jasper       |
| 6    | Ava      | Sophia          | Aaliyah   | Miriam    | Amelia       | Joseph   | Jacob           | Legend*   | James     | Jayden*      |
| 7    | Isabella | Sofia           | Serenity* | Olivia    | Evelyn       | David    | Jayden          | Jayden**  | Jack      | Liam*        |
| 8    | Amelia   | Gianna          | Zuri*     | Sarah     | Sophia       | Daniel   | Sebastian       | Zion**    | Jacob     | Noah         |
| 9    | Luna     | Valentina       | Amelia    | Sophia    | Aria         | Aiden    | Ethan           | Aiden     | Chaim     | Ryan         |
| 10   | Sofia    | Alaia           | Madison   | Charlotte | Emily        | Benjamin | Mateo           | Amari     | Leo       | Ian          |

\* Tied ranks

\*\* Tied ranks

NHL=Non-Hispanic/Latino; P.I.=Pacific Islander. Mothers of other, multiple, or unknown racial/ethnic group are not shown.

# PERINATAL PERIODS OF RISK (PPOR)

Table 1. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk, Year, and Woman's Racial/Ethnic Group, New York City, 2017-2021

| Year  | Births and Fetal Deaths* | Maternal Health/Prematurity |            | Maternal Care |            | Newborn Care |            | Infant Health |            | Total Fetal-Infant Mortality |            |
|---|--------------------------|-----------------------------|------------|---------------|------------|--------------|------------|---------------|------------|------------------------------|------------|
|   | Number                   | Number                      | Rate       | Number        | Rate       | Number       | Rate       | Number        | Rate       | Number                       | Rate       |
| 2017  | 117,320                  | 376                         | 3.2        | 235           | 2.0        | 93           | 0.8        | 99            | 0.8        | 803                          | 6.8        |
| 2018  | 114,641                  | 314                         | 2.7        | 274           | 2.4        | 85           | 0.7        | 100           | 0.9        | 773                          | 6.7        |
| 2019  | 110,692                  | 273                         | 2.5        | 227           | 2.1        | 93           | 0.8        | 99            | 0.9        | 692                          | 6.3        |
| 2020  | 100,307                  | 272                         | 2.7        | 224           | 2.2        | 83           | 0.8        | 89            | 0.9        | 668                          | 6.7        |
| 2021  | 99,463                   | 255                         | 2.6        | 190           | 1.9        | 73           | 0.7        | 101           | 1.0        | 619                          | 6.2        |
| <b>Woman's Racial/Ethnic Group, 2017-2021</b> |                          |                             |            |               |            |              |            |               |            |                              |            |
| Puerto Rican                                  | 27,774                   | 80                          | 2.9        | 31            | 1.1        | 29           | 1.0        | 40            | 1.4        | 180                          | 6.5        |
| Hispanic/Latino (not Puerto Rican)            | 124,382                  | 291                         | 2.3        | 203           | 1.6        | 115          | 0.9        | 108           | 0.9        | 717                          | 5.8        |
| Asian and Pacific Islander                    | 88,572                   | 168                         | 1.9        | 132           | 1.5        | 51           | 0.6        | 54            | 0.6        | 405                          | 4.6        |
| Non-Hispanic/Latino White                     | 192,202                  | 296                         | 1.5        | 325           | 1.7        | 119          | 0.6        | 90            | 0.5        | 830                          | 4.3        |
| Non-Hispanic/Latino Black                     | 99,349                   | 552                         | 5.6        | 343           | 3.5        | 109          | 1.1        | 185           | 1.9        | 1,189                        | 12.0       |
| Other or Unknown                              | 10,144                   | 103                         | -          | 116           | -          | 4            | -          | 11            | -          | 234                          | -          |
| <b>NEW YORK CITY</b>                          | <b>542,423</b>           | <b>1,490</b>                | <b>2.7</b> | <b>1,150</b>  | <b>2.1</b> | <b>427</b>   | <b>0.8</b> | <b>488</b>    | <b>0.9</b> | <b>3,555</b>                 | <b>6.6</b> |

\*Limited to fetal deaths and live births with a birthweight of 500 grams or more, and fetal deaths with gestation of at least 24 weeks.

# PERINATAL PERIODS OF RISK (PPOR)

**Table 2. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk and Community District of Residence, New York City, 2017-2021**

| Community District of Residence    | Births and Fetal Deaths* |              | Maternal Health/Prematurity |              | Maternal Care |             | Newborn Care |             | Infant Health |              | Total Fetal-Infant Mortality |      |
|------------------------------------|--------------------------|--------------|-----------------------------|--------------|---------------|-------------|--------------|-------------|---------------|--------------|------------------------------|------|
|                                    | No.                      | Rate         | No.                         | Rate         | No.           | Rate        | No.          | Rate        | No.           | Rate         | No.                          | Rate |
| <b>MANHATTAN</b>                   | <b>77,092</b>            | <b>1.40</b>  | <b>1.18</b>                 | <b>1.13</b>  | <b>1.17</b>   | <b>1.42</b> | <b>0.5</b>   | <b>0.44</b> | <b>0.6</b>    | <b>358</b>   | <b>4.6</b>                   |      |
| Battery Park, Tribeca (01)         | 5,037                    | 7            | 1.4                         | 8            | 1.6           | 1           | 0.2          | 1           | 0.2           | 17           | 3.4                          |      |
| Greenwich Village, SOHO (02)       | 3,249                    | 3            | 0.9                         | 1            | 0.3           | -           | 0.0          | -           | -             | 4            | 1.2                          |      |
| Lower East Side (03)               | 5,179                    | 8            | 1.5                         | 12           | 2.3           | 6           | 1.2          | 4           | 0.8           | 30           | 5.8                          |      |
| Chelsea, Clinton (04)              | 4,704                    | 7            | 1.5                         | 8            | 1.7           | -           | 0.0          | 2           | 0.4           | 17           | 3.6                          |      |
| Midtown Business District (05)     | 2,762                    | 4            | 1.4                         | 7            | 2.5           | -           | 0.0          | 2           | 0.7           | 13           | 4.7                          |      |
| Murray Hill (06)                   | 6,056                    | 11           | 1.8                         | 9            | 1.5           | 4           | 0.7          | 1           | 0.2           | 25           | 4.1                          |      |
| Upper West Side (07)               | 10,968                   | 9            | 0.8                         | 24           | 2.2           | 4           | 0.4          | 2           | 0.2           | 39           | 3.6                          |      |
| Upper East Side (08)               | 11,981                   | 11           | 0.9                         | 17           | 1.4           | 4           | 0.3          | 1           | 0.1           | 33           | 2.8                          |      |
| Manhattanville (09)                | 4,489                    | 16           | 3.6                         | 6            | 1.3           | 3           | 0.7          | 5           | 1.1           | 30           | 6.7                          |      |
| Central Harlem (10)                | 6,896                    | 19           | 2.8                         | 16           | 2.3           | 10          | 1.5          | 11          | 1.6           | 56           | 8.1                          |      |
| East Harlem (11)                   | 6,659                    | 23           | 3.5                         | 13           | 2.0           | 8           | 1.2          | 10          | 1.5           | 54           | 8.1                          |      |
| Washington Heights (12)            | 9,112                    | 22           | 2.4                         | 11           | 1.2           | 2           | 0.2          | 5           | 0.5           | 40           | 4.4                          |      |
| <b>BRONX</b>                       | <b>87,801</b>            | <b>3.45</b>  | <b>3.9</b>                  | <b>2.21</b>  | <b>2.5</b>    | <b>0.90</b> | <b>1.0</b>   | <b>1.14</b> | <b>1.3</b>    | <b>770</b>   | <b>8.8</b>                   |      |
| Mott Haven (01)                    | 6,807                    | 34           | 5.0                         | 11           | 1.6           | 10          | 1.5          | 11          | 1.6           | 66           | 9.7                          |      |
| Hunts Point (02)                   | 3,745                    | 12           | 3.2                         | 7            | 1.9           | 3           | 0.8          | 2           | -             | 24           | 6.4                          |      |
| Morrisania (03)                    | 6,639                    | 18           | 2.7                         | 18           | 2.7           | 7           | 1.1          | 10          | 1.5           | 53           | 8.0                          |      |
| Concourse, Highbridge (04)         | 10,609                   | 43           | 4.1                         | 38           | 3.6           | 10          | 0.9          | 20          | 1.9           | 111          | 10.5                         |      |
| University/Morris Heights (05)     | 9,651                    | 31           | 3.2                         | 17           | 1.8           | 9           | 0.9          | 11          | 1.1           | 68           | 7.0                          |      |
| East Tremont (06)                  | 5,806                    | 28           | 4.8                         | 19           | 3.3           | 8           | 1.4          | 14          | 2.4           | 69           | 11.9                         |      |
| Fordham (07)                       | 9,511                    | 39           | 4.1                         | 24           | 2.5           | 4           | 0.4          | 7           | 0.7           | 74           | 7.8                          |      |
| Riverdale (08)                     | 4,954                    | 14           | 2.8                         | 12           | 2.4           | 6           | 1.2          | 2           | 0.4           | 34           | 6.9                          |      |
| Unionport, Soundview (09)          | 11,250                   | 41           | 3.6                         | 30           | 2.7           | 13          | 1.2          | 18          | 1.6           | 102          | 9.1                          |      |
| Throgs Neck (10)                   | 4,640                    | 21           | 4.5                         | 11           | 2.4           | 4           | 0.9          | 3           | 0.6           | 39           | 8.4                          |      |
| Pelham Parkway (11)                | 6,322                    | 21           | 3.3                         | 15           | 2.4           | 8           | 1.3          | 8           | 1.3           | 52           | 8.2                          |      |
| Williamsbridge (12)                | 7,867                    | 43           | 5.5                         | 19           | 2.4           | 8           | 1.0          | 8           | 1.0           | 78           | 9.9                          |      |
| <b>BROOKLYN</b>                    | <b>179,581</b>           | <b>4.74</b>  | <b>2.6</b>                  | <b>4.03</b>  | <b>2.2</b>    | <b>1.29</b> | <b>0.7</b>   | <b>1.63</b> | <b>0.9</b>    | <b>1,169</b> | <b>6.5</b>                   |      |
| Williamsburg, Greenpoint (01)      | 17,882                   | 24           | 1.3                         | 43           | 2.4           | 7           | 0.4          | 17          | 1.0           | 91           | 5.1                          |      |
| Fort Greene, Brooklyn Heights (02) | 8,230                    | 12           | 1.5                         | 18           | 2.2           | 1           | 0.1          | 7           | 0.9           | 38           | 4.6                          |      |
| Bedford Stuyvesant (03)            | 10,636                   | 28           | 2.6                         | 31           | 2.9           | 7           | 0.7          | 15          | 1.4           | 81           | 7.6                          |      |
| Bushwick (04)                      | 5,283                    | 12           | 2.3                         | 8            | 1.5           | 4           | 0.8          | 3           | 0.6           | 27           | 5.1                          |      |
| East New York (05)                 | 11,982                   | 64           | 5.3                         | 29           | 2.4           | 16          | 1.3          | 23          | 1.9           | 132          | 11.0                         |      |
| Park Slope (06)                    | 7,732                    | 15           | 1.9                         | 13           | 1.7           | 3           | 0.4          | 6           | 0.8           | 37           | 4.8                          |      |
| Sunset Park (07)                   | 9,019                    | 18           | 2.0                         | 8            | 0.9           | 4           | 0.4          | 3           | 0.3           | 33           | 3.7                          |      |
| Crown Heights North (08)           | 5,850                    | 30           | 5.1                         | 13           | 2.2           | 1           | 0.2          | 3           | 0.5           | 47           | 8.0                          |      |
| Crown Heights South (09)           | 6,810                    | 17           | 2.5                         | 21           | 3.1           | 10          | 1.5          | 10          | 1.5           | 58           | 8.5                          |      |
| Bay Ridge (10)                     | 7,741                    | 12           | 1.6                         | 13           | 1.7           | 3           | 0.4          | 3           | 0.4           | 31           | 4.0                          |      |
| Bensonhurst (11)                   | 11,825                   | 12           | 1.0                         | 15           | 1.3           | 12          | 1.0          | 5           | 0.4           | 44           | 3.7                          |      |
| Borough Park (12)                  | 24,489                   | 43           | 1.8                         | 50           | 2.0           | 17          | 0.7          | 10          | 0.4           | 120          | 4.9                          |      |
| Coney Island (13)                  | 5,573                    | 14           | 2.5                         | 12           | 2.2           | 4           | 0.7          | 8           | 1.4           | 38           | 6.8                          |      |
| Flatbush, Midwood (14)             | 11,335                   | 28           | 2.5                         | 17           | 1.5           | 7           | 0.6          | 9           | 0.8           | 61           | 5.4                          |      |
| Sheepshead Bay (15)                | 10,788                   | 30           | 2.8                         | 25           | 2.3           | 11          | 1.0          | 8           | 0.7           | 74           | 6.9                          |      |
| Brownsville (16)                   | 5,861                    | 29           | 4.9                         | 22           | 3.8           | 6           | 1.0          | 11          | 1.9           | 68           | 11.6                         |      |
| East Flatbush (17)                 | 8,369                    | 44           | 5.3                         | 34           | 4.1           | 4           | 0.5          | 11          | 1.3           | 93           | 11.1                         |      |
| Canarsie (18)                      | 10,176                   | 42           | 4.1                         | 31           | 3.0           | 12          | 1.2          | 11          | 1.1           | 96           | 9.4                          |      |
| <b>QUEENS</b>                      | <b>113,934</b>           | <b>2.86</b>  | <b>2.5</b>                  | <b>2.37</b>  | <b>2.1</b>    | <b>0.70</b> | <b>0.6</b>   | <b>1.11</b> | <b>1.0</b>    | <b>704</b>   | <b>6.2</b>                   |      |
| Astoria, Long Island City (01)     | 8,969                    | 12           | 1.3                         | 18           | 2.0           | 9           | 1.0          | 13          | 1.4           | 52           | 5.8                          |      |
| Sunnyside, Woodside (02)           | 7,545                    | 9            | 1.2                         | 15           | 2.0           | 2           | 0.3          | 2           | 0.3           | 28           | 3.7                          |      |
| Jackson Heights (03)               | 9,973                    | 16           | 1.6                         | 22           | 2.2           | 4           | 0.4          | 9           | 0.9           | 51           | 5.1                          |      |
| Elmhurst, Corona (04)              | 10,238                   | 18           | 1.8                         | 13           | 1.3           | 8           | 0.8          | 8           | 0.8           | 47           | 4.6                          |      |
| Ridgewood, Glendale (05)           | 8,102                    | 21           | 2.6                         | 13           | 1.6           | 3           | 0.4          | 7           | 0.9           | 44           | 5.4                          |      |
| Rego Park, Forest Hills (06)       | 6,108                    | 10           | 1.6                         | 4            | 0.7           | 5           | 0.8          | 4           | 0.7           | 23           | 3.8                          |      |
| Flushing (07)                      | 11,191                   | 30           | 2.7                         | 16           | 1.4           | 1           | 0.1          | 12          | 1.1           | 59           | 5.3                          |      |
| Fresh Meadows, Briarwood (08)      | 7,851                    | 17           | 2.2                         | 10           | 1.3           | 5           | 0.6          | 9           | 1.1           | 41           | 5.2                          |      |
| Woodhaven (09)                     | 8,493                    | 23           | 2.7                         | 26           | 3.1           | 1           | 0.1          | 6           | 0.7           | 56           | 6.6                          |      |
| Howard Beach (10)                  | 6,033                    | 20           | 3.3                         | 11           | 1.8           | 4           | 0.7          | 5           | 0.8           | 40           | 6.6                          |      |
| Bayside (11)                       | 2,691                    | 5            | 1.9                         | 3            | 1.1           | 2           | 1            | 2           | 0.7           | 12           | 4.5                          |      |
| Jamaica, St. Albans (12)           | 13,539                   | 52           | 3.8                         | 49           | 3.6           | 15          | 1.1          | 18          | 1.3           | 134          | 9.9                          |      |
| Queens Village (13)                | 7,412                    | 31           | 4.2                         | 23           | 3.1           | 8           | 1.1          | 9           | 1.2           | 71           | 9.6                          |      |
| The Rockaways (14)                 | 5,789                    | 22           | 3.8                         | 14           | 2.4           | 3           | 0.5          | 7           | 1.2           | 46           | 7.9                          |      |
| <b>STATEN ISLAND</b>               | <b>25,446</b>            | <b>0.67</b>  | <b>2.6</b>                  | <b>0.55</b>  | <b>2.2</b>    | <b>0.27</b> | <b>1.1</b>   | <b>0.25</b> | <b>1.0</b>    | <b>174</b>   | <b>6.8</b>                   |      |
| Port Richmond (01)                 | 10,833                   | 39           | 3.6                         | 26           | 2.4           | 15          | 1.4          | 12          | 1.1           | 92           | 8.5                          |      |
| Willowbrook, South Beach (02)      | 6,923                    | 20           | 2.9                         | 15           | 2.2           | 8           | 1.2          | 8           | 1.2           | 51           | 7.4                          |      |
| Tottenville (03)                   | 7,624                    | 8            | 1.0                         | 14           | 1.8           | 4           | 0.5          | 5           | 0.7           | 31           | 4.1                          |      |
| <b>NEW YORK CITY RESIDENTS</b>     | <b>483,854</b>           | <b>1.312</b> | <b>2.7</b>                  | <b>1,048</b> | <b>2.2</b>    | <b>358</b>  | <b>0.7</b>   | <b>457</b>  | <b>0.9</b>    | <b>3,175</b> | <b>6.6</b>                   |      |
| <b>NON-RESIDENTS</b>               | <b>58,525</b>            | <b>0.171</b> | <b>2.9</b>                  | <b>100</b>   | <b>1.7</b>    | <b>67</b>   | <b>1.1</b>   | <b>29</b>   | <b>0.5</b>    | <b>367</b>   | <b>6.3</b>                   |      |
| <b>RESIDENCE UNKNOWN</b>           | <b>44</b>                | <b>7</b>     | <b>-</b>                    | <b>2</b>     | <b>-</b>      | <b>2</b>    | <b>-</b>     | <b>2</b>    | <b>-</b>      | <b>13</b>    | <b>-</b>                     |      |

\*Limited to fetal deaths and live births with a birthweight of 500 grams or more, and fetal deaths with gestation of at least 24 weeks.

Note: Borough totals may be higher than the sum of the community districts, as they may include some live births whose community district could not be determined.

# INFANT MORTALITY

Table IM1. Infant Deaths by Cause, Sex, and Age, New York City, 2021

| Cause of Death (ICD-10 Codes)  | Total      | Male                |                          | Female              |                          |
|--|------------|---------------------|--------------------------|---------------------|--------------------------|
|  |            | Neonatal (<28 days) | Post-Neonatal (≥28 days) | Neonatal (<28 days) | Post-Neonatal (≥28 days) |
| <b>Total</b>   | <b>400</b> | <b>123</b>          | <b>91</b>                | <b>123</b>          | <b>63</b>                |
| 1 HIV Infection (B20-B24)*   | -          | -                   | -                        | -                   | -                        |
| 2 Diseases of the Circulatory System (I00-I99)*                                  | 8          | 2                   | 4                        | -                   | 2                        |
| 3 Influenza and Pneumonia (J10-J18)*   | -          | -                   | -                        | -                   | -                        |
| 4 Newborn Affected by Maternal Complications of Pregnancy (P01)*                 | 3          | 1                   | -                        | 2                   | -                        |
| 5 Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)*      | 6          | 6                   | -                        | -                   | -                        |
| 6 Short Gestation and Low Birthweight (P07)*                                     | 69         | 28                  | 5                        | 32                  | 4                        |
| 7 Intrauterine Hypoxia and Birth Asphyxia (P20-P21)*                             | 5          | 1                   | -                        | 4                   | -                        |
| 8 Respiratory Distress of Newborn (P22)*   | 13         | 4                   | -                        | 9                   | -                        |
| 9 Pulmonary Hemorrhage Originating in the Perinatal Period (P26)*                | 9          | 6                   | -                        | 3                   | -                        |
| 10 Atelectasis (P28.0-P28.1)*  | 4          | 1                   | -                        | 2                   | 1                        |
| 11 Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)†   | 6          | 2                   | -                        | 4                   | -                        |
| 12 Cardiovascular Disorders Originating in the Perinatal Period (P29)†           | 38         | 22                  | -                        | 16                  | -                        |
| 13 Infections Specific to the Perinatal Period (P35-P39)†                        | 16         | 10                  | 1                        | 5                   | -                        |
| Bacterial sepsis of newborn (P36)  | 12         | 7                   | 1                        | 4                   | -                        |
| 14 Neonatal Hemorrhage (P50-P52, P54)*   | 2          | 2                   | -                        | -                   | -                        |
| 15 Necrotizing Enterocolitis of Newborn (P77)*                                   | 5          | 4                   | -                        | 1                   | -                        |
| 16 Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99) | 17         | 8                   | -                        | 9                   | -                        |
| 17 Congenital Malformations, Deformations (Q00-Q99)*                             | 82         | 22                  | 18                       | 26                  | 16                       |
| Congenital malformations of heart (Q20-Q24)                                      | 27         | 3                   | 8                        | 6                   | 10                       |
| 18 Sudden Infant Death Syndrome (R95)*   | 24         | -                   | 15                       | 1                   | 8                        |
| 19 COVID-19  | 2          | -                   | 2                        | -                   | -                        |
| 20 All Other Diseases (Rest of A00-R99)  | 59         | 3                   | 30                       | 7                   | 19                       |
| 21 External Causes (V01-Y89)†  | 32         | 1                   | 16                       | 2                   | 13                       |

\*Causes are used to rank leading causes nationally and in New York City.

†Contains causes not eligible to be ranked as a leading cause nationally but are frequent in New York City. Including these groups permits recognition of important causes of infant death.



# INFANT MORTALITY

Table IM4. Live Births and Infant Mortality, Overall and by Mother's Racial/Ethnic Group, New York City, 2017-2021

| Mother's Racial/Ethnic Group                 | 2017           | 2018           | 2019           | 2020           | 2021          |
|--|----------------|----------------|----------------|----------------|---------------|
| <b>Live Births, Total</b>                    | <b>117,013</b> | <b>114,296</b> | <b>110,442</b> | <b>100,022</b> | <b>99,262</b> |
| Puerto Rican                                 | 6,307          | 5,995          | 5,422          | 5,198          | 4,826         |
| Hispanic/Latino (not Puerto Rican)           | 26,553         | 25,711         | 24,796         | 23,236         | 23,836        |
| Asian and Pacific Islander                   | 20,110         | 19,024         | 18,725         | 15,633         | 14,927        |
| Non-Hispanic/Latino White                    | 40,345         | 40,327         | 39,278         | 35,812         | 36,023        |
| Non-Hispanic/Latino Black                    | 21,992         | 21,145         | 20,053         | 18,162         | 17,608        |
| Other or Unknown                             | 1,706          | 2,094          | 2,168          | 1,981          | 2,042         |
| <b>Infant Deaths (&lt; 1 year), Total</b>    | <b>500</b>     | <b>446</b>     | <b>464</b>     | <b>388</b>     | <b>400</b>    |
| Puerto Rican                                 | 40             | 32             | 28             | 30             | 21            |
| Hispanic/Latino (not Puerto Rican)           | 115            | 87             | 97             | 99             | 91            |
| Asian and Pacific Islander                   | 69             | 51             | 46             | 44             | 41            |
| Non-Hispanic/Latino White                    | 95             | 94             | 104            | 77             | 66            |
| Non-Hispanic/Latino Black                    | 171            | 166            | 173            | 126            | 162           |
| Other or Unknown                             | 10             | 16             | 16             | 12             | 19            |
| <b>Infant Mortality Rate, Total</b>          | <b>4.3</b>     | <b>3.9</b>     | <b>4.2</b>     | <b>3.9</b>     | <b>4.0</b>    |
| Puerto Rican                                 | 6.3            | 5.3            | 5.2            | 5.8            | 4.4           |
| Hispanic/Latino (not Puerto Rican)           | 4.3            | 3.4            | 3.9            | 4.3            | 3.8           |
| Asian and Pacific Islander                   | 3.4            | 2.7            | 2.5            | 2.8            | 2.7           |
| Non-Hispanic/Latino White                    | 2.4            | 2.3            | 2.6            | 2.2            | 1.8           |
| Non-Hispanic/Latino Black                    | 7.8            | 7.9            | 8.6            | 6.9            | 9.2           |
| <b>Neonatal Deaths (&lt; 28 days), Total</b> | <b>344</b>     | <b>278</b>     | <b>305</b>     | <b>244</b>     | <b>246</b>    |
| Puerto Rican                                 | 26             | 21             | 15             | 18             | 14            |
| Hispanic/Latino (not Puerto Rican)           | 76             | 47             | 71             | 65             | 50            |
| Asian and Pacific Islander                   | 52             | 33             | 30             | 30             | 29            |
| Non-Hispanic/Latino White                    | 66             | 69             | 73             | 52             | 39            |
| Non-Hispanic/Latino Black                    | 121            | 95             | 106            | 69             | 99            |
| <b>Neonatal Mortality Rate, Total</b>        | <b>2.9</b>     | <b>2.4</b>     | <b>2.8</b>     | <b>2.4</b>     | <b>2.5</b>    |
| Puerto Rican                                 | 4.1            | 3.5            | 2.8            | 3.5            | 2.9           |
| Hispanic/Latino (not Puerto Rican)           | 2.9            | 1.8            | 2.9            | 2.8            | 2.1           |
| Asian and Pacific Islander                   | 2.6            | 1.7            | 1.6            | 1.9            | 1.9           |
| Non-Hispanic/Latino White                    | 1.6            | 1.7            | 1.9            | 1.5            | 1.1           |
| Non-Hispanic/Latino Black                    | 5.5            | 4.5            | 5.3            | 3.8            | 5.6           |

# INFANT MORTALITY

Table IM5. Infant Mortality Rate by Mother's Birthplace\*, New York City, 2015-2021

| Birthplace <sup>†</sup>               | 2015-2017  | 2016-2018  | 2017-2019  | 2018-2020  | 2019-2021  |
|---------------------------------------|------------|------------|------------|------------|------------|
| <b>New York City</b>                  | <b>4.2</b> | <b>4.1</b> | <b>4.1</b> | <b>4.0</b> | <b>4.0</b> |
| <b>United States<sup>‡</sup></b>      | <b>4.4</b> | <b>4.2</b> | <b>4.3</b> | <b>4.0</b> | <b>4.1</b> |
| United States (excluding Puerto Rico) | 4.4        | 4.1        | 4.3        | 4.1        | 4.1        |
| Puerto Rico                           | 6.0        | 5.2        | 3.8        | 1.8        | 2.5        |
| El Salvador                           | 4.1        | 6.0        | 6.9        | 8.9        | 10.6       |
| Haiti                                 | 7.6        | 7.3        | 7.8        | 7.8        | 8.6        |
| Jamaica                               | 6.5        | 7.6        | 7.0        | 6.1        | 6.0        |
| Ghana                                 | 6.3        | 5.9        | 5.5        | 3.8        | 6.0        |
| Trinidad and Tobago                   | 5.2        | 3.6        | 3.6        | 5.0        | 5.9        |
| Guyana                                | 4.8        | 4.5        | 4.5        | 5.7        | 5.8        |
| Honduras                              | 2.2        | 2.2        | 3.4        | 3.4        | 4.5        |
| Yemen Arab Republic                   | 4.7        | 4.9        | 5.1        | 4.4        | 4.5        |
| Pakistan                              | 6.4        | 5.1        | 4.2        | 4.0        | 4.3        |
| Guatemala                             | 3.1        | 3.1        | 3.4        | 4.4        | 4.3        |
| Ecuador                               | 3.8        | 3.0        | 3.4        | 3.6        | 3.8        |
| Bangladesh                            | 4.5        | 4.2        | 4.3        | 3.1        | 3.7        |
| Dominican Republic                    | 3.7        | 2.9        | 2.8        | 3.0        | 3.3        |
| Israel                                | 1.2        | 2.8        | 3.7        | 4.7        | 3.2        |
| Phillipines                           | 2.4        | 4.5        | 4.8        | 4.0        | 3.1        |
| Nigeria                               | 1.6        | 3.1        | 4.6        | 5.6        | 3.1        |
| United Kingdom                        | 1.3        | 0.7        | 1.4        | 2.8        | 2.9        |
| India                                 | 2.4        | 2.6        | 2.7        | 3.1        | 2.8        |
| Canada                                | 2.6        | 1.5        | 1.0        | 2.7        | 2.8        |
| Mexico                                | 3.0        | 3.1        | 3.5        | 2.8        | 2.7        |
| Egypt                                 | 3.8        | 2.6        | 2.9        | 1.7        | 2.7        |
| Colombia                              | 5.0        | 3.9        | 2.3        | 1.5        | 2.0        |
| Russia                                | 2.0        | 2.8        | 1.8        | 2.3        | 1.7        |
| Poland                                | 2.1        | 1.1        | 1.9        | 1.4        | 1.7        |
| China                                 | 1.7        | 1.8        | 1.9        | 1.5        | 1.5        |
| Uzbekistan                            | 1.8        | 2.2        | 2.2        | 1.5        | 1.3        |
| Japan                                 | 2.9        | 2.4        | 0.8        | 1.8        | 1.0        |
| Ukraine                               | 1.5        | 2.0        | 1.3        | 1.4        | 0.5        |
| Korea                                 | 3.3        | 1.6        | 1.2        | 0.0        | 0.0        |

\*The infant mortality rate is listed only for countries with 500 or more live births in any year from 2015-2021.

<sup>†</sup>Foreign countries are listed according to the descending order of infant mortality rates in the most current period.

<sup>‡</sup>See Technical Notes: Geographical Units, Birthplace Presentation.

# INFANT MORTALITY

Table IM6. Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2017–2021

| CD  | NEW YORK CITY                 | 2017–2019*            |                          | 2018–2020*            |                          | 2019–2021*            |                          |
|-----|-------------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|
|     |                               | Infant Mortality Rate | Neonatal† Mortality Rate | Infant Mortality Rate | Neonatal† Mortality Rate | Infant Mortality Rate | Neonatal† Mortality Rate |
|     | <b>NEW YORK CITY</b>          | <b>4.1</b>            | <b>2.7</b>               | <b>4.0</b>            | <b>2.5</b>               | <b>4.0</b>            | <b>2.6</b>               |
|     | <b>MANHATTAN</b>              | <b>2.7</b>            | <b>1.9</b>               | <b>2.5</b>            | <b>1.7</b>               | <b>2.7</b>            | <b>1.8</b>               |
| 101 | Battery Park, Tribeca         | 1.8                   | 1.2                      | 1.3                   | 1.3                      | 1.4                   | 1.1                      |
| 102 | Greenwich Village, SOHO       | 0.0                   | 0.0                      | 0.0                   | 0.0                      | 0.0                   | 0.0                      |
| 103 | Lower East Side               | 3.2                   | 2.3                      | 2.2                   | 1.3                      | 1.4                   | 0.7                      |
| 104 | Chelsea, Clinton              | 2.3                   | 1.7                      | 2.4                   | 1.7                      | 2.6                   | 1.9                      |
| 105 | Midtown Business District     | 3.4                   | 1.7                      | 3.5                   | 1.8                      | 2.5                   | 0.6                      |
| 106 | Murray Hill                   | 2.6                   | 1.8                      | 1.6                   | 1.3                      | 0.9                   | 0.9                      |
| 107 | Upper West Side               | 1.4                   | 1.1                      | 2.0                   | 1.5                      | 1.9                   | 1.4                      |
| 108 | Upper East Side               | 1.2                   | 1.2                      | 0.8                   | 0.8                      | 0.9                   | 0.7                      |
| 109 | Manhattanville                | 3.5                   | 2.4                      | 2.6                   | 1.5                      | 3.5                   | 2.4                      |
| 110 | Central Harlem                | 5.7                   | 3.6                      | 5.5                   | 3.6                      | 7.2                   | 4.9                      |
| 111 | East Harlem                   | 5.9                   | 3.7                      | 5.6                   | 3.5                      | 6.1                   | 4.0                      |
| 112 | Washington Heights            | 2.4                   | 1.7                      | 2.8                   | 1.5                      | 3.2                   | 1.8                      |
|     | <b>BRONX</b>                  | <b>5.2</b>            | <b>3.2</b>               | <b>5.1</b>            | <b>3.1</b>               | <b>5.3</b>            | <b>3.5</b>               |
| 201 | Mott Haven                    | 6.5                   | 3.5                      | 5.4                   | 3.2                      | 7.0                   | 5.2                      |
| 202 | Hunts Point                   | 4.3                   | 2.6                      | 4.0                   | 2.2                      | 3.3                   | 1.9                      |
| 203 | Morrisania                    | 5.0                   | 3.1                      | 6.5                   | 3.7                      | 5.9                   | 3.8                      |
| 204 | Concourse, Highbridge         | 5.3                   | 2.8                      | 5.3                   | 2.9                      | 5.3                   | 3.1                      |
| 205 | University/Morris Heights     | 4.3                   | 2.7                      | 4.0                   | 2.2                      | 4.5                   | 2.2                      |
| 206 | East Tremont                  | 8.4                   | 5.1                      | 6.2                   | 2.8                      | 6.2                   | 3.2                      |
| 207 | Fordham                       | 3.8                   | 3.0                      | 4.2                   | 3.0                      | 4.1                   | 2.8                      |
| 208 | Riverdale                     | 2.9                   | 1.9                      | 3.8                   | 2.7                      | 3.5                   | 2.8                      |
| 209 | Unionport, Soundview          | 5.8                   | 2.9                      | 4.3                   | 2.2                      | 4.4                   | 2.9                      |
| 210 | Throgs Neck                   | 3.5                   | 2.5                      | 2.9                   | 2.5                      | 4.5                   | 3.4                      |
| 211 | Pelham Parkway                | 4.7                   | 2.2                      | 6.0                   | 3.1                      | 7.0                   | 4.2                      |
| 212 | Williamsbridge                | 7.1                   | 6.1                      | 8.1                   | 6.4                      | 8.1                   | 6.1                      |
|     | <b>BROOKLYN</b>               | <b>3.5</b>            | <b>2.2</b>               | <b>3.3</b>            | <b>2.0</b>               | <b>3.2</b>            | <b>1.9</b>               |
| 301 | Williamsburg, Greenpoint      | 1.9                   | 0.9                      | 1.2                   | 0.6                      | 2.0                   | 0.9                      |
| 302 | Fort Greene, Brooklyn Heights | 1.9                   | 1.2                      | 2.2                   | 1.8                      | 2.9                   | 1.9                      |
| 303 | Bedford Stuyvesant            | 4.2                   | 2.3                      | 4.9                   | 3.0                      | 3.7                   | 1.9                      |
| 304 | Bushwick                      | 2.7                   | 1.5                      | 3.2                   | 1.9                      | 3.4                   | 2.4                      |
| 305 | East New York                 | 7.5                   | 4.9                      | 6.9                   | 4.3                      | 6.1                   | 3.9                      |
| 306 | Park Slope                    | 2.1                   | 1.2                      | 1.7                   | 1.5                      | 1.8                   | 0.9                      |
| 307 | Sunset Park                   | 2.5                   | 1.8                      | 2.0                   | 1.5                      | 1.7                   | 1.5                      |
| 308 | Crown Heights North           | 3.6                   | 2.5                      | 3.4                   | 1.7                      | 3.6                   | 1.8                      |
| 309 | Crown Heights South           | 6.1                   | 4.2                      | 6.1                   | 3.9                      | 3.9                   | 2.6                      |
| 310 | Bay Ridge                     | 1.8                   | 1.0                      | 2.6                   | 1.5                      | 2.1                   | 1.2                      |
| 311 | Bensonhurst                   | 2.6                   | 2.3                      | 2.4                   | 2.1                      | 2.3                   | 1.8                      |
| 312 | Borough Park                  | 2.1                   | 1.5                      | 2.0                   | 1.2                      | 2.2                   | 1.2                      |
| 313 | Coney Island                  | 4.0                   | 2.0                      | 4.7                   | 2.6                      | 4.6                   | 2.2                      |
| 314 | Flatbush, Midwood             | 3.2                   | 2.1                      | 2.4                   | 1.5                      | 2.2                   | 1.1                      |
| 315 | Sheepshead Bay                | 3.7                   | 2.5                      | 2.6                   | 1.8                      | 1.9                   | 1.4                      |
| 316 | Brownsville                   | 7.3                   | 3.8                      | 6.2                   | 3.4                      | 8.4                   | 5.4                      |
| 317 | East Flatbush                 | 5.6                   | 3.2                      | 5.9                   | 3.4                      | 6.9                   | 4.3                      |
| 318 | Canarsie                      | 5.1                   | 2.8                      | 3.6                   | 1.6                      | 3.3                   | 2.1                      |
|     | <b>QUEENS</b>                 | <b>3.9</b>            | <b>2.6</b>               | <b>3.9</b>            | <b>2.5</b>               | <b>3.9</b>            | <b>2.5</b>               |
| 401 | Astoria, Long Island City     | 4.8                   | 2.7                      | 3.1                   | 1.7                      | 2.7                   | 1.6                      |
| 402 | Sunnyside, Woodside           | 2.1                   | 1.9                      | 2.4                   | 1.9                      | 2.1                   | 1.6                      |
| 403 | Jackson Heights               | 2.3                   | 1.7                      | 2.5                   | 1.5                      | 2.7                   | 1.8                      |
| 404 | Elmhurst, Corona              | 2.9                   | 2.3                      | 3.3                   | 2.8                      | 3.7                   | 2.3                      |
| 405 | Ridgewood, Glendale           | 3.3                   | 2.0                      | 2.9                   | 1.0                      | 3.0                   | 1.5                      |
| 406 | Rego Park, Forest Hills       | 2.3                   | 1.5                      | 3.5                   | 2.4                      | 3.8                   | 2.6                      |
| 407 | Flushing                      | 3.5                   | 2.0                      | 2.8                   | 1.8                      | 2.5                   | 1.5                      |
| 408 | Fresh Meadows, Briarwood      | 3.7                   | 2.4                      | 3.8                   | 2.5                      | 3.4                   | 2.1                      |
| 409 | Woodhaven                     | 2.8                   | 1.5                      | 3.9                   | 2.6                      | 4.2                   | 2.5                      |
| 410 | Howard Beach                  | 2.7                   | 2.1                      | 3.9                   | 2.5                      | 5.2                   | 3.7                      |
| 411 | Bayside                       | 6.4                   | 4.6                      | 5.1                   | 2.6                      | 4.7                   | 3.3                      |
| 412 | Jamaica, St. Albans           | 5.2                   | 3.8                      | 5.5                   | 3.6                      | 5.8                   | 3.7                      |
| 413 | Queens Village                | 9.3                   | 6.8                      | 7.7                   | 5.2                      | 6.7                   | 4.3                      |
| 414 | The Rockaways                 | 4.7                   | 2.4                      | 5.0                   | 2.5                      | 5.7                   | 2.8                      |
|     | <b>STATEN ISLAND</b>          | <b>4.6</b>            | <b>3.5</b>               | <b>3.4</b>            | <b>2.4</b>               | <b>4.2</b>            | <b>2.7</b>               |
| 501 | Port Richmond                 | 5.8                   | 4.2                      | 4.8                   | 2.8                      | 5.4                   | 3.7                      |
| 502 | Willowbrook, South Beach      | 4.8                   | 4.3                      | 2.7                   | 2.7                      | 3.9                   | 2.2                      |
| 503 | Tottenville                   | 2.6                   | 1.9                      | 2.2                   | 1.6                      | 2.9                   | 2.0                      |

\*Due to instability in the infant mortality rates by community district, rates are presented in rolling three-year averages.

†Neonatal infants are those less than 28 days old.



# INFANT MORTALITY

Table IM7. Live Births and Infant Mortality Rate by Characteristics of Mother and Infant, New York City, 2021

| Characteristics                              | Infant Mortality Rate (IMR) Per 1,000 Live Births |              |            |            |            |            |                |            |        |      |
|--|---|--------------|------------|------------|------------|------------|----------------|------------|--------|------|
|  | Live Births                                       |              | All        |            | Neonatal*  |            | Post-Neonatal* |            |        |      |
|  | Number  | Percent      | Deaths     | Rate       | Deaths     | Rate       | Deaths         | Rate       | Deaths | Rate |
| <b>Total</b>                                 | <b>99,262</b>                                     | <b>100.0</b> | <b>400</b> | <b>4.0</b> | <b>246</b> | <b>2.5</b> | <b>154</b>     | <b>1.6</b> |        |      |
| <b>Race/Ethnicity</b>                        |   |              |            |            |            |            |                |            |        |      |
| Puerto Rican                                 | 4,826   | 4.9          | 21         | 4.4        | 14         | 2.9        | 7              | 1.5        |        |      |
| Hispanic/Latino not of Puerto Rican ancestry | 23,836  | 24.0         | 91         | 3.8        | 50         | 2.1        | 41             | 1.7        |        |      |
| Asian and Pacific Islander                   | 14,927  | 15.0         | 41         | 2.7        | 29         | 1.9        | 12             | 0.8        |        |      |
| Non-Hispanic/Latino White                    | 36,023  | 36.3         | 66         | 1.8        | 39         | 1.1        | 27             | 0.7        |        |      |
| Non-Hispanic/Latino Black                    | 17,608  | 17.7         | 162        | 9.2        | 99         | 5.6        | 63             | 3.6        |        |      |
| Other and Unknown                            | 2,042   | 2.1          | 19         | -          | 15         | -          | 4              | -          |        |      |
| <b>Borough of Residence</b>                  |   |              |            |            |            |            |                |            |        |      |
| Manhattan                                    | 13,599  | 13.7         | 36         | 2.6        | 23         | 1.7        | 13             | 1.0        |        |      |
| Bronx  | 15,634  | 15.8         | 81         | 5.2        | 56         | 3.6        | 25             | 1.6        |        |      |
| Brooklyn                                     | 32,683  | 32.9         | 101        | 3.1        | 62         | 1.9        | 39             | 1.2        |        |      |
| Queens                                       | 19,867  | 20.0         | 80         | 4.0        | 45         | 2.3        | 35             | 1.8        |        |      |
| Staten Island                                | 4,963   | 5.0          | 28         | 5.6        | 16         | 3.2        | 12             | 2.4        |        |      |
| Non-NYC residents                            | 12,513  | 12.6         | 71         | 5.7        | 41         | 3.3        | 30             | 2.4        |        |      |
| Unknown                                      | 3   | -            | 3          | -          | 3          | -          | 0              | -          |        |      |
| <b>Age of Mother</b>                         |   |              |            |            |            |            |                |            |        |      |
| Age <18                                      | 512   | 0.5          | 4          | 7.8        | 3          | 5.9        | 1              | 2.0        |        |      |
| Age 18-19                                    | 1,619   | 1.6          | 12         | 7.4        | 8          | 4.9        | 4              | 2.5        |        |      |
| Age 20-29                                    | 35,408  | 35.7         | 155        | 4.4        | 86         | 2.4        | 69             | 1.9        |        |      |
| Age 30-39                                    | 54,906  | 55.3         | 167        | 3.0        | 115        | 2.1        | 52             | 0.9        |        |      |
| Age ≥40                                      | 6,817   | 6.9          | 34         | 5.0        | 25         | 3.7        | 9              | 1.3        |        |      |
| Age unknown                                  | -   | -            | -          | -          | -          | -          | -              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Mother's Education</b>                    |   |              |            |            |            |            |                |            |        |      |
| 11th grade or less/12th grade, no diploma    | 13,058  | 13.2         | 79         | 6.0        | 48         | 3.7        | 31             | 2.4        |        |      |
| High school graduate or GED                  | 23,239  | 23.4         | 118        | 5.1        | 71         | 3.1        | 47             | 2.0        |        |      |
| Some college/associate degree                | 20,433  | 20.6         | 82         | 4.0        | 47         | 2.3        | 35             | 1.7        |        |      |
| Bachelor's degree                            | 22,543  | 22.7         | 47         | 2.1        | 34         | 1.5        | 13             | 0.6        |        |      |
| Master's degree or higher                    | 19,432  | 19.6         | 32         | 1.6        | 25         | 1.3        | 7              | 0.4        |        |      |
| Mother's education unknown                   | 557   | 0.6          | 14         | -          | 12         | -          | 2              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Marital Status of Mother‡</b>             |   |              |            |            |            |            |                |            |        |      |
| Not married                                  | 37,242  | 37.5         | 225        | 6.0        | 134        | 3.6        | 91             | 2.4        |        |      |
| Married                                      | 62,020  | 62.5         | 147        | 2.4        | 103        | 1.7        | 44             | 0.7        |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Mother's Birthplaces</b>                  |   |              |            |            |            |            |                |            |        |      |
| US born, including territories               | 53,193  | 53.6         | 210        | 3.9        | 132        | 2.5        | 78             | 1.5        |        |      |
| Foreign-born                                 | 45,974  | 46.3         | 158        | 3.4        | 101        | 2.2        | 57             | 1.2        |        |      |
| Birthplace unknown                           | 95  | 0.1          | 4          | -          | 4          | -          | -              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Primary Payer for This Birth</b>          |   |              |            |            |            |            |                |            |        |      |
| Medicaid                                     | 54,558  | 55.0         | 253        | 4.6        | 144        | 2.6        | 109            | 2.0        |        |      |
| Private                                      | 42,538  | 42.9         | 108        | 2.5        | 88         | 2.1        | 20             | 0.5        |        |      |
| Other  | 1,943   | 2.0          | 8          | 4.1        | 3          | 1.5        | 5              | 2.6        |        |      |
| Coverage unknown                             | 223   | 0.2          | 3          | -          | 2          | -          | 1              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Plurality</b>                             |   |              |            |            |            |            |                |            |        |      |
| Singletons                                   | 96,058  | 96.8         | 326        | 3.4        | 200        | 2.1        | 126            | 1.3        |        |      |
| Multiples                                    | 3,204   | 3.2          | 46         | 14.4       | 37         | 11.5       | 9              | 2.8        |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>First Prenatal Care Visit</b>             |   |              |            |            |            |            |                |            |        |      |
| No prenatal care                             | 1,041   | 1.0          | 21         | 20.2       | 15         | 14.4       | 6              | 5.8        |        |      |
| First Trimester (1-3 months)                 | 71,162  | 71.7         | 207        | 2.9        | 131        | 1.8        | 76             | 1.1        |        |      |
| Second Trimester (4-6 months)                | 17,992  | 18.1         | 82         | 4.6        | 50         | 2.8        | 32             | 1.8        |        |      |
| Third Trimester (7-9 months)                 | 5,760   | 5.8          | 31         | 5.4        | 17         | 3.0        | 14             | 2.4        |        |      |
| Prenatal care unknown                        | 3,307   | 3.3          | 31         | -          | 24         | -          | 7              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Pre-pregnancy Body Mass Index (BMI)</b>   |   |              |            |            |            |            |                |            |        |      |
| Underweight (BMI<18.5)                       | 4,172   | 4.2          | 13         | 3.1        | 5          | 1.2        | 8              | 1.9        |        |      |
| Normal weight (18.5≤BMI<25)                  | 48,070  | 48.4         | 120        | 2.5        | 75         | 1.6        | 45             | 0.9        |        |      |
| Overweight (25≤BMI<30)                       | 26,037  | 26.2         | 113        | 4.3        | 75         | 2.9        | 38             | 1.5        |        |      |
| Obese (BMI≥30)                               | 20,282  | 20.4         | 114        | 5.6        | 72         | 3.5        | 42             | 2.1        |        |      |
| Pre-pregnancy BMI unknown                    | 701   | 0.7          | 12         | -          | 10         | -          | 2              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |
| <b>Birthweight</b>                           |   |              |            |            |            |            |                |            |        |      |
| Very low birthweight                         | 1,469   | 1.5          | 196        | 133.4      | 162        | 110.3      | 34             | 23.1       |        |      |
| Low birthweight                              | 7,566   | 7.6          | 60         | 7.9        | 30         | 4.0        | 30             | 4.0        |        |      |
| Normal birthweight                           | 90,204  | 90.9         | 114        | 1.3        | 43         | 0.5        | 71             | 0.8        |        |      |
| Birthweight unknown                          | 23  | 0.0          | 2          | -          | 2          | -          | -              | -          |        |      |
| Unmatched†                                   | -   | -            | 28         | -          | 9          | -          | 19             | -          |        |      |

\*Neonatal infants are those less than 28 days old; post-neonatal infants are those 28 days to less than 1 year old.

†Infants who died in New York City who were born elsewhere were classified as unmatched.

‡See Technical Notes: Births, Mother's Marital Status.

# MORTALITY

Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2021

| Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)                                     | Borough of Residence |               |               |               |               |               |               |            | Sex           |               | ICD-10/ICD-9 Comparability Ratio |
|---|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|---------------|---------------|----------------------------------|
|   | Total                | Manhattan     | Bronx         | Brooklyn      | Queens        | Staten Island | Non-residents | Unknown    | Male          | Female        |                                  |
| <b>Total Deaths</b>   | <b>63,551</b>        | <b>10,709</b> | <b>11,129</b> | <b>17,970</b> | <b>14,665</b> | <b>4,171</b>  | <b>4,648</b>  | <b>259</b> | <b>32,950</b> | <b>30,601</b> |                                  |
| <b>Natural Causes</b>   | <b>58,158</b>        | <b>9,779</b>  | <b>9,853</b>  | <b>16,675</b> | <b>13,709</b> | <b>3,895</b>  | <b>4,130</b>  | <b>117</b> | <b>28,995</b> | <b>29,163</b> |                                  |
| 1.* Tuberculosis (A16-A19)  | 24                   | 6             | 3             | 3             | 9             | 1             | 2             | -          | 16            | 8             | 0.88                             |
| Respiratory tuberculosis (A16)  | 20                   | 5             | 3             | 2             | 8             | -             | 2             | -          | 13            | 7             | 0.94                             |
| 2.* Septicemia (A40-A41)  | 877                  | 162           | 179           | 289           | 166           | 19            | 61            | 1          | 451           | 426           | 1.19                             |
| 3.* Viral Hepatitis (B15-B19)   | 94                   | 21            | 22            | 23            | 12            | 7             | 8             | 1          | 65            | 29            | 0.71                             |
| 4.* Human Immunodeficiency Virus (HIV) Disease (B20-B24)  | 319                  | 62            | 133           | 87            | 21            | 2             | 12            | 2          | 229           | 90            | 1.08                             |
| 5. All Other Infective and Parasitic Diseases (Rest of A01-B99)   | 451                  | 81            | 86            | 109           | 95            | 20            | 59            | 1          | 241           | 210           |                                  |
| 6.* Malignant Neoplasms (C00-C97)   | 11,578               | 2,055         | 1,738         | 3,068         | 2,563         | 796           | 1,351         | 7          | 5,638         | 5,940         | 1.01                             |
| Lip, oral cavity, and pharynx (C00-C14)   | 204                  | 46            | 23            | 55            | 48            | 9             | 23            | -          | 147           | 57            | 0.96                             |
| Esophagus (C15)   | 236                  | 43            | 24            | 55            | 59            | 17            | 38            | -          | 174           | 62            | 0.99                             |
| Stomach (C16)   | 413                  | 54            | 62            | 111           | 119           | 26            | 40            | 1          | 241           | 172           | 1.01                             |
| Colon, rectum, and anus (C18-C21)   | 1,076                | 177           | 157           | 318           | 242           | 85            | 96            | 1          | 560           | 516           | 1.00                             |
| Liver and intrahepatic bile ducts (C22)   | 640                  | 108           | 127           | 137           | 159           | 49            | 59            | 1          | 414           | 226           | 0.96                             |
| Pancreas (C25)  | 1,050                | 182           | 136           | 300           | 225           | 66            | 139           | 2          | 504           | 546           | 1.00                             |
| Larynx (C32)  | 71                   | 9             | 19            | 18            | 10            | 5             | 10            | -          | 57            | 14            | 1.01                             |
| Trachea, bronchus, and lung (C33-C34)   | 2,019                | 361           | 299           | 523           | 441           | 192           | 202           | 1          | 1,076         | 943           | 0.98                             |
| Melanoma of skin (C43)  | 99                   | 22            | 11            | 28            | 13            | 3             | 22            | -          | 55            | 44            | 0.95                             |
| Mesothelioma (C45)  | 39                   | 10            | 2             | 4             | 8             | 3             | 12            | -          | 24            | 15            |                                  |
| Breast (C50)  | 913                  | 154           | 159           | 251           | 211           | 51            | 86            | 1          | 7             | 906           | 1.01                             |
| Cervix uteri (C53)  | 102                  | 18            | 20            | 31            | 22            | 4             | 7             | -          | -             | 102           | 1.00                             |
| Corpus uteri and uterus, part unspecified (C54-C55)   | 379                  | 70            | 71            | 117           | 75            | 13            | 33            | -          | -             | 379           | 1.02                             |
| Ovary (C56)   | 299                  | 43            | 42            | 82            | 72            | 23            | 37            | -          | -             | 299           | 0.99                             |
| Prostate (C61)  | 590                  | 118           | 101           | 172           | 126           | 28            | 45            | -          | 590           | -             | 1.01                             |
| Kidney and renal pelvis (C64-C65)   | 203                  | 33            | 29            | 43            | 54            | 15            | 29            | -          | 131           | 72            | 1.00                             |
| Bladder (C67)   | 236                  | 40            | 37            | 56            | 56            | 25            | 22            | -          | 158           | 78            | 1.00                             |
| Meninges, brain, and other parts of central nervous system (C70-C72)  | 308                  | 59            | 39            | 88            | 58            | 19            | 45            | -          | 178           | 130           | 0.98                             |
| Lymphoid, hematopoietic and related tissues (C81-C96)   | 1,172                | 213           | 151           | 278           | 235           | 66            | 229           | -          | 625           | 547           | 1.00                             |
| Hodgkin's disease (C81)   | 19                   | 1             | 8             | 5             | 2             | 3             | -             | -          | 11            | 8             | 1.00                             |
| Non-Hodgkin's lymphoma (C82-C85)  | 409                  | 83            | 49            | 81            | 93            | 14            | 89            | -          | 223           | 186           | 0.98                             |
| Multiple myeloma and immunoproliferative neoplasms (C88, C90)   | 275                  | 40            | 44            | 79            | 52            | 24            | 36            | -          | 142           | 133           | 1.04                             |
| Leukemia (C91-C95)  | 466                  | 88            | 50            | 112           | 88            | 25            | 103           | -          | 246           | 220           | 1.01                             |
| 7.* In Situ or Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior (D00-D48)                                    | 232                  | 41            | 23            | 73            | 52            | 9             | 34            | -          | 110           | 122           | 1.63                             |
| 8.* Anemias (D50-D64)   | 86                   | 16            | 12            | 29            | 17            | 2             | 10            | -          | 38            | 48            | 0.94                             |
| 9.* Diabetes Mellitus (E10-E14)   | 1,714                | 259           | 337           | 528           | 359           | 159           | 70            | 2          | 911           | 803           | 1.02                             |
| 10.† Mental and Behavioral Disorders Due to Use of Alcohol (F10)  | 379                  | 65            | 70            | 118           | 73            | 16            | 15            | 22         | 302           | 77            |                                  |
| 11. Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco (F11-F16, F18-F19) ‡ | 78                   | 11            | 28            | 13            | 8             | 6             | 8             | 4          | 64            | 14            |                                  |
| 12. Diseases of Nervous System (G00-G98)  | 2,880                | 700           | 430           | 634           | 752           | 235           | 129           | -          | 1,101         | 1,779         |                                  |
| * Meningitis (G00,G03)  | 14                   | -             | 3             | 6             | 2             | -             | 3             | -          | 5             | 9             | 1.01                             |
| * Parkinson's disease (G20-G21)   | 472                  | 131           | 51            | 112           | 127           | 27            | 24            | -          | 274           | 198           | 1.01                             |
| * Alzheimer's disease (G30)   | 1,120                | 273           | 204           | 238           | 283           | 83            | 39            | -          | 307           | 813           | 1.58                             |
| 13. Major Cardiovascular Diseases (I00-I78)   | 20,368               | 3,302         | 3,427         | 5,978         | 5,105         | 1,472         | 1,043         | 41         | 10,052        | 10,316        | 1.00                             |
| * Diseases of heart (I00-I09, I11, I13, I20-I51)  | 16,568               | 2,622         | 2,692         | 4,969         | 4,190         | 1,244         | 811           | 40         | 8,397         | 8,171         | 0.99                             |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)  | 51                   | 8             | 6             | 10            | 11            | 4             | 12            | -          | 14            | 37            | 0.88                             |
| Hypertensive heart disease (I11)  | 2,230                | 375           | 391           | 694           | 515           | 181           | 60            | 14         | 1,085         | 1,145         | 0.80                             |
| Hypertensive heart and renal disease (I13)  | 180                  | 27            | 41            | 73            | 25            | 9             | 5             | -          | 90            | 90            | 1.13                             |
| Chronic ischemic heart disease (I20, I25)   | 10,281               | 1,552         | 1,551         | 3,110         | 2,807         | 806           | 432           | 23         | 5,374         | 4,907         | 1.01                             |
| Acute myocardial infarction (I21-I22)   | 1,526                | 202           | 319           | 462           | 307           | 125           | 110           | 1          | 799           | 727           | 0.99                             |
| Cardiomyopathy (I42)  | 141                  | 29            | 15            | 30            | 36            | 7             | 24            | -          | 84            | 57            |                                  |

Table continued on following page

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Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2021 [CONTINUED]

| Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)   | Borough of Residence |              |              |              |              |               |               | Sex        |              | ICD-10/ICD-9 Comparability Ratio |             |
|---|----------------------|--------------|--------------|--------------|--------------|---------------|---------------|------------|--------------|----------------------------------|-------------|
|   | Total                | Manhattan    | Bronx        | Brooklyn     | Queens       | Staten Island | Non-residents | Unknown    | Male         |                                  | Female      |
| Heart failure (I50)   | 706                  | 144          | 120          | 200          | 172          | 30            | 40            | -          | 306          | 400                              | 1.04        |
| * Essential hypertension and hypertensive renal disease (I10, I12, I15)   | 1,283                | 215          | 274          | 359          | 302          | 82            | 51            | -          | 565          | 718                              | 1.12        |
| * Cerebrovascular diseases (I60-I69)  | 2,149                | 394          | 403          | 556          | 517          | 125           | 153           | 1          | 908          | 1,241                            | 1.05        |
| * Atherosclerosis (I70)   | 106                  | 11           | 13           | 29           | 36           | 12            | 5             | -          | 41           | 65                               | 0.97        |
| * Aortic aneurysm and dissection (I71)  | 141                  | 28           | 27           | 34           | 32           | 5             | 15            | -          | 86           | 55                               | 1.00        |
| <b>14.* Influenza and Pneumonia (J09-J18)</b>   | <b>1,628</b>         | <b>189</b>   | <b>332</b>   | <b>556</b>   | <b>375</b>   | <b>75</b>     | <b>99</b>     | <b>2</b>   | <b>866</b>   | <b>762</b>                       | <b>0.70</b> |
| H1N1 Flu (J09)  | 0                    | -            | -            | -            | -            | -             | -             | -          | -            | -                                | -           |
| <b>15.* Chronic Lower Respiratory Diseases (J40-J47)</b>  | <b>1,379</b>         | <b>223</b>   | <b>293</b>   | <b>355</b>   | <b>295</b>   | <b>151</b>    | <b>60</b>     | <b>2</b>   | <b>631</b>   | <b>748</b>                       | <b>1.04</b> |
| Emphysema (J43)   | 51                   | 6            | 8            | 11           | 19           | 6             | 1             | -          | 32           | 19                               | 0.96        |
| Asthma (J45-J46)  | 133                  | 23           | 49           | 29           | 21           | 7             | 4             | -          | 57           | 76                               | 0.89        |
| <b>16. Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)</b>  | <b>2</b>             | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>1</b>     | <b>1</b>      | <b>-</b>      | <b>-</b>   | <b>2</b>     | <b>-</b>                         | <b>-</b>    |
| <b>17.* Pneumonitis Due to Solids and Liquids (J69)</b>   | <b>295</b>           | <b>59</b>    | <b>41</b>    | <b>98</b>    | <b>79</b>    | <b>4</b>      | <b>13</b>     | <b>1</b>   | <b>136</b>   | <b>159</b>                       | <b>1.10</b> |
| <b>18.* Peptic Ulcer (K25-K28)</b>  | <b>72</b>            | <b>15</b>    | <b>15</b>    | <b>21</b>    | <b>11</b>    | <b>5</b>      | <b>5</b>      | <b>-</b>   | <b>37</b>    | <b>35</b>                        | <b>0.97</b> |
| <b>19.* Chronic Liver Disease and Cirrhosis (K70, K73-K74)</b>  | <b>606</b>           | <b>85</b>    | <b>128</b>   | <b>140</b>   | <b>141</b>   | <b>27</b>     | <b>81</b>     | <b>4</b>   | <b>416</b>   | <b>190</b>                       | <b>1.03</b> |
| Alcoholic liver disease (K70)   | 388                  | 55           | 82           | 86           | 94           | 16            | 51            | 4          | 285          | 103                              | 1.00        |
| <b>20.* Cholelithiasis and Other Disorders of Gallbladder (K80-K82)</b>   | <b>93</b>            | <b>23</b>    | <b>20</b>    | <b>23</b>    | <b>16</b>    | <b>4</b>      | <b>7</b>      | <b>-</b>   | <b>38</b>    | <b>55</b>                        | <b>0.96</b> |
| <b>21.* Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)</b>  | <b>691</b>           | <b>131</b>   | <b>99</b>    | <b>237</b>   | <b>142</b>   | <b>32</b>     | <b>50</b>     | <b>-</b>   | <b>369</b>   | <b>322</b>                       | <b>1.26</b> |
| Renal failure (N17-N19)   | 671                  | 130          | 97           | 229          | 135          | 31            | 49            | -          | 359          | 312                              | 1.33        |
| <b>22.* Pregnancy, Childbirth, and the Puerperium (O00-O99)</b>   | <b>23</b>            | <b>2</b>     | <b>5</b>     | <b>7</b>     | <b>4</b>     | <b>-</b>      | <b>5</b>      | <b>-</b>   | <b>-</b>     | <b>23</b>                        | <b>1.14</b> |
| Maternal causes (A34, O00-O95, O98-O99)§  | 22                   | 2            | 4            | 7            | 4            | -             | 5             | -          | -            | 22                               | -           |
| <b>23.* Certain Conditions Originating in the Perinatal Period (P00-P96)</b>  | <b>195</b>           | <b>16</b>    | <b>39</b>    | <b>52</b>    | <b>41</b>    | <b>14</b>     | <b>32</b>     | <b>1</b>   | <b>103</b>   | <b>92</b>                        | <b>1.08</b> |
| <b>24.* Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)</b>   | <b>185</b>           | <b>25</b>    | <b>32</b>    | <b>40</b>    | <b>29</b>    | <b>7</b>      | <b>50</b>     | <b>2</b>   | <b>101</b>   | <b>84</b>                        | <b>0.90</b> |
| <b>25. Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)</b>  | <b>577</b>           | <b>135</b>   | <b>81</b>    | <b>150</b>   | <b>148</b>   | <b>18</b>     | <b>44</b>     | <b>1</b>   | <b>240</b>   | <b>337</b>                       | <b>0.98</b> |
| <b>26. Sudden Infant Death Syndrome (R95)</b>   | <b>25</b>            | <b>3</b>     | <b>6</b>     | <b>9</b>     | <b>3</b>     | <b>3</b>      | <b>1</b>      | <b>-</b>   | <b>16</b>    | <b>9</b>                         | <b>1.06</b> |
| Pending final determination (R99)   | 0                    | -            | -            | -            | -            | -             | -             | -          | -            | -                                | -           |
| <b>27. Covid-19</b>   | <b>8,229</b>         | <b>1,067</b> | <b>1,390</b> | <b>2,637</b> | <b>2,087</b> | <b>564</b>    | <b>477</b>    | <b>7</b>   | <b>4,574</b> | <b>3,655</b>                     | <b>-</b>    |
| <b>28. All Other Natural Causes (Rest of A00-R99)</b>   | <b>5,078</b>         | <b>1,025</b> | <b>884</b>   | <b>1,398</b> | <b>1,105</b> | <b>246</b>    | <b>404</b>    | <b>16</b>  | <b>2,248</b> | <b>2,830</b>                     | <b>-</b>    |
| <b>External Causes</b>  | <b>5,393</b>         | <b>930</b>   | <b>1,276</b> | <b>1,295</b> | <b>956</b>   | <b>276</b>    | <b>518</b>    | <b>142</b> | <b>3,955</b> | <b>1,438</b>                     | <b>-</b>    |
| <b>28. Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)</b>   | <b>390</b>           | <b>49</b>    | <b>113</b>   | <b>116</b>   | <b>58</b>    | <b>18</b>     | <b>35</b>     | <b>1</b>   | <b>361</b>   | <b>29</b>                        | <b>1.00</b> |
| <b>29. Accidents (V01-X59, Y85-Y86)</b>   | <b>3,993</b>         | <b>690</b>   | <b>1,018</b> | <b>918</b>   | <b>683</b>   | <b>218</b>    | <b>369</b>    | <b>97</b>  | <b>2,859</b> | <b>1,134</b>                     | <b>1.03</b> |
| Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) †   | 2,666                | 452          | 781          | 588          | 385          | 144           | 245           | 71         | 2,002        | 664                              | 1.04        |
| † <b>Mental and behavioral disorders due to use of or accidental poisoning by psychoactive substance excluding alcohol and tobacco (F11-F16, F18-F19, X40-X42, X44) ‡</b> | <b>2,744</b>         | <b>463</b>   | <b>809</b>   | <b>601</b>   | <b>393</b>   | <b>150</b>    | <b>253</b>    | <b>75</b>  | <b>2,066</b> | <b>678</b>                       | <b>-</b>    |
| † <b>Accidents except poisoning by psychoactive substance use</b>   | <b>1,327</b>         | <b>238</b>   | <b>237</b>   | <b>330</b>   | <b>298</b>   | <b>74</b>     | <b>124</b>    | <b>26</b>  | <b>857</b>   | <b>470</b>                       | <b>-</b>    |
| Motor vehicle accidents   | 294                  | 35           | 55           | 86           | 56           | 19            | 37            | 6          | 216          | 78                               | 0.95        |
| Accidental falls (W00-W19)  | 603                  | 122          | 95           | 149          | 146          | 38            | 45            | 8          | 358          | 245                              | 0.77        |
| <b>30.* Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)</b>   | <b>563</b>           | <b>118</b>   | <b>68</b>    | <b>137</b>   | <b>127</b>   | <b>31</b>     | <b>69</b>     | <b>13</b>  | <b>420</b>   | <b>143</b>                       | <b>1.00</b> |
| <b>31.* Assault (Homicide) (U01-U02, X85-Y09, Y87.1)</b>  | <b>512</b>           | <b>75</b>    | <b>139</b>   | <b>152</b>   | <b>73</b>    | <b>19</b>     | <b>43</b>     | <b>11</b>  | <b>442</b>   | <b>70</b>                        | <b>1.00</b> |
| <b>32.* Legal Intervention (Y35, Y89.0)</b>   | <b>4</b>             | <b>-</b>     | <b>1</b>     | <b>2</b>     | <b>-</b>     | <b>-</b>      | <b>1</b>      | <b>-</b>   | <b>4</b>     | <b>-</b>                         | <b>0.94</b> |
| <b>33. Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)</b>  | <b>243</b>           | <b>36</b>    | <b>39</b>    | <b>62</b>    | <b>59</b>    | <b>6</b>      | <b>20</b>     | <b>21</b>  | <b>191</b>   | <b>52</b>                        | <b>0.99</b> |
| <b>34.* Complications of Medical and Surgical Care (Y40-Y84, Y88)</b>   | <b>78</b>            | <b>11</b>    | <b>11</b>    | <b>24</b>    | <b>14</b>    | <b>2</b>      | <b>16</b>     | <b>-</b>   | <b>39</b>    | <b>39</b>                        | <b>0.63</b> |
| <b>35.* Operations of War and Their Sequelae (Y36, Y89.1)</b>   | <b>0</b>             | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>-</b>      | <b>-</b>      | <b>-</b>   | <b>-</b>     | <b>-</b>                         | <b>-</b>    |

\*Eligible to be ranked as leading causes nationally and in New York City.

†The following cause groups are not ranked as leading causes nationally but are eligible to be ranked as leading causes in New York City because of the number of deaths and their public health importance: "Mental and behavioral disorders due to use of alcohol", "Mental and behavioral disorders due to use of psychoactive substances excluding alcohol and tobacco", and "Accidents", which in NYC excludes poisoning by psychoactive substances (excluding alcohol and tobacco).

‡See Technical Notes: Deaths, Drug-Related Deaths.

§See Technical Notes: Deaths, Maternal Death and Maternal Mortality.

||Motor vehicle accident codes include: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, and V89.2.

**Table M2. Deaths and Death Rates per 1,000 Population\* by Age, Racial/Ethnic Group, and Sex, New York City, 2021**

| Age in Years               | All    |       |        |       |        |      |        |      |       |       |       |      | Hispanic/Latino |       |        |        |        |       | Non-Hispanic/Latino White |      |       |      |       |      | Non-Hispanic/Latino Black |      |       |       |       |      | Asian and Pacific Islander |      |       |        |     |      | Other/Multiple Race/Unknown |      |        |      |
|----------------------------|--------|-------|--------|-------|--------|------|--------|------|-------|-------|-------|------|-----------------|-------|--------|--------|--------|-------|---------------------------|------|-------|------|-------|------|---------------------------|------|-------|-------|-------|------|----------------------------|------|-------|--------|-----|------|-----------------------------|------|--------|------|
|                            | Total  |       |        | Male  |        |      | Female |      |       | Total |       |      | Male            |       |        | Female |        |       | Total                     |      |       | Male |       |      | Female                    |      |       | Total |       |      | Male                       |      |       | Female |     |      | Total                       | Male | Female |      |
|                            | No.    | Rate  | No.    | Rate  | No.    | Rate | No.    | Rate | No.   | Rate  | No.   | Rate | No.             | Rate  | No.    | Rate   | No.    | Rate  | No.                       | Rate | No.   | Rate | No.   | Rate | No.                       | Rate | No.   | Rate  | No.   | Rate | No.                        | Rate | No.   | Rate   | No. | Rate | No.                         | Rate | No.    | Rate |
| <b>All Ages</b>            | 63,551 | 7.5   | 32,950 | 8.1   | 30,601 | 6.9  | 14,014 | 5.7  | 7,509 | 6.3   | 6,505 | 5.1  | 24,232          | 9.0   | 12,337 | 9.3    | 11,895 | 8.7   | 17,275                    | 9.4  | 8,487 | 10.0 | 8,788 | 8.8  | 6,160                     | 4.8  | 3,496 | 5.7   | 2,664 | 4.0  | 1,870                      | 4.0  | 1,121 | 7.49   |     |      |                             |      |        |      |
| <b>Age-Adjusted</b>        | 6.2    | 0.9   | 257    | 1.0   | 215    | 0.9  | 117    | 0.7  | 54    | 0.7   | 63    | 0.8  | 82              | 0.6   | 50     | 0.7    | 32     | 0.5   | 178                       | 1.8  | 109   | 2.1  | 69    | 1.4  | 44                        | 0.6  | 24    | 0.6   | 20    | 0.6  | 51                         | 2.0  | 31    |        |     |      |                             |      |        |      |
| Under 5                    | 64     | 0.1   | 33     | 0.1   | 31     | 0.1  | 19     | 0.1  | 9     | 0.1   | 10    | 0.1  | 20              | 0.2   | 9      | 0.1    | 11     | 0.2   | 17                        | 0.2  | 10    | 0.2  | 7     | 0.1  | 5                         | 0.1  | 3     | 0.1   | 2     | 0.0  | 3                          | 2    | 1     |        |     |      |                             |      |        |      |
| 5-9                        | 49     | 0.1   | 25     | 0.1   | 24     | 0.1  | 13     | 0.1  | 2     | 0.0   | 11    | 0.1  | 15              | 0.1   | 9      | 0.1    | 6      | 0.1   | 14                        | 0.1  | 10    | 0.2  | 4     | 0.1  | 5                         | 0.1  | 2     | 0.1   | 3     | 0.1  | 2                          | 2    |       |        |     |      |                             |      |        |      |
| 10-14                      | 161    | 0.3   | 126    | 0.5   | 35     | 0.2  | 51     | 0.3  | 39    | 0.5   | 12    | 0.1  | 28              | 0.2   | 21     | 0.3    | 7      | 0.1   | 59                        | 0.6  | 48    | 0.9  | 11    | 0.2  | 16                        | 0.3  | 11    | 0.4   | 5     | 0.2  | 7                          | 7    |       |        |     |      |                             |      |        |      |
| 15-19                      | 346    | 0.7   | 254    | 1.1   | 92     | 0.4  | 102    | 0.6  | 73    | 0.9   | 29    | 0.3  | 76              | 0.6   | 59     | 0.9    | 17     | 0.2   | 115                       | 1.0  | 84    | 1.6  | 31    | 0.5  | 40                        | 0.6  | 28    | 0.8   | 12    | 0.3  | 13                         | 10   | 3     |        |     |      |                             |      |        |      |
| 20-24                      | 581    | 0.9   | 419    | 1.3   | 162    | 0.5  | 197    | 1.0  | 147   | 1.5   | 50    | 0.5  | 138             | 0.6   | 96     | 0.9    | 42     | 0.4   | 182                       | 1.3  | 131   | 1.9  | 51    | 0.7  | 43                        | 0.4  | 29    | 0.6   | 14    | 0.3  | 21                         | 16   | 5     |        |     |      |                             |      |        |      |
| 25-29                      | 855    | 1.2   | 595    | 1.7   | 260    | 0.7  | 252    | 1.3  | 176   | 1.7   | 76    | 0.8  | 221             | 0.9   | 154    | 1.3    | 67     | 0.5   | 288                       | 1.9  | 198   | 2.7  | 90    | 1.2  | 60                        | 0.5  | 42    | 0.8   | 18    | 0.3  | 34                         | 25   | 9     |        |     |      |                             |      |        |      |
| 30-34                      | 1,059  | 1.7   | 712    | 2.3   | 347    | 1.1  | 350    | 1.9  | 254   | 2.8   | 96    | 1.1  | 259             | 1.3   | 169    | 1.6    | 90     | 0.9   | 348                       | 2.8  | 218   | 3.7  | 130   | 2.0  | 64                        | 0.6  | 48    | 1.0   | 16    | 0.3  | 38                         | 23   | 15    |        |     |      |                             |      |        |      |
| 35-39                      | 1,303  | 2.4   | 894    | 3.3   | 409    | 1.5  | 425    | 2.6  | 312   | 3.8   | 113   | 1.4  | 305             | 1.8   | 218    | 2.5    | 87     | 1.1   | 433                       | 3.8  | 268   | 5.1  | 165   | 2.6  | 91                        | 1.0  | 58    | 1.4   | 33    | 0.7  | 49                         | 38   | 11    |        |     |      |                             |      |        |      |
| 40-44                      | 1,598  | 3.1   | 1,032  | 4.2   | 566    | 2.1  | 474    | 3.1  | 334   | 4.5   | 140   | 1.8  | 394             | 2.6   | 261    | 3.3    | 133    | 1.8   | 519                       | 4.7  | 306   | 6.3  | 213   | 3.5  | 146                       | 1.7  | 86    | 2.1   | 60    | 1.3  | 65                         | 45   | 20    |        |     |      |                             |      |        |      |
| 45-49                      | 2,579  | 4.8   | 1,651  | 6.4   | 928    | 3.4  | 734    | 4.8  | 486   | 6.5   | 248   | 3.1  | 627             | 3.9   | 427    | 5.1    | 200    | 2.6   | 901                       | 7.3  | 536   | 9.8  | 365   | 5.3  | 204                       | 2.4  | 131   | 3.2   | 73    | 1.6  | 113                        | 71   | 42    |        |     |      |                             |      |        |      |
| 50-54                      | 3,971  | 7.4   | 2,521  | 9.8   | 1,450  | 5.2  | 1,000  | 6.7  | 665   | 9.6   | 335   | 4.2  | 987             | 6.1   | 641    | 7.7    | 346    | 4.5   | 1,506                     | 11.2 | 907   | 15.2 | 599   | 8.0  | 322                       | 3.7  | 201   | 4.9   | 121   | 2.7  | 156                        | 107  | 49    |        |     |      |                             |      |        |      |
| 55-59                      | 5,194  | 10.2  | 3,216  | 13.4  | 1,978  | 7.3  | 1,224  | 9.6  | 791   | 13.6  | 433   | 6.2  | 1,442           | 8.7   | 918    | 11.1   | 524    | 6.4   | 1,879                     | 14.9 | 1,082 | 19.5 | 797   | 11.3 | 438                       | 5.4  | 292   | 7.4   | 146   | 3.5  | 211                        | 133  | 78    |        |     |      |                             |      |        |      |
| 60-64                      | 5,979  | 13.8  | 3,484  | 17.6  | 2,495  | 10.6 | 1,298  | 12.7 | 750   | 16.8  | 548   | 9.5  | 1,930           | 12.3  | 1,201  | 16.0   | 729    | 8.9   | 1,922                     | 19.4 | 1,028 | 24.5 | 894   | 15.6 | 598                       | 8.5  | 355   | 10.5  | 243   | 6.7  | 231                        | 150  | 81    |        |     |      |                             |      |        |      |
| 65-69                      | 6,985  | 19.3  | 3,906  | 24.6  | 3,079  | 15.2 | 1,432  | 18.0 | 804   | 24.2  | 628   | 13.6 | 2,624           | 17.9  | 1,500  | 22.4   | 1,124  | 14.1  | 2,021                     | 26.1 | 1,033 | 33.4 | 988   | 21.3 | 690                       | 12.8 | 428   | 16.8  | 262   | 9.2  | 218                        | 141  | 77    |        |     |      |                             |      |        |      |
| 70-74                      | 6,991  | 29.4  | 3,631  | 36.9  | 3,360  | 24.0 | 1,528  | 27.9 | 771   | 35.8  | 757   | 22.8 | 2,736           | 28.2  | 1,481  | 35.0   | 1,255  | 22.9  | 1,862                     | 35.1 | 839   | 43.6 | 1,023 | 30.3 | 673                       | 21.8 | 418   | 29.4  | 255   | 15.3 | 192                        | 122  | 70    |        |     |      |                             |      |        |      |
| 75-79                      | 7,272  | 43.7  | 3,458  | 53.1  | 3,814  | 37.6 | 1,576  | 42.0 | 755   | 54.3  | 821   | 34.7 | 3,018           | 43.3  | 1,458  | 50.5   | 1,560  | 38.2  | 1,725                     | 48.4 | 697   | 57.7 | 1,028 | 43.6 | 777                       | 35.4 | 458   | 47.8  | 319   | 25.8 | 176                        | 90   | 86    |        |     |      |                             |      |        |      |
| 80-84                      | 18,092 | 102.8 | 6,736  | 111.9 | 11,356 | 98.0 | 3,222  | 91.5 | 1,087 | 96.1  | 2,135 | 89.3 | 9,330           | 115.2 | 3,665  | 124.6  | 5,665  | 109.8 | 3,306                     | 93.3 | 983   | 98.7 | 2,323 | 91.2 | 1,944                     | 85.9 | 882   | 98.5  | 1,062 | 77.6 | 290                        | 119  | 171   |        |     |      |                             |      |        |      |
| <b>Mean age at death</b>   | 72.4   | 68.8  | 76.2   | 69.3  | 65.2   | 75.9 | 77.0   | 73.6 | 80.5  | 68.5  | 64.4  | 72.5 | 73.9            | 71.9  | 76.6   | 65.7   | 64.0   | 68.3  |                           |      |       |      |       |      |                           |      |       |       |       |      |                            |      |       |        |     |      |                             |      |        |      |
| <b>Median age at death</b> | 75     | 71    | 79     | 72    | 67     | 78   | 80     | 76   | 84    | 70    | 66    | 74   | 77              | 75    | 80     | 68     | 67     | 72    |                           |      |       |      |       |      |                           |      |       |       |       |      |                            |      |       |        |     |      |                             |      |        |      |

\* Population data are from the US Census Bureau 2021 population estimates as of July 1, 2021, released in the 2022 vintage file. See Table PC2 on page 68.

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Table M3. Deaths by Ancestry\* and Borough of Residence, New York City, 2021

| Mother's Ancestry                       | Borough of Residence |               |               |               |               |               |               |                   |
|---|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|
|   | Total                | Manhattan     | Bronx         | Brooklyn      | Queens        | Staten Island | Non-residents | Residence Unknown |
| <b>Total</b>                            | <b>63,551</b>        | <b>10,709</b> | <b>11,129</b> | <b>17,970</b> | <b>14,665</b> | <b>4,171</b>  | <b>4,648</b>  | <b>259</b>        |
| <b>Hispanic/Latino</b>                  |                      |               |               |               |               |               |               |                   |
| Colombian                               | 474                  | 42            | 29            | 44            | 313           | 15            | 31            | -                 |
| Cuban                                   | 395                  | 102           | 87            | 57            | 107           | 11            | 31            | -                 |
| Dominican                               | 3,018                | 986           | 1,156         | 389           | 358           | 22            | 106           | 1                 |
| Ecuadorian                              | 840                  | 80            | 166           | 144           | 383           | 21            | 45            | 1                 |
| Mexican                                 | 711                  | 71            | 184           | 200           | 168           | 39            | 43            | 6                 |
| Puerto Rican                            | 5,560                | 1,041         | 2,256         | 1,317         | 537           | 199           | 200           | 10                |
| Other Hisp./Latino                      | 3,016                | 491           | 990           | 582           | 629           | 78            | 204           | 42                |
| <b>North American and the Caribbean</b> |                      |               |               |               |               |               |               |                   |
| African-American                        | 11,698               | 2,087         | 2,946         | 3,815         | 1,957         | 258           | 587           | 48                |
| American                                | 10,579               | 2,766         | 784           | 2,112         | 2,347         | 979           | 1,587         | 4                 |
| Guyanese                                | 1,342                | 16            | 135           | 421           | 711           | 6             | 53            | -                 |
| Haitian                                 | 1,096                | 46            | 31            | 709           | 250           | 7             | 53            | -                 |
| Jamaican                                | 1,397                | 42            | 355           | 584           | 314           | 12            | 88            | 2                 |
| Trinidadian                             | 740                  | 24            | 44            | 430           | 195           | 15            | 31            | 1                 |
| Other North American and the Caribbean  | 995                  | 90            | 171           | 536           | 140           | 19            | 38            | 1                 |
| <b>African</b>                          |                      |               |               |               |               |               |               |                   |
| Egyptian                                | 155                  | 21            | 1             | 42            | 38            | 38            | 15            | -                 |
| Ghanaian                                | 101                  | 11            | 51            | 17            | 13            | 3             | 5             | 1                 |
| Nigerian                                | 141                  | 9             | 42            | 48            | 24            | 10            | 8             | -                 |
| Other African                           | 258                  | 51            | 74            | 55            | 37            | 18            | 22            | 1                 |
| <b>European</b>                         |                      |               |               |               |               |               |               |                   |
| English                                 | 236                  | 56            | 26            | 40            | 38            | 42            | 34            | -                 |
| German                                  | 462                  | 87            | 52            | 41            | 163           | 64            | 55            | -                 |
| Irish                                   | 1,151                | 85            | 164           | 116           | 380           | 267           | 138           | 1                 |
| Italian                                 | 3,490                | 125           | 345           | 799           | 824           | 1,098         | 299           | -                 |
| Polish                                  | 636                  | 59            | 22            | 209           | 234           | 65            | 47            | -                 |
| Russian                                 | 549                  | 51            | 27            | 333           | 74            | 41            | 23            | -                 |
| Other European                          | 2,816                | 308           | 153           | 1,115         | 846           | 231           | 159           | 4                 |
| <b>Asian</b>                            |                      |               |               |               |               |               |               |                   |
| Asian Indian                            | 409                  | 33            | 13            | 28            | 234           | 28            | 73            | -                 |
| Bangladeshi                             | 446                  | 16            | 80            | 75            | 259           | 3             | 13            | -                 |
| Chinese                                 | 3,534                | 863           | 42            | 1,148         | 1,248         | 129           | 103           | 1                 |
| Filipino                                | 396                  | 40            | 27            | 33            | 223           | 27            | 45            | 1                 |
| Korean                                  | 445                  | 31            | 11            | 17            | 315           | 22            | 48            | 1                 |
| Pakistani                               | 254                  | 16            | 16            | 82            | 96            | 18            | 26            | -                 |
| Other Asian                             | 934                  | 131           | 73            | 247           | 320           | 70            | 90            | 3                 |
| <b>Other</b>                            |                      |               |               |               |               |               |               |                   |
| Jewish or Hebrew                        | 2,518                | 190           | 71            | 1,638         | 354           | 112           | 153           | -                 |
| Other or Not Stated                     | 2,759                | 642           | 505           | 547           | 536           | 204           | 195           | 130               |

\*See Technical Notes: Race, Ancestry, and Ethnic Group.

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Table M4. Deaths by Place of Death\*, New York City, 2017-2021

| Place of Death                       | 2017          |              | 2018          |              | 2019          |              | 2020          |              | 2021          |              |
|--------------------------------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
|                                      | Deaths        | %            | Deaths        | %            | Deaths        | %            | Deaths        | %            | Deaths        | %            |
| <b>Total</b>                         | <b>54,319</b> | <b>100.0</b> | <b>55,081</b> | <b>100.0</b> | <b>54,559</b> | <b>100.0</b> | <b>82,143</b> | <b>100.0</b> | <b>63,551</b> | <b>100.0</b> |
| Hospital Inpatient                   | 24,883        | 45.8         | 24,964        | 45.3         | 25,097        | 46.0         | 39,209        | 47.7         | 31,077        | 48.9         |
| Emergency/Outpatient                 | 4,646         | 8.6          | 4,997         | 9.1          | 4,996         | 9.2          | 6,637         | 8.1          | 5,292         | 8.3          |
| Dead on Arrival (DOA)                | 682           | 1.3          | 668           | 1.2          | 573           | 1.1          | 452           | 0.6          | 372           | 0.6          |
| Nursing Home/Long Term Care Facility | 7,779         | 14.3         | 7,945         | 14.4         | 7,974         | 14.6         | 12,158        | 14.8         | 7,105         | 11.2         |
| Hospice Facility                     | 1,936         | 3.6          | 1,387         | 2.5          | 949           | 1.7          | 671           | 0.8          | 441           | 0.7          |
| Decedents' Residence                 | 13,610        | 25.1         | 14,326        | 26.0         | 14,186        | 26.0         | 21,927        | 26.7         | 18,133        | 28.5         |
| Other                                | 783           | 1.4          | 794           | 1.4          | 784           | 1.4          | 1,089         | 1.3          | 1,131         | 1.8          |
| Unknown or Not Stated                | -             | -            | -             | -            | -             | -            | -             | -            | -             | -            |

\*See Technical Notes: Geographical Units, Place of Death.

# MORTALITY

Table M5. Deaths by Birthplace and Borough of Residence, New York City, 2021\*

| Birthplace                            | Total         | Borough of Residence |               |               |               |               |               |                   |
|---------------------------------------|---------------|----------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
|                                       |               | Manhattan            | Bronx         | Brooklyn      | Queens        | Staten Island | Non-Residents | Residence Unknown |
| <b>Total</b>                          | <b>63,551</b> | <b>10,709</b>        | <b>11,129</b> | <b>17,970</b> | <b>14,665</b> | <b>4,171</b>  | <b>4,648</b>  | <b>259</b>        |
| United States                         | 35,293        | 6,799                | 7,228         | 8,652         | 6,347         | 3,084         | 3,145         | 38                |
| United States (excluding Puerto Rico) | 30,899        | 5,936                | 5,365         | 7,604         | 5,975         | 2,965         | 3,020         | 34                |
| Puerto Rico                           | 4,394         | 863                  | 1,863         | 1,048         | 372           | 119           | 125           | 4                 |
| China                                 | 3,133         | 774                  | 39            | 1,050         | 1,082         | 106           | 81            | 1                 |
| Dominican Republic                    | 2,807         | 911                  | 1,073         | 367           | 343           | 18            | 94            | 1                 |
| Jamaica                               | 1,596         | 59                   | 452           | 614           | 353           | 14            | 103           | 1                 |
| Guyana                                | 1,367         | 22                   | 139           | 426           | 715           | 6             | 59            | -                 |
| Ukraine                               | 1,343         | 44                   | 19            | 1,080         | 105           | 72            | 21            | 2                 |
| Haiti                                 | 1,117         | 48                   | 30            | 712           | 263           | 9             | 55            | -                 |
| Italy                                 | 1,081         | 46                   | 105           | 338           | 326           | 175           | 91            | -                 |
| Ecuador                               | 820           | 76                   | 163           | 142           | 373           | 23            | 42            | 1                 |
| Trinidad and Tobago                   | 816           | 33                   | 49            | 467           | 216           | 18            | 32            | 1                 |
| Mexico                                | 667           | 67                   | 177           | 188           | 160           | 36            | 34            | 5                 |
| Russia                                | 623           | 57                   | 25            | 405           | 83            | 36            | 17            | -                 |
| Poland                                | 555           | 59                   | 17            | 238           | 186           | 25            | 30            | -                 |
| Colombia                              | 464           | 43                   | 29            | 44            | 307           | 14            | 27            | -                 |
| India                                 | 443           | 43                   | 10            | 29            | 252           | 31            | 78            | -                 |
| Bangladesh                            | 440           | 15                   | 78            | 76            | 255           | 4             | 12            | -                 |
| Greece                                | 429           | 26                   | 14            | 78            | 264           | 18            | 29            | -                 |
| Philippines                           | 392           | 41                   | 27            | 32            | 224           | 27            | 41            | -                 |
| Korea                                 | 391           | 26                   | 10            | 12            | 283           | 19            | 40            | 1                 |
| Cuba                                  | 371           | 102                  | 79            | 59            | 102           | 7             | 22            | -                 |
| Guatemala                             | 303           | 78                   | 30            | 48            | 99            | 13            | 35            | -                 |
| Barbados                              | 288           | 8                    | 31            | 203           | 35            | 2             | 9             | -                 |
| Belarus                               | 263           | 2                    | 3             | 221           | 19            | 12            | 6             | -                 |
| Peru                                  | 246           | 32                   | 35            | 20            | 129           | 4             | 25            | 1                 |
| Panama                                | 237           | 8                    | 19            | 165           | 33            | 4             | 8             | -                 |
| Honduras                              | 236           | 29                   | 101           | 55            | 30            | 8             | 13            | -                 |
| Pakistan                              | 227           | 11                   | 13            | 72            | 91            | 16            | 24            | -                 |
| Ireland                               | 219           | 27                   | 47            | 27            | 84            | 9             | 25            | -                 |
| Romania                               | 216           | 26                   | 5             | 64            | 101           | 3             | 15            | 2                 |
| Other or Not Stated                   | 7,168         | 1,197                | 1,082         | 2,086         | 1,805         | 358           | 435           | 205               |

\*See Technical Notes: Geographical Units, Birthplace Presentation.

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Table M6. Deaths by Birthplace and Age Group, New York City, 2021\*

| Birthplace                            | Age Group (Years) |            |            |              |              |              |              |               |               |               |
|---------------------------------------|-------------------|------------|------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                       | Total             | <15        | 15-24      | 25-34        | 35-44        | 45-54        | 55-64        | 65-74         | 75-84         | 85+           |
| <b>Total</b>                          | <b>63,551</b>     | <b>585</b> | <b>507</b> | <b>1,436</b> | <b>2,362</b> | <b>4,177</b> | <b>9,165</b> | <b>12,964</b> | <b>14,263</b> | <b>18,092</b> |
| United States                         | 35,293            | 561        | 396        | 1,022        | 1,483        | 2,472        | 5,433        | 7,071         | 7,633         | 9,222         |
| United States (excluding Puerto Rico) | 30,899            | 561        | 393        | 1,011        | 1,430        | 2,337        | 4,989        | 6,171         | 6,192         | 7,815         |
| Puerto Rico                           | 4,394             | -          | 3          | 11           | 53           | 135          | 444          | 900           | 1,441         | 1,407         |
| China                                 | 3,133             | -          | 2          | 19           | 55           | 114          | 291          | 533           | 738           | 1,381         |
| Dominican Republic                    | 2,807             | 7          | 19         | 61           | 108          | 180          | 401          | 629           | 677           | 725           |
| Jamaica                               | 1,596             | 1          | 6          | 21           | 41           | 95           | 250          | 390           | 400           | 392           |
| Guyana                                | 1,367             | -          | 2          | 17           | 37           | 96           | 233          | 356           | 335           | 291           |
| Ukraine                               | 1,343             | -          | 4          | 8            | 7            | 29           | 67           | 181           | 299           | 748           |
| Haiti                                 | 1,117             | 1          | 3          | 3            | 22           | 53           | 168          | 262           | 295           | 310           |
| Italy                                 | 1,081             | -          | -          | 1            | 3            | 13           | 41           | 137           | 287           | 599           |
| Ecuador                               | 820               | 2          | 5          | 11           | 34           | 66           | 135          | 154           | 215           | 198           |
| Trinidad and Tobago                   | 816               | -          | 4          | 8            | 26           | 47           | 127          | 215           | 226           | 163           |
| Mexico                                | 667               | 1          | 5          | 52           | 134          | 185          | 133          | 79            | 50            | 28            |
| Russia                                | 623               | -          | -          | 5            | 12           | 20           | 38           | 91            | 190           | 267           |
| Poland                                | 555               | -          | -          | 2            | 17           | 25           | 70           | 116           | 88            | 237           |
| Colombia                              | 464               | -          | 2          | 4            | 15           | 29           | 59           | 103           | 105           | 147           |
| India                                 | 443               | -          | 3          | 8            | 18           | 27           | 55           | 99            | 130           | 103           |
| Bangladesh                            | 440               | -          | 8          | 11           | 12           | 46           | 95           | 155           | 86            | 27            |
| Greece                                | 429               | 1          | -          | 1            | 2            | 5            | 27           | 66            | 128           | 199           |
| Philippines                           | 392               | -          | 1          | 3            | 10           | 26           | 50           | 109           | 117           | 76            |
| Korea                                 | 391               | -          | 2          | 4            | 4            | 24           | 41           | 73            | 118           | 125           |
| Cuba                                  | 371               | -          | -          | 1            | -            | 4            | 28           | 35            | 88            | 215           |
| Guatemala                             | 303               | -          | -          | 2            | 1            | 5            | 16           | 50            | 54            | 175           |
| Barbados                              | 288               | -          | -          | -            | 6            | 7            | 36           | 54            | 80            | 105           |
| Belarus                               | 263               | -          | -          | 1            | 8            | 11           | 15           | 33            | 52            | 143           |
| Peru                                  | 246               | -          | -          | 3            | 1            | 12           | 35           | 52            | 74            | 69            |
| Panama                                | 237               | -          | -          | 1            | 2            | 17           | 23           | 52            | 67            | 75            |
| Honduras                              | 236               | 1          | 1          | 4            | 9            | 17           | 38           | 57            | 57            | 52            |
| Pakistan                              | 227               | -          | 4          | 4            | 10           | 13           | 58           | 71            | 44            | 23            |
| Ireland                               | 219               | -          | -          | 2            | 1            | 12           | 12           | 16            | 58            | 118           |
| Romania                               | 216               | -          | -          | -            | 2            | 9            | 10           | 40            | 34            | 121           |
| Other or Not Stated                   | 7,168             | 10         | 40         | 157          | 282          | 518          | 1,180        | 1,685         | 1,538         | 1,758         |

\*See Technical Notes: Geographical Units, Birthplace Presentation.



# MORTALITY

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2021

| Rank | ALL AGES   | All           |              | Male          |              | Female        |              |
|------|--|---------------|--------------|---------------|--------------|---------------|--------------|
|      |  | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Diseases of Heart  | 16,568        | 26.1         | 8,397         | 25.5         | 8,171         | 26.7         |
| 2    | Malignant Neoplasms  | 11,578        | 18.2         | 5,638         | 17.1         | 5,940         | 19.4         |
| 3    | Covid-19   | 8,229         | 12.9         | 4,574         | 13.9         | 3,655         | 11.9         |
| 4    | Use of or Poisoning by Psychoactive Substance                | 2,744         | 4.3          | 2,066         | 6.3          | 678           | 2.2          |
| 5    | Cerebrovascular Diseases                                     | 2,149         | 3.4          | 908           | 2.8          | 1,241         | 4.1          |
| 6    | Diabetes Mellitus  | 1,714         | 2.7          | 911           | 2.8          | 803           | 2.6          |
| 7    | Influenza and Pneumonia                                      | 1,628         | 2.6          | 866           | 2.6          | 762           | 2.5          |
| 8    | Chronic Lower Respiratory Diseases                           | 1,379         | 2.2          | 631           | 1.9          | 748           | 2.4          |
| 9    | Accidents Except Poisoning by Psychoactive Substance         | 1,327         | 2.1          | 857           | 2.6          | 470           | 1.5          |
| 10   | Essential Hypertension and Renal Diseases                    | 1,283         | 2.0          | 565           | 1.7          | 718           | 2.3          |
|      | All Other Causes   | 14,952        | 23.5         | 7,537         | 22.9         | 7,415         | 24.2         |
|      | <b>Total</b>   | <b>63,551</b> | <b>100.0</b> | <b>32,950</b> | <b>100.0</b> | <b>30,601</b> | <b>100.0</b> |
| Rank | < 1 YEAR   | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Congenital Malformations, Deformations                       | 82            | 20.5         | 40            | 18.7         | 42            | 22.6         |
| 2    | Short Gestation and Low Birthweight                          | 69            | 17.3         | 33            | 15.4         | 36            | 19.4         |
| 3    | Cardiovascular Disorders Originating in the Perinatal Period | 38            | 9.5          | 22            | 10.3         | 16            | 8.6          |
| 4    | External Causes  | 32            | 8.0          | 17            | 7.9          | 15            | 8.1          |
| 5    | Sudden Infant Death Syndrome                                 | 24            | 6.0          | 15            | 7.0          | 9             | 4.8          |
| 6    | Respiratory Distress of Newborn                              | 13            | 3.3          | 4             | 1.9          | 9             | 4.8          |
| 7    | Bacterial Sepsis of Newborn                                  | 12            | 3.0          | 8             | 3.7          | 4             | 2.2          |
| 8    | Pulmonary Hemorrhage in Perinatal Period                     | 9             | 2.3          | 6             | 2.8          | 2             | 1.1          |
| 9    | Diseases of Heart  | 8             | 2.0          | 6             | 2.8          | 2             | 1.1          |
| 10   | Newborn Affected by Complications of Placenta                | 6             | 1.5          | 6             | 2.8          | -             | -            |
| 10   | Other Respiratory Conditions in Perinatal Period             | 6             | 1.5          | 2             | 0.9          | 4             | 2.2          |
|      | All Other Causes   | 102           | 25.5         | 55            | 25.7         | 47            | 25.3         |
|      | <b>Total</b>   | <b>400</b>    | <b>100.0</b> | <b>214</b>    | <b>100.0</b> | <b>186</b>    | <b>100.0</b> |
| Rank | 1 - 14 YEARS   | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Accidents Except Poisoning by Psychoactive Substance         | 30            | 16.2         | 20            | 19.8         | 10            | 11.9         |
| 2    | Malignant Neoplasms  | 29            | 15.7         | 13            | 12.9         | 16            | 19.0         |
| 3    | Congenital Malformations, Deformations                       | 22            | 11.9         | 17            | 13.9         | 8             | 9.5          |
| 4    | Assault (Homicide)   | 13            | 7.0          | 10            | 9.9          | 3             | 3.6          |
| 5    | Diseases of Heart  | 8             | 4.3          | 3             | 3.0          | 5             | 6.0          |
| 6    | Chronic Lower Respiratory Diseases                           | 7             | 3.8          | 4             | 4.0          | 3             | 3.6          |
| 6    | Intentional Self-harm (Suicide)                              | 7             | 3.8          | 3             | 3.0          | 4             | 4.8          |
|      | All Other Causes   | 66            | 35.7         | 31            | 30.7         | 35            | 41.7         |
|      | <b>Total</b>   | <b>185</b>    | <b>100.0</b> | <b>101</b>    | <b>100.0</b> | <b>84</b>     | <b>100.0</b> |
| Rank | 15 - 24 YEARS  | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Assault (Homicide)   | 113           | 22.3         | 106           | 27.9         | 7             | 5.5          |
| 2    | Use of or Poisoning by Psychoactive Substance                | 80            | 15.8         | 66            | 17.4         | 14            | 11.0         |
| 3    | Intentional Self-harm (Suicide)                              | 58            | 11.4         | 47            | 12.4         | 11            | 8.7          |
| 4    | Accidents Except Poisoning by Psychoactive Substance         | 55            | 10.8         | 41            | 10.8         | 14            | 11.0         |
| 4    | Malignant Neoplasms  | 55            | 10.8         | 31            | 8.2          | 24            | 18.9         |
| 6    | Covid-19   | 11            | 2.2          | 4             | 1.1          | 7             | 5.5          |
| 7    | Congenital Malformations, Deformations                       | 10            | 2.0          | 6             | 1.6          | 4             | 3.1          |
| 8    | Diseases of Heart  | 9             | 1.8          | 6             | 1.6          | 4             | 3.1          |
| 9    | Anemias  | 6             | 1.2          | 1             | 0.3          | 5             | 3.9          |
| 10   | Chronic Lower Respiratory Diseases                           | 5             | 1.0          | 2             | 0.5          | 3             | 2.4          |
|      | All Other Causes   | 104           | 20.5         | 70            | 18.4         | 34            | 26.8         |
|      | <b>Total</b>   | <b>507</b>    | <b>100.0</b> | <b>380</b>    | <b>100.0</b> | <b>127</b>    | <b>100.0</b> |
| Rank | 25 - 34 YEARS  | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Use of or Poisoning by Psychoactive Substance                | 410           | 28.6         | 299           | 29.5         | 111           | 26.3         |
| 2    | Assault (Homicide)   | 179           | 12.5         | 159           | 15.7         | 20            | 4.7          |
| 3    | Intentional Self-harm (Suicide)                              | 147           | 10.2         | 97            | 9.6          | 50            | 11.8         |
| 4    | Accidents Except Poisoning by Psychoactive Substance         | 115           | 8.0          | 93            | 9.2          | 22            | 5.2          |
| 5    | Malignant Neoplasms  | 112           | 7.8          | 51            | 5.0          | 61            | 14.5         |
| 6    | Diseases of Heart  | 79            | 5.5          | 58            | 5.7          | 21            | 5.0          |
| 7    | Covid-19   | 77            | 5.4          | 47            | 4.6          | 30            | 7.1          |
| 8    | Mental Disorders Due to Use of Alcohol                       | 28            | 1.9          | 21            | 2.1          | 7             | 1.7          |
| 9    | Chronic Liver Disease and Cirrhosis                          | 25            | 1.7          | 16            | 1.6          | 9             | 2.1          |
| 10   | Diabetes Mellitus  | 22            | 1.5          | 18            | 1.8          | 4             | 0.9          |
| 10   | Human Immunodeficiency Virus (HIV) Disease                   | 22            | 1.5          | 18            | 1.8          | 4             | 0.9          |
|      | All Other Causes   | 220           | 15.3         | 137           | 13.5         | 83            | 19.7         |
|      | <b>Total</b>   | <b>1,436</b>  | <b>100.0</b> | <b>1,014</b>  | <b>100.0</b> | <b>422</b>    | <b>100.0</b> |
| Rank | 35-44 YEARS  | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Use of or Poisoning by Psychoactive Substance                | 594           | 25.1         | 446           | 27.8         | 148           | 19.6         |
| 2    | Malignant Neoplasms  | 292           | 12.4         | 142           | 8.8          | 150           | 19.8         |
| 3    | Diseases of Heart  | 260           | 11.0         | 193           | 12.0         | 67            | 8.9          |
| 4    | Covid-19   | 212           | 9.0          | 131           | 8.2          | 81            | 10.7         |
| 5    | Accidents Except Poisoning by Psychoactive Substance         | 115           | 4.9          | 98            | 6.1          | 17            | 2.2          |
| 6    | Assault (Homicide)   | 95            | 4.0          | 79            | 4.9          | 16            | 2.1          |
| 7    | Intentional Self-harm (Suicide)                              | 91            | 3.9          | 63            | 3.9          | 28            | 3.7          |
| 8    | Chronic Liver Disease and Cirrhosis                          | 86            | 3.6          | 64            | 4.0          | 22            | 2.9          |
| 9    | Mental Disorder Due to Use of Alcohol                        | 73            | 3.1          | 59            | 3.7          | 14            | 1.9          |
| 10   | Diabetes Mellitus  | 51            | 2.2          | 36            | 2.2          | 15            | 2.0          |
|      | All Other Causes   | 493           | 20.9         | 295           | 18.4         | 198           | 26.2         |
|      | <b>Total</b>   | <b>2,362</b>  | <b>100.0</b> | <b>1,606</b>  | <b>100.0</b> | <b>756</b>    | <b>100.0</b> |

Table is continued on following page

# MORTALITY

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2021 [CONTINUED]

| Rank                 |   | All           |              | Male         |              | Female        |              |
|----------------------|---|---------------|--------------|--------------|--------------|---------------|--------------|
|                      |   | Deaths        | Percent      | Deaths       | Percent      | Deaths        | Percent      |
| <b>45 - 54 YEARS</b> |   |               |              |              |              |               |              |
| 1                    | Malignant Neoplasms                                   | 811           | 19.4         | 360          | 13.4         | 451           | 30.2         |
| 2                    | Diseases of Heart                                     | 761           | 18.2         | 539          | 20.1         | 222           | 14.9         |
| 3                    | Use of or Poisoning by Psychoactive Substance         | 606           | 14.5         | 466          | 17.4         | 140           | 9.4          |
| 4                    | Covid-19  | 495           | 11.9         | 323          | 12.0         | 172           | 11.5         |
| 5                    | Chronic Liver Disease and Cirrhosis                   | 133           | 3.2          | 95           | 3.5          | 38            | 2.5          |
| 6                    | Diabetes Mellitus                                     | 115           | 2.8          | 83           | 3.1          | 32            | 2.1          |
| 7                    | Accidents Except Poisoning by Psychoactive Substance  | 106           | 2.5          | 90           | 3.4          | 16            | 1.1          |
| 8                    | Mental Disorder Due to Use of Alcohol                 | 105           | 2.5          | 83           | 3.1          | 22            | 1.5          |
| 9                    | Intentional Self-harm (Suicide)                       | 97            | 2.3          | 78           | 2.9          | 19            | 1.3          |
| 10                   | Cerebrovascular Diseases                              | 89            | 2.1          | 53           | 2.0          | 36            | 2.4          |
|                      | All Other Causes                                      | 859           | 20.6         | 513          | 19.1         | 346           | 23.2         |
|                      | <b>Total</b>  | <b>4,177</b>  | <b>100.0</b> | <b>2,683</b> | <b>100.0</b> | <b>1,494</b>  | <b>100.0</b> |
| <b>55 - 64 YEARS</b> |   |               |              |              |              |               |              |
| 1                    | Malignant Neoplasms                                   | 2,104         | 23.0         | 1,067        | 18.6         | 1,037         | 30.3         |
| 2                    | Diseases of Heart                                     | 2,007         | 21.9         | 1,380        | 24.1         | 627           | 18.3         |
| 3                    | Covid-19  | 1,233         | 13.5         | 778          | 13.6         | 455           | 13.3         |
| 4                    | Use of or Poisoning by Psychoactive Substance         | 830           | 9.1          | 618          | 10.8         | 212           | 6.2          |
| 5                    | Diabetes Mellitus                                     | 278           | 3.0          | 170          | 3.0          | 108           | 3.2          |
| 6                    | Cerebrovascular Diseases                              | 241           | 2.6          | 147          | 2.6          | 94            | 2.7          |
| 7                    | Accidents Except Poisoning by Psychoactive Substance  | 182           | 2.0          | 140          | 2.4          | 42            | 1.2          |
| 8                    | Influenza and Pneumonia                               | 179           | 2.0          | 119          | 2.1          | 60            | 1.8          |
| 9                    | Chronic Lower Respiratory Diseases                    | 176           | 1.9          | 87           | 1.5          | 89            | 2.6          |
| 10                   | Chronic Liver Disease and Cirrhosis                   | 163           | 1.8          | 120          | 2.1          | 43            | 1.3          |
|                      | All Other Causes                                      | 1,772         | 19.3         | 1,111        | 19.4         | 661           | 19.3         |
|                      | <b>Total</b>  | <b>9,165</b>  | <b>100.0</b> | <b>5,737</b> | <b>100.0</b> | <b>3,428</b>  | <b>100.0</b> |
| <b>65 - 74 YEARS</b> |   |               |              |              |              |               |              |
| 1                    | Diseases of Heart                                     | 3,277         | 25.3         | 2,020        | 27.3         | 1,257         | 22.6         |
| 2                    | Malignant Neoplasms                                   | 3,235         | 25.0         | 1,672        | 22.6         | 1,563         | 28.0         |
| 3                    | Covid-19  | 2,032         | 15.7         | 1,164        | 15.8         | 868           | 15.6         |
| 4                    | Diabetes Mellitus                                     | 424           | 3.3          | 260          | 3.5          | 164           | 2.9          |
| 5                    | Cerebrovascular Diseases                              | 342           | 2.6          | 186          | 2.5          | 156           | 2.8          |
| 6                    | Influenza and Pneumonia                               | 340           | 2.6          | 202          | 2.7          | 138           | 2.5          |
| 7                    | Chronic Lower Respiratory Diseases                    | 303           | 2.3          | 149          | 2.0          | 154           | 2.8          |
| 8                    | Essential Hypertension and Hypertensive Renal Disease | 230           | 1.8          | 121          | 1.6          | 109           | 2.0          |
| 9                    | Accidents Except Poisoning by Psychoactive Substance  | 218           | 1.7          | 139          | 1.9          | 79            | 1.4          |
| 10                   | Use of or Poisoning by Psychoactive Substance         | 201           | 1.6          | 153          | 2.1          | 48            | 0.9          |
|                      | All Other Causes                                      | 2,362         | 18.2         | 1,324        | 17.9         | 1,038         | 18.6         |
|                      | <b>Total</b>  | <b>12,964</b> | <b>100.0</b> | <b>7,390</b> | <b>100.0</b> | <b>5,574</b>  | <b>100.0</b> |
| <b>75 - 84 YEARS</b> |   |               |              |              |              |               |              |
| 1                    | Diseases of Heart                                     | 3,889         | 27.3         | 1,942        | 27.4         | 1,947         | 27.1         |
| 2                    | Malignant Neoplasms                                   | 2,940         | 20.6         | 1,445        | 20.4         | 1,495         | 20.8         |
| 3                    | Covid-19  | 2,146         | 15.0         | 1,166        | 16.4         | 980           | 13.7         |
| 4                    | Cerebrovascular Disease                               | 528           | 3.7          | 225          | 3.2          | 303           | 4.2          |
| 5                    | Diabetes Mellitus                                     | 441           | 3.1          | 210          | 3.0          | 231           | 3.2          |
| 6                    | Influenza and Pneumonia                               | 433           | 3.0          | 241          | 3.4          | 192           | 2.7          |
| 7                    | Chronic Lower Respiratory Diseases                    | 401           | 2.8          | 190          | 2.7          | 211           | 2.9          |
| 8                    | Essential Hypertension and Hypertensive Renal Disease | 346           | 2.4          | 172          | 2.4          | 174           | 2.4          |
| 9                    | Septicemia  | 248           | 1.7          | 120          | 1.7          | 128           | 1.8          |
| 10                   | Alzheimer's Disease                                   | 242           | 1.7          | 74           | 1.0          | 168           | 2.3          |
|                      | All Other Causes                                      | 2,649         | 18.6         | 1,304        | 18.4         | 1,345         | 18.7         |
|                      | <b>Total</b>  | <b>14,263</b> | <b>100.0</b> | <b>7,089</b> | <b>100.0</b> | <b>7,174</b>  | <b>100.0</b> |
| <b>≥85 YEARS</b>     |   |               |              |              |              |               |              |
| 1                    | Diseases of Heart                                     | 6,270         | 34.7         | 2,250        | 33.4         | 4,020         | 35.4         |
| 2                    | Covid-19  | 2,017         | 11.1         | 957          | 14.2         | 1,060         | 9.3          |
| 3                    | Malignant Neoplasms                                   | 1,997         | 11.0         | 854          | 12.7         | 1,143         | 10.1         |
| 4                    | Cerebrovascular Diseases                              | 886           | 4.9          | 268          | 4.0          | 618           | 5.4          |
| 5                    | Alzheimer's Disease                                   | 814           | 4.5          | 203          | 3.0          | 611           | 5.4          |
| 6                    | Influenza and Pneumonia                               | 579           | 3.2          | 252          | 3.7          | 327           | 2.9          |
| 7                    | Essential Hypertension and Hypertensive Renal Disease | 509           | 2.8          | 158          | 2.3          | 351           | 3.1          |
| 8                    | Chronic Lower Respiratory Diseases                    | 419           | 2.3          | 165          | 2.4          | 254           | 2.2          |
| 9                    | Diabetes Mellitus                                     | 379           | 2.1          | 135          | 2.0          | 244           | 2.1          |
| 10                   | Accidents Except Poisoning by Psychoactive Substance  | 277           | 1.5          | 124          | 1.8          | 153           | 1.3          |
|                      | All Other Causes                                      | 3,945         | 21.8         | 1,370        | 20.3         | 2,575         | 22.7         |
|                      | <b>Total</b>  | <b>18,092</b> | <b>100.0</b> | <b>6,736</b> | <b>100.0</b> | <b>11,356</b> | <b>100.0</b> |

# MORTALITY

Table M8. Leading Causes of Death by Racial/Ethnic Group\* and Sex, New York City, 2021

| Rank | Puerto Rican  | All           |              | Male          |              | Female        |              |
|------|---|---------------|--------------|---------------|--------------|---------------|--------------|
|      |   | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Diseases of Heart                                     | 1,335         | 24.0         | 689           | 24.3         | 646           | 23.7         |
| 2    | Malignant Neoplasms                                   | 870           | 15.6         | 440           | 15.5         | 430           | 15.8         |
| 3    | Covid-19  | 730           | 13.1         | 363           | 12.8         | 367           | 13.5         |
| 4    | Use of or Poisoning by Psychoactive Substance         | 351           | 6.3          | 258           | 9.1          | 93            | 3.4          |
| 5    | Cerebrovascular Diseases                              | 201           | 3.6          | 83            | 2.9          | 118           | 4.3          |
| 6    | Diabetes Mellitus                                     | 179           | 3.2          | 95            | 3.4          | 84            | 3.1          |
| 7    | Influenza and Pneumonia                               | 171           | 3.1          | 86            | 3.0          | 85            | 3.1          |
| 8    | Chronic Lower Respiratory Diseases                    | 161           | 2.9          | 64            | 2.3          | 97            | 3.6          |
| 9    | Alzheimer's Disease                                   | 139           | 2.5          | 35            | 1.2          | 104           | 3.8          |
| 10   | Accidents Except Poisoning by Psychoactive Substance  | 107           | 1.9          | 64            | 2.3          | 43            | 1.6          |
|      | All Other Causes                                      | 1,316         | 23.7         | 656           | 23.2         | 660           | 24.2         |
|      | <b>Total</b>  | <b>5,560</b>  | <b>100.0</b> | <b>2,833</b>  | <b>100.0</b> | <b>2,727</b>  | <b>100.0</b> |
| Rank | Hispanic/Latino not of Puerto Rican ancestry          | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Diseases of Heart                                     | 1,639         | 19.4         | 876           | 18.7         | 763           | 20.2         |
| 2    | Covid-19  | 1,472         | 17.4         | 873           | 18.7         | 599           | 15.9         |
| 3    | Malignant Neoplasms                                   | 1,410         | 16.7         | 683           | 14.6         | 727           | 19.2         |
| 4    | Use of or Poisoning by Psychoactive Substance         | 596           | 7.0          | 456           | 9.8          | 140           | 3.7          |
| 5    | Cerebrovascular Diseases                              | 273           | 3.2          | 126           | 2.7          | 147           | 3.9          |
| 6    | Accidents Except Poisoning by Psychoactive Substance  | 265           | 3.1          | 191           | 4.1          | 74            | 2.0          |
| 7    | Diabetes Mellitus                                     | 218           | 2.6          | 118           | 2.5          | 100           | 2.6          |
| 8    | Influenza and Pneumonia                               | 193           | 2.3          | 109           | 2.3          | 84            | 2.2          |
| 9    | Chronic Liver Disease and Cirrhosis                   | 173           | 2.0          | 140           | 3.0          | 33            | 0.9          |
| 10   | Alzheimer's Disease                                   | 156           | 1.8          | 37            | 0.8          | 119           | 3.1          |
|      | All Other Causes                                      | 2,059         | 24.4         | 1,067         | 22.8         | 992           | 26.3         |
|      | <b>Total</b>  | <b>8,454</b>  | <b>100.0</b> | <b>4,676</b>  | <b>100.0</b> | <b>3,778</b>  | <b>100.0</b> |
| Rank | Asian and Pacific Islander                            | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Diseases of Heart                                     | 1,384         | 22.5         | 777           | 22.2         | 607           | 22.8         |
| 2    | Malignant Neoplasms                                   | 1,334         | 21.7         | 719           | 20.6         | 615           | 23.1         |
| 3    | Covid-19  | 1,152         | 18.7         | 739           | 21.1         | 413           | 15.5         |
| 4    | Cerebrovascular Diseases                              | 261           | 4.2          | 133           | 3.8          | 128           | 4.8          |
| 5    | Influenza and Pneumonia                               | 173           | 2.8          | 109           | 3.1          | 64            | 2.4          |
| 6    | Diabetes Mellitus                                     | 171           | 2.8          | 94            | 2.7          | 77            | 2.9          |
| 7    | Accidents Except Poisoning by Psychoactive Substance  | 133           | 2.2          | 91            | 2.6          | 42            | 1.6          |
| 8    | Essential Hypertension and Hypertensive Renal Disease | 123           | 2.0          | 63            | 1.8          | 60            | 2.3          |
| 9    | Chronic Lower Respiratory Diseases                    | 107           | 1.7          | 67            | 1.9          | 40            | 1.5          |
| 10   | Intentional Self-harm (Suicide)                       | 87            | 1.4          | 53            | 1.5          | 34            | 1.3          |
|      | All Other Causes                                      | 1,235         | 20.0         | 651           | 18.6         | 584           | 21.9         |
|      | <b>Total</b>  | <b>6,160</b>  | <b>100.0</b> | <b>3,496</b>  | <b>100.0</b> | <b>2,664</b>  | <b>100.0</b> |
| Rank | Non-Hispanic/Latino White                             | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Diseases of Heart                                     | 7,054         | 29.1         | 3,453         | 28.0         | 3,601         | 30.3         |
| 2    | Malignant Neoplasms                                   | 4,804         | 19.8         | 2,377         | 19.3         | 2,427         | 20.4         |
| 3    | Covid-19  | 2,691         | 11.1         | 1,539         | 12.5         | 1,152         | 9.7          |
| 4    | Use of or Poisoning by Psychoactive Substance         | 782           | 3.2          | 593           | 4.8          | 189           | 1.6          |
| 5    | Cerebrovascular Diseases                              | 730           | 3.0          | 279           | 2.3          | 451           | 3.8          |
| 6    | Influenza and Pneumonia                               | 632           | 2.6          | 339           | 2.7          | 293           | 2.5          |
| 7    | Chronic Lower Respiratory Diseases                    | 606           | 2.5          | 264           | 2.1          | 342           | 2.9          |
| 8    | Alzheimer's Disease                                   | 502           | 2.1          | 159           | 1.3          | 343           | 2.9          |
| 9    | Accidents Except Poisoning by Psychoactive Substance  | 479           | 2.0          | 266           | 2.2          | 213           | 1.8          |
| 10   | Diabetes Mellitus                                     | 442           | 1.8          | 263           | 2.1          | 179           | 1.5          |
|      | All Other Causes                                      | 5,510         | 22.7         | 2,805         | 22.7         | 2,705         | 22.7         |
|      | <b>Total</b>  | <b>24,232</b> | <b>100.0</b> | <b>12,337</b> | <b>100.0</b> | <b>11,895</b> | <b>100.0</b> |
| Rank | Non-Hispanic/Latino Black                             | Deaths        | Percent      | Deaths        | Percent      | Deaths        | Percent      |
| 1    | Diseases of Heart                                     | 4,662         | 27.0         | 2,306         | 27.2         | 2,356         | 26.8         |
| 2    | Malignant Neoplasms                                   | 2,904         | 16.8         | 1,283         | 15.1         | 1,621         | 18.4         |
| 3    | Covid-19  | 1,945         | 11.3         | 916           | 10.8         | 1,029         | 11.7         |
| 4    | Use of or Poisoning by Psychoactive Substance         | 881           | 5.1          | 652           | 7.7          | 229           | 2.6          |
| 5    | Diabetes Mellitus                                     | 645           | 3.7          | 304           | 3.6          | 341           | 3.9          |
| 6    | Cerebrovascular Diseases                              | 625           | 3.6          | 260           | 3.1          | 365           | 4.2          |
| 7    | Essential Hypertension and Hypertensive Renal Disease | 455           | 2.6          | 182           | 2.1          | 273           | 3.1          |
| 8    | Influenza and Pneumonia                               | 416           | 2.4          | 196           | 2.3          | 220           | 2.5          |
| 9    | Chronic Lower Respiratory Diseases                    | 350           | 2.0          | 164           | 1.9          | 186           | 2.1          |
| 10   | Assault (Homicide)                                    | 320           | 1.9          | 291           | 3.4          | 29            | 0.3          |
|      | All Other Causes                                      | 4,072         | 23.6         | 1,933         | 22.8         | 2,139         | 24.3         |
|      | <b>Total</b>  | <b>17,275</b> | <b>100.0</b> | <b>8,487</b>  | <b>100.0</b> | <b>8,788</b>  | <b>100.0</b> |

\* Decedents of other or multiple races, or with unknown race/ethnicity, are not shown.

# MORTALITY

Table M9. Leading Causes of Premature Death (Age <65 Years), Overall and by Sex, New York City, 2021

| Rank | Cause of Death                                       | All           |                | Male          |              | Female       |              |
|------|--|---------------|----------------|---------------|--------------|--------------|--------------|
|      |  | Deaths        | Percent Deaths | Deaths        | Percent      | Deaths       | Percent      |
| 1    | Malignant Neoplasms                                  | 3,406         | 18.7           | 1,667         | 14.2         | 1,739        | 26.8         |
|      | Trachea, bronchus, and lung                          | 522           | 2.9            | 300           | 2.6          | 222          | 3.4          |
|      | Breast   | 371           | 2.0            | 3             | 0.0          | 368          | 5.7          |
|      | Colon, rectum, and anus                              | 369           | 2.0            | 218           | 1.9          | 151          | 2.3          |
|      | Pancreas   | 263           | 1.4            | 152           | 1.3          | 111          | 1.7          |
|      | Liver and intrahepatic bile ducts                    | 196           | 1.1            | 138           | 1.2          | 58           | 0.9          |
| 2    | Diseases of Heart                                    | 3,132         | 17.2           | 2,185         | 18.6         | 947          | 14.6         |
| 3    | Use of or Poisoning by Psychoactive Substance        | 2,520         | 13.8           | 1,895         | 16.1         | 625          | 9.6          |
| 4    | Covid-19   | 2,034         | 11.2           | 1,287         | 11.0         | 747          | 11.5         |
| 5    | Accidents Except Poisoning by Psychoactive Substance | 611           | 3.4            | 487           | 4.1          | 124          | 1.9          |
| 6    | Assault (Homicide)                                   | 489           | 2.7            | 425           | 3.6          | 64           | 1.0          |
| 7    | Diabetes Mellitus                                    | 470           | 2.6            | 306           | 2.6          | 164          | 2.5          |
| 8    | Intentional Self-harm (Suicide)                      | 462           | 2.5            | 349           | 3.0          | 113          | 1.7          |
| 9    | Chronic Liver Disease and Cirrhosis                  | 407           | 2.2            | 295           | 2.5          | 112          | 1.7          |
| 10   | Cerebrovascular Diseases                             | 393           | 2.2            | 229           | 2.0          | 164          | 2.5          |
|      | All Other Causes                                     | 4,308         | 23.6           | 2,610         | 22.2         | 1,698        | 26.1         |
|      | <b>Total</b>   | <b>18,232</b> | <b>100.0</b>   | <b>11,735</b> | <b>100.0</b> | <b>6,497</b> | <b>100.0</b> |

Note: Ten leading causes of death are listed in descending order of frequency for all premature deaths.

# MORTALITY

Table M10. Leading Causes of Premature Death (Age <65 Years) by Racial/Ethnic Group\* and Sex, New York City, 2021

| Rank | Puerto Rican   | All          |              | Male         |              | Female       |              |
|------|--|--------------|--------------|--------------|--------------|--------------|--------------|
|      |  | Deaths       | Percent      | Deaths       | Percent      | Deaths       | Percent      |
| 1    | Use of or Poisoning by Psychoactive Substance          | 316          | 21.4         | 230          | 23.9         | 86           | 16.7         |
| 2    | Diseases of Heart                                      | 255          | 17.3         | 177          | 18.4         | 78           | 15.1         |
| 3    | Malignant Neoplasms                                    | 200          | 13.5         | 91           | 9.4          | 109          | 21.2         |
| 4    | Covid-19   | 169          | 11.4         | 103          | 10.7         | 66           | 12.8         |
| 5    | Human Immunodeficiency Virus (HIV) Disease             | 46           | 3.1          | 34           | 3.5          | 12           | 2.3          |
| 6    | Diabetes Mellitus                                      | 41           | 2.8          | 28           | 2.9          | 13           | 2.5          |
| 7    | Accidents Except Poisoning by Psychoactive Substance   | 34           | 2.3          | 28           | 2.9          | 6            | 1.2          |
| 7    | Chronic Lower Respiratory Diseases                     | 34           | 2.3          | 15           | 1.6          | 19           | 3.7          |
| 9    | Influenza and Pneumonia                                | 33           | 2.2          | 19           | 2.0          | 14           | 2.7          |
| 10   | Assault (Homicide)                                     | 32           | 2.2          | 29           | 3.0          | 3            | 0.6          |
|      | All Other Causes                                       | 318          | 21.5         | 209          | 21.7         | 109          | 21.2         |
|      | <b>Total</b>   | <b>1,478</b> | <b>100.0</b> | <b>963</b>   | <b>100.0</b> | <b>515</b>   | <b>100.0</b> |
| Rank | Hispanic/Latino not of Puerto Rican ancestry           | Deaths       | Percent      | Deaths       | Percent      | Deaths       | Percent      |
| 1    | Use of or Poisoning by Psychoactive Substance          | 569          | 16.4         | 434          | 18.2         | 135          | 12.3         |
| 2    | Malignant Neoplasms                                    | 524          | 15.1         | 263          | 11.1         | 261          | 23.7         |
| 3    | Covid-19   | 509          | 14.6         | 359          | 15.1         | 150          | 13.6         |
| 4    | Diseases of Heart                                      | 438          | 12.6         | 317          | 13.3         | 121          | 11.0         |
| 5    | Accidents Except Poisoning by Psychoactive Substance   | 181          | 5.2          | 149          | 6.3          | 32           | 2.9          |
| 6    | Chronic Liver Disease and Cirrhosis                    | 138          | 4.0          | 122          | 5.1          | 16           | 1.5          |
| 7    | Intentional Self-harm (Suicide)                        | 93           | 2.7          | 72           | 3.0          | 21           | 1.9          |
| 8    | Assault (Homicide)                                     | 90           | 2.6          | 73           | 3.1          | 17           | 1.5          |
| 9    | Mental Disorders Due to Use of Alcohol                 | 80           | 2.3          | 77           | 3.2          | 3            | 0.3          |
| 10   | Cerebrovascular Diseases                               | 79           | 2.3          | 49           | 2.1          | 30           | 2.7          |
|      | All Other Causes                                       | 779          | 22.4         | 464          | 19.5         | 315          | 28.6         |
|      | <b>Total</b>   | <b>3,480</b> | <b>100.0</b> | <b>2,379</b> | <b>100.0</b> | <b>1,101</b> | <b>100.0</b> |
| Rank | Asian and Pacific Islander                             | Deaths       | Percent      | Deaths       | Percent      | Deaths       | Percent      |
| 1    | Malignant Neoplasms                                    | 470          | 31.8         | 258          | 27.0         | 212          | 40.5         |
| 2    | Covid-19   | 245          | 16.6         | 158          | 16.5         | 87           | 16.6         |
| 3    | Diseases of Heart                                      | 209          | 14.1         | 166          | 17.4         | 43           | 8.2          |
| 4    | Intentional Self-harm (Suicide)                        | 66           | 4.5          | 38           | 4.0          | 28           | 5.4          |
| 5    | Use of or Poisoning by Psychoactive Substance          | 50           | 3.4          | 44           | 4.6          | 6            | 1.1          |
| 6    | Accidents Except Poisoning by Psychoactive Substance   | 48           | 3.2          | 36           | 3.8          | 12           | 2.3          |
| 7    | Cerebrovascular Diseases                               | 41           | 2.8          | 21           | 2.2          | 20           | 3.8          |
| 8    | Diabetes Mellitus                                      | 35           | 2.4          | 23           | 2.4          | 12           | 2.3          |
| 9    | Chronic Liver Disease and Cirrhosis                    | 25           | 1.7          | 17           | 1.8          | 8            | 1.5          |
| 10   | Certain Conditions Originating in the Perinatal Period | 18           | 1.2          | 10           | 1.0          | 8            | 1.5          |
|      | All Other Causes                                       | 271          | 18.3         | 184          | 19.3         | 87           | 16.6         |
|      | <b>Total</b>   | <b>1,478</b> | <b>100.0</b> | <b>955</b>   | <b>100.0</b> | <b>523</b>   | <b>100.0</b> |
| Rank | Non-Hispanic/Latino White                              | Deaths       | Percent      | Deaths       | Percent      | Deaths       | Percent      |
| 1    | Malignant Neoplasms                                    | 1,062        | 23.1         | 535          | 17.6         | 527          | 33.7         |
| 2    | Diseases of Heart                                      | 776          | 16.9         | 571          | 18.8         | 205          | 13.1         |
| 3    | Use of or Poisoning by Psychoactive Substance          | 730          | 15.9         | 553          | 18.2         | 177          | 11.3         |
| 4    | Covid-19   | 372          | 8.1          | 258          | 8.5          | 114          | 7.3          |
| 5    | Intentional Self-harm (Suicide)                        | 184          | 4.0          | 140          | 4.6          | 44           | 2.8          |
| 6    | Accidents Except Poisoning by Psychoactive Substance   | 145          | 3.2          | 111          | 3.7          | 34           | 2.2          |
| 7    | Chronic Liver Disease and Cirrhosis                    | 126          | 2.7          | 85           | 2.8          | 41           | 2.6          |
| 8    | Mental Disorders Due to Use of Alcohol                 | 95           | 2.1          | 71           | 2.3          | 24           | 1.5          |
| 9    | Diabetes Mellitus                                      | 93           | 2.0          | 69           | 2.3          | 24           | 1.5          |
| 10   | Cerebrovascular Diseases                               | 62           | 1.3          | 37           | 1.2          | 25           | 1.6          |
|      | All Other Causes                                       | 949          | 20.7         | 602          | 19.9         | 347          | 22.2         |
|      | <b>Total</b>   | <b>4,594</b> | <b>100.0</b> | <b>3,032</b> | <b>100.0</b> | <b>1,562</b> | <b>100.0</b> |
| Rank | Non-Hispanic/Latino Black                              | Deaths       | Percent      | Deaths       | Percent      | Deaths       | Percent      |
| 1    | Diseases of Heart                                      | 1,321        | 20.5         | 861          | 22.0         | 460          | 18.2         |
| 2    | Malignant Neoplasms                                    | 1,049        | 16.3         | 472          | 12.1         | 577          | 22.8         |
| 3    | Use of or Poisoning by Psychoactive Substance          | 785          | 12.2         | 581          | 14.9         | 204          | 8.1          |
| 4    | Covid-19   | 646          | 10.0         | 353          | 9.0          | 293          | 11.6         |
| 5    | Assault (Homicide)                                     | 308          | 4.8          | 280          | 7.2          | 28           | 1.1          |
| 6    | Diabetes Mellitus                                      | 205          | 3.2          | 118          | 3.0          | 87           | 3.4          |
| 7    | Accidents Except Poisoning by Psychoactive Substance   | 177          | 2.7          | 141          | 3.6          | 36           | 1.4          |
| 8    | Cerebrovascular Diseases                               | 164          | 2.5          | 95           | 2.4          | 69           | 2.7          |
| 9    | Human Immunodeficiency Virus (HIV) Disease             | 121          | 1.9          | 82           | 2.1          | 39           | 1.5          |
| 10   | Chronic Lower Respiratory Diseases                     | 115          | 1.8          | 62           | 1.7          | 53           | 1.9          |
| 10   | Influenza and Pneumonia                                | 115          | 1.8          | 68           | 1.6          | 47           | 2.1          |
|      | All Other Causes                                       | 1,433        | 22.3         | 794          | 20.3         | 639          | 25.2         |
|      | <b>Total</b>   | <b>6,439</b> | <b>100.0</b> | <b>3,907</b> | <b>100.0</b> | <b>2,532</b> | <b>100.0</b> |

\* Decedents of other or multiple races, or with unknown race/ethnicity, are not shown.



**Table M11. Deaths and Death Rates per 100,000 Population from Selected Underlying Causes, Overall and by Racial/Ethnic Group\* and Sex, New York City, 2021**

| Cause of Death  | Racial/Ethnic Group |             |               |                 |             |               |                           |             |               |                           |             |               |                          |              |               | Sex           |               |               |              |               |               |              |     |
|---|---------------------|-------------|---------------|-----------------|-------------|---------------|---------------------------|-------------|---------------|---------------------------|-------------|---------------|--------------------------|--------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|--------------|-----|
|   | Total               |             |               | Hispanic/Latino |             |               | Non-Hispanic/Latino White |             |               | Hispanic/Latino Non-Black |             |               | Asian & Pacific Islander |              |               | Other/Unknown | Male          |               | Female       |               |               |              |     |
|   | No.                 | Crude Rate  | Age-Adj. Rate | No.             | Crude Rate  | Age-Adj. Rate | No.                       | Crude Rate  | Age-Adj. Rate | No.                       | Crude Rate  | Age-Adj. Rate | No.                      | Crude Rate   | Age-Adj. Rate | No.           | Crude Rate    | Age-Adj. Rate | No.          | Crude Rate    | Age-Adj. Rate |              |     |
| <b>All Causes†</b>  | <b>63,551</b>       | <b>7.5</b>  | <b>6.1</b>    | <b>14,014</b>   | <b>5.7</b>  | <b>5.7</b>    | <b>24,232</b>             | <b>9.0</b>  | <b>5.9</b>    | <b>17,275</b>             | <b>9.4</b>  | <b>7.7</b>    | <b>6,160</b>             | <b>4.8</b>   | <b>4.1</b>    | <b>1,870</b>  | <b>32,950</b> | <b>8.1</b>    | <b>7.5</b>   | <b>30,601</b> | <b>6.9</b>    | <b>5.0</b>   |     |
| <b>Natural Causes</b>   | <b>58,158</b>       | <b>68.8</b> | <b>55.3</b>   | <b>12,403</b>   | <b>50.3</b> | <b>50.7</b>   | <b>22,584</b>             | <b>84.0</b> | <b>53.3</b>   | <b>115,649</b>            | <b>84.7</b> | <b>69.0</b>   | <b>5,852</b>             | <b>454.6</b> | <b>384.6</b>  | <b>1,670</b>  | <b>28,995</b> | <b>713.4</b>  | <b>659.1</b> | <b>29,163</b> | <b>662.3</b>  | <b>469.9</b> |     |
| Human immunodeficiency Virus (HIV) Disease  | 319                 | 3.8         | 3.3           | 95              | 3.9         | 3.7           | 28                        | 1.0         | 0.8           | 166                       | 9.0         | 7.7           | 8                        | 0.6          | 0.5           | 22            | 229           | 5.6           | 5.1          | 90            | 2.0           | 1.8          |     |
| Malignant Neoplasms   | 11,578              | 136.7       | 111.5         | 92.2            | 4,804       | 178.8         | 121.2                     | 2,904       | 157.2         | 427.1                     | 1,334       | 103.6         | 86.7                     | 256          | 5,638         | 138.7         | 126.1         | 5,940         | 134.9        | 101.4         | 172           | 3.9          | 3.0 |
| Malignant neoplasm of stomach   | 413                 | 4.9         | 4.0           | 105             | 4.3         | 4.2           | 113                       | 4.2         | 2.9           | 108                       | 5.8         | 4.9           | 75                       | 5.8          | 4.9           | 12            | 241           | 5.9           | 5.4          | 172           | 3.9           | 3.0          |     |
| Malignant neoplasms of colon, rectum, and anus  | 1,076               | 12.7        | 10.4          | 215             | 8.7         | 8.6           | 423                       | 15.7        | 10.9          | 288                       | 15.6        | 12.6          | 125                      | 9.7          | 8.1           | 25            | 560           | 13.8          | 12.5         | 516           | 11.7          | 8.7          |     |
| Malignant neoplasm of pancreas  | 1,050               | 12.4        | 10.0          | 202             | 8.2         | 8.2           | 449                       | 16.7        | 11.1          | 271                       | 14.7        | 11.8          | 117                      | 9.1          | 7.5           | 11            | 504           | 12.4          | 11.1         | 546           | 12.4          | 9.0          |     |
| Malignant neoplasms of trachea, bronchus, and lung (male)   | 1,076               | 26.5        | 23.8          | 181             | 15.1        | 17.6          | 440                       | 33.3        | 24.3          | 253                       | 29.9        | 27.0          | 167                      | 27.1         | 23.6          | 35            | 1,076         | 26.5          | 23.8         | -             | -             | -            |     |
| Malignant neoplasms of trachea, bronchus, and lung (female)   | 943                 | 21.4        | 15.9          | 156             | 12.3        | 10.8          | 437                       | 32.0        | 19.6          | 218                       | 21.8        | 15.7          | 117                      | 17.4         | 13.9          | -             | -             | -             | -            | 943           | 21.4          | 15.9         |     |
| Malignant neoplasm of breast (female)   | 906                 | 20.6        | 16.0          | 154             | 12.1        | 10.9          | 364                       | 26.6        | 17.9          | 300                       | 30.0        | 22.6          | 66                       | 9.8          | 8.0           | 22            | -             | -             | -            | 906           | 20.6          | 16.0         |     |
| Malignant neoplasm of cervix uteri (female)   | 102                 | 2.3         | 1.9           | 24              | 1.9         | 1.7           | 20                        | 1.5         | 1.1           | 49                        | 4.9         | 3.6           | 6                        | 0.9          | 0.7           | 3             | -             | -             | -            | 102           | 2.3           | 1.9          |     |
| Malignant neoplasm of ovary (female)  | 299                 | 6.8         | 5.3           | 61              | 4.8         | 4.3           | 127                       | 9.3         | 6.3           | 73                        | 7.3         | 5.4           | 31                       | 4.6          | 3.7           | 7             | -             | -             | -            | 299           | 6.8           | 5.3          |     |
| Malignant neoplasm of prostate (male)   | 590                 | 14.5        | 13.4          | 116             | 9.7         | 12.8          | 207                       | 15.7        | 11.0          | 218                       | 25.8        | 25.2          | 29                       | 4.7          | 4.3           | 20            | 590           | 14.5          | 13.4         | -             | -             | -            |     |
| Leukemia  | 466                 | 5.5         | 4.5           | 87              | 3.5         | 3.6           | 251                       | 9.3         | 6.3           | 75                        | 4.1         | 3.4           | 44                       | 3.4          | 3.0           | 9             | 246           | 6.1           | 5.6          | 220           | 5.0           | 3.7          |     |
| Diabetes Mellitus   | 1,714               | 20.2        | 16.4          | 397             | 16.1        | 16.1          | 442                       | 16.5        | 11.0          | 645                       | 34.9        | 28.4          | 171                      | 13.3         | 11.2          | 59            | 911           | 22.4          | 20.4         | 803           | 18.2          | 13.1         |     |
| Parkinson's Disease   | 472                 | 5.6         | 4.3           | 95              | 3.9         | 4.0           | 250                       | 9.3         | 5.5           | 60                        | 3.2         | 2.6           | 55                       | 4.3          | 3.6           | 12            | 274           | 6.7           | 6.3          | 198           | 4.5           | 3.0          |     |
| Alzheimer's Disease   | 1,120               | 13.2        | 10.0          | 295             | 12.0        | 12.6          | 502                       | 18.7        | 10.1          | 218                       | 11.8        | 9.4           | 82                       | 6.4          | 5.5           | 23            | 307           | 7.6           | 7.5          | 813           | 18.5          | 11.5         |     |
| Diseases of Heart   | 16,568              | 195.7       | 155.1         | 2,974           | 120.7       | 122.2         | 7,054                     | 262.5       | 159.7         | 4,662                     | 252.4       | 203.2         | 1,384                    | 107.5        | 91.0          | 494           | 8,397         | 206.6         | 191.4        | 8,171         | 185.6         | 125.6        |     |
| Hypertensive heart disease  | 2,250               | 26.3        | 21.2          | 407             | 16.5        | 16.6          | 762                       | 28.4        | 17.5          | 848                       | 45.9        | 37.3          | 162                      | 12.6         | 10.7          | 51            | 1,085         | 26.7          | 24.6         | 1,145         | 26.0          | 18.0         |     |
| Chronic ischemic heart diseases   | 10,281              | 121.4       | 95.8          | 1,783           | 72.4        | 73.3          | 4,591                     | 170.9       | 103.5         | 2,684                     | 145.3       | 116.3         | 899                      | 69.8         | 58.9          | 324           | 5,374         | 132.2         | 122.4        | 4,907         | 111.4         | 74.6         |     |
| Acute myocardial infarction   | 1,526               | 18.0        | 14.3          | 287             | 11.6        | 11.8          | 657                       | 24.5        | 15.1          | 389                       | 21.1        | 16.9          | 144                      | 11.2         | 9.4           | 49            | 799           | 19.7          | 18.1         | 727           | 16.5          | 11.1         |     |
| Essential (Primary) Hypertension and Hypertensive Renal Disease   | 1,283               | 15.2        | 11.9          | 257             | 10.4        | 10.6          | 411                       | 15.3        | 9.1           | 455                       | 24.6        | 19.7          | 123                      | 9.6          | 8.1           | 37            | 565           | 13.9          | 12.9         | 718           | 16.3          | 11.0         |     |
| Cerebrovascular Diseases  | 2,149               | 25.4        | 20.1          | 474             | 19.2        | 19.6          | 730                       | 27.2        | 16.1          | 625                       | 33.8        | 27.3          | 261                      | 20.3         | 17.2          | 59            | 908           | 22.3          | 20.8         | 1,241         | 28.2          | 19.2         |     |
| Influenza and Pneumonia   | 1,628               | 19.2        | 15.2          | 364             | 14.8        | 14.9          | 632                       | 23.5        | 14.2          | 416                       | 22.5        | 18.2          | 173                      | 13.4         | 11.4          | 43            | 866           | 21.3          | 19.8         | 762           | 17.3          | 12.0         |     |
| Chronic Lower Respiratory Diseases  | 1,379               | 16.3        | 13.0          | 279             | 11.3        | 11.4          | 606                       | 22.6        | 13.9          | 350                       | 18.9        | 15.3          | 107                      | 8.3          | 7.0           | 37            | 631           | 15.5          | 14.4         | 748           | 17.0          | 12.1         |     |
| Asthma  | 133                 | 1.6         | 1.4           | 45              | 1.8         | 1.8           | 16                        | 0.6         | 0.5           | 65                        | 3.5         | 3.1           | 4                        | 0.3          | 0.3           | 3             | 57            | 1.4           | 1.3          | 76            | 1.7           | 1.5          |     |
| Chronic Liver Disease and Cirrhosis   | 606                 | 7.2         | 6.3           | 240             | 9.7         | 9.5           | 198                       | 7.4         | 6.1           | 97                        | 5.3         | 4.4           | 39                       | 3.0          | 2.6           | 32            | 416           | 10.2          | 9.3          | 190           | 4.3           | 3.6          |     |
| COVID-19  | 8,229               | 97.2        | 78.3          | 2,202           | 89.4        | 89.1          | 2,691                     | 100.2       | 63.1          | 1,945                     | 105.3       | 85.2          | 1,152                    | 89.5         | 74.7          | 239           | 4,574         | 112.5         | 103.2        | 3,655         | 83.0          | 59.9         |     |
| <b>External Causes</b>  | <b>5,393</b>        | <b>63.7</b> | <b>58.9</b>   | <b>1,611</b>    | <b>65.4</b> | <b>64.0</b>   | <b>1,648</b>              | <b>61.3</b> | <b>53.1</b>   | <b>1,626</b>              | <b>88.0</b> | <b>81.6</b>   | <b>308</b>               | <b>23.9</b>  | <b>22.3</b>   | <b>200</b>    | <b>3,955</b>  | <b>97.3</b>   | <b>92.1</b>  | <b>1,438</b>  | <b>37.7</b>   | <b>28.6</b>  |     |
| Motor Vehicle Accidents   | 294                 | 3.5         | 3.3           | 94              | 3.8         | 3.8           | 78                        | 2.9         | 2.6           | 81                        | 4.4         | 4.2           | 29                       | 2.3          | 2.0           | 12            | 216           | 5.3           | 5.2          | 78            | 1.8           | 1.6          |     |
| Falls   | 603                 | 7.1         | 5.7           | 160             | 6.5         | 6.5           | 272                       | 10.1        | 6.5           | 91                        | 4.9         | 4.0           | 63                       | 4.9          | 4.1           | 17            | 358           | 8.8           | 8.2          | 245           | 5.6           | 3.8          |     |
| Intentional Self-Harm (Suicide)   | 563                 | 6.6         | 6.3           | 122             | 5.0         | 4.9           | 242                       | 9.0         | 8.0           | 80                        | 4.3         | 4.3           | 87                       | 6.8          | 6.5           | 32            | 420           | 10.3          | 9.9          | 143           | 3.2           | 3.1          |     |
| Assault (Homicide)  | 512                 | 6.0         | 6.2           | 126             | 5.1         | 5.1           | 33                        | 1.2         | 1.3           | 320                       | 17.3        | 18.3          | 12                       | 0.9          | 0.9           | 21            | 442           | 10.9          | 11.0         | 70            | 1.6           | 1.6          |     |
| Events of Undetermined Intent   | 243                 | 2.9         | 2.8           | 46              | 1.9         | 1.8           | 104                       | 3.9         | 3.7           | 51                        | 2.8         | 2.7           | 19                       | 1.5          | 1.6           | 23            | 191           | 4.7           | 4.5          | 52            | 1.2           | 1.2          |     |
| Mental and Behavioral Disorders Due to Use of or Accidental Poisoning by Psychoactive Substances, Excluding Alcohol | 2,744               | 32.4        | 30.1          | 947             | 38.4        | 37.1          | 782                       | 29.1        | 27.3          | 881                       | 47.7        | 42.2          | 52                       | 4.0          | 4.0           | 82            | 2,066         | 50.8          | 47.3         | 678           | 15.4          | 14.3         |     |
| Accidents Except Drug/Poisoning   | 1,327               | 15.7        | 13.6          | 372             | 15.1        | 15.1          | 479                       | 17.8        | 12.8          | 300                       | 16.2        | 14.4          | 133                      | 10.3         | 9.1           | 43            | 857           | 21.1          | 20.0         | 470           | 10.7          | 8.1          |     |

\* See Technical Notes: Demographic Characteristics of Vital Events; Race, Ancestry, and Ethnic Group.  
 † For All Causes, rates are per 1,000 population and all other selected causes rates are per 100,000 population. Population data are from the 2021 US Census Bureau's estimates.



**Table M13. Deaths and Crude Death Rates\* per 100,000**

|  | Annual    |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Cause (ICD-10 Codes)††                                 | 1901-1905 | 1906-1910 | 1911-1915 | 1916-1920 | 1921-1925 | 1926-1930 | 1931-1935 | 1936-1940 | 1941-1945 | 1946-1948 | 1949-1951 | 1952-1955 | 1956-1960 | 1961-1965 |  |
| Infant Deaths (under 1 year)                           | 15,611    | 16,609    | 14,060    | 12,004    | 8,895     | 7,662     | 5,521     | 4,079     | 3,828     | 4,298     | 3,882     | 4,021     | 4,290     | 4,333     |  |
| Rate per 1,000 live births                             | 120.8     | 115.2     | 100.0     | 88.2      | 68.9      | 61.0      | 52.0      | 39.8      | 30.3      | 26.8      | 24.5      | 24.6      | 25.7      | 26.2      |  |
| Neonatal Deaths (under 28 days)                        | §§        | §§        | 5,143     | 4,894     | 4,309     | 3,892     | 3,152     | 2,631     | 2,764     | 3,298     | 2,989     | 3,032     | 3,220     | 3,226     |  |
| Rate per 1,000 live births                             |           |           | 37.4      | 36.0      | 33.0      | 31.0      | 29.7      | 25.7      | 21.9      | 20.5      | 18.9      | 18.5      | 19.3      | 19.5      |  |
| Early Neonatal Deaths (under 7 Days)                   | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 2,110     | 2,338     | 2,845     | 2,604     | 2,713     | 2,909     | 2,922     |  |
| Rate per 1,000 live births                             |           |           |           |           |           |           |           | 20.5      | 18.5      | 17.7      | 16.4      | 16.6      | 17.4      | 17.7      |  |
| Fetal Deaths (28 Weeks Gestation and Older)            | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 2,589     | 2,709     | 2,902     | 2,441     | 2,310     | 2,362     | 2,276     |  |
| Ratio per 1,000 live births                            |           |           |           |           |           |           |           | 25.3      | 21.4      | 18.1      | 15.4      | 14.1      | 14.1      | 13.8      |  |
| Perinatal mortality ratio†                             | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 44.7      | 39.1      | 35.1      | 31.3      | 30.2      | 31.1      | 31.0      |  |
| Pregnancy, Childbirth, and the Puerperium (O00-O99)    | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate per 100,000 live births                           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
| Maternal Causes      (A34, O00-O95, O98-O99)           | 694       | 745       | 694       | 664       | 689       | 651       | 608       | 372       | 255       | 178       | 115       | 102       | 107       | 109       |  |
| Ratio per 100,000 live births                          | 538.0     | 517.4     | 493.7     | 487.9     | 528.1     | 518.4     | 572.6     | 363.2     | 201.6     | 110.8     | 72.6      | 62.3      | 64.1      | 66.0      |  |
| Respiratory Tuberculosis (A16)                         | 8,154     | 8,832     | 8,745     | 7,915     | 4,937     | 4,574     | 4,068     | 3,680     | 3,281     | 2,932     | 2,173     | 1,178     | 824       | 624       |  |
| Rate   | 215.4     | 197.5     | 173.2     | 144.1     | 80.0      | 68.2      | 57.3      | 50.0      | 43.2      | 37.7      | 27.4      | 15.0      | 10.6      | 8.0       |  |
| Other Forms of Tuberculosis (A17-A19)                  | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 225       | 174       | 97        | 52        | 43        |  |
| Rate   |           |           |           |           |           |           |           |           |           | 2.9       | 2.2       | 1.2       | 0.7       | 0.6       |  |
| HIV Disease (B20-B24)‡                                 | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
| Malignant Neoplasms (C00-C97)                          | 2,621     | 3,334     | 4,256     | 4,993     | 6,229     | 7,637     | 9,062     | 11,257    | 13,169    | 14,627    | 15,556    | 16,553    | 16,869    | 17,398    |  |
| Rate   | 69.2      | 74.5      | 84.3      | 90.9      | 100.9     | 113.9     | 127.6     | 152.9     | 173.3     | 188.2     | 196.0     | 210.6     | 216.1     | 222.1     |  |
| Trachea, bronchus, and lung, male (C33-C34)            | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 828       | 847       | 1,021     | 1,157     |  |
| Rate   |           |           |           |           |           |           |           |           |           |           | 21.9      | 22.2      | 27.0      | 30.9      |  |
| Trachea, bronchus, and lung, female (C33-C34)          | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 220       | 179       | 228       | 261       |  |
| Rate   |           |           |           |           |           |           |           |           |           |           | 5.5       | 4.4       | 5.6       | 6.4       |  |
| Colon, rectum, and anus (C18-C21)                      | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
| Breast, female (C50)                                   | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 1,429     | 1,476     | 1,517     | 1,573     | 1,694     |  |
| Rate   |           |           |           |           |           |           |           |           |           | 35.9      | 36.4      | 37.3      | 38.7      | 41.3      |  |
| Diabetes Mellitus (E10-E14)                            | 520       | 690       | 916       | 1,063     | 1,284     | 1,624     | 2,140     | 2,787     | 3,131     | 3,423     | 1,583     | 1,644     | 1,581     | 1,789     |  |
| Rate   | 13.7      | 15.4      | 18.1      | 19.4      | 20.8      | 24.2      | 30.1      | 37.9      | 41.2      | 44.0      | 19.9      | 20.9      | 20.3      | 22.9      |  |
| Major Cardiovascular Diseases (I00-I78)                | 5,954     | 9,148     | 12,699    | 14,792    | 18,114    | 21,815    | 23,706    | 25,711    | 30,886    | 32,539    | 36,206    | 37,724    | 38,988    | 39,943    |  |
| Rate   | 157.3     | 204.5     | 251.5     | 269.3     | 293.3     | 325.5     | 333.8     | 349.2     | 406.6     | 418.7     | 456.3     | 479.9     | 499.5     | 510.2     |  |
| Cerebrovascular disease (I60-I69)                      | 2,593     | 1,790     | 970       | 834       | 719       | 723       | 1,333     | 3,846     | 3,611     | 3,710     | 5,099     | 5,688     | 6,013     | 6,174     |  |
| Rate   | 68.4      | 40.0      | 19.2      | 15.2      | 11.6      | 10.8      | 20.2      | 52.2      | 47.5      | 47.7      | 64.3      | 72.4      | 77.0      | 78.9      |  |
| Influenza and Pneumonia (J09-J18)                      | 10,425    | 10,985    | 10,528    | 17,136    | 8,935     | 9,989     | 8,205     | 5,337     | 3,453     | 3,014     | 2,469     | 2,664     | 3,459     | 3,394     |  |
| Rate   | 275.4     | 245.6     | 208.5     | 312.0     | 144.7     | 149.0     | 115.5     | 72.5      | 45.5      | 38.8      | 31.2      | 33.9      | 44.3      | 43.4      |  |
| Other Respiratory Diseases (J00-J06, J20-J99)          | 3,224     | 2,307     | 1,458     | 1,407     | 689       | 622       | 594       | 536       | 492       | 424       | 450       | 461       | 651       | 960       |  |
| Rate   | 85.2      | 51.6      | 38.9      | 25.6      | 11.2      | 9.3       | 8.4       | 7.3       | 6.5       | 5.5       | 5.7       | 5.9       | 8.3       | 12.3      |  |
| Chronic Liver Disease and Cirrhosis (K70, K73-K74)     | 814       | 1,076     | 900       | 500       | 338       | 413       | 584       | 922       | 1,052     | 1,500     | 1,500     | 1,440     | 1,858     | 2,386     |  |
| Rate   | 21.5      | 24.1      | 17.8      | 9.1       | 5.5       | 6.2       | 8.2       | 12.5      | 13.8      | 17.5      | 19.2      | 18.3      | 23.8      | 30.5      |  |
| Nephritis, Nephrosis, etc. (N00-N07, N17-N19, N25-N27) | 5,752     | 5,600     | 5,499     | 5,676     | 4,108     | 3,411     | 3,608     | 3,675     | 3,081     | 2,574     | 570       | 556       | 573       | 509       |  |
| Rate   | 151.9     | 125.2     | 108.9     | 103.4     | 50.9      | 50.8      | 50.9      | 40.6      | 40.6      | 33.1      | 7.2       | 7.1       | 7.3       | 6.5       |  |
| Use of Psychoactive Substance (F11-F16, F18-F19)       | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 81        | 96        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           | 1.0       | 1.2       |  |
| Accidental Drug Poisoning (X40-X42, X44)**             | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
| Motor Vehicle Accidents†                               | §§        | §§        | 253       | 658       | 929       | 1,175     | 1,167     | 920       | 728       | 635       | 600       | 634       | 655       | 714       |  |
| Rate   |           |           | 5.0       | 12.0      | 15.0      | 17.5      | 16.4      | 12.5      | 9.6       | 8.2       | 7.6       | 8.1       | 8.4       | 9.1       |  |
| Home Accidents   | §§        | §§        | §§        | §§        | §§        | §§        | §§        | 1,546     | 1,823     | 1,941     | 1,699     | 1,568     | 1,095     | 951       |  |
| Rate   |           |           |           |           |           |           |           | 21.0      | 24.0      | 25.0      | 21.4      | 19.9      | 14.0      | 12.1      |  |
| Other Accidents (rest of V01-X59, Y85-Y86)             | 3,521     | 3,549     | 3,516     | 3,426     | 3,138     | 3,574     | 3,205     | 3,107     | 3,091     | 3,255     | 2,707     | 2,450     | 2,091     | 1,947     |  |
| Rate   | 93.0      | 79.3      | 69.3      | 62.4      | 50.8      | 53.3      | 45.1      | 42.2      | 40.7      | 41.9      | 34.3      | 31.2      | 26.8      | 24.9      |  |
| Intentional Self-harm (Suicide) (X60-X84, Y87.0)       | 761       | 825       | 686       | 742       | 842       | 1,163     | 1,369     | 1,191     | 907       | 930       | 863       | 649       | 711       | 908       |  |
| Rate   | 20.1      | 18.4      | 17.2      | 13.5      | 13.6      | 17.4      | 19.3      | 16.2      | 11.9      | 12.0      | 10.9      | 8.3       | 9.1       | 11.6      |  |
| Assault (Homicide) (X85-Y09, Y87.1)                    | 143       | 247       | 293       | 271       | 334       | 405       | 522       | 351       | 265       | 362       | 318       | 340       | 366       | 592       |  |
| Rate   | 3.8       | 5.5       | 5.8       | 4.9       | 5.4       | 6.0       | 7.4       | 4.5       | 3.5       | 4.7       | 4.0       | 4.3       | 4.7       | 7.6       |  |
| Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)  | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
| Alzheimer's Disease (G30)                              | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
| Asthma (J45-J46)                                       | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        | §§        |  |
| Rate   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |

\*Populations for calculating rates vary by year. See Technical Notes: Population, Citywide.  
†See Technical Notes: Vital Events Rates.  
‡HIV disease was first reported as a cause of death in 1982. See the Technical Notes and Historical Technical Notes: Deaths, HIV and AIDS Mortality.  
§Data for 1982-1985.  
||Rate not calculated for count less than 5.  
††Motor vehicle accident codes are listed in Table M1.  
\*\*World Trade Center (WTC) disaster deaths are not included in 2001. See Special Section on WTC deaths in the 2002 Summary of Vital Statistics for detailed statistics.  
††Beginning January 2007, causes of death coding was changed. See Technical Notes: Deaths, Cause of Death Coding.  
‡‡ Codes following causes in parenthesis are the International Classification of Diseases, Tenth Revision.  
§§Data are not available or not applicable.  
||||See Technical Notes: Maternal Death and Maternal Mortality.



# MORTALITY

## Population for Selected Causes, New York City, 1901-2021

### Average

| 1966-1970 | 1971-1975 | 1976-1980 | 1981-1985 | 1986-1990 | 1991-1995 | 1996-2000 | 2001-2005*<br>2006-2010 | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   |        |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3,477     | 2,312     | 1,875     | 1,624     | 1,691     | 1,339     | 881       | 760                     | 682    | 577    | 583    | 551    | 516    | 526    | 491    | 500    | 446    | 464    | 388    | 400    |
| 23.6      | 19.9      | 17.4      | 14.4      | 12.8      | 10.0      | 7.1       | 6.1                     | 5.4    | 4.7    | 4.7    | 4.6    | 4.2    | 4.3    | 4.1    | 4.3    | 3.9    | 4.2    | 3.9    | 4.0    |
| 2,602     | 1,714     | 1,333     | 1,097     | 1,159     | 912       | 609       | 512                     | 445    | 378    | 383    | 377    | 326    | 342    | 312    | 344    | 278    | 305    | 244    | 246    |
| 17.7      | 14.8      | 12.3      | 9.7       | 8.8       | 6.8       | 4.9       | 4.1                     | 3.5    | 3.1    | 3.1    | 3.1    | 2.7    | 2.8    | 2.6    | 2.9    | 2.4    | 2.8    | 2.4    | 2.5    |
| 2,351     | 1,480     | 1,131     | 927       | 972       | 753       | 478       | 394                     | 335    | 293    | 301    | 283    | 254    | 242    | 230    | 250    | 219    | 233    | 198    | 181    |
| 16.0      | 12.8      | 10.5      | 8.2       | 7.4       | 5.6       | 3.8       | 3.2                     | 2.6    | 2.4    | 2.4    | 2.3    | 2.1    | 2.0    | 1.9    | 2.1    | 1.9    | 2.1    | 2.0    | 1.8    |
| 1,885     | 1,288     | 835       | 719       | 698       | 686       | 518       | 431                     | 388    | 368    | 379    | 371    | 401    | 345    | 388    | 347    | 378    | 311    | 325    | 277    |
| 12.8      | 11.1      | 7.7       | 6.4       | 5.3       | 5.1       | 4.2       | 3.5                     | 3.1    | 3.0    | 3.1    | 3.1    | 3.3    | 2.8    | 3.2    | 3.0    | 3.3    | 2.8    | 3.2    | 2.8    |
| 28.4      | 23.6      | 18.1      | 14.5      | 12.6      | 10.6      | 8.0       | 6.7                     | 5.7    | 5.4    | 5.5    | 5.4    | 5.3    | 4.8    | 5.1    | 5.2    | 4.9    | 5.4    | 5.4    | 4.6    |
| \$\$      | \$\$      | \$\$      | \$\$      | \$\$      | \$\$      | 30        | 32                      | 39     | 37     | 29     | 30     | 27     | 39     | 24     | 43     | 32     | 43     | 22     | 23     |
| 73        | 36        | 28        | 33        | 29        | 26        | 22        | 25.7                    | 30.5   | 30.1   | 23.5   | 24.9   | 22.1   | 32.1   | 19.9   | 36.7   | 28.0   | 38.9   | 22.0   | 23.2   |
| 49.6      | 31.1      | 25.9      | 29.2      | 22.3      | 19.2      | 17.5      | 23.1                    | 25.4   | 24.4   | 18.7   | 20.8   | 18.8   | 28.8   | 15.0   | 21.4   | 20.1   | 19.0   | 19.0   | 22.2   |
| 432       | 235       | 141       | 125       | 174       | 135       | 99        | 25                      | 16     | 27     | 13     | 13     | 22     | 17     | 16     | 13     | 17     | 19     | 19     | 20     |
| 5.5       | 3.1       | 2.0       | 1.7       | 2.4       | 1.8       | 0.5       | 0.3                     | 0.2    | 0.3    | 0.2    | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 39        | 32        | 22        | 35        | 55        | 34        | 14        | 5                       | 5      | 5      | 3      | 4      | 9      | 3      | 5      | 2      | 3      | 5      | 3      | 4      |
| 0.5       | 0.4       | 0.3       | 0.5       | 0.8       | 0.5       | 0.2       | 0.1                     | 0.1    | 0.1    |        |        |        |        |        |        |        |        |        |        |
| \$\$      | \$\$      | \$\$      | 768\$     | 3,703     | 6,257     | 2,716     | 1,603                   | 1,032  | 766    | 609    | 579    | 523    | 483    | 432    | 369    | 331    | 340    | 340    | 319    |
|           |           |           | 10.7      | 50.9      | 83.2      | 36.4      | 19.9                    | 12.7   | 9.3    | 7.3    | 6.9    | 6.2    | 5.6    | 5.1    | 4.3    | 3.9    | 4.1    | 3.9    | 3.8    |
| 17,814    | 17,315    | 16,549    | 15,889    | 15,612    | 15,191    | 14,335    | 13,717                  | 13,185 | 13,443 | 13,405 | 13,362 | 13,380 | 13,318 | 13,533 | 13,297 | 13,037 | 12,448 | 11,670 | 11,578 |
| 226.3     | 226.3     | 228.7     | 222.3     | 214.7     | 201.9     | 192.2     | 169.9                   | 162.1  | 162.6  | 160.8  | 159.0  | 157.6  | 155.8  | 158.5  | 154.2  | 155.2  | 149.3  | 132.6  | 136.7  |
| 1,890     | 2,434     | 2,387     | 2,217     | 2,201     | 2,083     | 1,849     | 1,713                   | 1,565  | 1,538  | 1,585  | 1,569  | 1,405  | 1,453  | 1,354  | 1,297  | 1,272  | 1,133  | 1,085  | 1,076  |
| 51.0      | 68.1      | 71.0      | 66.7      | 64.4      | 60.6      | 52.7      | 44.8                    | 40.5   | 39.1   | 39.9   | 39.1   | 34.7   | 35.6   | 33.2   | 31.5   | 31.8   | 28.5   | 25.7   | 26.5   |
| 474       | 770       | 970       | 1,169     | 1,315     | 1,426     | 1,416     | 1,388                   | 1,340  | 1,340  | 1,302  | 1,349  | 1,254  | 1,271  | 1,165  | 1,170  | 1,154  | 1,034  | 936    | 943    |
| 11.4      | 19.1      | 25.0      | 30.6      | 33.9      | 36.7      | 35.9      | 32.7                    | 31.4   | 30.9   | 29.8   | 30.7   | 28.2   | 28.4   | 26.1   | 25.9   | 26.3   | 23.7   | 20.5   | 21.4   |
| \$\$      | \$\$      | \$\$      | 1,805     | 1,685     | 1,546     | 1,414     | 1,374                   | 1,380  | 1,329  | 1,268  | 1,275  | 1,311  | 1,304  | 1,175  | 1,127  | 1,129  | 1,136  | 1,076  | 1,076  |
|           |           |           | 24.0      | 22.6      | 19.2      | 17.4      | 16.6                    | 16.6   | 15.8   | 14.9   | 14.9   | 15.4   | 15.1   | 14.0   | 13.5   | 12.9   | 12.7   | 12.9   | 12.7   |
| 1,787     | 1,723     | 1,622     | 1,533     | 1,537     | 1,510     | 1,354     | 1,266                   | 1,111  | 1,090  | 1,122  | 1,080  | 1,098  | 1,049  | 1,084  | 1,032  | 1,121  | 1,049  | 967    | 906    |
| 42.9      | 42.3      | 41.9      | 40.1      | 39.6      | 38.9      | 34.3      | 29.8                    | 26.0   | 25.1   | 25.7   | 24.6   | 24.7   | 23.5   | 24.3   | 22.9   | 25.5   | 24.1   | 21.1   | 20.6   |
| 1,867     | 2,064     | 1,547     | 1,436     | 1,198     | 1,348     | 1,659     | 1,770                   | 1,662  | 1,770  | 1,813  | 1,844  | 1,798  | 1,852  | 1,796  | 1,802  | 1,963  | 1,894  | 2,219  | 1,714  |
| 23.7      | 27.0      | 21.4      | 20.1      | 16.5      | 17.9      | 22.2      | 21.9                    | 20.4   | 21.4   | 21.7   | 21.9   | 21.2   | 21.7   | 21.0   | 20.9   | 23.4   | 22.7   | 25.2   | 20.2   |
| 41,981    | 40,639    | 37,978    | 37,818    | 33,527    | 32,074    | 29,330    | 26,663                  | 23,414 | 20,044 | 19,808 | 19,967 | 19,715 | 20,502 | 20,597 | 21,031 | 21,328 | 21,430 | 25,553 | 20,368 |
| 532.4     | 531.1     | 524.8     | 529.1     | 461.0     | 426.4     | 393.2     | 330.3                   | 287.9  | 242.4  | 237.6  | 237.5  | 232.2  | 239.8  | 241.2  | 243.9  | 253.9  | 257.1  | 290.2  | 240.5  |
| 6,277     | 5,433     | 4,174     | 3,194     | 2,927     | 2,256     | 2,058     | 1,807                   | 1,555  | 1,750  | 1,647  | 1,707  | 1,787  | 1,847  | 1,842  | 1,901  | 1,888  | 1,889  | 2,194  | 2,149  |
| 79.7      | 71.0      | 57.7      | 44.7      | 40.2      | 30.0      | 27.6      | 22.4                    | 19.1   | 21.2   | 19.8   | 20.3   | 21.0   | 21.6   | 21.6   | 22.0   | 22.5   | 22.7   | 24.9   | 25.4   |
| 3,562     | 3,164     | 3,000     | 2,740     | 3,354     | 2,810     | 2,548     | 2,726                   | 2,372  | 2,492  | 2,245  | 2,472  | 2,220  | 2,096  | 2,019  | 1,945  | 2,004  | 1,624  | 2,049  | 1,628  |
| 45.2      | 41.4      | 41.5      | 38.3      | 46.1      | 37.4      | 34.2      | 33.8                    | 29.2   | 30.1   | 26.9   | 29.4   | 26.1   | 24.5   | 23.6   | 22.6   | 23.9   | 19.5   | 23.3   | 19.2   |
| 1,425     | 1,627     | 1,583     | 1,941     | 2,507     | 1,943     | 2,025     | 2,037                   | 1,909  | 2,278  | 2,209  | 2,355  | 2,425  | 2,386  | 2,238  | 2,407  | 2,416  | 2,541  | 2,656  | 2,357  |
| 18.1      | 21.3      | 21.9      | 27.2      | 34.5      | 25.8      | 27.1      | 25.2                    | 23.5   | 27.5   | 26.5   | 28.0   | 28.6   | 27.9   | 26.2   | 27.9   | 28.8   | 30.5   | 30.2   | 27.8   |
| 2,936     | 2,440     | 2,185     | 1,789     | 1,289     | 946       | 697       | 521                     | 493    | 550    | 534    | 586    | 589    | 610    | 522    | 605    | 571    | 546    | 608    | 606    |
| 37.3      | 31.9      | 30.2      | 25.0      | 17.7      | 12.6      | 9.3       | 6.5                     | 6.1    | 6.7    | 6.4    | 7.0    | 6.9    | 7.1    | 6.1    | 7.0    | 6.8    | 6.5    | 6.9    | 7.2    |
| 447       | 372       | 381       | 383       | 816       | 311       | 564       | 654                     | 429    | 453    | 461    | 464    | 486    | 437    | 416    | 388    | 459    | 538    | 681    | 691    |
| 5.7       | 4.9       | 5.3       | 5.4       | 11.2      | 4.1       | 7.6       | 8.1                     | 5.3    | 5.5    | 5.5    | 5.5    | 5.7    | 5.1    | 4.9    | 4.5    | 5.5    | 6.5    | 7.7    | 8.2    |
| 551       | 677       | 414       | 573       | 787       | 947       | 875       | 866                     | 262    | 158    | 152    | 148    | 170    | 195    | 172    | 134    | 125    | 90     | 100    | 78     |
| 7.0       | 8.8       | 5.7       | 8.0       | 10.8      | 12.6      | 11.7      | 10.7                    | 3.2    | 1.9    | 1.8    | 1.8    | 2.0    | 2.3    | 2.0    | 1.6    | 1.5    | 1.1    | 1.1    | 0.9    |
| \$\$      | \$\$      | \$\$      | 1         | 143       | 49        | 26        | 41                      | 353    | 600    | 660    | 724    | 723    | 856    | 1,320  | 1,398  | 1,375  | 1,466  | 2,071  | 2,666  |
| 887       | 834       | 606       | 477       | 624       | 554       | 419       | 386                     | 315    | 283    | 315    | 305    | 271    | 258    | 245    | 221    | 219    | 233    | 264    | 294    |
| 11.3      | 10.9      | 8.4       | 6.7       | 8.6       | 7.4       | 5.6       | 4.8                     | 3.9    | 3.4    | 3.8    | 3.6    | 3.2    | 3.0    | 2.9    | 2.6    | 2.6    | 2.8    | 3.0    | 3.5    |
| 871       | 755       | 525       | 486       | 589       | 508       | \$\$      | \$\$                    | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   | \$\$   |
| 11.1      | 9.9       | 7.3       | 6.8       | 8.1       | 6.8       |           |                         |        |        |        |        |        |        |        |        |        |        |        |        |
| 1,730     | 1,239     | 926       | 812       | 880       | 394       | 493       | 792                     | 712    | 735    | 719    | 731    | 755    | 798    | 752    | 832    | 821    | 841    | 809    | 1,033  |
| 22.0      | 16.2      | 12.8      | 11.4      | 12.1      | 5.2       | 6.6       | 9.8                     | 8.8    | 8.9    | 8.6    | 8.7    | 8.9    | 9.3    | 8.8    | 9.6    | 9.8    | 10.1   | 9.2    | 12.2   |
| 680       | 641       | 711       | 603       | 600       | 599       | 514       | 483                     | 477    | 509    | 557    | 550    | 565    | 552    | 525    | 565    | 562    | 541    | 547    | 563    |
| 8.6       | 8.4       | 9.8       | 8.4       | 8.3       | 8.0       | 6.9       | 6.0                     | 5.9    | 6.2    | 6.7    | 6.5    | 6.7    | 6.5    | 6.1    | 6.6    | 6.7    | 6.5    | 6.2    | 6.6    |
| 992       | 1,663     | 1,700     | 1,763     | 1,902     | 1,815     | 778       | 624                     | 549    | 528    | 440    | 343    | 353    | 379    | 362    | 298    | 311    | 321    | 486    | 512    |
| 12.6      | 21.7      | 23.5      | 24.7      | 26.2      | 24.1      | 10.4      | 7.7                     | 6.8    | 6.4    | 5.3    | 4.1    | 4.2    | 4.4    | 4.2    | 3.5    | 3.7    | 3.9    | 5.5    | 6.0    |
| 946       | 1,062     | 699       | 696       | 504       | 161       | 151       | 232                     | 212    | 247    | 241    | 227    | 253    | 265    | 259    | 245    | 296    | 313    | 255    | 243    |
| 10.9      | 13.9      | 9.7       | 9.7       | 6.9       | 2.0       | 2.0       | 2.9                     | 2.6    | 3.0    | 2.9    | 2.7    | 3.0    | 3.1    | 3.0    | 2.8    | 3.5    | 3.8    | 2.9    | 2.9    |
| \$\$      | \$\$      | \$\$      | \$\$      | \$\$      | 84        | 115       | 232                     | 400    | 626    | 696    | 740    | 789    | 1,079  | 1,100  | 1,116  | 1,195  | 1,141  | 1,129  | 1,120  |
|           |           |           |           | 1.2       | 1.5       | 2.9       | 4.9                     | 7.6    | 8.3    | 8.8    | 9.3    | 12.6   | 12.9   | 12.9   | 14.2   | 13.7   | 12.8   | 13.2   | 13.2   |
| \$\$      | \$\$      | \$\$      | \$\$      | 269       | 243       | 196       | 154                     | 171    | 166    | 180    | 182    | 167    | 157    | 161    | 174    | 172    | 204    | 133    | 133    |
|           |           |           |           | 3.7       | 3.3       | 2.4       | 1.9                     | 2.1    | 2.0    | 2.1    | 2.1    | 2.0    | 1.8    | 1.9    | 2.1    | 2.1    | 2.1    | 2.3    | 1.6    |

# MORTALITY

Table M14. Alcohol-Attributable Deaths Due to Excessive Alcohol Use, Age ≥20 Years\*, New York City, 2021

| Cause  | Total† | Male  | Female |
|--|--------|-------|--------|
|  | 2,423  | 2,149 | 275    |
| Acute Pancreatitis                                 | 10     | 5     | 5      |
| Air-space transport                                | 0      | 0     | 0      |
| Alcohol abuse                                      | 153    | 120   | 33     |
| Alcohol-induced acute pancreatitis                 | 10     | 8     | 2      |
| Alcohol cardiomyopathy                             | 5      | 5     | 0      |
| Alcohol induced chronic pancreatitis               | 1      | 1     | 0      |
| Alcohol dependence syndrome                        | 14     | 11    | 3      |
| Alcoholic gastritis                                | 388    | 285   | 103    |
| Alcoholic liver disease                            | 1      | 1     | 0      |
| Alcohol poisoning                                  | 18     | 15    | 3      |
| Alcoholic psychosis                                | 212    | 171   | 41     |
| Suicide by and exposure to alcohol                 | 2      | 2     | 0      |
| Aspiration   | 5      | 4     | 2      |
| Atrial fibrillation                                | 19     | 10    | 9      |
| Breast Cancer, females                             | 92     | -     | 92     |
| Colorectal cancer                                  | 75     | 61    | 14     |
| Esophageal cancer                                  | 33     | 23    | 11     |
| Laryngeal cancer                                   | 16     | 14    | 2      |
| Liver cancer                                       | 58     | 52    | 7      |
| Cancer, oral cavity and pharyngeal                 | 56     | 45    | 10     |
| Pancreatic cancer                                  | 6      | 4     | 3      |
| Prostate cancer                                    | 16     | 16    | 0      |
| Stomach cancer                                     | 2      | 2     | 0      |
| Child maltreatment                                 | 4      | 2     | 1      |
| Chronic hepatitis                                  | 0      | 0     | -      |
| Chronic pancreatitis                               | 1      | 1     | 0      |
| Drowning injuries                                  | 12     | 10    | 2      |
| Esophageal varices                                 | 2      | 2     | 0      |
| Fall injuries                                      | 65     | 51    | 13     |
| Firearm injuries                                   | 0      | 0     | 0      |
| Fire injuries                                      | 24     | 14    | 10     |
| Gallbladder  | -22    | -10   | -11    |
| Gastroesophageal hemorrhage                        | 0      | 0     | 0      |
| Homicide   | 230    | 201   | 30     |
| Hypertension                                       | 186    | 287   | -102   |
| Hypothermia  | 14     | 11    | 2      |
| Infant death, low birth weight                     | 0      | 0     | 0      |
| Infant death, preterm birth                        | 1      | 0     | 1      |
| Coronary heart disease                             | -366   | -173  | -193   |
| Liver cirrhosis, unspecified                       | 121    | 71    | 50     |
| Occupational and machine injuries                  | 1      | 1     | -      |
| Motor vehicle nontraffic                           | 0      | 0     | 0      |
| Motor Vehicle traffic                              | 103    | 84    | 19     |
| Other road vehicle accidents                       | 6      | 5     | 1      |
| Poisoning (not alcohol)                            | 780    | 585   | 195    |
| Pneumonia  | 27     | 22    | 5      |
| Portal Hypertension                                | 3      | 2     | 1      |
| Unprovoked seizures, epilepsy, or seizure disorder | 17     | 11    | 6      |
| Stroke, hemorrhagic                                | 89     | 40    | 49     |
| Stroke, ischemic                                   | -201   | -23   | -178   |
| Suicide  | 133    | 100   | 33     |
| Water Transport                                    | 0      | 0     | 0      |

Note: Alcohol prevalence data are provided by the Bureau of Epidemiology Services. There were additional revisions on methods from the CDC since we published 2019 alcohol-attributable deaths. The relative risks and alcohol-attributable fractions were updated to reflect more recent scientific literature. We applied those revisions to the above table. See Technical Notes: Deaths, Alcohol and Smoking Attributable Mortality.

\* Generally, chronic causes of death are collected for people aged 20 years and older, and acute causes of death for people aged 15 years and older. However, there are several exceptions to this rule. See Technical Notes.

† Total may not equal sum of males and females due to rounding.

**Table M15. Smoking-Attributable Deaths and Age-adjusted Death Rates, Age ≥ 35 Years, New York City, 2018 - 2021**

| Disease Category  | 2018         |              |              |   |              |              | 2019         |              |              |   |              |              | 2020         |              |              |   |              |              | 2021         |              |              |   |             |              |
|---|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|--------------|---|-------------|--------------|
|   | Deaths       |              |              | Age-adjusted Rates (per 100,000 Population) |              |              | Deaths       |              |              | Age-adjusted Rates (per 100,000 Population) |              |              | Deaths       |              |              | Age-adjusted Rates (per 100,000 Population) |              |              | Deaths       |              |              | Age-adjusted Rates (per 100,000 Population) |             |              |
|   | Male         | Female       | Total        | Male  | Female       | Total        | Male         | Female       | Total        | Male  | Female       | Total        | Male         | Female       | Total        | Male  | Female       | Total        | Male         | Female       | Total        | Male  | Female      | Total        |
| <b>Total</b>  | <b>4,585</b> | <b>3,414</b> | <b>7,999</b> | <b>223.7</b>                                | <b>118.8</b> | <b>163.1</b> | <b>4,494</b> | <b>3,070</b> | <b>7,564</b> | <b>212.9</b>                                | <b>105.0</b> | <b>150.8</b> | <b>5,041</b> | <b>3,497</b> | <b>8,538</b> | <b>226.6</b>                                | <b>116.0</b> | <b>163.9</b> | <b>3,858</b> | <b>2,413</b> | <b>6,271</b> | <b>169.3</b>                                | <b>79.4</b> | <b>118.5</b> |
| Cerebrovascular disease                                   | 66           | 68           | 134          | 3.3   | 2.3          | 2.7          | 63           | 61           | 124          | 3.0   | 2.0          | 2.4          | 85           | 79           | 164          | 4.0   | 2.6          | 3.2          | 64           | 49           | 113          | 2.9   | 1.6         | 2.1          |
| Chronic obstructive pulmonary disease (ages ≥ 65)         | 502          | 577          | 1,079        | 26.3  | 19.8         | 22.4         | 555          | 539          | 1,094        | 27.4  | 18.6         | 22.1         | 518          | 533          | 1,051        | 25.4  | 17.5         | 20.6         | 384          | 402          | 786          | 18.4  | 12.9        | 15.1         |
| Coronary heart disease                                    | 1,614        | 1,207        | 2,821        | 79.5  | 42.1         | 58.2         | 1,646        | 1,076        | 2,722        | 78.5  | 37.0         | 54.9         | 2,054        | 1,431        | 3,485        | 93.1  | 47.8         | 67.8         | 1,382        | 791          | 2,173        | 61.0  | 26.2        | 41.7         |
| Diabetes mellitus   | 59           | 31           | 90           | 2.7   | 1.1          | 1.7          | 72           | 32           | 104          | 3.1   | 1.1          | 1.9          | 74           | 41           | 115          | 3.0   | 1.3          | 2.0          | 56           | 20           | 76           | 2.2   | 0.6         | 1.3          |
| Influenza, pneumonia, tuberculosis, and COPD (ages 35-64) | 186          | 128          | 314          | 7.6   | 4.6          | 6.0          | 194          | 118          | 312          | 7.9   | 4.3          | 6.0          | 250          | 128          | 378          | 9.3   | 4.5          | 6.8          | 169          | 102          | 271          | 6.4   | 3.5         | 4.9          |
| Influenza, pneumonia, and tuberculosis (ages ≥ 65)        | 184          | 90           | 274          | 9.7   | 3.1          | 5.7          | 153          | 60           | 213          | 7.8   | 2.0          | 4.3          | 194          | 91           | 285          | 9.3   | 3.0          | 5.5          | 137          | 48           | 185          | 6.3   | 1.5         | 3.5          |
| Lung cancer   | 1,037        | 847          | 1,884        | 49.5  | 29.4         | 37.7         | 917          | 744          | 1,661        | 42.9  | 25.2         | 32.5         | 891          | 695          | 1,586        | 39.6  | 22.7         | 29.8         | 844          | 627          | 1,471        | 36.8  | 20.4        | 27.3         |
| Other cancers   | 605          | 251          | 856          | 29.4  | 8.6          | 17.3         | 583          | 222          | 805          | 27.4  | 7.6          | 15.9         | 581          | 233          | 814          | 25.9  | 7.6          | 15.3         | 491          | 176          | 667          | 21.4  | 5.8         | 12.5         |
| Other cardiovascular diseases (ages 35-64)*               | 199          | 67           | 266          | 8.6   | 2.7          | 5.5          | 197          | 61           | 258          | 8.4   | 2.5          | 5.3          | 231          | 67           | 298          | 9.1   | 2.5          | 5.7          | 195          | 59           | 254          | 7.9   | 2.3         | 5.0          |
| Other heart disease (ages ≥ 65)†                          | 70           | 82           | 152          | 3.7   | 2.8          | 3.2          | 77           | 86           | 163          | 3.7   | 2.9          | 3.3          | 96           | 103          | 199          | 4.6   | 3.4          | 3.9          | 86           | 95           | 181          | 3.9   | 3.1         | 3.5          |
| Other vascular diseases (ages ≥ 65)‡                      | 63           | 66           | 129          | 3.3   | 2.3          | 2.7          | 53           | 55           | 108          | 2.6   | 1.8          | 2.2          | 67           | 96           | 163          | 3.4   | 3.2          | 3.2          | 50           | 44           | 94           | 2.2   | 1.4         | 1.8          |

Note: Smoking prevalence rates are from the New York City Community Health Survey and calculated by the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene. Beginning in 2014, the calculation of smoking-attributable deaths uses the updated CDC method. As a result, the number of smoking-attributable deaths are much higher than in prior years. See Technical Notes: Deaths, Alcohol- and Smoking-attributable Mortality for methodology.

Total may differ from sum of male and female numbers due to rounding.

\* Other cardiovascular diseases are comprised of other heart diseases, cerebrovascular diseases, other vascular diseases and diabetes mellitus.

† Other heart diseases are comprised of rheumatic heart disease, pulmonary heart disease, and other forms of heart disease.

‡ Other vascular diseases are comprised of atherosclerosis, aortic aneurysm, and other arterial diseases.

### Table M16. Deaths From HIV Disease, Overall and by Sex, Age, and Racial/Ethnic Group\*

| Age and Racial/Ethnic Groups | All                      |               |              |              |            |            |            |            |            |            |            |            |            |            |            |            |               | Male          |            |            |            |            |            |
|------------------------------|--------------------------|---------------|--------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|---------------|------------|------------|------------|------------|------------|
|                              | 1983-2006                | 2007          | 2008         | 2009         | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021       | 1983-2006     | 2007          | 2008       | 2009       | 2010       | 2011       |            |
|                              | <b>ALL AGES</b>          | <b>75,642</b> | <b>1,115</b> | <b>1,073</b> | <b>933</b> | <b>832</b> | <b>766</b> | <b>609</b> | <b>579</b> | <b>523</b> | <b>483</b> | <b>432</b> | <b>369</b> | <b>331</b> | <b>340</b> | <b>340</b> | <b>319</b>    | <b>57,706</b> | <b>711</b> | <b>702</b> | <b>603</b> | <b>574</b> | <b>528</b> |
| Total                        | 14,138                   | 224           | 217          | 187          | 196        | 186        | 115        | 138        | 88         | 102        | 70         | 63         | 44         | 50         | 55         | 59         | 10,383        | 142           | 138        | 125        | 135        | 123        |            |
| Puerto Rican (PR)            | 6,735                    | 103           | 118          | 105          | 72         | 46         | 37         | 34         | 43         | 29         | 54         | 43         | 42         | 52         | 49         | 36         | 5,487         | 76            | 84         | 71         | 54         | 39         |            |
| Hisp./Latino (not PR)        | 487                      | 5             | 10           | 3            | 6          | 4          | 5          | 8          | 2          | 5          | 6          | 5          | 3          | 3          | 5          | 8          | 431           | 3             | 7          | 2          | 3          | 2          |            |
| Asian & Pacific Islander     | 18,860                   | 143           | 129          | 90           | 100        | 94         | 80         | 73         | 62         | 50         | 45         | 45         | 48         | 30         | 27         | 28         | 16,401        | 103           | 104        | 68         | 76         | 75         |            |
| Non-Hisp./Lat. White         | 31,593                   | 625           | 583          | 537          | 449        | 421        | 359        | 311        | 298        | 277        | 231        | 201        | 180        | 195        | 182        | 166        | 21,940        | 377           | 356        | 329        | 297        | 277        |            |
| Non-Hisp./Lat. Black         | 3,829                    | 15            | 16           | 11           | 9          | 15         | 13         | 15         | 30         | 20         | 26         | 12         | 14         | 10         | 22         | 22         | 3,064         | 10            | 13         | 8          | 9          | 12         |            |
| Other or Unknown             | <b>2,396</b>             | <b>21</b>     | <b>17</b>    | <b>15</b>    | <b>8</b>   | <b>16</b>  | <b>13</b>  | <b>8</b>   | <b>9</b>   | <b>8</b>   | <b>7</b>   | <b>2</b>   | <b>2</b>   | <b>4</b>   | <b>3</b>   | <b>1</b>   | <b>1,315</b>  | <b>10</b>     | <b>7</b>   | <b>6</b>   | <b>4</b>   | <b>13</b>  |            |
| <b>0-24</b>                  | Puerto Rican             | 452           | 7            | 3            | 2          | 1          | 4          | 2          | -          | -          | 2          | -          | 1          | -          | -          | 1          | 253           | 3             | -          | -          | -          | 2          |            |
|                              | Hisp./Latino (not PR)    | 264           | 5            | -            | 3          | -          | -          | -          | -          | -          | -          | -          | 1          | -          | 1          | -          | 162           | 4             | -          | -          | -          | -          |            |
|                              | Asian & Pacific Islander | 14            | -            | -            | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | 9             | -             | -          | -          | -          | 1          |            |
|                              | Non-Hisp./Lat. White     | 360           | 1            | 1            | 3          | -          | -          | 1          | 2          | 1          | -          | -          | -          | -          | -          | -          | 220           | 1             | 1          | 2          | -          | -          |            |
|                              | Non-Hisp./Lat. Black     | 1,174         | 8            | 13           | 7          | 6          | 12         | 9          | 7          | 7          | 4          | 7          | 1          | 1          | 3          | 2          | 605           | 2             | 6          | 4          | 3          | 11         |            |
|                              | Other or Unknown         | 132           | -            | -            | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | 66            | -             | -          | -          | -          | -          |            |
| <b>25-34</b>                 | Total                    | <b>17,109</b> | <b>52</b>    | <b>77</b>    | <b>49</b>  | <b>37</b>  | <b>40</b>  | <b>34</b>  | <b>29</b>  | <b>28</b>  | <b>28</b>  | <b>31</b>  | <b>33</b>  | <b>21</b>  | <b>27</b>  | <b>27</b>  | <b>12,326</b> | <b>32</b>     | <b>48</b>  | <b>32</b>  | <b>27</b>  | <b>29</b>  |            |
|                              | Puerto Rican             | 3,535         | 8            | 8            | 7          | 11         | 2          | 3          | 5          | 4          | 5          | 3          | 2          | -          | 2          | 2          | 4,266         | 3             | 5          | 6          | 7          | 2          |            |
|                              | Hisp./Latino (not PR)    | 1,808         | 4            | 11           | 3          | 8          | 6          | 4          | 3          | 2          | 3          | 5          | 3          | 7          | 6          | 2          | 1,439         | 4             | 10         | 2          | 6          | 7          |            |
|                              | Asian & Pacific Islander | 92            | 1            | -            | 1          | -          | 2          | 1          | -          | 1          | 1          | 2          | 1          | 2          | -          | 1          | 78            | -             | -          | -          | -          | 1          |            |
|                              | Non-Hisp./Lat. White     | 4,063         | 3            | 6            | 5          | 1          | 3          | 1          | 2          | 1          | 1          | -          | 2          | 2          | 1          | 3          | 3,383         | 2             | 4          | 5          | 1          | 2          |            |
|                              | Non-Hisp./Lat. Black     | 6,715         | 35           | 52           | 33         | 17         | 25         | 23         | 17         | 19         | 18         | 24         | 21         | 14         | 14         | 15         | 12            | 4,287         | 22         | 29         | 19         | 13         |            |
|                              | Other or Unknown         | 896           | 1            | -            | -          | -          | -          | 1          | 1          | 1          | -          | 1          | -          | 1          | 1          | 1          | 673           | 1             | -          | -          | -          | -          |            |
| <b>35-44</b>                 | Total                    | <b>31,631</b> | <b>311</b>   | <b>246</b>   | <b>190</b> | <b>142</b> | <b>125</b> | <b>90</b>  | <b>73</b>  | <b>60</b>  | <b>64</b>  | <b>54</b>  | <b>46</b>  | <b>33</b>  | <b>33</b>  | <b>37</b>  | <b>24,242</b> | <b>177</b>    | <b>144</b> | <b>111</b> | <b>94</b>  | <b>77</b>  |            |
|                              | Puerto Rican             | 5,769         | 64           | 57           | 45         | 34         | 28         | 17         | 22         | 12         | 8          | 7          | 4          | 6          | 6          | 2          | 4,293         | 41            | 30         | 26         | 20         | 17         |            |
|                              | Hisp./Latino (not PR)    | 2,664         | 27           | 37           | 28         | 19         | 8          | 4          | 3          | 7          | 5          | 10         | 5          | 6          | 2          | 5          | 2,179         | 17            | 23         | 16         | 14         | 8          |            |
|                              | Asian & Pacific Islander | 195           | 2            | 3            | 1          | -          | 1          | 2          | 3          | 1          | 3          | 1          | 2          | -          | -          | 1          | 181           | 1             | 3          | 1          | -          | -          |            |
|                              | Non-Hisp./Lat. White     | 8,307         | 46           | 34           | 18         | 16         | 12         | 15         | 7          | 10         | 4          | 5          | 5          | -          | 2          | 2          | 7,237         | 32            | 22         | 12         | 11         | 10         |            |
|                              | Non-Hisp./Lat. Black     | 13,103        | 168          | 113          | 98         | 71         | 76         | 49         | 37         | 28         | 40         | 30         | 30         | 18         | 22         | 23         | 9,076         | 83            | 65         | 56         | 47         | 42         |            |
|                              | Other or Unknown         | 1,593         | 4            | 2            | -          | -          | 3          | 1          | 2          | 4          | 1          | -          | -          | 3          | 1          | 4          | 1,276         | 3             | 1          | -          | 2          | -          |            |
| <b>45-54</b>                 | Total                    | <b>17,364</b> | <b>448</b>   | <b>425</b>   | <b>352</b> | <b>330</b> | <b>287</b> | <b>217</b> | <b>215</b> | <b>167</b> | <b>143</b> | <b>106</b> | <b>96</b>  | <b>83</b>  | <b>71</b>  | <b>66</b>  | <b>13,921</b> | <b>289</b>    | <b>275</b> | <b>225</b> | <b>219</b> | <b>183</b> |            |
|                              | Puerto Rican             | 3,210         | 84           | 89           | 65         | 85         | 75         | 46         | 55         | 34         | 38         | 16         | 13         | 13         | 10         | 12         | 2,463         | 58            | 56         | 51         | 62         | 43         |            |
|                              | Hisp./Latino (not PR)    | 1,361         | 43           | 46           | 46         | 29         | 15         | 14         | 14         | 16         | 9          | 13         | 17         | 9          | 11         | 8          | 1,165         | 32            | 33         | 35         | 20         | 12         |            |
|                              | Asian & Pacific Islander | 122           | -            | 5            | -          | 3          | -          | -          | 1          | 1          | 1          | -          | -          | -          | -          | 1          | 112           | -             | 3          | -          | -          | 1          |            |
|                              | Non-Hisp./Lat. White     | 4,340         | 61           | 45           | 35         | 37         | 41         | 28         | 28         | 16         | 15         | 11         | 14         | 9          | 6          | 1          | 3,931         | 40            | 37         | 25         | 28         | 30         |            |
|                              | Non-Hisp./Lat. Black     | 7,459         | 256          | 231          | 200        | 173        | 150        | 123        | 111        | 87         | 76         | 58         | 45         | 48         | 40         | 40         | 32            | 5,496         | 156        | 139        | 111        | 105        | 95         |
|                              | Other or Unknown         | 872           | 4            | 9            | 6          | 3          | 6          | 6          | 6          | 13         | 4          | 7          | 7          | 4          | 3          | 4          | 754           | 3             | 7          | 3          | 3          | 3          |            |
| <b>55-64</b>                 | Total                    | <b>5,531</b>  | <b>213</b>   | <b>231</b>   | <b>241</b> | <b>239</b> | <b>213</b> | <b>169</b> | <b>172</b> | <b>174</b> | <b>141</b> | <b>150</b> | <b>117</b> | <b>116</b> | <b>117</b> | <b>106</b> | <b>4,621</b>  | <b>154</b>    | <b>173</b> | <b>164</b> | <b>179</b> | <b>159</b> |            |
|                              | Puerto Rican             | 960           | 39           | 49           | 49         | 51         | 54         | 34         | 42         | 24         | 33         | 25         | 25         | 10         | 19         | 18         | 746           | 23            | 38         | 30         | 38         | 41         |            |
|                              | Hisp./Latino (not PR)    | 488           | 18           | 15           | 18         | 11         | 9          | 5          | 11         | 13         | 4          | 21         | 11         | 16         | 18         | 15         | 416           | 13            | 13         | 12         | 10         | 7          |            |
|                              | Asian & Pacific Islander | 46            | 1            | -            | -          | 2          | -          | 2          | 3          | -          | -          | 1          | -          | 1          | -          | 2          | 38            | 1             | -          | -          | 1          | -          |            |
|                              | Non-Hisp./Lat. White     | 1,378         | 22           | 32           | 21         | 36         | 30         | 24         | 21         | 20         | 16         | 15         | 17         | 27         | 9          | 6          | 4             | 1,271         | 19         | 30         | 17         | 28         | 25         |
|                              | Non-Hisp./Lat. Black     | 2,397         | 128          | 131          | 150        | 136        | 112        | 101        | 92         | 106        | 80         | 78         | 61         | 58         | 67         | 56         | 58            | 1,919         | 96         | 88         | 102        | 99         | 78         |
|                              | Other or Unknown         | 262           | 5            | 4            | 3          | 3          | 8          | 3          | 3          | 11         | 8          | 10         | 3          | 4          | 4          | 9          | 10            | 231           | 2          | 4          | 3          | 3          |            |
| <b>≥65</b>                   | Total                    | <b>1,610</b>  | <b>70</b>    | <b>77</b>    | <b>86</b>  | <b>76</b>  | <b>85</b>  | <b>86</b>  | <b>82</b>  | <b>85</b>  | <b>99</b>  | <b>84</b>  | <b>75</b>  | <b>76</b>  | <b>88</b>  | <b>101</b> | <b>88</b>     | <b>1,280</b>  | <b>49</b>  | <b>55</b>  | <b>65</b>  | <b>51</b>  | <b>67</b>  |
|                              | Puerto Rican             | 212           | 22           | 11           | 19         | 14         | 23         | 13         | 14         | 14         | 16         | 19         | 19         | 14         | 13         | 21         | 13            | 162           | 14         | 9          | 12         | 8          | 18         |
|                              | Hisp./Latino (not PR)    | 150           | 6            | 9            | 7          | 5          | 6          | 6          | 2          | 4          | 8          | 7          | 4          | 8          | 13         | 14         | 10            | 126           | 6          | 5          | 6          | 4          | 5          |
|                              | Asian & Pacific Islander | 18            | 1            | 2            | 1          | -          | 1          | -          | 1          | -          | 2          | 1          | 1          | -          | 1          | -          | 13            | 1             | 1          | 1          | -          | 1          |            |
|                              | Non-Hisp./Lat. White     | 412           | 10           | 11           | 8          | 10         | 8          | 12         | 14         | 13         | 14         | 7          | 10         | 12         | 15         | 15         | 359           | 9             | 10         | 7          | 8          | 8          |            |
|                              | Non-Hisp./Lat. Black     | 745           | 30           | 43           | 49         | 46         | 54         | 47         | 51         | 59         | 34         | 43         | 41         | 49         | 46         | 45         | 557           | 18            | 29         | 37         | 30         | 34         |            |
|                              | Other or Unknown         | 73            | 1            | 1            | 2          | 1          | 1          | 1          | 4          | 3          | 3          | 8          | 11         | 2          | 1          | 4          | 63            | 1             | 1          | 2          | 1          | 1          |            |

Note: See Technical Notes: Deaths, HIV and AIDS Mortality.

\* Beginning in 2003, multiple races are included in the "Other or Unknown" category in this table. See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

# MORTALITY

## New York City, 1983-2021

|            |            |            |            |            |           |           |           |           |           |              | Female     |            |            |            |            |           |           |           |           |           |           |           |           |           |           |
|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|--------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2012       | 2013       | 2014       | 2015       | 2016       | 2017      | 2018      | 2019      | 2020      | 2021      | 1983-2006    | 2007       | 2008       | 2009       | 2010       | 2011       | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      | 2020      | 2021      |
| 402        | 398        | 359        | 332        | 296        | 249       | 230       | 225       | 229       | 229       | 17,936       | 404        | 371        | 330        | 258        | 238        | 207       | 181       | 164       | 151       | 136       | 120       | 101       | 115       | 111       | 90        |
| 75         | 94         | 56         | 68         | 50         | 44        | 31        | 37        | 39        | 44        | 3,755        | 82         | 79         | 62         | 61         | 63         | 40        | 44        | 32        | 34        | 20        | 19        | 13        | 13        | 16        | 15        |
| 28         | 28         | 36         | 19         | 44         | 34        | 30        | 34        | 36        | 27        | 1,248        | 27         | 34         | 34         | 18         | 7          | 9         | 6         | 7         | 10        | 10        | 9         | 12        | 18        | 13        | 9         |
| 4          | 5          | 1          | 3          | 6          | 4         | 3         | 3         | 4         | 5         | 56           | 2          | 3          | 1          | 3          | 2          | 1         | 3         | 1         | 2         | -         | 1         | -         | -         | 1         | 3         |
| 63         | 53         | 50         | 40         | 36         | 34        | 33        | 22        | 24        | 25        | 2,459        | 40         | 25         | 22         | 24         | 19         | 17        | 20        | 12        | 10        | 9         | 11        | 15        | 8         | 3         | 3         |
| 223        | 204        | 196        | 185        | 140        | 124       | 122       | 122       | 111       | 114       | 9,653        | 248        | 227        | 208        | 152        | 144        | 136       | 107       | 102       | 92        | 91        | 77        | 58        | 73        | 71        | 52        |
| 9          | 14         | 20         | 17         | 20         | 9         | 11        | 7         | 15        | 14        | 765          | 5          | 3          | 3          | -          | 3          | 4         | 1         | 10        | 3         | 6         | 3         | 3         | 3         | 7         | 8         |
| <b>6</b>   | <b>6</b>   | <b>7</b>   | <b>5</b>   | <b>2</b>   | <b>1</b>  | <b>2</b>  | <b>4</b>  | <b>2</b>  | -         | <b>1,081</b> | <b>11</b>  | <b>10</b>  | <b>9</b>   | <b>4</b>   | <b>3</b>   | <b>7</b>  | <b>2</b>  | <b>2</b>  | <b>3</b>  | <b>5</b>  | <b>1</b>  | -         | -         | <b>1</b>  | <b>1</b>  |
| -          | -          | -          | 2          | -          | -         | 1         | -         | -         | -         | 199          | 4          | 3          | 2          | 1          | 2          | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 1         |
| -          | -          | -          | -          | -          | 1         | -         | 1         | -         | -         | 102          | 1          | -          | 3          | -          | 1          | -         | -         | -         | 1         | -         | -         | -         | -         | -         | -         |
| -          | -          | -          | -          | -          | -         | -         | -         | -         | -         | 5            | -          | -          | -          | -          | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| -          | -          | 2          | 1          | -          | -         | -         | -         | -         | -         | 140          | -          | -          | 1          | -          | -          | -         | 1         | -         | -         | -         | -         | -         | -         | -         | -         |
| 5          | 6          | 5          | 2          | 2          | -         | 1         | 3         | 1         | -         | 569          | 6          | 7          | 3          | 3          | 1          | 4         | 1         | 2         | 2         | 5         | 1         | -         | -         | 1         | -         |
| -          | -          | -          | -          | -          | -         | -         | -         | -         | -         | 66           | -          | -          | -          | -          | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| <b>24</b>  | <b>27</b>  | <b>17</b>  | <b>21</b>  | <b>24</b>  | <b>22</b> | <b>15</b> | <b>23</b> | <b>19</b> | <b>18</b> | <b>4,783</b> | <b>20</b>  | <b>29</b>  | <b>17</b>  | <b>10</b>  | <b>11</b>  | <b>10</b> | <b>2</b>  | <b>11</b> | <b>7</b>  | <b>7</b>  | <b>11</b> | <b>6</b>  | <b>4</b>  | <b>8</b>  | <b>4</b>  |
| 2          | 5          | -          | 2          | 2          | 1         | -         | 2         | 2         | 4         | 1,069        | 5          | 3          | 2          | 1          | 4          | -         | 1         | 4         | 3         | 1         | 1         | -         | -         | -         | -         |
| 5          | 4          | 3          | 2          | 3          | 4         | 2         | 7         | 4         | 2         | 369          | -          | 1          | 1          | 2          | 1          | 1         | -         | -         | -         | -         | 1         | 1         | -         | 2         | -         |
| 1          | -          | -          | 1          | 1          | 2         | 1         | 2         | -         | -         | 14           | 1          | -          | 1          | -          | 1          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 1          | 1          | 1          | 1          | 1          | 1         | 2         | 1         | 3         | 2         | 680          | 1          | 2          | -          | -          | 1          | -         | 1         | -         | -         | -         | -         | -         | -         | -         | -         |
| 15         | 16         | 12         | 14         | 18         | 14        | 9         | 10        | 9         | 9         | 2,428        | 13         | 23         | 14         | 4          | 8          | 8         | 1         | 7         | 4         | 6         | 7         | 5         | 4         | 6         | 3         |
| -          | 1          | 1          | 1          | -          | -         | 1         | 1         | 1         | 1         | 223          | -          | -          | -          | -          | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | 1         |
| <b>54</b>  | <b>45</b>  | <b>33</b>  | <b>32</b>  | <b>31</b>  | <b>29</b> | <b>19</b> | <b>22</b> | <b>26</b> | <b>24</b> | <b>7,389</b> | <b>134</b> | <b>102</b> | <b>79</b>  | <b>48</b>  | <b>48</b>  | <b>36</b> | <b>28</b> | <b>27</b> | <b>32</b> | <b>23</b> | <b>17</b> | <b>14</b> | <b>11</b> | <b>11</b> | <b>8</b>  |
| 10         | 10         | 4          | 6          | 6          | 3         | 4         | 6         | 2         | 5         | 1,476        | 23         | 27         | 19         | 14         | 11         | 7         | 12        | 8         | 2         | 1         | 1         | 2         | -         | -         | -         |
| 1          | 3          | 5          | 2          | 8          | 4         | 4         | 2         | 5         | 4         | 485          | 10         | 14         | 12         | 5          | -          | 3         | -         | 2         | 3         | 2         | 1         | 2         | -         | -         | 1         |
| 1          | 1          | -          | 1          | 1          | 2         | -         | -         | 1         | -         | 14           | 1          | -          | -          | 1          | 1          | 2         | 1         | 2         | -         | -         | -         | -         | -         | -         | 1         |
| 13         | 3          | 7          | 1          | 4          | 5         | -         | 1         | 2         | 1         | 1,070        | 14         | 12         | 6          | 5          | 2          | 4         | 3         | 3         | 1         | -         | -         | -         | 1         | 8         | -         |
| 28         | 27         | 16         | 20         | 12         | 15        | 9         | 12        | 15        | 14        | 4,027        | 85         | 48         | 42         | 24         | 34         | 21        | 10        | 12        | 20        | 18        | 15        | 9         | 10        | 3         | 5         |
| 1          | 1          | 1          | 2          | -          | -         | 2         | 1         | 1         | 1         | 317          | 1          | 1          | 1          | -          | -          | 2         | -         | 1         | 2         | 1         | -         | 1         | -         | -         | 1         |
| <b>136</b> | <b>140</b> | <b>115</b> | <b>97</b>  | <b>63</b>  | <b>62</b> | <b>52</b> | <b>41</b> | <b>37</b> | <b>44</b> | <b>3,443</b> | <b>159</b> | <b>150</b> | <b>127</b> | <b>111</b> | <b>104</b> | <b>81</b> | <b>75</b> | <b>52</b> | <b>46</b> | <b>43</b> | <b>34</b> | <b>31</b> | <b>30</b> | <b>29</b> | <b>22</b> |
| 29         | 38         | 22         | 25         | 10         | 9         | 5         | 5         | 7         | 6         | 747          | 26         | 33         | 14         | 23         | 32         | 17        | 17        | 12        | 13        | 6         | 4         | 8         | 5         | 5         | 4         |
| 12         | 10         | 13         | 7          | 11         | 13        | 7         | 5         | 6         | 5         | 196          | 11         | 13         | 11         | 9          | 3          | 2         | 4         | 3         | 2         | 2         | 4         | 2         | 6         | 2         | 5         |
| -          | 1          | 1          | 1          | -          | -         | -         | 1         | 1         | 2         | 10           | -          | 2          | -          | 2          | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | 1         |
| 22         | 20         | 13         | 11         | 8          | 11        | 7         | 4         | 1         | 6         | 409          | 21         | 8          | 10         | 9          | 11         | 6         | 8         | 3         | 4         | 3         | 3         | 2         | 2         | -         | -         |
| 69         | 65         | 55         | 50         | 28         | 24        | 30        | 24        | 20        | 22        | 1,963        | 100        | 92         | 89         | 68         | 55         | 54        | 46        | 32        | 26        | 30        | 21        | 18        | 16        | 20        | 10        |
| 4          | 6          | 11         | 3          | 5          | 5         | 3         | 2         | 2         | 3         | 118          | 1          | 2          | 3          | -          | 3          | 2         | -         | 2         | 1         | 2         | 2         | 1         | 1         | 2         | 2         |
| <b>120</b> | <b>118</b> | <b>130</b> | <b>103</b> | <b>109</b> | <b>84</b> | <b>88</b> | <b>70</b> | <b>72</b> | <b>76</b> | <b>910</b>   | <b>59</b>  | <b>58</b>  | <b>77</b>  | <b>60</b>  | <b>54</b>  | <b>49</b> | <b>54</b> | <b>44</b> | <b>38</b> | <b>41</b> | <b>33</b> | <b>28</b> | <b>47</b> | <b>34</b> | <b>34</b> |
| 25         | 33         | 21         | 20         | 19         | 19        | 9         | 15        | 11        | 19        | 214          | 16         | 11         | 19         | 13         | 13         | 9         | 9         | 3         | 13        | 6         | 6         | 1         | 4         | 7         | 7         |
| 4          | 10         | 11         | 1          | 16         | 8         | 13        | 11        | 11        | 8         | 72           | 5          | 2          | 6          | 1          | 2          | 1         | 1         | 2         | 3         | 5         | 3         | 7         | 4         | 1         | 1         |
| 2          | 2          | -          | -          | 1          | -         | -         | -         | 2         | -         | 8            | -          | -          | -          | -          | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 19         | 16         | 18         | 15         | 12         | 12        | 17        | 7         | 3         | 3         | 107          | 3          | 2          | 4          | 8          | 5          | 5         | 5         | 2         | 1         | 3         | 5         | 10        | 2         | 3         | 1         |
| 67         | 54         | 75         | 59         | 54         | 42        | 44        | 35        | 37        | 37        | 478          | 32         | 43         | 48         | 37         | 34         | 34        | 38        | 31        | 21        | 24        | 19        | 14        | 32        | 19        | 21        |
| 3          | 3          | 5          | 8          | 7          | 3         | 4         | 2         | 8         | 7         | 31           | 3          | -          | -          | -          | -          | -         | -         | 6         | -         | 3         | -         | -         | 2         | 1         | 3         |
| <b>62</b>  | <b>62</b>  | <b>57</b>  | <b>74</b>  | <b>67</b>  | <b>51</b> | <b>54</b> | <b>65</b> | <b>73</b> | <b>67</b> | <b>330</b>   | <b>21</b>  | <b>22</b>  | <b>21</b>  | <b>25</b>  | <b>18</b>  | <b>24</b> | <b>20</b> | <b>28</b> | <b>25</b> | <b>17</b> | <b>24</b> | <b>22</b> | <b>23</b> | <b>28</b> | <b>21</b> |
| 9          | 8          | 9          | 13         | 13         | 12        | 12        | 9         | 17        | 10        | 50           | 8          | 2          | 7          | 6          | 5          | 4         | 6         | 5         | 3         | 6         | 7         | 2         | 4         | 4         | 3         |
| 5          | 1          | 4          | 7          | 6          | 4         | 4         | 8         | 9         | 8         | 24           | -          | 4          | 1          | 1          | 1          | 1         | -         | -         | 1         | 1         | -         | 4         | 5         | 5         | 2         |
| -          | 1          | -          | -          | 2          | -         | 1         | -         | -         | -         | 5            | -          | 1          | -          | -          | -          | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| 8          | 13         | 9          | 11         | 12         | 5         | 7         | 9         | 15        | 13        | 53           | 1          | -          | 1          | 2          | -          | 4         | 1         | 4         | 2         | 2         | 2         | 3         | 3         | -         | 2         |
| 39         | 36         | 33         | 40         | 26         | 29        | 29        | 38        | 29        | 32        | 188          | 12         | 14         | 12         | 16         | 12         | 15        | 11        | 18        | 19        | 8         | 14        | 12        | 11        | 17        | 13        |
| 1          | 3          | 2          | 3          | 8          | 1         | 1         | 1         | 3         | 4         | 10           | -          | -          | -          | -          | -          | -         | -         | 1         | -         | -         | -         | -         | -         | -         | 1         |



# MORTALITY

Table M17. Selected Characteristics of Deaths Due to Fatal Occupational Injuries\*, New York City, 2021

|                                      | Selected event or exposure†‡ |   |                          |                      |                     |  |                                    |
|--------------------------------------|------------------------------|---|--------------------------|----------------------|---------------------|--|------------------------------------|
|                                      | All Deaths                   | Violence and other injuries by persons or animals | Transportation incidents | Fires and explosions | Falls, slips, trips | Exposure to harmful substances or environments | Contact with objects and equipment |
| <b>Total</b>                         | <b>70</b>                    | <b>17</b>   |                          |                      | <b>20</b>           | <b>21</b>                                      | <b>5</b>                           |
| <b>Selected Industries</b>           |                              |   |                          |                      |                     |  |                                    |
| Government (Federal, State, Local)§  | 5                            |   |                          |                      |                     |  |                                    |
| Private industry§                    | 65                           | 16  |                          |                      | 19                  | 19   | 5                                  |
| Goods producing                      |                              |   |                          |                      |                     |  |                                    |
| Construction                         | 22                           | 3   |                          |                      | 12                  | 6  |                                    |
| Manufacturing                        | 3                            |   |                          |                      |                     |  |                                    |
| Service providing                    |                              |   |                          |                      |                     |  |                                    |
| Trade, transportation, and utilities |                              | 6   |                          |                      |                     |  |                                    |
| Financial activities                 |                              |   |                          |                      |                     |  |                                    |
| Professional and business services   |                              |   |                          |                      | 3                   |  |                                    |
| Educational and health services      |                              |   |                          |                      |                     |  |                                    |
| Leisure and hospitality              | 3                            |   |                          |                      |                     |  |                                    |
| Other services, except public admin. | 6                            |   |                          |                      |                     |  |                                    |
| <b>Sex</b>                           |                              |   |                          |                      |                     |  |                                    |
| Female                               | 3                            |   |                          |                      |                     |  |                                    |
| Male                                 | 67                           |   |                          |                      | 20                  | 21   |                                    |
| <b>Race or ethnic origin  </b>       |                              |   |                          |                      |                     |  |                                    |
| Non-Hispanic/Latino White            | 30                           | 9   |                          |                      | 5                   | 13   |                                    |
| Non-Hispanic/Latino Black            |                              |   |                          |                      |                     |  |                                    |
| Hispanic/Latino                      | 24                           | 3   |                          |                      | 9                   |  |                                    |
| Asian                                | 9                            |   |                          |                      |                     |  |                                    |
| <b>Age Group</b>                     |                              |   |                          |                      |                     |  |                                    |
| <25 years                            |                              |   |                          |                      |                     |  |                                    |
| 25-34 years                          | 12                           |   |                          |                      | 4                   |  |                                    |
| 35-44 years                          | 15                           |   |                          |                      |                     | 7  |                                    |
| 45-54 years                          | 20                           | 7   |                          |                      | 5                   | 5  |                                    |
| 55-64 years                          | 16                           |   |                          |                      | 6                   | 4  |                                    |
| >65 years                            |                              |   |                          |                      |                     |  | 3                                  |

\*Source: Bureau of Labor Statistics: Fatal Occupational Injuries in New York City <https://www.bls.gov/iif/state-data/fatal-occupational-injuries-in-new-york-city-2021.htm>

†Based on the BLS Occupational Injury and Illness Classification System (OIICS) 2.01 implemented for 2011 data forward.

‡Totals for major categories may include subcategories not shown separately. Blank cells indicate no data reported, or data that do not meet publication criteria. CFOI fatality counts exclude illness-related deaths unless precipitated by an injury event.

§Includes all fatal occupational injuries meeting this ownership criterion across all specific years, regardless of industry classification system.

||Persons identified as Hispanic or Latino may be of any race. The race categories shown exclude data for Hispanic and Latino workers.

**Table M18. Deaths Due to Accidents, Overall and by Age and Sex, New York City, 2021**

| Type   | 0-4          |           | 5-9      |          | 10-14    |          | 15-19    |           | 20-24    |           | 25-34     |            | 35-44      |            | 45-54      |            | 55-64      |            | 65-74      |            | ≥75        |            |            |      |
|--|--------------|-----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|
|  | All Ages     | Male      | Fem.     | All Ages | Male     | Fem.     | All Ages | Male      | Fem.     | All Ages  | Male      | Fem.       | All Ages   | Male       | Fem.       | All Ages   | Male       | Fem.       | All Ages   | Male       | Fem.       | All Ages   | Male       | Fem. |
| <b>Total</b>   | <b>3,993</b> | <b>16</b> | <b>9</b> | <b>8</b> | <b>3</b> | <b>1</b> | <b>1</b> | <b>19</b> | <b>7</b> | <b>88</b> | <b>21</b> | <b>387</b> | <b>130</b> | <b>530</b> | <b>160</b> | <b>541</b> | <b>152</b> | <b>738</b> | <b>253</b> | <b>283</b> | <b>126</b> | <b>248</b> | <b>272</b> |      |
| Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist | 56           | -         | -        | 1        | -        | -        | 1        | 7         | 2        | 9         | -         | 13         | 3          | 8          | -          | 1          | 1          | 1          | -          | 3          | 3          | 2          | 1          |      |
| Injury to Pedestrians  | 167          | 1         | 3        | 1        | 1        | -        | -        | -         | -        | 5         | 2         | 16         | 3          | 22         | 6          | 18         | 4          | 14         | 10         | 16         | 18         | 14         | 13         |      |
| Collision with motor vehicle   | 142          | 1         | 3        | 1        | 1        | -        | -        | -         | -        | 5         | 2         | 9          | 3          | 14         | 4          | 16         | 4          | 12         | 9          | 14         | 17         | 14         | 13         |      |
| Collision with railway transportation                                      | 23           | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | 7          | 2          | 7          | 2          | 2          | -          | 2          | -          | 2          | 1          | -          | -          |      |
| Other collision  | 2            | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | -          | -          | 1          | -          | -          | -          | -          | -          | 1          | -          | -          | -          |      |
| Injury to Pedal Cyclist  | 20           | -         | -        | -        | -        | -        | 1        | 1         | 2        | 2         | 2         | 2          | 2          | 2          | -          | 1          | 5          | 1          | 5          | 1          | 5          | 1          | -          |      |
| Collision with motor vehicle   | 15           | -         | -        | -        | -        | -        | 1        | 1         | 2        | 2         | 2         | 2          | 2          | 2          | -          | 1          | 4          | 3          | 1          | 3          | 1          | -          | -          |      |
| Other collision  | 5            | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          |      |
| Injury to Motorcyclist   | 58           | -         | -        | -        | -        | -        | 1        | 1         | 4        | 1         | 19        | 1          | 17         | -          | 9          | 1          | 5          | 1          | 1          | 2          | -          | -          | -          |      |
| Water Transport Accidents  | 2            | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          |      |
| Air and Space Transport Accidents  | 0            | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          |      |
| Other Transport Accidents  | 25           | -         | -        | -        | -        | -        | 1        | 2         | 4        | 3         | 3         | 3          | 3          | 3          | -          | 3          | -          | 1          | -          | 1          | -          | -          | 1          |      |
| Sequelae (Late Effects) of Transport Accidents                             | 19           | -         | -        | -        | -        | -        | -        | -         | -        | -         | 2         | -          | 3          | -          | 1          | 1          | 5          | 2          | 4          | -          | 1          | -          | -          |      |
| Fall   | 603          | 3         | 1        | -        | -        | -        | -        | -         | 1        | 1         | 10        | 4          | 14         | 4          | 27         | 3          | 63         | 16         | 81         | 36         | 159        | 180        | -          |      |
| Firearm Discharge  | 0            | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          |      |
| Drowning and Submersion  | 21           | 4         | -        | 1        | 1        | -        | 1        | 1         | 1        | 1         | 4         | -          | 3          | -          | 2          | -          | -          | -          | -          | 1          | -          | 2          | -          |      |
| Smoke, Fire, and Flames  | 64           | -         | 2        | 5        | -        | -        | 1        | 1         | 1        | 1         | 1         | 1          | 6          | 1          | 2          | 2          | 6          | 1          | 7          | 4          | 9          | 14         | -          |      |
| Poisoning by Noxious Substances  | 2,693        | -         | -        | -        | -        | -        | 7        | 7         | 1        | 59        | 13        | 299        | 109        | 436        | 145        | 455        | 137        | 601        | 211        | 146        | 47         | 19         | 8          |      |
| Poisoning by psychoactive substances*                                      | 2,666        | -         | -        | -        | -        | -        | 7        | 7         | 1        | 59        | 13        | 294        | 108        | 432        | 143        | 451        | 136        | 598        | 211        | 144        | 47         | 17         | 5          |      |
| Poisoning by other noxious substances                                      | 27           | -         | -        | -        | -        | -        | -        | -         | -        | -         | 5         | 1          | 4          | 4          | 4          | 4          | 1          | 3          | -          | 2          | -          | 2          | 3          |      |
| Exposure to Excessive Natural Heat   | 4            | -         | -        | -        | -        | -        | -        | -         | -        | -         | -         | -          | -          | -          | -          | 1          | -          | 1          | -          | -          | -          | 1          | -          |      |
| Exposure to Excessive Natural Cold   | 34           | -         | -        | -        | -        | -        | -        | -         | -        | -         | 3         | -          | 5          | -          | 7          | -          | 8          | 2          | 2          | 2          | 1          | 3          | 3          |      |
| Suffocation  | 127          | 5         | 3        | -        | -        | -        | -        | -         | -        | -         | 8         | 3          | 2          | 8          | 2          | 8          | 2          | 10         | 6          | 9          | 11         | 29         | 31         |      |
| Contact with Machinery   | 4            | -         | -        | -        | -        | -        | -        | -         | -        | -         | 1         | -          | 1          | -          | 1          | -          | 1          | -          | -          | -          | -          | -          | -          |      |
| Other Nontransport Accidents   | 75           | 3         | -        | 1        | 1        | 1        | -        | -         | 2        | -         | 5         | 2          | 8          | 3          | 4          | 2          | 7          | 3          | 7          | 4          | 8          | 14         | -          |      |
| Sequelae (Late Effects) of Nontransport Accidents                          | 21           | -         | -        | -        | -        | -        | -        | -         | -        | -         | 1         | 1          | -          | 1          | 1          | -          | 9          | -          | 1          | 1          | 1          | 1          | 5          |      |

\*See Technical Notes: Deaths, Drug-Related Deaths.

# MORTALITY

**Table M19. Deaths Due to Intentional Self-harm (Suicide), Overall and by Age and Sex, New York City, 2021**

| Method                                     | All Ages   | 0-4      |          | 5-9      |          | 10-14    |          | 15-19     |          | 20-24     |          | 25-34     |           | 35-44     |           | 45-54     |           | 55-64     |           | 65-74     |           | ≥75       |           |
|--|------------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  |            | Male     | Fem.     | Male     | Fem.     | Male     | Fem.     | Male      | Fem.     | Male      | Fem.     | Male      | Fem.      | Male      | Fem.      | Male      | Fem.      | Male      | Fem.      | Male      | Fem.      | Male      | Fem.      |
|  |            |          |          |          |          |          |          |           |          |           |          |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>Total</b>                               | <b>563</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>3</b> | <b>4</b> | <b>12</b> | <b>2</b> | <b>35</b> | <b>9</b> | <b>94</b> | <b>30</b> | <b>63</b> | <b>28</b> | <b>78</b> | <b>19</b> | <b>64</b> | <b>21</b> | <b>40</b> | <b>18</b> | <b>31</b> | <b>12</b> |
| Poisoning by Drug and Medicinal Substances | 87         | -        | -        | -        | -        | -        | -        | 2         | -        | 8         | 5        | 11        | 7         | 3         | 8         | 15        | 4         | 9         | 3         | 3         | 5         | 2         | 2         |
| Poisoning by Other Substances              | 5          | -        | -        | -        | -        | -        | -        | -         | -        | -         | -        | 2         | -         | 1         | -         | 1         | 1         | -         | -         | -         | -         | -         | -         |
| Hanging, Strangulation, and Suffocation    | 198        | -        | -        | -        | -        | 1        | 4        | 5         | 1        | 8         | 1        | 36        | 15        | 27        | 8         | 13        | 7         | 30        | 8         | 14        | 9         | 9         | 2         |
| Drowning and Submersion                    | 30         | -        | -        | -        | -        | -        | -        | 2         | -        | 2         | -        | 5         | -         | 5         | 2         | 6         | 1         | 1         | -         | 3         | -         | -         | 3         |
| Firearm Discharge                          | 48         | -        | -        | -        | -        | -        | -        | -         | -        | 2         | -        | 8         | -         | 6         | -         | 12        | -         | 5         | 1         | 5         | -         | 9         | -         |
| Sharp Object                               | 22         | -        | -        | -        | -        | -        | -        | -         | -        | 2         | -        | 4         | -         | 2         | 1         | 2         | -         | 3         | -         | 3         | 1         | 3         | 1         |
| Blunt Object                               | 0          | -        | -        | -        | -        | -        | -        | -         | -        | -         | -        | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |
| Jumping From High Place                    | 120        | -        | -        | -        | -        | 2        | -        | 3         | 1        | 11        | 2        | 17        | 7         | 11        | 9         | 15        | 6         | 9         | 7         | 8         | 3         | 5         | 4         |
| Jumping or Lying Before Moving Object      | 43         | -        | -        | -        | -        | -        | -        | -         | -        | -         | 1        | 9         | 1         | 5         | -         | 12        | -         | 6         | 2         | 4         | -         | 3         | -         |
| Other and Unspecified Means                | 9          | -        | -        | -        | -        | -        | -        | -         | -        | 2         | -        | 2         | -         | 2         | -         | 2         | -         | 1         | -         | -         | -         | -         | -         |
| Sequelae (Late Effects)                    | 1          | -        | -        | -        | -        | -        | -        | -         | -        | -         | -        | -         | -         | 1         | -         | -         | -         | -         | -         | -         | -         | -         | -         |

**Table M20. Deaths Due to Assault (Homicide) and Legal Intervention, Overall and by Age and Sex, New York City, 2021**

| Method                                       | All Ages   | 0-4       |          | 5-9      |          | 10-14    |          | 15-19     |          | 20-24     |          | 25-34      |           | 35-44     |           | 45-54     |           | 55-64     |          | 65-74     |          | ≥75      |          |
|--|------------|-----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|
|  |            | Male      | Fem.     | Male     | Fem.     | Male     | Fem.     | Male      | Fem.     | Male      | Fem.     | Male       | Fem.      | Male      | Fem.      | Male      | Fem.      | Male      | Fem.     | Male      | Fem.     | Male     | Fem.     |
|  |            |           |          |          |          |          |          |           |          |           |          |            |           |           |           |           |           |           |          |           |          |          |          |
| <b>Total</b>                                 | <b>516</b> | <b>11</b> | <b>5</b> | <b>1</b> | <b>2</b> | <b>3</b> | <b>0</b> | <b>44</b> | <b>3</b> | <b>63</b> | <b>4</b> | <b>159</b> | <b>20</b> | <b>79</b> | <b>16</b> | <b>43</b> | <b>11</b> | <b>25</b> | <b>3</b> | <b>13</b> | <b>3</b> | <b>5</b> | <b>3</b> |
| Poisoning by Noxious Substances              | 8          | 2         | 2        | -        | -        | -        | -        | -         | 1        | -         | -        | -          | 1         | -         | -         | -         | 1         | -         | 1        | -         | -        | -        | -        |
| Hanging, Strangulation, and Suffocation      | 15         | -         | 1        | -        | -        | -        | -        | 1         | -        | -         | -        | 1          | 2         | -         | 2         | 4         | -         | -         | -        | -         | 1        | 1        | 2        |
| Drowning and Submersion                      | 2          | 2         | -        | -        | -        | -        | -        | -         | -        | -         | -        | -          | -         | -         | -         | -         | -         | -         | -        | -         | -        | -        | -        |
| Firearm Discharge                            | 337        | -         | -        | -        | -        | 2        | -        | 39        | 1        | 59        | 4        | 133        | 11        | 52        | 6         | 14        | 6         | 8         | -        | 1         | -        | 1        | -        |
| Smoke, Fire, and Flames                      | 1          | -         | -        | -        | -        | -        | -        | -         | -        | -         | -        | 1          | -         | -         | -         | -         | -         | -         | -        | -         | -        | -        | -        |
| Sharp Object                                 | 76         | -         | -        | -        | -        | -        | -        | 3         | -        | 3         | -        | 20         | 4         | 16        | 4         | 10        | 1         | 7         | -        | 6         | -        | 1        | 1        |
| Blunt Object                                 | 1          | -         | -        | -        | -        | -        | -        | -         | -        | -         | -        | -          | 1         | -         | -         | -         | -         | -         | -        | -         | -        | -        | -        |
| Pushing From High Place                      | 1          | -         | -        | -        | -        | -        | -        | -         | -        | -         | -        | -          | -         | -         | -         | 1         | -         | -         | -        | -         | -        | -        | -        |
| Bodily Force                                 | 2          | -         | -        | -        | -        | -        | -        | -         | -        | -         | -        | -          | -         | 2         | -         | -         | -         | -         | -        | -         | -        | -        | -        |
| Neglect, Abandonment, and Other Maltreatment | 6          | 2         | 1        | 1        | 1        | 1        | -        | -         | -        | -         | -        | -          | -         | -         | -         | -         | -         | -         | -        | -         | -        | -        | -        |
| Other and Unspecified Means                  | 49         | 5         | 1        | -        | 1        | -        | -        | 1         | 1        | -         | -        | 4          | 1         | 5         | 3         | 9         | 2         | 6         | 2        | 4         | 2        | 2        | -        |
| Sequelae (Late Effects)                      | 14         | -         | -        | -        | -        | -        | -        | -         | -        | -         | -        | -          | -         | 4         | 1         | 3         | 1         | 4         | -        | 1         | -        | -        | -        |
| Legal Intervention, All*                     | 4          | -         | -        | -        | -        | -        | -        | -         | -        | 1         | -        | -          | -         | -         | -         | 2         | -         | -         | -        | 1         | -        | -        | -        |

\*All four legal intervention deaths are from firearm discharge.



**Table M21. Deaths Due to Events of Undetermined Intent, Overall and by Age and Sex, New York City, 2021**

| Method                                  | 0-4       |          | 5-9      |          | 10-14    |          | 15-19    |          | 20-24    |          | 25-34     |          | 35-44     |           | 45-54     |          | 55-64     |          | 65-74     |          | ≥75       |          |
|---|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
|   | Ag        | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag        | Fem.     | Ag        | Fem.      | Ag        | Fem.     | Ag        | Fem.     | Ag        | Fem.     | Ag        | Fem.     |
| <b>All</b>                              | <b>10</b> | <b>9</b> | <b>1</b> | <b>0</b> | <b>1</b> | <b>1</b> | <b>5</b> | <b>0</b> | <b>7</b> | <b>1</b> | <b>30</b> | <b>6</b> | <b>45</b> | <b>13</b> | <b>26</b> | <b>7</b> | <b>39</b> | <b>5</b> | <b>17</b> | <b>3</b> | <b>10</b> | <b>7</b> |
| Poisoning by Noxious Substances         | 16        | -        | -        | -        | 1        | -        | -        | -        | -        | -        | 2         | 3        | 4         | -         | 2         | 1        | 1         | -        | -         | -        | -         | 1        |
| Hanging, Strangulation, and Suffocation | 0         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -         | -         | -        | -         | -        | -         | -        | -         | -        |
| Drowning and Submersion                 | 18        | -        | -        | -        | -        | -        | -        | -        | 2        | -        | 6         | -        | 5         | -         | 2         | -        | 2         | -        | 1         | -        | -         | -        |
| Firearm Discharge                       | 1         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -         | -         | -        | 1         | -        | -         | -        | -         | -        |
| Smoke, Fire, and Flames                 | 1         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -         | -         | -        | -         | -        | 1         | -        | -         | -        |
| Sharp or Blunt Object                   | 0         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -         | -         | -        | -         | -        | -         | -        | -         | -        |
| Falling From High Place                 | 9         | -        | -        | -        | -        | -        | -        | -        | 1        | -        | 3         | 1        | -         | 1         | 1         | -        | 1         | -        | -         | -        | -         | 1        |
| Other and Unspecified Means             | 196       | 10       | 8        | 1        | -        | 1        | 5        | -        | 4        | 1        | 19        | 2        | 36        | 12        | 21        | 6        | 33        | 5        | 15        | 3        | 9         | 5        |
| Sequelae (Late Effects)                 | 2         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -         | -         | -        | -         | -        | -         | -        | -         | -        |

**Table M22. Deaths Due to Complications of Medical and Surgical Care, Overall and by Age and Sex, New York City, 2021**

| Method   | 0-4       |          | 5-9      |          | 10-14    |          | 15-19    |          | 20-24    |          | 25-34    |          | 35-44    |          | 45-54    |          | 55-64     |          | 65-74     |          | ≥75      |           |
|--|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|----------|-----------|
|  | Ag        | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag        | Fem.     | Ag        | Fem.     | Ag       | Fem.      |
| <b>All</b>   | <b>78</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>5</b> | <b>13</b> | <b>5</b> | <b>11</b> | <b>9</b> | <b>4</b> | <b>10</b> |
| Adverse Effects From Drugs, Medicaments, and Biological Substances for Therapeutic Use | 9         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | 1        | -        | 1        | 1         | 1        | 1         | 2        | -        | 3         |
| Medical Misadventures to Patients During Surgical and Medical Care                     | 1         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | 1         | -        | -        | -         |
| Adverse Effects from Medical Devices for Therapeutic Use                               | 0         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -        | -        | -         |
| Other and Unspecified Means  | 67        | -        | -        | 1        | -        | -        | 2        | -        | 1        | -        | -        | 1        | -        | 2        | 4        | 12       | 4         | 9        | 7         | 3        | 10       | 15        |
| Sequelae (Late Effects)  | 1         | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -        | -         | -        | 1        | -         |

**Table M23. Deaths Due to Firearms (All Causes), Overall and by Age and Sex, New York City, 2021**

| Method                | 0-4        |          | 5-9      |          | 10-14    |          | 15-19     |          | 20-24     |          | 25-34      |           | 35-44     |          | 45-54     |          | 55-64     |          | 65-74    |          | ≥75       |          |
|-----------------------|------------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|------------|-----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|
|                       | Ag         | Fem.     | Ag       | Fem.     | Ag       | Fem.     | Ag        | Fem.     | Ag        | Fem.     | Ag         | Fem.      | Ag        | Fem.     | Ag        | Fem.     | Ag        | Fem.     | Ag       | Fem.     | Ag        | Fem.     |
| <b>All</b>            | <b>390</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>39</b> | <b>1</b> | <b>62</b> | <b>4</b> | <b>141</b> | <b>11</b> | <b>58</b> | <b>6</b> | <b>28</b> | <b>6</b> | <b>14</b> | <b>1</b> | <b>7</b> | <b>-</b> | <b>10</b> | <b>-</b> |
| Firearms (All Causes) | -          | -        | -        | -        | -        | -        | -         | -        | -         | -        | -          | -         | -         | -        | -         | -        | -         | -        | -        | -        | -         | -        |

# MORTALITY

Table M24. Life Expectancy at Specified Ages, Overall and by Sex and Racial/Ethnic Group, New York City, 2009-2011 and 2019-2021\*

| Exact Age in Years | All       |                 |                           |                           |       |                 |                           |                           |                             |  |
|--------------------|-----------|-----------------|---------------------------|---------------------------|-------|-----------------|---------------------------|---------------------------|-----------------------------|--|
|                    | 2009-2011 |                 |                           |                           |       | 2019-2021       |                           |                           |                             |  |
|                    | Total     | Hispanic/Latino | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Total | Hispanic/Latino | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Asian and Pacific Islander† |  |
| 0                  | 80.8      | 81.9            | 81.2                      | 76.9                      | 80.4  | 80.5            | 81.7                      | 75.8                      | 84.6                        |  |
| 1                  | 80.2      | 81.2            | 80.5                      | 76.6                      | 79.7  | 79.8            | 80.9                      | 75.4                      | 83.8                        |  |
| 5                  | 76.2      | 77.3            | 76.5                      | 72.7                      | 75.8  | 75.8            | 76.9                      | 71.5                      | 79.8                        |  |
| 10                 | 71.3      | 72.3            | 71.5                      | 67.8                      | 70.8  | 70.8            | 72.0                      | 66.6                      | 74.8                        |  |
| 15                 | 66.3      | 67.4            | 66.6                      | 62.8                      | 65.8  | 65.9            | 67.0                      | 61.6                      | 69.9                        |  |
| 20                 | 61.5      | 62.5            | 61.7                      | 58.0                      | 60.9  | 60.9            | 62.1                      | 56.8                      | 65.0                        |  |
| 25                 | 56.6      | 57.6            | 56.8                      | 53.3                      | 56.1  | 56.1            | 57.2                      | 52.1                      | 60.1                        |  |
| 30                 | 51.8      | 52.8            | 51.9                      | 48.6                      | 51.3  | 51.4            | 52.4                      | 47.4                      | 55.2                        |  |
| 35                 | 47.0      | 48.0            | 47.0                      | 43.9                      | 46.6  | 46.6            | 47.6                      | 42.8                      | 50.4                        |  |
| 40                 | 42.2      | 43.2            | 42.2                      | 39.3                      | 41.9  | 42.0            | 42.8                      | 38.3                      | 45.5                        |  |
| 45                 | 37.6      | 38.6            | 37.5                      | 34.9                      | 37.3  | 37.5            | 38.1                      | 33.9                      | 40.7                        |  |
| 50                 | 33.1      | 34.1            | 33.0                      | 30.7                      | 32.8  | 33.1            | 33.5                      | 29.6                      | 36.0                        |  |
| 55                 | 28.8      | 29.8            | 28.7                      | 26.6                      | 28.5  | 28.8            | 29.1                      | 25.7                      | 31.5                        |  |
| 60                 | 24.7      | 25.6            | 24.5                      | 22.9                      | 24.5  | 24.7            | 24.9                      | 22.0                      | 27.0                        |  |
| 65                 | 20.7      | 21.6            | 20.5                      | 19.3                      | 20.6  | 20.9            | 20.9                      | 18.7                      | 22.8                        |  |
| 70                 | 17.0      | 17.8            | 16.7                      | 16.0                      | 17.0  | 17.2            | 17.1                      | 15.5                      | 18.7                        |  |
| 75                 | 13.4      | 14.3            | 13.1                      | 12.9                      | 13.5  | 13.7            | 13.5                      | 12.6                      | 14.8                        |  |
| 80                 | 10.3      | 11.0            | 10.0                      | 10.1                      | 10.4  | 10.6            | 10.2                      | 9.9                       | 11.4                        |  |
| 85                 | 7.5       | 8.1             | 7.1                       | 7.6                       | 7.6   | 7.9             | 7.3                       | 7.5                       | 8.3                         |  |

| Exact Age in Years | Male      |                 |                           |                           |       |                 |                           |                           |                             |  |
|--------------------|-----------|-----------------|---------------------------|---------------------------|-------|-----------------|---------------------------|---------------------------|-----------------------------|--|
|                    | 2009-2011 |                 |                           |                           |       | 2019-2021       |                           |                           |                             |  |
|                    | Total     | Hispanic/Latino | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Total | Hispanic/Latino | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Asian and Pacific Islander† |  |
| 0                  | 78.1      | 78.6            | 78.8                      | 73.3                      | 77.3  | 76.8            | 79.0                      | 71.9                      | 81.9                        |  |
| 1                  | 77.5      | 77.9            | 78.1                      | 73.0                      | 76.6  | 76.1            | 78.3                      | 71.6                      | 81.1                        |  |
| 5                  | 73.5      | 74.0            | 74.1                      | 69.1                      | 72.7  | 72.1            | 74.3                      | 67.7                      | 77.1                        |  |
| 10                 | 68.6      | 69.0            | 69.2                      | 64.2                      | 67.7  | 67.1            | 69.4                      | 62.8                      | 72.2                        |  |
| 15                 | 63.6      | 64.1            | 64.2                      | 59.2                      | 62.7  | 62.2            | 64.4                      | 57.8                      | 67.2                        |  |
| 20                 | 58.8      | 59.2            | 59.4                      | 54.5                      | 57.9  | 57.3            | 59.5                      | 53.0                      | 62.3                        |  |
| 25                 | 54.0      | 54.4            | 54.6                      | 49.9                      | 53.2  | 52.5            | 54.7                      | 48.5                      | 57.5                        |  |
| 30                 | 49.2      | 49.6            | 49.7                      | 45.4                      | 48.4  | 47.9            | 49.9                      | 43.9                      | 52.7                        |  |
| 35                 | 44.5      | 44.9            | 44.9                      | 40.8                      | 43.8  | 43.3            | 45.2                      | 39.4                      | 47.9                        |  |
| 40                 | 39.8      | 40.2            | 40.1                      | 36.3                      | 39.2  | 38.8            | 40.5                      | 35.1                      | 43.1                        |  |
| 45                 | 35.2      | 35.7            | 35.4                      | 32.0                      | 34.8  | 34.4            | 35.9                      | 30.8                      | 38.4                        |  |
| 50                 | 30.8      | 31.3            | 31.0                      | 27.9                      | 30.4  | 30.2            | 31.4                      | 26.7                      | 33.8                        |  |
| 55                 | 26.7      | 27.2            | 26.8                      | 24.0                      | 26.3  | 26.1            | 27.1                      | 23.0                      | 29.3                        |  |
| 60                 | 22.7      | 23.2            | 22.8                      | 20.5                      | 22.4  | 22.4            | 23.1                      | 19.6                      | 25.0                        |  |
| 65                 | 19.0      | 19.5            | 19.0                      | 17.2                      | 18.8  | 18.8            | 19.3                      | 16.5                      | 21.0                        |  |
| 70                 | 15.5      | 16.1            | 15.3                      | 14.2                      | 15.4  | 15.4            | 15.7                      | 13.6                      | 17.2                        |  |
| 75                 | 12.2      | 13.0            | 12.0                      | 11.4                      | 12.3  | 12.3            | 12.3                      | 11.0                      | 13.5                        |  |
| 80                 | 9.3       | 10.1            | 9.0                       | 9.0                       | 9.4   | 9.6             | 9.3                       | 8.8                       | 10.4                        |  |
| 85                 | 6.8       | 7.5             | 6.5                       | 6.9                       | 6.9   | 7.3             | 6.7                       | 6.8                       | 7.7                         |  |

| Exact Age in Years | Female    |                 |                           |                           |       |                 |                           |                           |                             |  |
|--------------------|-----------|-----------------|---------------------------|---------------------------|-------|-----------------|---------------------------|---------------------------|-----------------------------|--|
|                    | 2009-2011 |                 |                           |                           |       | 2019-2021       |                           |                           |                             |  |
|                    | Total     | Hispanic/Latino | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Total | Hispanic/Latino | Non-Hispanic/Latino White | Non-Hispanic/Latino Black | Asian and Pacific Islander† |  |
| 0                  | 83.2      | 84.7            | 83.4                      | 79.8                      | 83.3  | 83.9            | 84.3                      | 79.2                      | 87.2                        |  |
| 1                  | 82.5      | 84.0            | 82.6                      | 79.4                      | 82.6  | 83.2            | 83.5                      | 78.7                      | 86.3                        |  |
| 5                  | 78.6      | 80.0            | 78.7                      | 75.5                      | 78.6  | 79.2            | 79.5                      | 74.8                      | 82.4                        |  |
| 10                 | 73.6      | 75.0            | 73.7                      | 70.6                      | 73.7  | 74.2            | 74.6                      | 69.8                      | 77.4                        |  |
| 15                 | 68.7      | 70.1            | 68.7                      | 65.6                      | 68.7  | 69.3            | 69.6                      | 64.9                      | 72.4                        |  |
| 20                 | 63.7      | 65.1            | 63.8                      | 60.7                      | 63.8  | 64.3            | 64.6                      | 59.9                      | 67.5                        |  |
| 25                 | 58.8      | 60.2            | 58.9                      | 55.8                      | 58.9  | 59.4            | 59.7                      | 55.1                      | 62.5                        |  |
| 30                 | 53.9      | 55.3            | 53.9                      | 51.0                      | 54.0  | 54.5            | 54.8                      | 50.3                      | 57.6                        |  |
| 35                 | 49.0      | 50.4            | 49.0                      | 46.2                      | 49.1  | 49.7            | 49.9                      | 45.5                      | 52.7                        |  |
| 40                 | 44.2      | 45.6            | 44.1                      | 41.5                      | 44.3  | 44.9            | 45.1                      | 40.9                      | 47.8                        |  |
| 45                 | 39.5      | 40.8            | 39.4                      | 37.0                      | 39.6  | 40.2            | 40.3                      | 36.3                      | 42.9                        |  |
| 50                 | 34.9      | 36.2            | 34.8                      | 32.7                      | 35.0  | 35.5            | 35.6                      | 31.9                      | 38.2                        |  |
| 55                 | 30.5      | 31.7            | 30.3                      | 28.5                      | 30.5  | 31.0            | 31.0                      | 27.8                      | 33.5                        |  |
| 60                 | 26.1      | 27.3            | 25.9                      | 24.5                      | 26.2  | 26.6            | 26.6                      | 23.8                      | 28.9                        |  |
| 65                 | 21.9      | 23.0            | 21.6                      | 20.7                      | 22.1  | 22.4            | 22.4                      | 20.2                      | 24.4                        |  |
| 70                 | 18.0      | 18.9            | 17.7                      | 17.1                      | 18.2  | 18.4            | 18.3                      | 16.8                      | 20.1                        |  |
| 75                 | 14.2      | 15.1            | 13.9                      | 13.7                      | 14.4  | 14.7            | 14.4                      | 13.5                      | 16.0                        |  |
| 80                 | 10.8      | 11.5            | 10.5                      | 10.6                      | 11.0  | 11.2            | 10.9                      | 10.5                      | 12.1                        |  |
| 85                 | 7.8       | 8.4             | 7.5                       | 7.8                       | 8.0   | 8.1             | 7.7                       | 7.9                       | 8.7                         |  |

Note: Three-year average death data are used to estimate above decennial life expectancy to smooth the outcome. See Technical Notes: Life Expectancy.  
 \* US Census population data for 2010 are used to calculate 2009-2011 life expectancy. Population estimates for 2019-2021 are used to calculate 2019-2021 life expectancy. See Technical Notes: Population.  
 † For the first time, life expectancy is calculated for Asians and Pacific Islanders by 2019-2021 combined data.

# MORTALITY

Table M25. Life Expectancy at Specified Ages, Overall and by Sex, New York City, 2012 - 2021

| Exact Age<br>in Years | Total  |      |      |      |      |      |      |      |      |      |
|-----------------------|--------|------|------|------|------|------|------|------|------|------|
|                       | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| 0                     | 81.4   | 81.5 | 81.8 | 81.9 | 82.0 | 82.2 | 82.4 | 82.6 | 78.0 | 80.7 |
| 1                     | 80.8   | 80.8 | 81.2 | 81.2 | 81.3 | 81.6 | 81.7 | 81.9 | 77.3 | 80.0 |
| 5                     | 76.8   | 76.9 | 77.2 | 77.3 | 77.4 | 77.6 | 77.7 | 78.0 | 73.3 | 76.1 |
| 10                    | 71.9   | 71.9 | 72.3 | 72.3 | 72.4 | 72.7 | 72.8 | 73.0 | 68.3 | 71.1 |
| 15                    | 66.9   | 67.0 | 67.3 | 67.4 | 67.4 | 67.7 | 67.8 | 68.0 | 63.4 | 66.2 |
| 20                    | 62.0   | 62.1 | 62.4 | 62.4 | 62.5 | 62.8 | 62.9 | 63.1 | 58.5 | 61.3 |
| 25                    | 57.2   | 57.2 | 57.6 | 57.6 | 57.7 | 57.9 | 58.0 | 58.3 | 53.7 | 56.5 |
| 30                    | 52.3   | 52.4 | 52.7 | 52.8 | 52.9 | 53.1 | 53.2 | 53.5 | 48.9 | 51.7 |
| 35                    | 47.5   | 47.6 | 47.9 | 48.0 | 48.1 | 48.3 | 48.4 | 48.7 | 44.1 | 47.0 |
| 40                    | 42.7   | 42.8 | 43.1 | 43.2 | 43.3 | 43.6 | 43.6 | 43.9 | 39.5 | 42.3 |
| 45                    | 38.1   | 38.1 | 38.4 | 38.5 | 38.7 | 38.9 | 38.9 | 39.2 | 35.0 | 37.8 |
| 50                    | 33.6   | 33.6 | 33.9 | 34.0 | 34.1 | 34.3 | 34.4 | 34.6 | 30.6 | 33.3 |
| 55                    | 29.2   | 29.2 | 29.5 | 29.6 | 29.8 | 29.9 | 30.0 | 30.2 | 26.4 | 29.0 |
| 60                    | 25.1   | 25.1 | 25.4 | 25.4 | 25.6 | 25.7 | 25.8 | 26.0 | 22.4 | 25.0 |
| 65                    | 21.1   | 21.1 | 21.4 | 21.4 | 21.6 | 21.7 | 21.7 | 22.0 | 18.7 | 21.1 |
| 70                    | 17.3   | 17.3 | 17.6 | 17.6 | 17.8 | 17.9 | 17.9 | 18.1 | 15.3 | 17.4 |
| 75                    | 13.7   | 13.7 | 13.9 | 13.9 | 14.1 | 14.2 | 14.2 | 14.4 | 12.0 | 13.9 |
| 80                    | 10.5   | 10.5 | 10.6 | 10.6 | 10.8 | 10.8 | 10.8 | 11.0 | 9.2  | 10.8 |
| 85                    | 7.5    | 7.5  | 7.6  | 7.6  | 7.7  | 7.8  | 7.8  | 8.0  | 6.7  | 7.9  |
| Exact Age<br>in Years | Male   |      |      |      |      |      |      |      |      |      |
|                       | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| 0                     | 78.8   | 78.9 | 79.2 | 79.4 | 79.5 | 79.7 | 79.9 | 80.0 | 74.5 | 77.8 |
| 1                     | 78.2   | 78.2 | 78.6 | 78.8 | 78.8 | 79.0 | 79.2 | 79.3 | 73.8 | 77.1 |
| 5                     | 74.2   | 74.3 | 74.6 | 74.8 | 74.8 | 75.1 | 75.3 | 75.4 | 69.8 | 73.2 |
| 10                    | 69.3   | 69.3 | 69.7 | 69.9 | 69.9 | 70.1 | 70.3 | 70.4 | 64.9 | 68.2 |
| 15                    | 64.3   | 64.4 | 64.7 | 64.9 | 64.9 | 65.2 | 65.4 | 65.5 | 59.9 | 63.2 |
| 20                    | 59.4   | 59.5 | 59.8 | 60.0 | 60.0 | 60.3 | 60.5 | 60.6 | 55.0 | 58.4 |
| 25                    | 54.7   | 54.7 | 55.1 | 55.3 | 55.3 | 55.5 | 55.7 | 55.8 | 50.4 | 53.7 |
| 30                    | 49.9   | 50.0 | 50.3 | 50.5 | 50.5 | 50.8 | 50.9 | 51.0 | 45.7 | 49.0 |
| 35                    | 45.2   | 45.2 | 45.5 | 45.7 | 45.8 | 46.0 | 46.2 | 46.3 | 41.0 | 44.4 |
| 40                    | 40.5   | 40.5 | 40.8 | 41.0 | 41.1 | 41.4 | 41.5 | 41.6 | 36.5 | 39.8 |
| 45                    | 35.8   | 35.8 | 36.2 | 36.4 | 36.5 | 36.7 | 36.9 | 37.1 | 32.1 | 35.4 |
| 50                    | 31.4   | 31.4 | 31.8 | 31.9 | 32.0 | 32.3 | 32.4 | 32.5 | 27.9 | 31.1 |
| 55                    | 27.2   | 27.2 | 27.6 | 27.7 | 27.8 | 28.0 | 28.1 | 28.3 | 23.9 | 27.0 |
| 60                    | 23.3   | 23.2 | 23.6 | 23.7 | 23.8 | 24.0 | 24.1 | 24.2 | 20.2 | 23.1 |
| 65                    | 19.5   | 19.4 | 19.8 | 19.8 | 20.0 | 20.2 | 20.3 | 20.4 | 16.7 | 19.5 |
| 70                    | 16.0   | 15.9 | 16.3 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 13.5 | 16.1 |
| 75                    | 12.6   | 12.5 | 12.8 | 12.8 | 12.9 | 13.0 | 13.1 | 13.3 | 10.6 | 12.8 |
| 80                    | 9.5    | 9.6  | 9.7  | 9.8  | 9.9  | 9.9  | 9.9  | 10.1 | 8.1  | 9.9  |
| 85                    | 6.9    | 6.9  | 6.9  | 7.0  | 7.0  | 7.1  | 7.1  | 7.3  | 6.0  | 7.2  |
| Exact Age<br>in Years | Female |      |      |      |      |      |      |      |      |      |
|                       | 2012   | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| 0                     | 83.6   | 83.8 | 84.1 | 84.1 | 84.2 | 84.5 | 84.5 | 84.9 | 81.4 | 83.5 |
| 1                     | 83.0   | 83.1 | 83.4 | 83.4 | 83.6 | 83.8 | 83.8 | 84.2 | 80.7 | 82.8 |
| 5                     | 79.0   | 79.1 | 79.4 | 79.4 | 79.6 | 79.9 | 79.8 | 80.2 | 76.7 | 78.8 |
| 10                    | 74.1   | 74.2 | 74.5 | 74.5 | 74.6 | 74.9 | 74.9 | 75.3 | 71.7 | 73.9 |
| 15                    | 69.1   | 69.2 | 69.5 | 69.5 | 69.7 | 69.9 | 69.9 | 70.3 | 66.8 | 68.9 |
| 20                    | 64.2   | 64.3 | 64.6 | 64.5 | 64.7 | 65.0 | 65.0 | 65.4 | 61.8 | 63.9 |
| 25                    | 59.3   | 59.4 | 59.7 | 59.7 | 59.8 | 60.0 | 60.1 | 60.5 | 56.9 | 59.0 |
| 30                    | 54.4   | 54.5 | 54.8 | 54.7 | 54.9 | 55.1 | 55.1 | 55.6 | 52.0 | 54.1 |
| 35                    | 49.5   | 49.6 | 49.9 | 49.9 | 50.1 | 50.3 | 50.3 | 50.7 | 47.2 | 49.3 |
| 40                    | 44.6   | 44.7 | 45.0 | 45.0 | 45.2 | 45.4 | 45.4 | 45.9 | 42.4 | 44.6 |
| 45                    | 39.9   | 40.0 | 40.3 | 40.3 | 40.5 | 40.6 | 40.7 | 41.1 | 37.7 | 39.8 |
| 50                    | 35.3   | 35.3 | 35.6 | 35.7 | 35.8 | 36.0 | 36.0 | 36.4 | 33.1 | 35.2 |
| 55                    | 30.8   | 30.9 | 31.1 | 31.2 | 31.4 | 31.5 | 31.5 | 31.9 | 28.7 | 30.8 |
| 60                    | 26.5   | 26.5 | 26.8 | 26.8 | 27.0 | 27.1 | 27.1 | 27.4 | 24.5 | 26.5 |
| 65                    | 22.3   | 22.4 | 22.6 | 22.6 | 22.8 | 22.9 | 22.9 | 23.2 | 20.5 | 22.4 |
| 70                    | 18.3   | 18.3 | 18.5 | 18.6 | 18.8 | 18.8 | 18.8 | 19.1 | 16.7 | 18.4 |
| 75                    | 14.5   | 14.5 | 14.7 | 14.7 | 14.9 | 15.0 | 14.9 | 15.2 | 13.1 | 14.7 |
| 80                    | 11.1   | 11.0 | 11.2 | 11.2 | 11.4 | 11.4 | 11.4 | 11.6 | 9.9  | 11.3 |
| 85                    | 7.9    | 7.8  | 7.9  | 7.9  | 8.1  | 8.1  | 8.1  | 8.3  | 7.1  | 8.2  |

Note: Population data from 2020 are based on 2020 Census counts. Citywide population estimates for 2012-2019 are from "2021 County and Economic Development Regions Population Estimates" by the Cornell Jeb E. Brooks School of Public Policy. Population estimates for 2021 are from the Census Bureau, 2022 Vintage. Single year of age population estimates by demographics for 2012-2019 and 2021 were compiled by the DOHMH, Bureau of Epidemiology Services. See Technical Notes: Population.

**Table M26. Years of Potential Life Lost (YPLL)\* Before Age 75, Overall and by Sex and Selected Causes of Death, New York City, 2021**

| Cause of Death   | All            |              | Male           |              | Female         |              |
|--|----------------|--------------|----------------|--------------|----------------|--------------|
|  | YPLL           | %            | YPLL           | %            | YPLL           | %            |
| <b>Total</b>   | <b>527,368</b> | <b>100.0</b> | <b>338,107</b> | <b>100.0</b> | <b>189,261</b> | <b>100.0</b> |
| Malignant Neoplasms                                    | 88,689         | 15.7         | 43,404         | 12.1         | 45,285         | 22.1         |
| Trachea, bronchus, and lung                            | 12,649         | 2.2          | 7,069          | 2.0          | 5,580          | 2.7          |
| Breast   | 9,237          | 1.6          | 56             | 0.0          | 9,181          | 4.5          |
| Colon, rectum, and anus                                | 9,149          | 1.6          | 5,287          | 1.5          | 3,862          | 1.9          |
| Pancreas   | 6,603          | 1.2          | 3,794          | 1.1          | 2,809          | 1.4          |
| Liver & intrahepatic bile ducts                        | 4,714          | 0.8          | 3,350          | 0.9          | 1,364          | 0.7          |
| Heart Disease  | 79,522         | 14.1         | 54,663         | 15.2         | 24,859         | 12.1         |
| Use of or Poisoning by Psychoactive Substance          | 73,577         | 13.1         | 55,257         | 15.4         | 18,320         | 8.9          |
| COVID-19   | 53,047         | 9.4          | 32,883         | 9.2          | 20,164         | 9.8          |
| Accidents Except Poisoning by Psychoactive Substance   | 21,530         | 3.8          | 16,809         | 4.7          | 4,721          | 2.3          |
| Motor vehicle  | 8,714          | 1.5          | 6,849          | 1.9          | 1,865          | 0.9          |
| Assault (Homicide)                                     | 21,300         | 3.8          | 18,550         | 5.2          | 2,750          | 1.3          |
| Intentional Self-harm (Suicide)                        | 16,641         | 3.0          | 12,526         | 3.5          | 4,115          | 2.0          |
| Diabetes Mellitus                                      | 12,300         | 2.2          | 8,113          | 2.3          | 4,187          | 2.0          |
| Chronic Liver Disease and Cirrhosis                    | 10,738         | 1.9          | 7,712          | 2.2          | 3,026          | 1.5          |
| Cerebrovascular Diseases                               | 10,010         | 1.8          | 5,514          | 1.5          | 4,496          | 2.2          |
| Mental and Behavioral Disorders Due to Use of Alcohol  | 8,531          | 1.5          | 6,831          | 1.9          | 1,700          | 0.8          |
| Influenza and Pneumonia                                | 7,394          | 1.3          | 4,412          | 1.2          | 2,982          | 1.5          |
| Chronic Lower Respiratory Diseases                     | 6,862          | 1.2          | 3,399          | 0.9          | 3,463          | 1.7          |
| HIV Disease  | 5,866          | 1.0          | 4,139          | 1.2          | 1,727          | 0.8          |
| Essential Hypertension and Hypertensive Renal Diseases | 4,950          | 0.9          | 2,759          | 0.8          | 2,191          | 1.1          |
| All Other Causes                                       | 106,411        | 18.9         | 61,136         | 17.1         | 45,275         | 22.1         |

\*See Technical Notes: Deaths, Years of Potential Life Lost for detailed calculation.

**Table M27. Death Rates by Poverty Level Indicator, New York City, 2012 and 2021**

| Age-adjusted Death Rates                               | Low (<10%) |       |                     | Medium (10 to <20%) |       |                     | High (20 to <30%) |       |                     | Very High (≥30%) |       |                     |
|--|------------|-------|---------------------|---------------------|-------|---------------------|-------------------|-------|---------------------|------------------|-------|---------------------|
|  | 2021       | 2012  | Change 2012 to 2021 | 2021                | 2012  | Change 2012 to 2021 | 2021              | 2012  | Change 2012 to 2021 | 2021             | 2012  | Change 2012 to 2021 |
| All Causes   | 467.6      | 453.1 | 3.2%                | 539.9               | 535.5 | 0.8%                | 625.5             | 617.7 | 1.3%                | 794.7            | 682.7 | 16.4%               |
| Premature Deaths                                       | 139.2      | 119.7 | 16.3%               | 181.0               | 157.3 | 15.1%               | 245.1             | 196.6 | 24.7%               | 366.4            | 251.1 | 45.9%               |
| <b>10 Leading Causes</b>                               |            |       |                     |                     |       |                     |                   |       |                     |                  |       |                     |
| Diseases of Heart                                      | 130.2      | 150.3 | -13.4%              | 142.9               | 179.5 | -20.4%              | 157.4             | 202.3 | -22.2%              | 188.9            | 198.8 | -5.0%               |
| Malignant Neoplasms                                    | 90.2       | 123.2 | -26.8%              | 94.5                | 132.8 | -28.8%              | 104.8             | 148.6 | -29.5%              | 119.2            | 159.8 | -25.4%              |
| COVID-19   | 53.9       |       |                     | 74.5                |       |                     | 88.0              |       |                     | 110.0            |       |                     |
| Use of or Poisoning by Psychoactive Substances         | 14.4       | 6.6   | 118.2%              | 20.7                | 6.6   | 213.6%              | 34.8              | 8.9   | 291.0%              | 59.5             | 13.1  | 354.2%              |
| Cerebrovascular Diseases                               | 14.9       | 12.8  | 16.4%               | 19.0                | 18.4  | 3.3%                | 21.6              | 19.7  | 9.6%                | 24.6             | 21.5  | 14.4%               |
| Diabetes Mellitus                                      | 11.4       | 11.5  | -0.9%               | 15.2                | 18.5  | -17.8%              | 18.8              | 23.9  | -21.3%              | 25.2             | 33.6  | -25.0%              |
| Influenza and Pneumonia                                | 9.8        | 18.3  | -46.4%              | 14.6                | 23.5  | -37.9%              | 16.5              | 29.0  | -43.1%              | 23.3             | 32.0  | -27.2%              |
| Chronic Lower Respiratory Diseases                     | 10.6       | 14.9  | -28.9%              | 11.3                | 17.3  | -34.7%              | 13.3              | 20.9  | -36.4%              | 18.4             | 22.7  | -18.9%              |
| Accidents Except Drug Poisoning                        | 10.4       | 9.1   | 14.3%               | 10.9                | 11.8  | -7.6%               | 12.4              | 10.3  | 20.4%               | 17.3             | 11.5  | 50.4%               |
| Essential Hypertension and Hypertensive Renal Diseases | 9.2        | 7.5   | 22.7%               | 11.6                | 10.0  | 16.0%               | 13.5              | 13.0  | 3.8%                | 14.9             | 14.0  | 6.4%                |

Note: The 2012 poverty level is based on the 2008-2012 US Census Bureau American Community Survey, and the 2021 poverty level is based on the 2016-2020 US Census Bureau American Community Survey.

Table M28. Leading Causes of Death, New York City, 2012, 2020 and 2021

| Cause  | 2021 |                  | 2020 |                  |                    | 2012 |                  |                    |
|--|------|------------------|------|------------------|--------------------|------|------------------|--------------------|
|  | Rank | Crude Death Rate | Rank | Crude Death Rate | Change to 2021 (%) | Rank | Crude Death Rate | Change to 2021 (%) |
| Diseases of Heart*                             | 1    | 195.7            | 1    | 241.5            | -19.0%             | 1    | 200.5            | -2.4%              |
| Malignant Neoplasms                            | 2    | 136.7            | 3    | 132.6            | 3.1%               | 2    | 160.6            | -14.9%             |
| COVID-19                                       | 3    | 97.2             | 2    | 241.3            | -59.7%             |      |                  |                    |
| Use of or Poisoning by Psychoactive Substance† | 4    | 32.4             | 6    | 24.7             | 31.2%              | 9    | 9.7              | 234.0%             |
| Cerebrovascular Diseases                       | 5    | 25.4             | 5    | 24.9             | 2.0%               | 6    | 19.7             | 28.9%              |
| Diabetes Mellitus                              | 6    | 20.2             | 4    | 25.2             | -19.8%             | 4    | 21.7             | -6.9%              |
| Influenza and Pneumonia                        | 7    | 19.2             | 7    | 23.3             | -17.6%             | 3    | 26.9             | -28.6%             |
| Chronic Lower Respiratory Diseases             | 8    | 16.3             | 8    | 19.7             | -17.3%             | 5    | 19.8             | -17.7%             |
| Accidents Except Drug Poisoning                | 9    | 15.7             | 11   | 12.2             | 28.7%              | 7    | 12.4             | 26.6%              |
| Essential Hypertension and Renal Diseases      | 10   | 15.2             | 9    | 18.1             | -16.0%             | 8    | 11.7             | 29.9%              |

\*See the 2010 Summary of Vital Statistics: Mortality – Special Section: Cause of Death Quality Improvement Initiative for information on trends in cause of death reporting, particularly for heart disease.

†Appendix B Technical Notes: Drug-Related Deaths.

# TECHNICAL NOTES

## Annual Summary of Vital Statistics and HealthyNYC:

The Bureau of Vital Statistics provides data for the HealthyNYC Campaign for Healthier, Longer Lives, which focuses on seven drivers of decreased life expectancy and mortality disparities among NYC residents: COVID-19, heart and diabetes-related diseases, screenable cancers, drug overdose, homicide, suicide, and pregnancy-associated deaths among non-Hispanic/Latino Black people. Counts and rates presented in HealthyNYC materials will not match those in the Annual Summary for a few reasons. The HealthyNYC numbers are among NYC residents only, while the Annual Summary is based on all events that occur in NYC. Moreover, classification for some causes of death may differ, as the Annual Summary uses standard classifications for leading causes, while HealthyNYC classifications were defined by ICD-10 codes as specified by subject matter experts at NYC DOHMH. Link to HealthyNYC: <https://www.nyc.gov/site/doh/about/about-doh/healthynyc.page>

## POPULATION

The 2021 NYC population data used in the tables and figures are based on the US Census Bureau 2021 Census population estimates as extracted from the Census Bureau website (<https://www.census.gov/data/datasets/time-series/demo/popest/2020s-counties-detail.html>). The 2021 US Census population estimate for New York City (NYC) is 8,467,513. See Table PC2 for the 2021 NYC population by age, mutually exclusive race and Hispanic/Latino origin, and sex. Population data used to compute rate trends (2012-2021) were estimated by DOHMH, Epidemiology Services, using the methodology found below under Community District Population Estimates. Citywide population estimates for 2011-2019 are from “2021 County and Economic Development Regions Population Estimates” by the Cornell Jeb E. Brooks School of Public Policy.

## RACE/ETHNICITY CATEGORIES

According to the definition of race categories used in the 2010 Census, “White” refers to a person having origins in any of the original peoples of Europe, the Middle East, or North Africa. It includes people who indicated their race(s) as “White” or reported entries such as Irish, German, Italian, Lebanese, Arab, Moroccan, or Caucasian. “Black or African American” refers to a person having origins in any of the Black racial groups of Africa or South America. It includes people who indicated their race(s) as “Black, African American, or Negro”. “American Indian or Alaska Native” refers to a person having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment. This category includes people who indicated their race(s) as “American Indian or Alaska Native” or reported their enrolled or principal tribe. “Asian” refers to a person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. It includes people who indicated their race(s) as “Asian” or reported entries such as “Asian Indian,” “Chinese,” “Filipino,” “Korean,” “Japanese,” “Vietnamese,” and “Other Asian” or provided other detailed Asian responses. “Native Hawaiian or Other Pacific Islander” refers to a person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands. It includes people who indicated their race(s) as “Pacific Islander” or reported entries such as “Native Hawaiian,” “Guamanian or Chamorro,” “Samoan,” and “Other Pacific Islander” or provided other detailed Pacific Islander responses. “Some Other Race” includes all other responses not included in the White, Black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or Other Pacific Islander race categories described above. Respondents reporting entries such as multiracial, mixed, interracial, or a Hispanic or Latino group (for example, Mexican, Puerto Rican, Cuban, or Spanish) in response to the race question are included in this category.

Hispanics or Latinos are those people who classified themselves in one of the specific Spanish, Hispanic, or Latino categories listed on the Census 2020 questionnaire -“Mexican,” “Puerto Rican,” or “Cuban”-as well as those who indicate that they are “another Hispanic, Latino, or Spanish origin.” People who do not identify with one of the specific origins listed on the questionnaire but indicate that they are “another Hispanic, Latino, or Spanish origin” are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic. The terms “Hispanic,” “Latino,” and “Spanish” are used interchangeably.

# TECHNICAL NOTES

Origin can be viewed as the heritage, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States.

People who identify their origin as Spanish, Hispanic, or Latino may be of any race. Thus, the percent Hispanic/Latino should not be added to percentages for racial categories.

## COMMUNITY DISTRICT POPULATION ESTIMATES

Community districts were established by City Charter in 1969 for the delivery of city services. Population data for these districts are compiled by the Department of City Planning from census tract and census block data. The sum of the community district populations in each borough may not equal the borough population or the citywide population because community districts may cross borough boundaries.

### 2021 Community District population

The 2021 Community District population data were calculated based on the Census 2021 released in June 2022 (See Historical Technical Notes for previous years' methods).

## LIFE EXPECTANCY

For life expectancy computations in 2021, single-year age group populations were based on census population estimates. Citywide life expectancies by sex and race/ethnicity for 2020 are calculated based on the 2020 census population. Life expectancies for 2012-2019 have been updated from the previous Summary using linear interpolation of single-year age group populations based on 2010 and 2020 census counts. Life expectancy for Asians and Pacific Islanders (API) is presented, for the first time, in decennial life expectancy calculations using 2019-2021 combined population data (Table M24). Life expectancy in 2021 for Asians and Pacific Islanders is not displayed because the required single year of age population denominators are too small to produce reliable estimates. Also see Technical Notes: Deaths, Life Expectancy.

## AGE CATEGORIES

Since 2010, rates of teen events (ages 15-17, 18-19) require population data with 22 age groups as opposed to the standard 18 provided by the census. As a result, 22-age group population estimates are calculated and provided by the Bureau of Epidemiology Services based on the Census Bureau's estimates or census year population counts.

## DEMOGRAPHICS/CHARACTERISTICS OF VITAL EVENTS

### AGE AT DEATH

For ages greater than one year, decedent's age is based on age at last birthday. Unknown ages are recoded to mean age at death but are extremely rare.

### RACE, ANCESTRY, AND ETHNIC GROUP

Race and ancestry are two separate items on the certificates. A relative of the decedent usually reports this information to the funeral director for the death certificate. As of 2003 and 2008, the death and birth certificates, respectively, allow for the selection of multiple races. Responses are coded following rules from the National Center for Health Statistics (NCHS). The ordered selection rules for defining ethnic group first assign Puerto Rican or other Hispanic/Latino ethnicities based on ancestry, regardless of race. Then, those of other or unknown ancestries are classified by race as Asian and Pacific Islander, non-Hispanic/Latino White, non-Hispanic/Latino Black, and other/multiple race/unknown.

NCHS defines ancestry as the nationality, lineage, or country where the subject's ancestors were born before their arrival in the United States. If a religious group is reported, NCHS instructions are to ask for the country of origin or nationality. New York City receives enough certificates reporting Jewish or Hebrew ancestry to warrant inclusion in these tables, notwithstanding the religious meaning of the terms. Persons whose race is Black and whose ancestry is American are classified as being of African American ancestry.

# TECHNICAL NOTES

## Infant Mortality

Infant's ethnic group is determined from mother's ancestry and race reported on the infant's birth certificate. In the absence of corresponding birth certificate for an infant death, the infant's race and ancestry information on the infant's death certificate is used to assign an ethnic group. When rates are computed by infant characteristics (e.g. sex of infant or hospital/location of death), such characteristics are drawn from the death certificate, except for those characteristics that are either not indicated on the death certificate or only available on the child's birth certificate (e.g. mother's prenatal care, infant's birth weight, and gestational age). In the absence of a birth certificate, demographics are limited to those available on the death certificate. Infants who died in New York City who were born elsewhere are classified as unmatched in Tables IM2 and IM7.

## GEOGRAPHICAL UNITS

### RESIDENCY STATUS IN DATA PRESENTATION

Tables that stratify by location of residence (e.g., borough) separate data for non-residents and residence-unknown categories. See Table M1 as an example. Tables that do not stratify by location of residence combine all deaths registered in New York City, regardless of residence.

Vital events that occurred to New York City residents while outside of New York City are not included in this report, except for Life Expectancy. Life expectancy calculations use national data from the NCHS (Mortality Figures 1-2; Tables M24-M25) or the New York State Department of Health (Mortality Figures 3-4), including deaths to New York City residents that occurred outside of New York City. For more information, see Life Expectancy.

### BIRTHPLACE PRESENTATION

#### Mortality Data

Decedent's birthplace is reported by country. American Samoa, Northern Mariana Islands, US Virgin Islands and Guam are included in United States.

#### Mother's Birthplace (used for births and infant mortality data)

Starting in 2006, mother's birthplace is categorized as: "United States, including its territories" (Puerto Rico, the US Virgin Islands, American Samoa, Northern Mariana Islands, and Guam), "Foreign-born," and "Not Stated." When mother's birthplace is classified by country-specific categories, Puerto Rico is categorized apart from the United States.

### BOROUGH OF RESIDENCE

Borough of residence and other geographic classifications are based on the usual residence reported on the certificate.

### COMMUNITY DISTRICT (CD)

Community districts were established by City Charter in 1969 for the delivery of city services. There are 59 community districts in New York City. Since 1985, assignments to geographic areas smaller than borough, such as community district, are made through the Geosupport Program, which is developed and maintained by the Department of City Planning. Additional information on community district geography can be found at Community Portal (<http://www1.nyc.gov/site/planning/community/community-portal.page>).

### NEIGHBORHOOD POVERTY INDICATOR

Since 2012, neighborhood poverty disparities have been presented in the Summary of Vital Statistics. The neighborhood poverty indicator is the agency-recommended indicator for monitoring socioeconomic health disparities. The summary reports poverty at the census tract level. Each census tract is assigned to a neighborhood poverty category based on the percent of the census tract population living below the federal poverty level. The four neighborhood poverty categories are:



# TECHNICAL NOTES

|  |   |   |  |
|--|---|---|--|
| <b>Low:</b><br><10% of the population<br>below poverty | <b>Medium:</b><br>10-19% of the population<br>below poverty | <b>High:</b><br>20-29% of the population<br>below poverty | <b>Very High:</b><br>≥30% of the population<br>below poverty |
|--|---|---|--|

The denominator of any rate by neighborhood poverty category contains the combined populations of census tracts falling within a category. The numerator contains the summed number of vital events occurring to residents of the census tracts falling within a category. Additional information on the poverty indicator can be found at <http://www.hsph.harvard.edu/thegeocodingproject/>.

## VITAL EVENT RATES

### DEATH RATES

|   |   |
|---|---|
| <p><u>Death Rate, all causes per 1,000 population</u></p> $\frac{\text{Deaths All Causes}}{\text{Population}} \times 1,000$   | <p><u>Death Rate, specified causes per 100,000 population</u></p> $\frac{\text{Deaths due to Specific Cause (specified ICD10 codes)}}{\text{Population}} \times 100,000$  |
| <p><u>Death Rate, age and sex specific per 1,000 population</u></p> $\frac{\text{Deaths to persons of specified age group and sex}}{\text{Population, specified age group and sex}} \times 1,000$   | <p><u>Death Rate, age-adjusted per 100,000 population</u></p> <p>The number of deaths per 100,000 population. Sex and race/ethnicity specific death rates are adjusted using the US standard population age distribution eliminating the effect of differences in population age composition and allowing comparisons over time and between geographic areas. In this publication, 5 age groups are used for calculation: 0-24, 25-44, 45-64, 65-84, 85+, except for Table M2 which uses the age groups in the table.</p> |
| <p><u>Maternal Mortality Ratio – World Health Organization Definition (in Table M13)</u></p> $\frac{\text{Deaths due to complications of pregnancy, childbirth and the puerperium occurring within 42 days of delivery}^*}{\text{Live births}} \times 100,000$ <p>*Deaths of a woman while pregnant or within 42 days of termination of pregnancy from any cause related to or aggravated by pregnancy or its management (ICD10 codes: O00-O95, O98-O99, A34)</p> |   |
| <p><u>Perinatal Mortality Ratio</u></p> $\frac{\text{Fetal Deaths 28 Weeks and Over} + \text{Infant Deaths Under 7 days}}{\text{Fetal Deaths 28 Weeks and Over} + \text{Live Births}} \times 1,000$   |   |

# TECHNICAL NOTES

## INFANT MORTALITY RATES

|   |   |
|---|---|
| <u>Infant Mortality Rate</u><br><br>$\frac{\text{Deaths to infants < 1 year old}}{\text{Number of live births}} \times 1,000$             | <u>Neonatal Mortality Rate</u><br><br>$\frac{\text{Deaths to infants < 28 days of life}}{\text{Number of live births}} \times 1,000$        |
| <u>Early Neonatal Mortality Rate</u><br><br>$\frac{\text{Deaths to infants < 7 days of life}}{\text{Number of live births}} \times 1,000$ | <u>Late Neonatal Mortality Rate</u><br><br>$\frac{\text{Deaths to infants 7 – 27 days of life}}{\text{Number of live births}} \times 1,000$ |

Infant deaths counted in the numerator and live births counted in the denominator are defined by the same calendar year. Some infants counted in the numerator were born in the preceding year and some counted in the denominator may die in the following year.

## PREGNANCY OUTCOME RATES

|   |  |
|---|--|
| <u>Fertility Rate</u><br><br>$\frac{\text{Live births}}{\text{Female population aged 15 to 44 years}} \times 1,000$ | <u>Pregnancy Rate</u><br><br>$\frac{\Sigma (\text{Births, Spontaneous, Induced Terminations})}{\text{Female population of specific age group}} \times 1,000$ |
|---|--|

## Birth Rates

|  |  |
|--|--|
| <u>Total birth rate</u><br><br>$\frac{\text{Total births}}{\text{Total population regardless of age or sex}} \times 1,000$ | <u>Age-specific birth rate</u><br><br>$\frac{\text{Births among specific age group}}{\text{Female population of specific age group}} \times 1,000$ |
|--|--|

|   |   |
|---|---|
| <u>Total spontaneous termination rate</u><br><br>$\frac{\text{Total spontaneous terminations}}{\text{Female population ages 15 to 44 years}} \times 1,000$      | <u>Age-specific spontaneous termination rate</u><br><br>$\frac{\text{Spontaneous terminations among specific aged females}}{\text{Female population of specified age group}} \times 1,000$      |
| <u>Total induced termination of pregnancy rate</u><br><br>$\frac{\text{Total induced terminations}}{\text{Female population ages 15 to 44 years}} \times 1,000$ | <u>Age-specific induced termination of pregnancy rate</u><br><br>$\frac{\text{Induced terminations among specific aged females}}{\text{Female population of specified age group}} \times 1,000$ |

|   |
|---|
| <u>Fetal-infant Mortality Rate (FIMR)</u><br><br>$\frac{(\text{Fetal deaths [weight} \geq 500 \text{ grams and gestational age} \geq 24 \text{ weeks}] + \text{infant deaths [under 1 year old]})}{(\text{Live births [birthweight} \geq 500 \text{ grams]})} \times 1,000$ |
|---|

# TECHNICAL NOTES

## Pregnancy Outcome Counts and Rates

Pregnancy outcome (birth, spontaneous termination, or induced termination) counts and rate numerators use the number of events to women of all ages. For example, the birth rate includes all births in a population, regardless of the mother's age. The denominator for these rates differs by event, consistent with national standards. The birth rate denominator is the number of males and females of all ages. The denominator for spontaneous or induced termination rates is the number of females aged 15-44 years. The counts and numerator used in age-specific pregnancy outcome rates for the youngest age category (teens 15-19), is the number of events to women in the population under age 20, relative to the denominator of women in the population ages 15 to 19 (Table PO23). Similarly, the numerator of the oldest age category (40-49) includes events to all women in the population over the age of 40, relative to the denominator of women in the population ages 40-49. NYC first reported these age-specific rates in the 2011 Pregnancy Outcomes Report and applied a denominator of women in the population ages 40-49 as opposed to 40-44 due to the increased number of events occurring among women ages 45-49. The numerator used for the youngest age category for teen pregnancy outcomes (15-17 in Table PO10) is the number of events to women in the population under age 17, relative to the denominator of women in the population ages 15-17.

## DEATHS

### DEATH CERTIFICATE (see copies at the end of the Summary)

There are two forms, one for natural causes and one for medical examiner cases. The current revisions of the death certificate, implemented in 2003, is based on the recommended 2003 US Standard Certificate of Death: <http://www.cdc.gov/nchs/data/dvs/DEATH11-03final-ACC.pdf>

Natural cause practitioner certificates – Most deaths are due to natural causes.

Medical examiner certificate of death – When the cause of death is an accident, homicide, suicide, or is unattended or due to certain other circumstances (approximately 15% of deaths), the New York City Office of the Chief Medical Examiner (OCME) completes the medical examiner certificate of death and supplementary report.

For natural cause certificates, the Electronic Vital Events Registration System's (EVERS, now replaced by eVital as of October 15, 2018) Electronic Death Registration System (EDRS) became available for voluntary use by hospitals in 2005. In January 2010, EDRS reporting became mandatory for medical examiner certificates. In April 2010, EDRS reporting became mandatory for hospitals reporting >25 deaths/year, and in 2016, EDRS reporting became mandatory for hospitals, skilled nursing facilities, and hospices reporting ≥10 deaths/year. As of April 2020, all medical providers are required to electronically report deaths that occurred in NYC using eVital; this includes providers that submit less than 10 certificates per year.

The two forms are similar. Both collect important information pertaining to the fact of death (person, place, and time of death). Both collect "personal particulars" which include items such as decedent's Social Security number, address, birthplace, education, marital status, informant's information, and place of disposition. The personal particulars are typically provided by a family member of the decedent through the funeral home. Both collect cause of death, which is completed by the physician or a medical examiner. On the natural cause certificate, the cause of death is entered on the confidential medical report. On the OCME certificate, the cause of death is entered on the death certificate itself. In addition to cause of death, the OCME certificate collects information on the circumstances of external causes of death. The OCME certificate indicates manner of death: natural, accident, homicide, suicide, or undetermined. The confidential medical report information is for the compilation of public health statistics and scientific purposes only.

# TECHNICAL NOTES

## DEATH REPORTING

The death events reported are based on certificates filed with the New York City Department of Health and Mental Hygiene (DOHMH) for vital events occurring in or in-route to New York City, regardless of individual residency status, in a particular year. Any events registered after file closure (typically occurring within 5 months of year-end) are excluded from this report. Such late registrations are rare.

Death certificates must be filed within 72 hours of death or finding the body. During 2021, 99.9% of death certificates were filed electronically using eVital. Since the June 1993 revision of the death certificate, decedent race and ancestry information are reported by funeral directors.

## DEATH RATES

See Vital Event Rates

## TYPE OF PLACE OF DEATH

“Hospital” includes residential units and other special facilities within the hospital. “Nursing home” includes only sites licensed as Extended Care Facilities by New York State. “Home” refers to the decedent’s residence, and includes private houses and apartments, group quarters for special populations, homes for adults, and other long-term residential sites.

## CAUSE OF DEATH REPORTING

The cause of death on the death certificate is completed by a physician, medical examiner or, as of January 16, 2012, by a nurse practitioner. The clinician is required to provide the complete sequence of events and/or medical conditions leading to the death. These include the following:

*immediate cause* - the specific condition that directly preceded the death.

*intermediate cause(s)* - the significant condition(s) that preceded and gave rise to the immediate cause of death.

*underlying cause* - the disease or condition that set off the chain of events leading to death.

For further information on how cause of death should be documented, visit

<https://www.nyc.gov/site/doh/data/data-sets/cause-of-death-quality.page>.

## CAUSE OF DEATH-QUALITY IMPROVEMENT INITIATIVE

The Office of Vital Statistics initiated a program to improve quality of cause of death data in 2009, affecting mortality trends by causes of death. See the NYC Summary of Vital Statistics 2010, Special Section, for more information.

## CAUSE OF DEATH CODING

Since 2008, the reported causes of death are coded using the NCHS automated coding software package SuperMICAR, which classifies conditions according to the International Classification of Diseases (ICD) published by the World Health Organization. A single underlying cause is assigned based on the reported chain of events leading to death. Standardized codes allow for national and international comparisons. Causes of death that cannot be coded by SuperMICAR are investigated and coded by nosologists.

# TECHNICAL NOTES

Prior to 2007, a large proportion of accidental drug related deaths (X40-X42, X44) were miscoded as chronic drug use (F11-F16, F18-F19). For a full explanation, see the 2007 Annual Summary of Vital Statistics-Special Report: NYC Changes from Manual to Automated Cause of Death Coding, pages 73-75.

Table M1 is based on the NCHS List of 113 Selected Causes of Death. Some causes have been added to or dropped from these tables based on their number and importance in New York City.

Death trends across ICD code revision years may change as an artifact of the change in ICD codes and coding rules. These should be interpreted with caution.

## COMPARABILITY RATIO

National comparability ratios, last updated in 2003, reflect discontinuities in trends for the cause of death when a new version of the ICD is implemented. They are presented in Table M1 to explain changes in following the implementation of the ICD-10 coding system in January 1999.

Comparability ratios measure the net effect of ICD-10 on each cause of death. NCHS determined the causes of death under ICD-10 and ICD-9 for more than 2.3 million 1996 US mortality records and calculated the ratio:

$$\frac{\text{Deaths from cause ICD} - 10}{\text{Deaths from cause ICD} - 9}$$

More information on the ICD-10/ICD-9 comparability ratio can be found at Comparability of Cause-of-death Between ICD Revisions ([http://www.cdc.gov/nchs/nvss/mortality/comparability\\_icd.htm](http://www.cdc.gov/nchs/nvss/mortality/comparability_icd.htm)).

## SMOKING- AND ALCOHOL-ATTRIBUTABLE MORTALITY

Smoking- and alcohol-attributable deaths represent the number of New York City deaths attributed to exposure to smoking and alcohol respectively.

### SMOKING-ATTRIBUTABLE MORTALITY (SAM)

SAM was calculated using CDC's Adult SAMMEC (Smoking-Attributable Mortality, Morbidity, and Economic Costs) program using an attributable fraction formula. New York City sex-specific smoking prevalence was estimated from the New York City DOHMH Community Health Survey (CHS) and computed by the Bureau of Epidemiology. The relative risks (RR) of death for current and former smokers  $\geq 35$  years of age for 19 smoking-related diseases was estimated from the American Cancer Society's Cancer Prevention Study. The smoking-attributable fraction (SAF) for each smoking-related disease and sex is calculated using the following formula:

$$\text{SAF} = [(p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)) - 1] / [p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)],$$

where  $p_0$  is the percentage of adult never-smokers in New York City;  $p_1$  is the percentage of adult current smokers in New York City;  $p_2$  is the percentage of adult former-smokers in New York City;  $\text{RR}_1$  is the relative risk of death for adult current smokers relative to adult never-smokers; and  $\text{RR}_2$  is the relative risk of death for adult former-smokers relative to adult never-smokers.

To estimate the SAM, the age- and sex-specific SAFs are multiplied by the number of deaths for each smoking-related disease. Specifically, the number of deaths for each sex and 5-year age category was multiplied by the SAF:

$$\text{SAM} = \text{Number of deaths} \times \text{SAF}$$

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates. A detailed description of the methodology is available at:

<https://chronicdata.cdc.gov/Health-Consequences-and-Costs/Smoking-Attributable-Mortality-Morbidity-and-Econo/w47i-r23n>.

# TECHNICAL NOTES

Beginning in 2014, substantial changes in SAM calculation were made based on 2014 Surgeon General Report using more age strata and using updated relative risks. Four new conditions were also added – colorectal cancer (C18-C20), liver cancer (C22), diabetes (E10-E14) and tuberculosis (A16-A19). In addition, C66 (cancer of ureter) to kidney cancer was added – this was inadvertently omitted when CDC analyses began being based on ICD-10 several years ago. See chapter 12 of 2014 Surgeon General Report at following link:

[https://www.ncbi.nlm.nih.gov/books/NBK179276/pdf/Bookshelf\\_NBK179276.pdf](https://www.ncbi.nlm.nih.gov/books/NBK179276/pdf/Bookshelf_NBK179276.pdf)

## ALCOHOL-ATTRIBUTABLE MORTALITY (Table M14)

Alcohol-attributable deaths in Table M14 represent the number of New York City deaths attributed to alcohol. Alcohol-attributable mortality (AAM) was calculated following guidelines from the Alcohol-Related Disease Impact (ARDI) program and applying relevant alcohol-attributable fraction (AAF). These AAFs are either given or calculated using New York City alcohol consumption prevalence for the reported year. For conditions that, by definition, are caused by alcohol use, the AAF was set equal to 1.0. For other conditions, especially injuries, the AAF are based on direct observations about the relationship between alcohol and a given health outcome. For most chronic conditions, the AAF was indirectly estimated using New York City alcohol prevalence data from the CHS combined with pooled risk estimates from large meta-analyses using the following formula:

$$AAF_{ANY} = \frac{P_1(RR_1 - 1) + P_2(RR_2 - 1) + P_3(RR_3 - 1)}{1 + P_1(RR_1 - 1) + P_2(RR_2 - 1) + P_3(RR_3 - 1)}$$

Where:

P1 is the prevalence of low volume alcohol consumption.

P2 is the prevalence of medium volume alcohol consumption.

P3 is the prevalence of high-volume alcohol consumption.

RR1 is the relative risk low volume alcohol consumption.

RR2 is the relative risk medium volume alcohol consumption.

RR3 is the relative risk high volume alcohol consumption.

The three categories of alcohol consumption used (“Low”, “Medium”, and “High”) with differing cutoffs depend on the literature assessed associated conditions. To estimate AAM, AAFs were multiplied by the number of New York City deaths for specific causes defined by the CDC’s National Center for Chronic Disease Prevention and Health Promotion. Detailed description of the methodology is available at:

<https://www.cdc.gov/alcohol/ardi/alcohol-related-icd-codes.html>.

The death data are stratified by sex and five-year age groups. Generally, chronic causes of death are collected for people aged 20 years and older and acute causes of death for people aged 15 years and older. See Alcohol Related Disease Impact (ARDI) home page at the following link for details:

[https://nccd.cdc.gov/DPH\\_ARDI/Default/Default.aspx](https://nccd.cdc.gov/DPH_ARDI/Default/Default.aspx)

On September 3, 2020, CDC made corrections to the alcohol-attributable fractions for five acute causes of death: drownings, fall injuries, fire injuries, firearm injuries, and homicide. On July 20, 2020, new conditions that were added (e.g., cancers of the stomach and pancreas) and some name modifications (e.g., “ischemic heart disease” is now labeled as “coronary heart disease”). Some conditions that were previously included in ARDI were removed based on updated scientific information (e.g., spontaneous abortion). The ICD-10 codes for defining several causes of death (e.g., liver cirrhosis unspecified, atrial fibrillation, and poisonings) were revised. The relative risks and alcohol-attributable fractions were updated to reflect more recent scientific literatures. We incorporated the same corrections beginning in the 2019 Summary of Vital Statistics. See following link for the details about the corrections and updates: <https://www.cdc.gov/alcohol/ardi/methods.html>

# TECHNICAL NOTES

FURTHER CHANGES WERE MADE AFTER WE PUBLISHED THE 2019 SUMMARY OF VITAL STATISTICS. SEE ARDI CUSTOM DATA USER MANUAL AT [HTTPS://WWW.CDC.GOV/ALCOHOL/ARDI/PDFS/ARDI\\_CUSTOM\\_DATA\\_USER\\_MANUAL.PDF](https://www.cdc.gov/alcohol/ardi/pdfs/ardi_custom_data_user_manual.pdf). WE ADOPTED THOSE CHANGES SINCE THE 2020 SUMMARY OF VITAL STATISTICS.

## **COMPLICATIONS OF MEDICAL AND SURGICAL CARE** (Tables M1, M2)

With the 10th revision of the ICD coding system, complications of medical and surgical care are no longer classified as accidents and are now shown separately from accidents.

## **DRUG-RELATED DEATHS**

“Mental and behavioural disorders due to the use of or poisoning by psychoactive substance excluding alcohol and tobacco” is based on NCHS standard cause of death definitions using underlying causes as a basis for categorizing deaths and presented among the leading causes of death. It is also called “Use of or poisoning by psychoactive substance” or “Drug Use/Poisoning” combining underlying chronic drug-use ICD-10 codes (F11-F16, F18-F19) and accidental (unintentional) drug-poisoning ICD-10 codes (X40-X42, X44) to estimate overall drug-related deaths. This definition is found in Mortality Tables 1-4, Figure 15, Tables M1, M7-M12, and M26. “Accidental poisoning by psychoactive substances, excluding alcohol and tobacco,” the “accidental” subset of underlying codes (X40-X42, X44) are reported in Tables M1, M13, and M18. “Mental and behavioural disorders due to the use of psychoactive substance excluding alcohol and tobacco,” the “chronic” subset of underlying codes (F11-F16, F18-F19) is found in Tables M1 and M13. However, please use “accidental” (unintentional) and “chronic” subset trend data with caution as changes from manual to automated ICD coding resulted in a redistribution of chronic causes to acute in 2007 and going forward. For more information on coding error, please see Cause of Death Coding.

## **EXTERNAL CAUSES OF DEATH** (Mortality Figures 18-21; Tables M18-M23)

External causes of death include accidents, suicide, assault, legal intervention, events of undetermined intent, operations of war and their sequelae, and complications of medical and surgical care. The Office of Chief Medical Examiner determines the cause and manner of death in such cases. For the purpose of statistical analysis, whether a cause is defined as external depends on the ICD code assigned as the underlying cause of death and may not agree with the manner of death reported.

Sometimes a cause of death has not been established when the statistical file is closed. Such deaths are classified as “pending final determination” and may later be classified. These “pending final determination” cases are rare.

Deaths classified as “events of undetermined intent” are considered due to external causes for the purpose of statistical analysis. Information on errors in coding external causes of death prior to 2007 is described in Cause of Death Coding.

## **FATAL OCCUPATIONAL INJURIES** (Table M17)

Table M17 is based on US Department of Labor’s Bureau of Labor Statistics. These deaths, unlike NYC Vital statistics, are based on the location of the injury, regardless of the residence of the decedents or location of the death. Note that these deaths may or may not occur at the time of injury, they can occur subsequently. The industry in which the decedent worked and was injured is coded based on the North American Industry Classification System (NAICS). Comparisons by industry before and after 2003 are discouraged because of the substantial coding differences.

For all NYC occurring deaths due to external causes, the Bureau of Vital Statistics (BVS) reviews autopsy and other reports to determine if the injury occurred at work. Definitions and terminology are based on US Department of Labor’s Bureau of Labor Statistics, which may differ from other definitions used in vital statistics.

# TECHNICAL NOTES

## HEART DISEASE DEATHS

See 2010 Mortality – Special Section: *Cause of Death Quality Improvement Initiative* for information on the initiative’s impact on cause of death reporting, particularly heart disease reporting.

## HIV AND AIDS MORTALITY

Beginning in 1999, with the 10th revision of the ICD code, deaths due to HIV disease (ICD-10 codes B20-B24) are characterized by the resulting disease or condition, replacing AIDS and other HIV infections in ICD 9<sup>th</sup> revision.

## HOMICIDE (Mortality Figure 21; Table M20)

A homicide is defined as the action of one person causing the death of another regardless of intent (e.g., whether self-defense or justifiable legal intervention). Annual counts of homicides reported by the New York City Police Department (NYPD) differ from those of the Bureau of Vital Statistics (BVS) for several reasons outlined below. Nonetheless, reported trends are similar. All homicides are medical examiner (ME) cases.

NYPD reports homicides as counts of Murder and Non-Negligent Manslaughter using rules and procedures from the Federal Bureau of Investigation’s Uniform Crime Reporting System (UCR). The count includes deaths determined to be both criminal and satisfying the UCR guidelines. NYPD judges some homicides as justifiable and reports these separately to the FBI. BVS reports a death as a homicide based on the ICD-10 system. ICD-10 defines legal intervention as “injuries inflicted by police or other law-enforcing agents ... in the course of arresting or attempting to arrest ... and other legal action.” Since 2003, deaths from legal intervention have been reported separately in Tables M1 and M20 and are excluded from the homicide counts in Tables M11 and M12.

NYPD Murder and Non-Negligent Manslaughter statistics count all murder crimes known to have been committed in New York City regardless of where the death occurred. Note, the crime may or may not have occurred at the time of death; death can occur subsequently and therefore potentially in a different jurisdiction than the murder crime. BVS reports all homicide deaths known to have occurred in New York City regardless of where the crime was committed.

In its annual count, the NYPD includes homicides known to have occurred within that calendar year by the second week of January of the following year. Any death determined to be a criminal murder outside of that period will be counted in the year that the determination is made. BVS reports homicide by the date of the death and the annual count includes any cases reported until the file closes for the year (approximately 5 months after the end of the year).

Sometimes death results from a crime many years after the crime was committed. Other times, a death may be determined a crime years after the death. In either situation, the ME may determine the death a homicide. If classified as a criminal homicide, NYPD will count the death in the year that the determination is made. However, BVS will report the homicide by the date of death. In cases where a death is reclassified a homicide after the file closes, the death will be recorded as a homicide on the death certificate, but this change will not be reflected in any counts of homicides for the year of death or any other years.

## LIFE EXPECTANCY (Mortality Figures 1-4; Tables M24, M25)

Life expectancy tables summarize the effect of mortality rates prevailing at a specific time on persons being born or living at that time. Tables may be computed for population subgroups, most often males, females, and race groups. The calculation requires counts and mortality figures for the desired subgroups. Life expectancy is estimated by ethnic group instead of race to ascertain differences among Hispanics/Latinos, non-Hispanic/Latino Whites and non-Hispanic/Latino Blacks. Life expectancy tables by race/ethnicity for New York City are generally presented for census years when accurate population data are available. The mortality experience for the census year, the year before, and the year after is used to smooth statistical variation (Table M24).



# TECHNICAL NOTES

The life expectancy for API was calculated for 2020 by using the same methodology in Table M24 due to the growing API population in New York City. Due to the increasing interest in disparities by race/ethnicity in life expectancy and changes in the population in New York City, we began calculating annual life expectancy by race/ethnicity in 2011. Life expectancies in Figures 1-2, Tables M24, and M25 are calculated by complete life tables (for a single year of age). Life expectancies in Figures 3-4 are calculated by abridged life tables (age groups). The number of API deaths in a year is too small to generate reliable life expectancies. Therefore, the annual life expectancy is not presented in Mortality Figure 2.

The World Trade Center disaster deaths are not included in calculation of life expectancy.

Table M25 presents annual life expectancy by age and sex providing trend information.

Historical Hispanic/Latino ancestry data and life expectancy estimates should be interpreted with caution. In addition to changes in the collection of Hispanic/Latino ancestry information, Hispanic/Latino immigration patterns may result in overestimated life expectancy if Hispanics/Latinos move out of the US before death at a greater rate than other ethnic groups. The Hispanic/Latino population tends to be younger than other ethnic groups, which may lead to underestimates of Hispanic/Latino death rates and overestimates of Hispanic/Latino life expectancy.

## **MATERNAL DEATH AND MATERNAL MORTALITY (Table M13)**

Deaths due to “Maternal Causes” meet the World Health Organization’s definition of maternal mortality: “death of a woman while pregnant or within 42 days of termination of pregnancy from any cause related to or aggravated by the pregnancy or its management ...” With the 10th revision of the ICD coding system, this category includes codes O00-O95, O98-O99 and A34 (obstetrical tetanus). “Pregnancy, childbirth and the puerperium” (O00-O99) includes deaths to women that occur outside of the time limitation defined by the World Health Organization (WHO).

## **MOTOR VEHICLE DEATHS (Mortality: Figure 19, Table M18)**

The Bureau of Vital Statistics (BVS) methodology for counting Motor Vehicle Deaths differs from that of the Department of Transportation (DOT) and NYPD in several ways. First, DOT and NYPD include deaths resulting from motor vehicle crashes that happen within NYC city limits, regardless of where the death occurred, whereas BVS reports deaths that happen within NYC city limits, regardless of where the crash occurred. Second, in cases where serious injury suffered during a motor vehicle crash results in death from injury sequelae (e.g., death occurs one month later) the fatality will be counted by DOT and NYPD for the month during which the crash occurred. However, BVS will report that same death by the actual date of death, not the date of injury occurrence. Third, DOT and NYPD do not include deaths resulting from illness while operating a motor vehicle in their traffic fatality count, while BVS does, consistent with the standardized NCHS approach. Lastly, DOT and NYPD reports do not include deaths which occur on private roadways, such as driveways, while BVS reports include these. All the above distinctions apply to counts of non-motor vehicle-involved bicyclist deaths, as well.

## **PREMATURE DEATHS (Mortality: Figures 10-17, Tables 3-4; Tables M9-M10)**

Premature deaths are deaths that occur before a person reaches an expected age, for instance, age 65 or age 75. Premature death rates in the NYC Annual Summary of Vital Statistics use 65 as the expected age. The number of deaths or deaths by select cause(s) relative to the <65 population in the same geographic area are used to calculate the premature death rate.

## **WORLD TRADE CENTER (WTC) DEATHS**

Since 2008, any deaths during the reporting year identified as late-effect WTC deaths are counted in the year of the confirmed death report and in Table M1 under Assault (homicide): ICD-10 Code U02. The total number of WTC deaths is 2,752. The number does not include 3 deaths that occurred outside of NYC.

# TECHNICAL NOTES

Unless otherwise specified, WTC deaths occurring in 2001 are generally not included in Summary tables and figures because this large number would impact year-to-year trends.

## YEARS OF POTENTIAL LIFE LOST (Mortality Table M26)

Years of potential life lost (YPLL) measures years lost due to premature death. In contrast to mortality measures, YPLL emphasizes the effect of premature mortality on a population. YPLL is often calculated using a cut-off age, 65 or 75, as follows:

$$YPLL = \sum [(cutoff\ age - i)] \times d_i$$

where  $i$  is the midpoint of the grouped year of age at death and  $d_i$  is the number of deaths at grouped year of age  $i$ . YPLL can be calculated for specified causes of death. In Table M26, age 75 is used as the cut off age and single year of age is used in calculation. Therefore,  $i$  is single year of age younger than 75. See also Premature Deaths.

## PREGNANCY OUTCOMES

### BIRTHS

#### BIRTH CERTIFICATE (see copy at the end of the Summary)

The birth certificate comprises two parts: the certificate of birth and the confidential medical report of birth. The current revision of the birth certificate, implemented in 2008, is based on the recommended 2003 US Standard Certificate of Live Birth: <http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf>. The 2008 revision coincided with the January 2008 electronic filing requirement.

The certificate of birth is the legal record. Each certificate is authenticated by the medical provider (physician or midwife) or his or her representative and filed with the New York City Department of Health and Mental Hygiene (DOHMH).

The confidential medical report, used for the compilation of public health statistics and scientific purposes, includes parents' demographic information, mother's prenatal history and care, information on financial coverage, maternal morbidity, labor and delivery, and condition and treatment of the infant during, and immediately after, birth. These data are collected from the mother, the mother's and infant's medical records, and medical providers.

#### BIRTH REPORTING

The birth events reported are based on certificates filed with the New York City DOHMH for vital events occurring in or in-route to New York City, regardless of individual residency status, in a particular year. Births must be filed within five business days of the event. Birth data are generally collected using two worksheets: mother/parent and facility worksheets. Guides for the completion of the birth certificate and data entry can be found at: <https://www1.nyc.gov/site/doh/providers/reporting-and-services/evital.page>. Effective January 2008, BVS required all hospitals registering more than 100 births per year to use the Electronic Vital Events Registration System, or EVERS (now replaced by eVital as of October 15, 2018). After 2012, more than 99% of all births were registered electronically through eVital. Any events registered after file closure (typically occurring within 5 months of year-end) are excluded from this report. Such late registrations are rare.

#### BIRTH RATES

See Vital Event Rates.

# TECHNICAL NOTES

## DATA PRESENTATION

Starting with the 2007 Summary, items with unknown/not stated values are excluded from the denominator when calculating percentages. This affects Tables PO6, PO7, PO11, PO12 and Map PO Figure 14.

## Medicaid (Tables PO04-PO07, PO11, PO12, and IM7)

Birth certificate was revised in 2008 to include Family Health Plus. Family Health Plus program was stopped in 2014 due to the Affordable Care Act. As a result, Family Health Plus is not part of Medicaid since 2014. The birth certificate was revised again to reflect this change in 2020. Summary was revised on Medicaid variable following the birth certificate change in 2021.

## BREAST FEEDING (TABLES PO6-7, PO12)

Breast feeding has been reported on the birth certificate since 2008. It includes infant feeding practices through the first 5 days of life. New York City births must be filed with the Department within five business days of the event.

## PLACE OF BIRTH

Since 1996, home births in Tables PO4 and PO5 include all events for which “Home” was selected as the “Type of Place” regardless of whether the certificate was filed through a hospital. Home births in Table PO1 include events for which “home” was selected as “Type of Place” and the certificate was not filed by an institution; typically, these events were filed by the person who attended to the birth at home.

Table PO1 describes the live births according to the borough in which the birth occurred. Prior to 2010, Table PO1 reported births according to the borough in which the reporting office was located. This primarily affects the frequency of “places other than a hospital or home” and “home births,” which occur citywide but are frequently reported by the Bureau of Vital Statistics in Manhattan.

## MOTHER’S MARITAL STATUS

The New York City DOHMH is prohibited by local law from recording mother’s marital status on the record or report of birth. As a result, marital status is estimated and should be interpreted with caution. Since 1997, marital status is computed using the following algorithm: certificates without the father’s name and those with the father’s name that are accompanied by an Acknowledgment of Paternity are categorized as non-married; all others are categorized as married. Married parents have a right to have both their names on their child’s birth certificate. This applies equally to married opposite-sex parents and same-sex parents. Some hospitals require proof of marriage. If the mother is not married, a father’s name may be added through an Acknowledgment of Paternity or court order.

## TEEN BIRTHS

See Pregnancy Outcome Counts and Rates above.

## GESTATIONAL AGE

Gestational age, or clinical estimate of gestation, is defined as the best obstetric estimate of the infant’s gestation in completed weeks based on the birth attendant’s final estimate of gestation. Characteristics of live births and/or infant deaths in the Tables PO4-PO7, PO11, and PO12, respectively, include either gestational age categories or a dichotomous indicator of preterm (<37 weeks gestation) birth.

Beginning in 2007, the range for valid gestational age was changed from 20-44 weeks to 17-47 weeks.

# TECHNICAL NOTES

## SPONTANEOUS AND INDUCED TERMINATIONS OF PREGNANCY REPORTING

### SPONTANEOUS TERMINATION OF PREGNANCY CERTIFICATE (see copy at the end of the Summary)

Like the birth certificate, the spontaneous termination of pregnancy certificate has two parts, the certificate and the confidential medical report. The certificate is available to the mother. The confidential medical report information is collected for the compilation of public health statistics and scientific purpose.

### INDUCED TERMINATION OF PREGNANCY CERTIFICATE (see copy at the end of the Summary)

Certificates of induced termination of pregnancy are not issued. Data are collected for the compilation of public health statistics and scientific purpose.

The spontaneous and induced termination of pregnancy events reported are based on certificates filed with the New York City Department of Health and Mental Hygiene (DOHMH) for vital events occurring in or in-route to New York City, regardless of individual residency status, in a particular year. By law, all terminations of pregnancy are to be reported within 5 business days of the event, unless a permit to dispose of the conceptus is required ( $\geq 24$  weeks gestation) or requested (any gestational age). In such a case, the event must be reported within 24 hours. However, the number of induced and spontaneous terminations filed depends to some extent on the outreach conducted by BVS. Effective January 1, 2011, all facilities that report births electronically to the Department pursuant to Public Health Law 203, are required to report spontaneous terminations electronically via the Electronic Vital Events Registration System, or EVERS (now replaced by eVital as of October 15, 2018); the Chief Medical Examiner and all facilities reporting 100 or more induced terminations of pregnancy per year also are required to file electronically via eVital; all facilities that have commenced reporting electronically, regardless of number of events reported, are required to do so electronically. After 2010, 99.8% of induced terminations of pregnancy and 99.7% of spontaneous terminations of pregnancy were filed electronically. Otherwise, paper forms, authorized by the department may be used for reporting such events.

## SPONTANEOUS AND INDUCED TERMINATION OF PREGNANCY RATES

See PREGNANCY OUTCOME RATES above.

## PERINATAL PERIODS OF RISK (PPOR)

### PERINATAL PERIODS OF RISK (PPOR)

Perinatal Periods of Risk (PPOR) is both a community approach and an analytic framework for investigating and reducing infant mortality rates in urban settings. It examines fetal and infant deaths by age at death (fetal, neonatal, post-neonatal) and birthweight (500-1,400 grams,  $\geq 1,500$  grams). It then groups age at death and birthweight into four categories that identify where the risk factors are that led to the death: “Maternal Health and Prematurity,” “Maternal Care,” “Newborn Care,” and “Infant Health.” Communities should be able to use the information from PPOR to mobilize and prioritize prevention efforts.

# TECHNICAL NOTES

## HISTORICAL TECHNICAL NOTES

### POPULATION

#### POPULATION ESTIMATES

##### 2020

Tables and figures with 2020 single year population data are from 2020 Census counts.

##### 2013-2019

Tables and figures with 2013-2019 data use intercensal population estimates determined by the Census Bureau in 2013-2019 vintage files. Tables and figures with 2001-2012 data use intercensal population estimates determined by the Census Bureau released as of September 2012.

##### 2010-2012

Tables and figures with single-year data use the Census population estimates for respective years except for 2010 when the Census population count was used. Tables and figures with 2001-2010 data use intercensal population estimates determined by NYC Department of City Planning as of July 1, 2010. Single-year population data after 2010 are extrapolated based on 2000 and 2010 Census population counts.

##### 2007-2009

The 2007-2009 Annual Summaries used the respective year's pre-challenged US Census Bureau's population estimates. As a result, city and borough-wide estimates overall and by age, ethnicity, and sex may vary from those presented in prior summaries.

##### 2005-2006

The 2005-2006 Annual Summaries used post 2000 Census estimates for citywide, county (borough), 5-year age group, ethnic group, and sex population counts. The Summary year population counts used pre-challenged census estimates; prior year population counts presented in the Summaries used post-challenged census estimates in addition to Census 2000 data.

##### 2000-2004

Population counts used US Census citywide decennial population counts.

##### Intercensal years between 1990 and 2000

Intercensal counts were estimated using an exponential formula, which assumes that the growth rate was the same throughout the decade:

$$\frac{pop(t1)}{pop(t0)} = e^{rt}$$

(where r is a constant growth rate and t is the time interval).

##### Intercensal years through 1989

Intercensal counts were estimated using a linear interpolation.

##### 1960, 1970, 1980, 1990, 2000

The population counts for years 1960, 1970, 1980, 1990 and 2000 were US Census counts.

# TECHNICAL NOTES

## COMMUNITY DISTRICT

### 2013-2020

Community District population estimates for 2013-2019 were based on census intercensal estimates by county, age, race, and sex, 2013-2020 vintages, and interpolated by Bureau of Epi Services. See the following description of 2012 data for details.

### 2012

Community District population estimates for the years 2010-2012 are based on population estimates from 2010 to 2012. Census intercensal estimates by county, age, race, and sex. The 2010 number is adjusted to account for undercount in Brooklyn and Queens as documented by the Department of City Planning. To calculate individual year's Community District estimates beginning with July 1<sup>st</sup>, 2000, an interpolation by Community District, age, race, and sex was adjusted to the county, age, race, and sex numbers using an iterative proportional fitting procedure. Each year through 2009 was constructed from an interpolation based on the previous year, the modified Census 2010, and the intercensal numbers for that year. The July 1<sup>st</sup>, 2010 numbers were then extrapolated using July 1<sup>st</sup>, 2009 and Census 2010 and then adjusted to the July 1<sup>st</sup> intercensal numbers. These estimates differ from the 2001-2011 estimates used in the 2010 and 2011 Summary because the 2010 and 2011 Summary estimates were adjusted to official intercensal estimates consistent with Census 2010 released in October 2012.

### 2011

Community District population estimates for the years 2000-2010 use population estimates from Census 2000 and Census 2010 and the official Census intercensal estimates by county, age, race, and sex. To calculate individual year's Community District estimates beginning with July 1<sup>st</sup>, 2000, an interpolation by Community District, age, race, and sex was adjusted to the county, age, race, and sex numbers using an iterative proportional fitting procedure. Each year through 2009 was constructed from an interpolation based on the previous year and Census 2010. The July 1<sup>st</sup>, 2010 numbers were then extrapolated using July 1<sup>st</sup>, 2009 and Census 2010 and then adjusted to the July 1<sup>st</sup> intercensal numbers. These estimates differ from the 2000-2010 estimates used in the 2010 Summary because they are adjusted to official intercensal estimates consistent with Census 2010 released in October 2012.

### 2010

Community district population estimates by sex and 18 age groups were derived by the New York City Department of City Planning. For community district data by race/ethnicity and 22 age groups for the same period, DOHMH Bureau of Epi Services constructed estimates from the Department of City Planning data and available Census 2000 and 2010 data, ensuring consistency with marginal totals from the Census Intercensal Estimates program. Postcensal estimates as well as the official 2010 modified race summary files were used. Because the 2010 modified race summary file was not available from the Census for single-year age by modified race groups, DOHMH used Census summary file 1 and adjusted the dataset to match the Census modified race summary file. To create the modified race groups, the "some other race" group was removed and race is imputed. While the modified race summary file created by the Census used information from other members of the same household, the DOHMH used race information from the corresponding Census tract. The race distribution was then modified to match the 2010 modified race summary file.

# TECHNICAL NOTES

## 2008-2009

Community District population estimates for intercensal years use United States Census Bureau Population Estimate Program and housing unit data from the New York City Department of City Planning. The “housing unit method” of estimation allocates the population to Community Districts. The method multiplies the estimated number of households in a given area by an estimate of the population per household. In the intercensal context, housing unit growth, measured by housing permit data, determines the locations of growth. Because these estimates are calibrated to equal United States Census-borough-specific population totals, the borough population per household is fixed. New population estimates are derived using the iterative proportional fitting procedure (IPFP) implemented in SAS® Version 9.2. The validity of these estimates depends on vacancy rates, housing unit loss rates, percentage of permits actually constructed, and time to complete construction, which are assumed consistent at the borough level and thus have no effect on the allocation of growth. The method is sensitive to the quality of the housing permit data, which does not identify residential conversions to multiple units. Demographic characteristics are allocated assuming those at the location of growth. Therefore, this approach does not capture intercensal demographic changes at the neighborhood level including change due to migration.

## 2005-2006

Year 2000 census counts were used for defining smaller geographic units such as community districts or single-year age groups.

## HEALTH CENTER DISTRICT

### Through 2007

Population estimates for Health Center District (HCD) were not computed in time for the release of 2008 report and have not been presented since 2007. As a result, Health Center District tables were either replaced (Table 7) or did not present rates (Table 34).

### Through 2007

Health Center district data were presented in Summary Reports. Populations for geographic area smaller than borough were based on decennial census data.

## 2005-2006

Year 2000 census counts were used for defining smaller geographic units such as community districts or single-year age groups.

## RACE/ETHNIC GROUP

### 2000-2001

Census data were used to define race and ethnic distribution; in 2002, the Census Bureau issued the modified Race File resulting in a 65% reduction in Other and Multiple Race, a 6% increase in Asian and Pacific Islander, and 3% increases for non-Hispanic/Latino White and non-Hispanic/Latino Black. There was no change for Hispanic/Latino population.

# TECHNICAL NOTES

## DEMOGRAPHIC CHARACTERISTICS OF VITAL EVENTS

### RACE, ANCESTRY AND ETHNIC GROUP

#### Through 2007

The birth certificate allowed the selection of one race category.

#### 1991-2005

Mother's birthplace was reported in four categories: United States other than Puerto Rico, Puerto Rico, Foreign-born and Not Stated. US Virgin Islands and Guam are included in the "Foreign-born" category.

#### Through 2002

The death certificate allowed the selection of one race category.

#### 1999

The meaning of ancestry was clarified with hospitals, resulting in a notable increase in Hebrew and Jewish ancestry and a decrease in American ancestry.

### BIRTHPLACE

#### 2000-2005

Decedent's birthplace was first reported by country in 2000. US Virgin Islands and Guam were included in the "Other" category.

## GEOGRAPHICAL UNITS

### COMMUNITY DISTRICT

#### Prior to 2003

Community districts were referred to by number through 2002 and by name after.

### PLACE OF BIRTH

#### Through 1995

Through 1995, all reports of home births included only events filed outside the hospital.

## DEATHS

### DEATH REPORTING

#### Through 1992

Medical certifier provided race and ancestry information.

### RACE/ETHNICITY

#### 1993 - present

The death certificate was revised in June 1993 to require funeral directors to provide ancestry information, presumably from decedents' family members. Beginning in 2003, multiple races were added following the 2000 Census definition.



# TECHNICAL NOTES

## Through 1992

Medical certifier provided ancestry information.

## CAUSE OF DEATH CODING

### 2007 - present

ICD-coding is conducted by SuperMicar, then rejects are manually coded by NCHS certified nosologists.

### Through 2006

ICD-coding was conducted manually by NCHS certified nosologists.

## ALCOHOL-RELATED DEATHS: ICD CODING

### 2008 - present

Following increasing deaths due to binge drinking, the ICD codes for alcohol-related deaths were re-evaluated by the World Health Organization's Mortality Reference Group and coding was implemented in 2008. Core changes included recoding acute alcoholism, previously coded as F10.2, to X45 (alcohol poisoning) and retiring F10.0 and going forward coding such cases as X45. This resulted in an increase in alcohol liver disease and alcohol poisoning and a decrease in alcohol dependence syndrome. A subsequent decrease in alcohol liver disease between 2008 and 2009 is, in part, a result of further corrections to coding applied in 2009. Similar changes are seen in US data.

## HIV AND AIDS

### 1987 to 1999

In 1987, NCHS introduced code 042 for AIDS and 043-044 for other HIV disease deaths. Additional information on historical HIV coding can be found in the 1997 and 1998 Annual Summaries.

### 1983 to 1986

AIDS was recognized as a cause of death and coded as ICD-9 code 279.1.

## EXTERNAL CAUSES

### Through 1999

External Causes were not shown separately.

## DRUG-RELATED DEATHS

### 2008 - present

Unintentional Drug-related Overdose Deaths (Mortality: Figure 19), a definition used in Take Care New York (TCNY) was reported in the Summary starting from 2008. The definition had changed after an extensive review of drug-related cases. Starting in the 2011 Summary, the definition of Unintentional Drug-related Overdose Deaths has 2 modifications from "Drug Use/Poisoning": (i) restricted to deaths among individuals ages 15 to 84; and (ii) restricted to manner of deaths confirmed by medical examiner to be accidental.

### Through 2006

Through 2006, a large proportion of accidental drug related deaths (X40-X42, X44) were miscoded as chronic drug use (F11-F16, F18-F19). For a full explanation, please see the 2007 Annual Summary of Vital Statistics-Special Report: NYC Changes from Manual to Automated Cause of death Coding, pages 73-75. NCHS coded data is often substituted when presenting external causes of death trends that span 2006 to 2007.

# TECHNICAL NOTES

## MATERNAL DEATHS AND MATERNAL MORTALITY

### Through 1998

Currently labelled “Maternal deaths” were “Complications of pregnancy, childbirth and the puerperium” through 1998.

## ACCIDENTS (UNINTENTIONAL)

### Through 1999

Complications of medical care and surgical care were classified as accidents per ICD-9.

### Through 1998

The site of accidents (home and public place) has been dropped due to unreliable reporting.

## SMOKING-ATTRIBUTABLE MORTALITY (SAM)

### 2011-2012

Due to the concern of underestimating smoking-attributable mortality caused by the rapid decrease in smoking prevalence in New York City, data were presented by “Deaths and age-adjusted death rates for selected smoking-related causes of death per 100,000 population (35 years and over).”

### 2005-2010, 2013

SAM was calculated using CDC’s Adult SAMMEC (Smoking-Attributable Mortality, Morbidity, and Economic Costs) program using an attributable fraction formula. New York City sex-specific smoking prevalence was estimated from the New York City DOHMH Community Health Survey (CHS) and computed by the Bureau of Epidemiology. The relative risks (RR) of death for current and former smokers  $\geq 35$  years of age for 19 smoking-related diseases were estimated from the American Cancer Society’s Cancer Prevention Study. The smoking-attributable fraction (SAF) for each smoking-related disease and sex is calculated using the following formula:

$$\text{SAF} = [(p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)) - 1] / [p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)],$$

Where  $p_0$  is the percentage of adult never-smokers in New York City;  $p_1$  is the percentage of adult current smokers in New York City;  $p_2$  is the percentage of adult former smokers in New York City;  $\text{RR}_1$  is the relative risk of death for adult current smokers relative to adult never-smokers; and the  $\text{RR}_2$  is the relative risk of death for adult former-smokers relative to adult never-smokers.

To estimate the SAM, the age- and sex-specific SAFs are multiplied by the number of deaths for each smoking-related disease. Specifically, the number of deaths for each sex and 5-year age category was multiplied by the SAF:

$$\text{SAM} = \text{Number of deaths} \times \text{SAF}$$

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates.

## WORLD TRADE CENTER DEATHS

### 2008 - present

See Technical Notes, 2009 regarding late effect WTC-deaths.

# TECHNICAL NOTES

## 2007, 2008

In 2007, a 2002 death was reclassified as a WTC death.

In 2008, a 2001 death was reclassified as a 2001 WTC death.

In 2008, a missing person was classified as a 2001 WTC death per New York State Supreme Court.

## 2002

In 2002, the number of WTC deaths included in 2001 deaths was updated from 2,740 to 2,749. This new number included six additional death certificates filed through October 31, 2003 and three deaths that occurred outside of New York City (See 2002 Special Section for details).

## FATAL OCCUPATIONAL INJURIES

### Through 2002

The industry in which the decedent worked and was injured was coded based on the Standard Industrial Classification (SIC).

## WORLD TRADE CENTER DEATHS AND LIFE EXPECTANCY

### 2002 (Special Section)

Impact of World Trade Center deaths on life expectancy.

## BIRTHS

### AGE-SPECIFIC BIRTH RATES

#### Through 2010

Until 2011, youngest age-specific birth rates included events within the specific age range (e.g. age-specific birth rates to females 15 to 19 include births to females in that age group. Age-specific births to females 15-17 include births to females in that age group.) See current technical notes for the change after 2010.

### AGE-SPECIFIC BIRTH RATES

#### Through 2010

Until 2011, the oldest age-specific birth rate presented was 40 to 44. See current technical notes for the change after 2010.

## TRIMESTER OF FIRST PRENATAL CARE VISIT (LATE OR NO PRENATAL CARE)

### 2008-2009

Following the 2008 transition to EVERS, the magnitude of births registered without information used to calculate Trimester of First Prenatal Care Visit was great and data were suppressed. By 2010 reporting improved such that data could be released and included in the Summary.

## ANCESTRY, OTHER

### 2008-2010

Following the 2008 transition to EVERS, the number of births registered with “Other” or “Unknown” ancestry increased.

# TECHNICAL NOTES

## MOTHER'S MARITAL STATUS

### Through 1996

Mother's Marital Status was computed using an algorithm developed by NCHS. A 1996 review of marital status indicated that the number of non-marital births was being overestimated. See Special Note on Mother's Marital Status in the 1997 Annual Summary for details.

## 2008 REVISED NYC BIRTH CERTIFICATE

### 2008

For comprehensive information on the 2008 revision of the NYC birth certificate, please see the Technical Notes from the 2008 Summary of Vital Statistics: <http://www1.nyc.gov/assets/doh/downloads/pdf/vs/2008sum.pdf>.

## INDUCED AND SPONTANEOUS TERMINATION OF PREGNANCY

### REPORTING

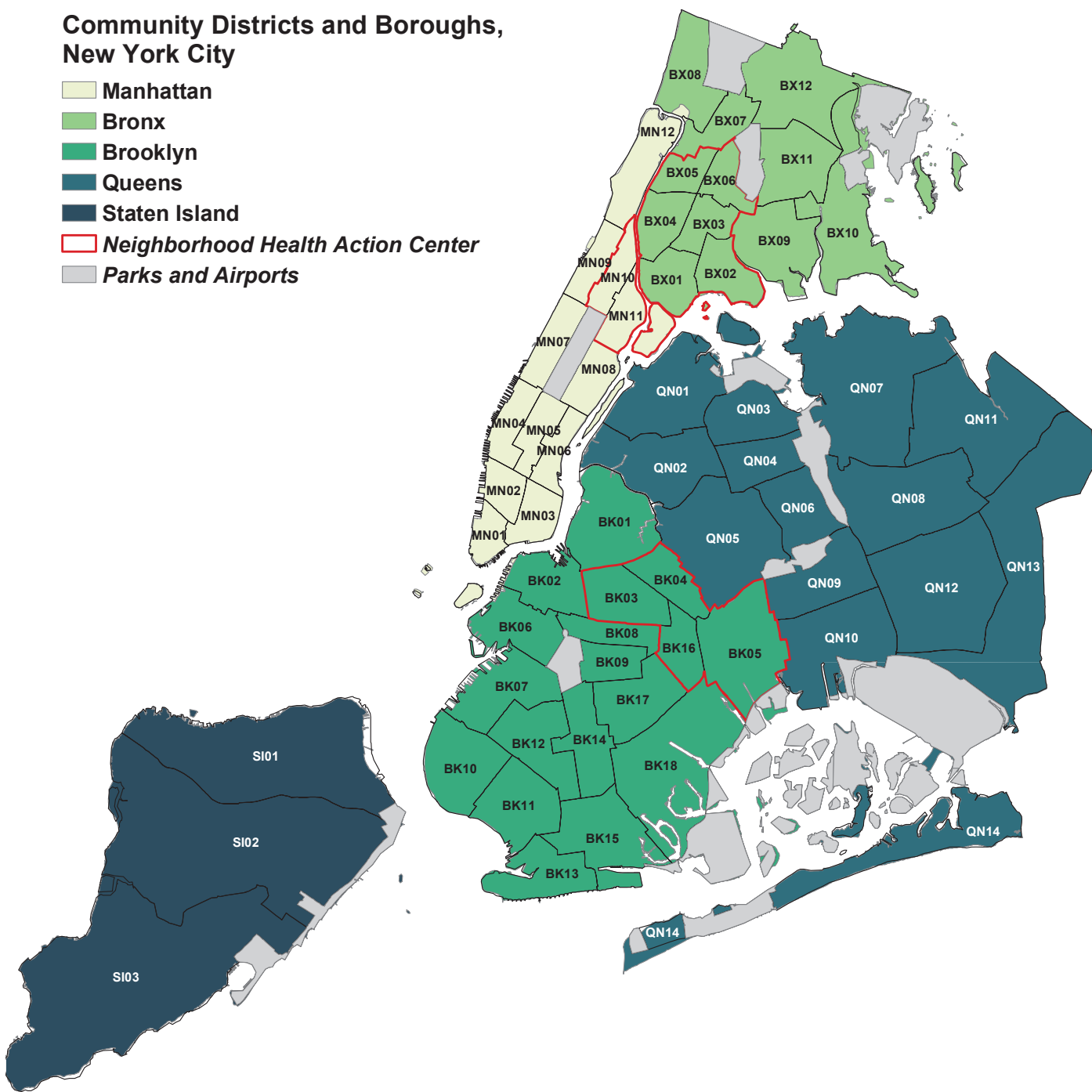
#### Through 2007

Induced and spontaneous terminations of pregnancies registered after the annual file closed were added to the following year's data.

# COMMUNITY DISTRICTS AND BOROUGHES, NEW YORK CITY

## Community Districts and Boroughs, New York City

- Manhattan
- Bronx
- Brooklyn
- Queens
- Staten Island
- Neighborhood Health Action Center
- Parks and Airports



# VITAL EVENT CERTIFICATES

VR-6S  
(Rev. 1/20)

DATE FILED THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

## CERTIFICATE OF BIRTH

CERTIFICATE NO. \_\_\_\_\_

**THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE**  
Type/write or print with black fine point ink. Certificates containing alterations or omissions are unacceptable.

Please complete the following:  
Has parent approved assignment of SSN for child?

YES  NO

Father/Parent's SSN: \_\_\_\_\_

Mother/Parent's SSN: \_\_\_\_\_

Cert. No. \_\_\_\_\_

Place: \_\_\_\_\_

Died: Date: \_\_\_\_\_

|  |   |   |  |  |   |
|--|---|---|--|--|---|
| 1. NAME OF CHILD   |   | (First, Middle, Last, Suffix)   |  |  |   |
| 2. SEX   | 3a. NUMBER DELIVERED of this pregnancy  |   | 4a. DATE OF CHILD'S BIRTH  |  | 4b. TIME <input type="checkbox"/> AM <input type="checkbox"/> PM                          |
|  | 3b. If more than one, number of this child in order of delivery   |   |  |  |   |
| 5. PLACE OF BIRTH  | 5a. NEW YORK CITY BOROUGH   |   | 5b. Name of Hospital or other facility (if not facility, street address) |  |   |
| 5c. TYPE OF PLACE  | <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding Birthing Center <input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> Home Delivery: Planned to deliver at home? |   |  |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |
| 6a. MOTHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last, Suffix)    SEX ___M___F___X |   | 6b. MOTHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)   |  | 6c. MOTHER/PARENT'S BIRTHPLACE City & State or foreign country                         |   |
| 7. MOTHER/PARENT'S USUAL RESIDENCE   |   | 7c. City or town  | 7d. Street and number  | Apt. No.   | ZIP Code  |
| a. State    b. County  |   |   |  | 7e. Inside city limits of 7c? Yes <input type="checkbox"/> No <input type="checkbox"/> |   |
| 8a. FATHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last, Suffix)    SEX ___M___F___X |   | 8b. FATHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)   |  | 8c. FATHER/PARENT'S BIRTHPLACE City & State or foreign country                         |   |
| 9a. NAME OF ATTENDANT AT DELIVERY  |   | <input type="checkbox"/> M.D. <input type="checkbox"/> RPA<br><input type="checkbox"/> D.O. <input type="checkbox"/> R.N.<br><input type="checkbox"/> Lic. Midwife<br><input type="checkbox"/> Other-Specify _____  |  |  |   |
| 9b. I CERTIFY THAT THIS CHILD WAS BORN ALIVE AT THE PLACE, DATE AND TIME GIVEN                       |   | <input type="checkbox"/> M.D. <input type="checkbox"/> RPA<br><input type="checkbox"/> D.O. <input type="checkbox"/> R.N.<br><input type="checkbox"/> Hosp. Admin.<br><input type="checkbox"/> Lic. Midwife<br><input type="checkbox"/> Other-Specify _____ |  |  |   |
| Signed _____   |   |   |  |  |   |
| Name of Signer _____   |   | (Type or Print)   |  |  |   |
| Address _____  |   |   |  |  |   |
| Date Signed _____, Year - yyyy _____   |   |   |  |  |   |
| Mother/Parent's Current (First, Middle, Last) Legal Name _____                                       |   |   |  |  |   |
| Address _____ Apt. _____   |   |   |  |  |   |
| City _____ State _____ ZIP _____   |   |   |  |  |   |

# VITAL EVENT CERTIFICATES

VR-6S  
(Rev. 1/20)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

(Each question MUST be answered)

## CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)

Only for scientific purposes approved by the Commissioner. Not open to inspection or subject to compelled disclosure.

NAME OF CHILD \_\_\_\_\_ CHILD'S MEDICAL RECORD NO. \_\_\_\_\_ CERTIFICATE NO. \_\_\_\_\_

MOTHER'S/PARENT'S MEDICAL RECORD NO. \_\_\_\_\_ MOTHER'S/PARENT'S TELEPHONE NUMBERS: Day ( ) \_\_\_\_\_ Evening ( ) \_\_\_\_\_

### 10. PARENT'S RACE

Race as defined by the U.S. Census (Check **one or more** to indicate what the parent considers her/himself to be)

**a. Mother/Parent** **b. Father/Parent**

.....White.....

.....Black or African American.....

.....American Indian or Alaska Native.....

*Name of enrolled or principal tribe*

(Mother/Parent) (Father/Parent)

.....Asian Indian.....

.....Chinese.....

.....Filipino.....

.....Japanese.....

.....Korean.....

.....Vietnamese.....

.....Other Asian.....

*Specify*

(Mother/Parent) (Father/Parent)

.....Native Hawaiian.....

.....Guamanian or Chamorro.....

.....Samoan.....

.....Other Pacific Islander.....

*Specify*

(Mother/Parent) (Father/Parent)

.....Other.....

*Specify*

(Mother/Parent) (Father/Parent)

### 14. PARENT'S OCCUPATION

| a. Was mother/parent employed during pregnancy? | Yes No                            |                                 |
|---|-----------------------------------|---------------------------------|
|   | 1. Current/most recent occupation | 2. Kind of business or industry |
| <b>b. Mother/Parent</b>                         |                                   |                                 |
| <b>c. Father/Parent</b>                         |                                   |                                 |

### 15. PRENATAL HISTORY

**a. 1. Total Number of Previous Live Births** \_\_\_\_\_  None

**2. Number Born Alive and Now Living** \_\_\_\_\_  None

**3. Number Born Alive and Now Dead** \_\_\_\_\_  None

**b. Those born alive may have been Preterm, Low Birth Weight or both. Please indicate:**

**1. Number Preterm (< 37 wks.)** \_\_\_\_\_  None

**2. Number Low Birth Weight (< 2500 grams or 5 lbs. 8 oz.)** \_\_\_\_\_  None

**c. 1. Total Number of other Pregnancy Outcomes (Spontaneous or Induced Terminations):** \_\_\_\_\_  None

**2. Number of Spontaneous Terminations of Pregnancy less than 20 Weeks** \_\_\_\_\_  None

**3. Number of Spontaneous Terminations of Pregnancy 20 Weeks or More** \_\_\_\_\_  None

**4. Number of Induced Terminations of Pregnancy** \_\_\_\_\_  None

**d. Date of First Live Birth** (mm/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_

**e. Date of Last Live Birth** (mm/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_

**f. Date of Last other Pregnancy Outcome** (mm/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_

**g. Date Last Normal Menses began** (mm/dd/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_

### 11. PARENT'S ANCESTRY

(Check **one** box and specify what the parent considers her/himself to be)

**a. Mother/Parent** **b. Father/Parent**

.....Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.).....

*Specify*

(Mother/Parent) (Father/Parent)

.....NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.).....

*Specify*

(Mother/Parent) (Father/Parent)

### 16. PRENATAL CARE

**a. Total Number of Prenatal Visits for this Pregnancy** \_\_\_\_\_  None

**b. Date of First Prenatal Care Visit** (mm/dd/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_

**c. Date of Last Prenatal Care Visit** (mm/dd/yyyy) \_\_\_\_/\_\_\_\_/\_\_\_\_

**d. Primary Prenatal Care Provider Type (Check one)**

MD/DO  No Provider

C(N)/M/NP/PA/Other Midwife  No Information

Clinic  Other

**e. Risk Factors in this Pregnancy (Check all that apply)**

Pre-pregnancy diabetes

Gestational diabetes

Pre-pregnancy hypertension

Gestational hypertension

Cardiac disease:

Structural defect

Functional defect

Other serious chronic illness

Anemia (Hct <30/Hgb <10)

Asthma/Acute or chronic lung disease

Rh sensitization

Polyhydramnios

Oligohydramnios

Hemoglobinopathy

Abruptio placenta

Eclampsia

Other previous poor pregnancy outcome

Prelabor referral for high risk care

Other vaginal bleeding

Previous cesarean section: Number \_\_\_\_\_

Infertility treatment:

Fertility drugs, artificial/intrauterine insemination

Assisted reproductive technology (e.g., IVF, GIFT)

Number of embryos implanted (if applicable) \_\_\_\_\_

Fetal reduction

None of the above

### f. Infections Present and/or Treated During Pregnancy (Check all that apply)

Gonorrhea  Hepatitis C

Syphilis  Tuberculosis

Herpes Simplex (HSV)  Rubella

Chlamydia  Bacterial Vaginosis

Hepatitis B  None of the above

### g. 1. Cigarette Smoking in the 3 Months Before or During Pregnancy?

Yes  No

**If Yes, Average Number of Cigarettes or Packs/Day (enter 0 if None)**

Cigarettes or Packs/Day

**2. 3 mo. before pregnancy** \_\_\_\_\_ or \_\_\_\_\_

**3. First 3 mo. of pregnancy** \_\_\_\_\_ or \_\_\_\_\_

**4. Second 3 mo. of pregnancy** \_\_\_\_\_ or \_\_\_\_\_

**5. Third trimester of pregnancy** \_\_\_\_\_ or \_\_\_\_\_

### h. Alcohol Use During This Pregnancy?

Yes  No

### i. Illicit and other Drugs Used During This Pregnancy?

Yes  No

If yes, check all that apply

Heroin  Marijuana

Cocaine  Sedatives

Methadone  Tranquilizers

Methamphetamine  Anticonvulsants

**j. Mother/Parent Pre-Pregnancy Weight** \_\_\_\_\_ pounds

**k. Mother/Parent Height** \_\_\_\_\_ feet \_\_\_\_\_ inches

### l. Obstetric Procedures (Check all that apply)

Cervical cerclage  Fetal genetic testing

Tocolysis  None of the above

External cephalic version:

Successful

Failed

**m. If woman was 35 or over, was fetal genetic testing offered?**

Yes  No, Too Late  No, Other Reason

### 12. PARENT'S LENGTH OF TIME IN US

**a. Mother/Parent:** If born outside of the United States, how long lived in U.S.? \_\_\_\_\_ years \_\_\_\_\_ or if < 1 yr, months \_\_\_\_\_

**b. Father/Parent:** If born outside of the United States, how long lived in U.S.? \_\_\_\_\_ years \_\_\_\_\_ or if < 1 yr, months \_\_\_\_\_

### 13. PARENT'S EDUCATION

(Check the box that best describes the highest degree or level of school completed at time of delivery)

**a. Mother/Parent** **b. Father/Parent**

.....8th grade or less; none.....

.....9th-12th grade, no diploma.....

.....High school graduate or GED.....

.....Some college credit, but no degree.....

.....Associate degree (e.g., AA, AS).....

.....Bachelor's degree (e.g., BA, AB, BS).....

.....Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA).....

.....Doctorate (e.g., PhD, EdD).....

or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

### 17. FINANCIAL COVERAGE

**a. Primary Payor (Check one)**

Medicaid  Other

Private Insurance  Self-pay

Other gov/CHPlusB  Unknown

CHAMPUS/TRICARE

**b. Is the mother/parent enrolled in an HMO or other managed care plan?**

Yes  No

**c. Did mother/parent participate in WIC?**

Yes  No

### 18. MATERNAL MORBIDITY

(Check all that apply)

Maternal transfusion

Perineal laceration (3rd or 4th degree)

Ruptured uterus

Unplanned hysterectomy

Admit to ICU

Unplanned operating room procedure following delivery

Hemorrhage

Postpartum transfer to a higher level of care

None of the above

# VITAL EVENT CERTIFICATES

VR-6S  
(Rev. 12/09)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

(Each question MUST be answered)

## CONFIDENTIAL MEDICAL REPORT OF BIRTH (2 of 2)

Only for scientific purposes approved by the Commissioner. Not open to inspection or subject to compelled disclosure.

NAME OF CHILD \_\_\_\_\_

CERTIFICATE NO. \_\_\_\_\_

| 19. LABOR AND DELIVERY   | 20. INFANT   |                          |                          |                          |   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
|--|--|--------------------------|--------------------------|--------------------------|---|--|--|--|--|--------------------------|-----|----|-----|----|--|----------------|--------------------------|--------------------------|--------------------------|--------------------------|---|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|----------------|--------------------------|--------------------------|--------------------------|--------------------------|---|------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|---|--------------------------|--------------------------|--------------------------|--------------------------|---|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|---|--------------------------|--------------------------|--------------------------|--------------------------|---|--|--------------------------|--------------------------|--------------------------|--------------------------|---|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------------|--------------------------|--|--|--|--|
| <p><b>a. If birth occurred in hospital, was mother/parent transferred in before giving birth?</b><br/>If yes, name of facility transferred from _____</p> <p><input type="checkbox"/> Yes _____<br/><input type="checkbox"/> No _____</p> <p><b>b. Mother/Parent Weight at Delivery</b><br/>_____ pounds</p> <p><b>c. Onset of Labor</b><br/>(Check all that apply)</p> <p><input type="checkbox"/> Prolonged rupture of membranes (12 hours or more)    <input type="checkbox"/> Prolonged labor (20 hours or more)<br/><input type="checkbox"/> Premature rupture of membranes (prior to labor)    <input type="checkbox"/> None of the above<br/><input type="checkbox"/> Precipitous labor (less than 3 hours)</p> <p><b>d. Characteristics of Labor &amp; Delivery</b><br/>(Check all that apply)</p> <p><input type="checkbox"/> Induction of Labor-AROM    <input type="checkbox"/> Chorioamnionitis<br/><input type="checkbox"/> Induction of Labor-Medicinal    <input type="checkbox"/> Febrile (&gt;100.4F or 38C)<br/><input type="checkbox"/> Augmentation of Labor    <input type="checkbox"/> Meconium staining<br/><input type="checkbox"/> Placenta previa    <input type="checkbox"/> Fetal intolerance<br/><input type="checkbox"/> Other excessive bleeding    <input type="checkbox"/> External electronic fetal monitor<br/><input type="checkbox"/> Steroids    <input type="checkbox"/> Internal electronic fetal monitor<br/><input type="checkbox"/> Antibiotics    <input type="checkbox"/> None of the above</p> <p><b>e. 1. Anesthesia</b><br/>(Check all that apply)</p> <p><input type="checkbox"/> Epidural    <input type="checkbox"/> Paracervical<br/><input type="checkbox"/> General inhalation    <input type="checkbox"/> Pudendal<br/><input type="checkbox"/> General intravenous    <input type="checkbox"/> Local<br/><input type="checkbox"/> Spinal    <input type="checkbox"/> None of the above</p> <p><b>2. Complications from any of the above?</b><br/><input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p><b>Method of Delivery</b></p> <p><b>f. Fetal Presentation at Birth</b></p> <p><input type="checkbox"/> Cephalic    <input type="checkbox"/> Other<br/><input type="checkbox"/> Breech</p> <p><b>g. Final route and method of delivery</b> (Check one)</p> <p><input type="checkbox"/> Vaginal/Spontaneous    <input type="checkbox"/> Vaginal/Vacuum<br/><input type="checkbox"/> Vaginal/Forceps    <input type="checkbox"/> Cesarean</p> <p><b>1. If cesarean, was trial of labor attempted?</b><br/><input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p><b>2. Indications for C-Section</b> <input type="checkbox"/> Unknown<br/>(Select all that apply)    <input type="checkbox"/> Maternal condition-not pregnancy related<br/><input type="checkbox"/> Failure to progress    <input type="checkbox"/> Maternal condition-pregnancy related<br/><input type="checkbox"/> Malpresentation    <input type="checkbox"/> Refused VBAC<br/><input type="checkbox"/> Previous C-Section    <input type="checkbox"/> Elective<br/><input type="checkbox"/> Fetus at risk/NFS    <input type="checkbox"/> Other</p> <p><b>3. Was delivery with forceps attempted but unsuccessful?</b><br/><input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p><b>4. Indications for Forceps</b> <input type="checkbox"/> Unknown<br/>(Select all that apply)    <input type="checkbox"/> Fetus at Risk<br/><input type="checkbox"/> Failure to progress    <input type="checkbox"/> Other</p> <p><b>5. Was delivery with vacuum extraction attempted but unsuccessful?</b><br/><input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p><b>6. Indications for Vacuum</b> <input type="checkbox"/> Unknown<br/>(Select all that apply)    <input type="checkbox"/> Fetus at Risk<br/><input type="checkbox"/> Failure to progress    <input type="checkbox"/> Other</p> <p><b>h. Other Procedures Performed at Delivery</b> (Check all that apply)</p> <p><input type="checkbox"/> Episiotomy &amp; repair    <input type="checkbox"/> Repair of lacerations<br/><input type="checkbox"/> Sterilization    <input type="checkbox"/> None of the above</p> | <p><b>a. Birthweight</b></p> <p>_____ Pounds    _____ Ounces    or    _____ Grams</p> <p><b>b. If birth weight &lt; 1250 grams (2 lbs. 12 oz.), reason(s) for delivery at a less than level III hospital: (Only if applicable)</b></p> <p><input type="checkbox"/> None    <input type="checkbox"/> Unknown at this time<br/>(Select all that apply)<br/><input type="checkbox"/> Rapid/Advanced Labor    <input type="checkbox"/> Severe pre-eclampsia<br/><input type="checkbox"/> Bleeding    <input type="checkbox"/> Woman Refused Transfer<br/><input type="checkbox"/> Fetus at Risk    <input type="checkbox"/> Other-specify _____</p> <p><b>c. Apgar Score at</b><br/><b>1.</b> 1 minute    <b>2.</b> 5 minutes    <b>3.</b> 10 minutes</p> <p><b>d. Clinical Estimate of Gestation</b><br/>Completed Weeks: _____</p> <p><b>e. Infant Transferred</b><br/>Within 24 hours of Delivery    After 24 hours    Not Transferred<br/><input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/></p> <p><b>f. If transferred, name of facility transferred to:</b> _____</p> <p><b>g. Abnormal Conditions of the Newborn</b><br/>(Check all that apply)</p> <p><input type="checkbox"/> Assisted ventilation required immediately following delivery<br/><input type="checkbox"/> Assisted ventilation required for more than six hours<br/><input type="checkbox"/> NICU admission<br/><input type="checkbox"/> Newborn given surfactant replacement therapy<br/><input type="checkbox"/> Antibiotics received by the newborn for suspected neonatal sepsis<br/><input type="checkbox"/> Seizure or serious neurologic dysfunction<br/><input type="checkbox"/> Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)<br/><input type="checkbox"/> None of the above</p> <p><b>h. Hepatitis B Inoculation</b></p> <p><b>1.</b> Immunization administered?<br/><input type="checkbox"/> Yes    Date: (mm/dd/yyyy) ____/____/____<br/><input type="checkbox"/> No</p> <p><b>2.</b> Immunoglobulin administered?<br/><input type="checkbox"/> Yes    Date: (mm/dd/yyyy) ____/____/____<br/><input type="checkbox"/> No</p> <p><b>i. Is infant living at time of report?</b><br/><input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p><b>j. How is infant being fed?</b> (Check one)<br/><input type="checkbox"/> Breast milk    <input type="checkbox"/> Both<br/><input type="checkbox"/> Formula    <input type="checkbox"/> Neither</p> <p><b>Congenital Anomalies</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <th style="text-align: left;">k. Select all that apply</th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: left;">m. If Yes, please indicate all methods used:</th> </tr> </thead> <tbody> <tr> <td>1. Anencephaly</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td><input type="checkbox"/> Level II Ultrasound    <input type="checkbox"/> MSAFP/Triple Screen<br/><input type="checkbox"/> Amniocentesis    <input type="checkbox"/> Other    <input type="checkbox"/> Unknown</td> </tr> <tr> <td>2. 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Down Syndrome<br/><input type="checkbox"/> Karyotype confirmed<br/><input type="checkbox"/> Karyotype pending</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td><input type="checkbox"/> Level II Ultrasound    <input type="checkbox"/> MSAFP/Triple Screen<br/><input type="checkbox"/> CVS    <input type="checkbox"/> Amniocentesis<br/><input type="checkbox"/> Other    <input type="checkbox"/> Unknown</td> </tr> <tr> <td>11. Other Chromosomal Disorder<br/><input type="checkbox"/> Karyotype confirmed<br/><input type="checkbox"/> Karyotype pending</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td><input type="checkbox"/> Level II Ultrasound    <input type="checkbox"/> MSAFP/Triple Screen<br/><input type="checkbox"/> CVS    <input type="checkbox"/> Amniocentesis<br/><input type="checkbox"/> Other    <input type="checkbox"/> Unknown</td> </tr> <tr> <td>12. 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|  |  |                          |                          |                          |   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| k. Select all that apply   | Yes  | No                       | Yes                      | No                       | m. If Yes, please indicate all methods used:  |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 1. Anencephaly   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound <input type="checkbox"/> MSAFP/Triple Screen<br><input type="checkbox"/> Amniocentesis <input type="checkbox"/> Other <input type="checkbox"/> Unknown                                 |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 2. Meningocele/Spina Bifida  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound <input type="checkbox"/> MSAFP/Triple Screen<br><input type="checkbox"/> Amniocentesis <input type="checkbox"/> Other <input type="checkbox"/> Unknown                                 |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 3. Cyanotic Congenital Heart Disease   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 4. Congenital Diaphragmatic Hernia   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 5. Omphalocele   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 6. Gastroschisis   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 7. Limb Reduction Defect   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 8. Cleft lip with or without Cleft Palate  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 9. Cleft Palate alone  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 10. Down Syndrome<br><input type="checkbox"/> Karyotype confirmed<br><input type="checkbox"/> Karyotype pending  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound <input type="checkbox"/> MSAFP/Triple Screen<br><input type="checkbox"/> CVS <input type="checkbox"/> Amniocentesis<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 11. Other Chromosomal Disorder<br><input type="checkbox"/> Karyotype confirmed<br><input type="checkbox"/> Karyotype pending   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound <input type="checkbox"/> MSAFP/Triple Screen<br><input type="checkbox"/> CVS <input type="checkbox"/> Amniocentesis<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 12. Hypospadias  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Level II Ultrasound<br><input type="checkbox"/> Other <input type="checkbox"/> Unknown   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |
| 13. None of those listed above   | <input type="checkbox"/>   |                          |                          |                          |   |  |  |  |  |                          |     |    |     |    |  |                |                          |                          |                          |                          |   |                             |                          |                          |                          |                          |   |                                      |                          |                          |                          |                          |   |                                    |                          |                          |                          |                          |   |                |                          |                          |                          |                          |   |                  |                          |                          |                          |                          |   |                          |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |                       |                          |                          |                          |                          |   |   |                          |                          |                          |                          |   |  |                          |                          |                          |                          |   |                 |                          |                          |                          |                          |   |                                |                          |  |  |  |  |



# VITAL EVENT CERTIFICATES

DATE FILED THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

## CERTIFICATE OF DEATH Certificate No. \_\_\_\_\_

### 1. DECEDENT'S LEGAL NAME

(First, Middle, Last)

|   |   |  |   |   |   |  |  |
|---|---|--|---|---|---|--|--|
| MEDICAL CERTIFICATE OF DEATH<br>(To be filled in by the Physician)  | Place Of Death  | 2a. New York City<br>2b. Borough   | 2c. Type of Place<br>1 <input type="checkbox"/> Hospital Inpatient<br>2 <input type="checkbox"/> Emergency Dept./Outpatient<br>3 <input type="checkbox"/> Dead on Arrival   | 4 <input type="checkbox"/> Nursing Home/Long Term Care Facility<br>5 <input type="checkbox"/> Hospice Facility<br>6 <input type="checkbox"/> Decedent's Residence<br>7 <input type="checkbox"/> Other Specify _____ | 2d. Any Hospice care in last 30 days<br>1 <input type="checkbox"/> Yes<br>2 <input type="checkbox"/> No<br>3 <input type="checkbox"/> Unknown | 2e. Name of hospital or other facility (if not facility, street address) |  |
|   | Date and Time of Death  | 3a. (Month) (Day) (Year-yyyy)  | 3b. Time <input type="checkbox"/> AM <input type="checkbox"/> PM  | 4. Sex  | 5. Date last attended by a Physician<br>mm dd yyyy  |  |  |
| 6. Certifier: I certify that death occurred at the time, date and place indicated and that to the best of my knowledge traumatic injury or poisoning DID NOT play any part in causing death, and that death did not occur in any unusual manner and was due entirely to NATURAL CAUSES. See instructions on reverse of certificate. |   |  |   |   |   |  |  |
| Name of Physician _____ (Type or Print)   |   |  | Signature _____   |   | D.O.<br>M.D.  |  |  |
| Address _____   |   |  | License No. _____   |   | Date _____  |  |  |
| PERSONAL PARTICULARS<br>(To be filled in by Funeral Director or, in case of City Burial, by Physician)  | 7a. Usual Residence State   | 7b. County   | 7c. City or Town  | 7d. Street and Number   | Apt. No.  | ZIP Code   |  |
|   | 8. Date of Birth (Month) (Day) (Year-yyyy)  |  | 9. Age at last birthday (years)   | Under 1 Year<br>Months Days   | Under 1 Day<br>Hours Minutes  | 10. Social Security No.  |  |
|   | 11a. Usual Occupation (Type of work done during most of working life. Do not use "retired")   |  | 11b. Kind of business or industry   |   | 12. Aliases or AKAs   |  |  |
|   | 13. Birthplace (City & State or Foreign Country)  |  | 14. Education (Check the box that best describes the highest degree or level of school completed at the time of death)<br>1 <input type="checkbox"/> 8th grade or less; none<br>2 <input type="checkbox"/> 9th – 12th grade; no diploma<br>3 <input type="checkbox"/> High school graduate or GED<br>4 <input type="checkbox"/> Some college credit, but no degree<br>5 <input type="checkbox"/> Associate degree (e.g., AA, AS)<br>6 <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)<br>7 <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)<br>8 <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD) |   |   |  |  |
|   | 15. Ever in U.S. Armed Forces?<br>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No  | 16. Marital/Partnership Status at time of death<br>1 <input type="checkbox"/> Married 2 <input type="checkbox"/> Domestic Partnership 3 <input type="checkbox"/> Divorced<br>4 <input type="checkbox"/> Married, but separated 5 <input type="checkbox"/> Never Married 6 <input type="checkbox"/> Widowed<br>7 <input type="checkbox"/> Other, Specify _____ 8 <input type="checkbox"/> Unknown |   |   | 17. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)  |  |  |
|   | 18. Father's Name (First, Middle, Last)   |  |   | 19. Mother's Maiden Name (Prior to first marriage) (First, Middle, Last)  |   |  |  |
|   | 20a. Informant's Name   |  | 20b. Relationship to Decedent   |   | 20c. Address (Street and Number Apt. No. City & State ZIP Code)   |  |  |
|   | 21a. Method of Disposition<br>1 <input type="checkbox"/> Burial 2 <input type="checkbox"/> Cremation 3 <input type="checkbox"/> Entombment 4 <input type="checkbox"/> City Cemetery<br>5 <input type="checkbox"/> Other Specify _____ |  |   | 21b. Place of Disposition (Name of cemetery, crematory, other place)  |   |  |  |
|   | 21c. Location of Disposition (City & State or Foreign Country)  |  |   |   | 21d. Date of Disposition mm dd yyyy   |  |  |
|   | 22a. Funeral Establishment  |  |   | 22b. Address (Street and Number City & State ZIP Code)  |   |  |  |

VR 15 (Rev. 01/09)

# VITAL EVENT CERTIFICATES

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
**CONFIDENTIAL MEDICAL REPORT**

VR 15 (Rev. 01/09)

Certificate No. \_\_\_\_\_

|   |  |   |  |
|---|--|---|--|
| To be filled in by <b>FUNERAL DIRECTOR</b> or, in case of City Burial, by Physician   |  | Certificate No. _____   |  |
| <b>23. Ancestry (Check one box and specify)</b><br><input type="checkbox"/> Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)<br>Specify _____<br><input type="checkbox"/> NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)<br>Specify _____ |  | <b>24. Race as defined by the U.S. Census (Check one or more to indicate what the decedent considered himself or herself to be)</b><br>01 <input type="checkbox"/> White                      02 <input type="checkbox"/> Black or African American<br>03 <input type="checkbox"/> American Indian or Alaska Native<br>(Name of enrolled or principal tribe) _____<br>04 <input type="checkbox"/> Asian Indian            05 <input type="checkbox"/> Chinese<br>06 <input type="checkbox"/> Filipino                    07 <input type="checkbox"/> Japanese<br>08 <input type="checkbox"/> Korean                    09 <input type="checkbox"/> Vietnamese<br>10 <input type="checkbox"/> Other Asian—Specify _____<br>11 <input type="checkbox"/> Native Hawaiian    12 <input type="checkbox"/> Guamanian or Chamorro<br>13 <input type="checkbox"/> Samoan<br>14 <input type="checkbox"/> Other Pacific Islander—Specify _____<br>15 <input type="checkbox"/> Other—Specify _____ |  |
| <b>DECEDENT'S LEGAL NAME</b> (Type or Print) _____  |  |   |  |
| <b>25. CAUSE OF DEATH – List only one cause on each line. DO NOT ABBREVIATE.</b>  |  |   |  |
| <b>PART I</b>   | a. IMMEDIATE CAUSE   | APPROXIMATE INTERVAL: ONSET TO DEATH  |  |
|   | b. DUE TO OR AS A CONSEQUENCE OF   |   |  |
|   | c. DUE TO OR AS A CONSEQUENCE OF   |   |  |
|   | d. DUE TO OR AS A CONSEQUENCE OF   |   |  |
| <b>PART II</b>  | OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH but not resulting in the underlying cause given in Part I. Include operation information. |   |  |
|   | <b>26a. Was an autopsy performed?</b><br>1 <input type="checkbox"/> Yes    2 <input type="checkbox"/> No                                     | <b>27a. If Female</b><br>1 <input type="checkbox"/> Not pregnant within 1 year of death<br>2 <input type="checkbox"/> Pregnant at time of death<br>3 <input type="checkbox"/> Not pregnant at death, but pregnant within 42 days of death<br>4 <input type="checkbox"/> Not pregnant at death, but pregnant 43 days to 1 year before death<br>5 <input type="checkbox"/> Unknown if pregnant within 1 year of death   | <b>27b. If pregnant within one year of death, outcome of pregnancy</b><br>1 <input type="checkbox"/> Live Birth<br>2 <input type="checkbox"/> Spontaneous Termination/<br>Ectopic Pregnancy<br>3 <input type="checkbox"/> Induced Termination    4 <input type="checkbox"/> None |
| <b>26b. Were autopsy findings available to complete the cause of death?</b><br>1 <input type="checkbox"/> Yes    2 <input type="checkbox"/> No  | <b>28. Was this case referred to OCME?</b><br>1 <input type="checkbox"/> Yes<br>2 <input type="checkbox"/> No                                |   |  |
| <b>29. Did tobacco use contribute to death?</b><br>1 <input type="checkbox"/> Yes    2 <input type="checkbox"/> No    3 <input type="checkbox"/> Probably    4 <input type="checkbox"/> Unknown   | <b>30. For infant under one year: Name and address of hospital or other place of birth</b>   |   |  |
| I am submitting herewith a confidential report of the cause of death.   |  |   |  |
| SIGNATURE _____   |  | D.O. _____<br>M.D. _____      ADDRESS _____      LICENSE NO. _____  |  |

CAUSE OF DEATH—Enter the chain of events—diseases, complications or abnormalities—that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology.

IMMEDIATE CAUSE → FINAL disease or condition resulting in death.

Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE (disease that initiated the events resulting in death) LAST.

OPERATION—Enter in Part II information on operation or procedure related to disease or conditions listed in Part I.

SUBSTANCE USE—Include the use of tobacco, alcohol or other substance if this caused or contributed to death. SPECIFY IN PART I or PART II.

# VITAL EVENT CERTIFICATES

DATE FILED THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

## CERTIFICATE OF DEATH

Certificate No. \_\_\_\_\_

- New
- Corr/Amend
- Replacement

**DOHMH  
USE ONLY**

### 1. DECEDENT'S LEGAL NAME

(First, Middle, Last)

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

|           |
|-----------|
| BOR       |
| INST      |
| MANNER    |
| RESIDENCE |
| CODE      |
| BP        |
| LDIS      |
| H         |
| ANC       |
| NH        |
| ANC       |
| ICD       |
| AUT       |

|   |  |   |  |  |  |                  |
|---|--|---|--|--|--|------------------|
| <b>MEDICAL CERTIFICATE OF DEATH</b><br>(To be filled in by the OCME)  | 2a. New York City  | 2c. Type of Place   | 4 <input type="checkbox"/> Nursing Home/Long Term Care Facility  | 2d. Any Hospice care in last 30 days   | 2e. Name of hospital or other facility (if not facility, street address) |                  |
|   | 2b. Borough  | 1 <input type="checkbox"/> Hospital Inpatient   | 5 <input type="checkbox"/> Hospice Facility  | 1 <input type="checkbox"/> Yes   |  |                  |
|   |  | 2 <input type="checkbox"/> Emergency Dept./Outpatient   | 6 <input type="checkbox"/> Decedent's Residence  | 2 <input type="checkbox"/> No  |  |                  |
|   |  | 3 <input type="checkbox"/> Dead on Arrival  | 7 <input type="checkbox"/> Other Specify _____   | 3 <input type="checkbox"/> Unknown   |  |                  |
|   | Date and Time of Death or Found Dead   | 3a. (Month) (Day) (Year-yyyy)   | 3b. Time   | <input type="checkbox"/> AM<br><input type="checkbox"/> PM                               | 4. Sex   | 5. OCME Case No. |
|   | <b>PART I</b>  | a. Immediate cause  |  |  |  |                  |
|   |  | b. Due to or as a consequence of  |  |  |  |                  |
|   |  | c. Due to or as a consequence of  |  |  |  |                  |
|   | <b>PART II</b>   | Other significant conditions contributing to death but not resulting in the underlying cause given in Part I. Include operation information.  |  |  |  |                  |
|   | 7a. Injury Date (mm dd yyyy)   | 7b. Time  | <input type="checkbox"/> AM<br><input type="checkbox"/> PM   | 7c. At Work<br>1 <input type="checkbox"/> Yes<br>2 <input type="checkbox"/> No           | 7d. Place of Injury – At home, factory, street, etc.                     |                  |
| 7f. How Injury Occurred   |  |   |  |  |  |                  |
| 7g. If Transportation Injury Specify<br><input type="checkbox"/> Driver/Operator <input type="checkbox"/> Pedestrian<br><input type="checkbox"/> Passenger<br><input type="checkbox"/> Other Specify _____                            | 8. Manner of Death<br><input type="checkbox"/> Pending further study<br><input type="checkbox"/> Natural <input type="checkbox"/> Homicide<br><input type="checkbox"/> Accident <input type="checkbox"/> Suicide <input type="checkbox"/> Undetermined   | 9. Autopsy<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No Autopsy Pursuant to Law<br><input type="checkbox"/> No Autopsy  | 10. On the basis of examination and/or investigation, in my opinion, death occurred due to the causes and manner as stated.<br>Certifier Signature _____ D.O. _____ M.D. Date _____<br>Certifier Name (Print) _____ (Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner) |  |  |                  |
| 11a. Usual Residence State  | 11b. County  | 11c. City or Town   | 11d. Street and Number Apt. No. ZIP Code   | 11e. Inside City Limits?<br>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No |  |                  |
| 12. Date of Birth (Month) (Day) (Year-yyyy)   |  | 13. Age at last birthday (years)  | Under 1 Year<br>Months Days  | Under 1 Day<br>Hours Minutes   | 14. Social Security No.  |                  |
| 15a. Usual Occupation (Type of work done during most of working life. Do not use "retired")   |  | 15b. Kind of business or industry   | 16. Aliases or AKAs  |  |  |                  |
| 17. Birthplace (City & State or Foreign Country)  |  | 18. Education (Check the box that best describes the highest degree or level of school completed at the time of death)  |  |  |  |                  |
|   |  | 1 <input type="checkbox"/> 8th grade or less; none    4 <input type="checkbox"/> Some college credit, but no degree    7 <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)<br>2 <input type="checkbox"/> 9th – 12th grade; no diploma    5 <input type="checkbox"/> Associate degree (e.g., AA, AS)    8 <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)<br>3 <input type="checkbox"/> High school graduate or GED    6 <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) |  |  |  |                  |
| 19. Ever in U.S. Armed Forces?<br>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No  | 20. Marital/Partnership Status at time of death<br>1 <input type="checkbox"/> Married 2 <input type="checkbox"/> Domestic Partnership 3 <input type="checkbox"/> Divorced<br>4 <input type="checkbox"/> Married, but separated 5 <input type="checkbox"/> Never Married 6 <input type="checkbox"/> Widowed<br>7 <input type="checkbox"/> Other, Specify _____ 8 <input type="checkbox"/> Unknown |   | 21. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)   |  |  |                  |
| 22. Father's Name (First, Middle, Last)   |  | 23. Mother's Maiden Name (Prior to first marriage) (First, Middle, Last)  |  |  |  |                  |
| 24a. Informant's Name   |  | 24b. Relationship to Decedent   | 24c. Address (Street and Number Apt. No. City & State ZIP Code)  |  |  |                  |
| 25a. Method of Disposition<br>1 <input type="checkbox"/> Burial 2 <input type="checkbox"/> Cremation 3 <input type="checkbox"/> Entombment 4 <input type="checkbox"/> City Cemetery<br>5 <input type="checkbox"/> Other Specify _____ |  |   | 25b. Place of Disposition (Name of cemetery, crematory, other place)   |  |  |                  |
| 25c. Location of Disposition (City & State or Foreign Country)  |  |   |  | 25d. Date of Disposition mm dd yyyy  |  |                  |
| 26a. Funeral Establishment  |  |   | 26b. Address (Street and Number City & State ZIP Code)   |  |  |                  |

VR 16 (Rev. 01/09)

# VITAL EVENT CERTIFICATES

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
**MEDICAL EXAMINER'S SUPPLEMENTARY REPORT**

VR 16 (Rev. 01/09)

Certificate No. \_\_\_\_\_

|  |  |
|--|--|
| To be filled in by <b>FUNERAL DIRECTOR</b> or, in case of City Burial, by OCME   |  |
| 27. Ancestry (Check one box and specify)<br><input type="checkbox"/> Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)<br><br>Specify _____<br><br><input type="checkbox"/> NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)<br><br>Specify _____ | 28. Race as defined by the U.S. Census (Check one or more to indicate what the decedent considered himself or herself to be)<br>01 <input type="checkbox"/> White                      02 <input type="checkbox"/> Black or African American<br>03 <input type="checkbox"/> American Indian or Alaska Native<br>(Name of enrolled or principal tribe) _____<br>04 <input type="checkbox"/> Asian Indian            05 <input type="checkbox"/> Chinese<br>06 <input type="checkbox"/> Filipino                    07 <input type="checkbox"/> Japanese<br>08 <input type="checkbox"/> Korean                    09 <input type="checkbox"/> Vietnamese<br>10 <input type="checkbox"/> Other Asian—Specify _____<br>11 <input type="checkbox"/> Native Hawaiian    12 <input type="checkbox"/> Guamanian or Chamorro<br>13 <input type="checkbox"/> Samoan<br>14 <input type="checkbox"/> Other Pacific Islander—Specify _____<br>15 <input type="checkbox"/> Other—Specify _____ |

**DECEDENT'S LEGAL NAME** (Type or Print) \_\_\_\_\_

|  |   |  |    |    |      |
|--|---|--|----|----|------|
| 29a. If Female<br>1 <input type="checkbox"/> Not pregnant within 1 year of death<br>2 <input type="checkbox"/> Pregnant at time of death<br>3 <input type="checkbox"/> Not pregnant at death, but pregnant within 42 days of death<br>4 <input type="checkbox"/> Not pregnant at death, but pregnant 43 days to 1 year before death<br>5 <input type="checkbox"/> Unknown if pregnant within 1 year of death | 29b. If pregnant within one year of death, outcome of pregnancy<br>1 <input type="checkbox"/> Live Birth<br>2 <input type="checkbox"/> Spontaneous Termination / Ectopic Pregnancy<br>3 <input type="checkbox"/> Induced Termination                      4 <input type="checkbox"/> None | 29c. Date of Outcome<br><table border="1"> <tr> <td>mm</td> <td>dd</td> <td>yyyy</td> </tr> </table> | mm | dd | yyyy |
| mm   | dd  | yyyy   |    |    |      |
| 30. Did tobacco use contribute to death?<br>1 <input type="checkbox"/> Yes   2 <input type="checkbox"/> No   3 <input type="checkbox"/> Probably   4 <input type="checkbox"/> Unknown  | 31. For infant under one year: Name and address of hospital or other place of birth<br>_____<br>_____   |  |    |    |      |

**Cleared For Cremation  
If Family Requests**

\_\_\_\_\_  
M.E. Signature

I certify that I personally examined the body on \_\_\_\_\_ at \_\_\_\_\_  
 (Date) (Location)

SIGNATURE: \_\_\_\_\_  
 (Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

**or**

I did not personally examine the body after death.

SIGNATURE: \_\_\_\_\_  
 (Deputy Chief) (Chief) (Medical Examiner)

# VITAL EVENT CERTIFICATES

DATE FILED

## THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE CERTIFICATE OF SPONTANEOUS TERMINATION OF PREGNANCY

VR-17  
(REV. 01/10)

CERTIFICATE NO.

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

1. Typewrite or print with black fine point ink.  
 2. Certificates containing alterations or omissions are unacceptable.  
 3. Items "Date filed," "Certificate No.," and this space, reserved for the Department of Health and Mental Hygiene use only.  
 I CERTIFY THAT I HAVE IN MY POSSESSION AN AFFIDAVIT OF AUTHORIZATION FOR CREMATION

FD Initials

|   |   |   |  |
|---|---|---|--|
| <b>Did heart beat after delivery? _____</b><br><b>Was there movement of voluntary muscle? _____</b> |   | If answer to either is yes, do not use this form. Case must be reported by filing a certificate of birth and a certificate of death.          |  |
| <b>FETUS</b>  | 1. NAME (Optional): (First, Middle, Last, Suffix)   | 2a. DATE OF DELIVERY<br>(Month) (Day) (Year-yyyy)   | 2b. TIME <input type="checkbox"/> AM <input type="checkbox"/> PM<br><input type="checkbox"/> Unknown   |
|   | 3. SEX<br><input type="checkbox"/> Male <input type="checkbox"/> Unknown <input type="checkbox"/> Female  |   |  |
| <b>FETUS</b><br>Place of Delivery   | 4. OBSTETRIC ESTIMATE OF GESTATION # of weeks   | 5a. NUMBER DELIVERED THIS PREGNANCY   | IF MORE THAN ONE<br>5b. Number in order of delivery _____ 5c. Number born alive _____  |
|   | 6a. TYPE OF PLACE<br><input type="checkbox"/> Hospital – ER/ED <input type="checkbox"/> Freestanding Birthing Center<br><input type="checkbox"/> Hospital – Amb. Surg. <input type="checkbox"/> Home<br><input type="checkbox"/> Hospital – Labor/Labor and Delivery <input type="checkbox"/> Clinic/Doctor's Office<br><input type="checkbox"/> Hospital – Other <input type="checkbox"/> Other, Specify _____<br><input type="checkbox"/> Unknown | 6b. FACILITY NAME/ADDRESS<br><br>If not in facility, street address: (Street Number and Name, City or Town, County, State, Country, Zip Code) |  |
| <b>MOTHER/PARENT</b>  | 7. CURRENT LEGAL NAME: (First, Middle, Last, Suffix)  | 9. DATE OF BIRTH<br>(Month) (Day) (Year-yyyy)   | 12. BIRTHPLACE<br>City _____ State _____   |
|   | 8. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, Last, Suffix)  | 10. AGE   | 11. SEX<br><input type="checkbox"/> Male <input type="checkbox"/> Female   |
|   | 13. RESIDENCE ADDRESS: (Street Number and Name, Apt. No., City or Town, County, State, Country, Zip Code)   |   | 14. INSIDE CITY LIMITS?<br><input type="checkbox"/> Yes <input type="checkbox"/> Unknown <input type="checkbox"/> No   |
| <b>FATHER/PARENT</b>  | 15. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, Last, Suffix)   | 16. DATE OF BIRTH<br>(Month) (Day) (Year-yyyy)  | 19. BIRTHPLACE<br>City _____ State _____   |
|   |   | 17. AGE   | 18. SEX<br><input type="checkbox"/> Male <input type="checkbox"/> Female   |
| <b>ATTENDANT/CERTIFIER</b>  | 20. ATTENDANT NAME AT DELIVERY:<br>_____<br>(First, Middle, Last, Suffix)   |   | <input type="checkbox"/> MD <input type="checkbox"/> DO<br><input type="checkbox"/> LIC. Midwife <input type="checkbox"/> RPA<br><input type="checkbox"/> Other, (specify) _____ |
|   | 21. CERTIFIER: I HEREBY CERTIFY THAT THIS EVENT OCCURRED AT THE TIME AND ON THE DATE INDICATED AND THAT ALL FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.<br><br>Signature of Physician Certifier _____<br>Name of Physician Certifier _____<br>Address _____<br>License No. _____ / _____ / _____ Date _____  |   | <input type="checkbox"/> MD <input type="checkbox"/> DO  |
| <b>FUNERAL DIRECTOR'S CERTIFICATE</b>   | <b>FUNERAL DIRECTOR'S CERTIFICATE</b>   |   |  |
|   | I hereby certify that I have been employed as Funeral Director by _____ (Name of person in control of disposition)<br>of _____ (Address). This statement is made to obtain a disposition permit<br>for this fetus _____ (Signature of Funeral Director) (License No.)<br>Funeral Establishment _____ Business Registration No. _____<br>Address _____   |   |  |
|   | NAME OF CEMETERY OR CREMATORY (OR DESTINATION)  | CITY OR COUNTY AND STATE  | DATE OF DISPOSITION<br>(Month) (Day) (Year-yyyy)   |



# VITAL EVENT CERTIFICATES

VR-17  
(REV. 01/10)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE (Each question MUST be answered)  
**CONFIDENTIAL MEDICAL REPORT OF SPONTANEOUS TERMINATION OF PREGNANCY (2 of 2)**

Only for scientific purposes approved by the Commissioner. Not subject to compelled disclosure.

Mother/Parent Medical Record No. \_\_\_\_\_

CERTIFICATE NO. \_\_\_\_\_

**FOR GESTATION OF 20 WEEKS OR MORE: ALL ITEMS BELOW MUST BE COMPLETED (except OCME cases).**

| 31. PREGNANCY FACTORS (cont.)   |  |
|---|--|
| <b>b. Infection Present and/or Treated During Pregnancy</b><br>(Check all that apply) |  |
| <input type="checkbox"/> Gonorrhea  | <input type="checkbox"/> Tuberculosis                        |
| <input type="checkbox"/> Syphilis   | <input type="checkbox"/> Rubella                             |
| <input type="checkbox"/> Herpes Simplex (HSV)   | <input type="checkbox"/> Cytomegalovirus                     |
| <input type="checkbox"/> Chlamydia  | <input type="checkbox"/> Parvovirus                          |
| <input type="checkbox"/> Bacterial Vaginosis  | <input type="checkbox"/> Toxoplasmosis                       |
| <input type="checkbox"/> Hepatitis B  | <input type="checkbox"/> Other                               |
| <input type="checkbox"/> Hepatitis C  | <input type="checkbox"/> None                                |
| <input type="checkbox"/> Listeria   | <input type="checkbox"/> Unknown                             |
| <input type="checkbox"/> Group B Strep  |  |
| 32. DELIVERY  |  |
| <b>a. Method of Delivery</b>  |  |
| 1. Was delivery with forceps attempted but unsuccessful?                              |  |
| <input type="checkbox"/> Attempted and successful                                     | <input type="checkbox"/> Attempted and unsuccessful          |
| <input type="checkbox"/> Forceps were not used  | <input type="checkbox"/> Unknown                             |
| 2. Was delivery with vacuum extraction attempted but unsuccessful?                    |  |
| <input type="checkbox"/> Attempted and successful                                     | <input type="checkbox"/> Attempted and unsuccessful          |
| <input type="checkbox"/> Vacuum extraction was not used                               | <input type="checkbox"/> Unknown                             |
| 3. Fetal presentation at delivery   |  |
| <input type="checkbox"/> Cephalic   |  |
| <input type="checkbox"/> Breech   |  |
| <input type="checkbox"/> Other  |  |
| <input type="checkbox"/> Unknown  |  |
| 4. Final route and method of delivery<br>(Check <b>one</b> )                          |  |
| <input type="checkbox"/> Vaginal/Spontaneous  |  |
| <input type="checkbox"/> Vaginal/Forceps  |  |
| <input type="checkbox"/> Vaginal/Vacuum   |  |
| Vaginal delivery after a previous C-section?  |  |
| <input type="checkbox"/> Yes  | <input type="checkbox"/> No <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Primary Cesarean   |  |
| <input type="checkbox"/> Repeat Cesarean  |  |
| If cesarean, was a trial of labor attempted?  |  |
| <input type="checkbox"/> Yes  | <input type="checkbox"/> No <input type="checkbox"/> Unknown |
| 5. Hysterotomy/Hysterectomy   |  |
| <input type="checkbox"/> Yes  | <input type="checkbox"/> No <input type="checkbox"/> Unknown |

| <b>b. Maternal Morbidity</b> (Check all that apply)<br>(Complications associated with labor and delivery) |  |
|---|--|
| <input type="checkbox"/> Maternal transfusion   |  |
| <input type="checkbox"/> Third or fourth degree perineal laceration                                       |  |
| <input type="checkbox"/> Ruptured uterus  |  |
| <input type="checkbox"/> Unplanned hysterectomy   |  |
| <input type="checkbox"/> Admission to intensive care unit   |  |
| <input type="checkbox"/> Unplanned operating room procedure following delivery                            |  |
| <input type="checkbox"/> Hemorrhage   |  |
| <input type="checkbox"/> Postpartum transfer to a higher level of care                                    |  |
| <input type="checkbox"/> Other  |  |
| <input type="checkbox"/> None   |  |
| <input type="checkbox"/> Unknown  |  |
| <b>c. Was mother transferred for maternal medical or fetal indication prior to delivery?</b>              |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown                 |  |
| If yes, name of facility transferred from:<br>_____   |  |
| 33. FETAL ATTRIBUTES  |  |
| <b>a. Weight of Fetus</b> (grams preferred, specify unit)   |  |
| _____ <input type="checkbox"/> lb/oz _____ <input type="checkbox"/> grams                                 |  |
| <b>b. Estimated Time of Fetal Death</b>   |  |
| <input type="checkbox"/> Death at time of first assessment, no labor ongoing                              |  |
| <input type="checkbox"/> Death at time of first assessment, labor ongoing                                 |  |
| <input type="checkbox"/> Died during labor, after first assessment  |  |
| <input type="checkbox"/> Unknown time of fetal death  |  |
| <b>c. Was an autopsy performed?</b>   |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned                 |  |
| <b>d. Was a histological placental examination performed?</b>   |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned                 |  |

|  |
|--|
| <b>e. Were autopsy or histological placental examination results used in determining the cause of fetal death?</b> |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown                          |
| <b>f. Congenital Anomalies of the Fetus</b><br>(Check all that apply)  |
| <input type="checkbox"/> Anencephaly   |
| <input type="checkbox"/> Meningomyelocele/Spina bifida   |
| <input type="checkbox"/> Cyanotic congenital heart disease   |
| <input type="checkbox"/> Congenital diaphragmatic hernia   |
| <input type="checkbox"/> Omphalocele   |
| <input type="checkbox"/> Gastroschisis   |
| <input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes)            |
| <input type="checkbox"/> Cleft lip with or without cleft palate  |
| <input type="checkbox"/> Cleft palate alone  |
| <input type="checkbox"/> Down syndrome   |
| <input type="checkbox"/> Karyotype confirmed   |
| <input type="checkbox"/> Karyotype pending   |
| <input type="checkbox"/> Suspected chromosomal disorder  |
| <input type="checkbox"/> Karyotype confirmed   |
| <input type="checkbox"/> Karyotype pending   |
| <input type="checkbox"/> Hypospadias   |
| <input type="checkbox"/> Other   |
| <input type="checkbox"/> None  |
| <input type="checkbox"/> Unknown   |

# VITAL EVENT CERTIFICATES

DATE FILED  
(For Health Dept. Use Only)

## THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE CERTIFICATE OF INDUCED TERMINATION OF PREGNANCY

Use this form **ONLY** for induced terminations whether surgical or medical.  
Only for scientific purposes approved by the Commissioner; not subject to compelled disclosure.

CERTIFICATE NO.  
(For Health Dept. Use Only)

| <b>FACILITY</b>   | 1. DATE OF PROCEDURE FOR TERMINATION (Month) (Day) (Year-yyyy)  |   | 2. FACILITY TYPE   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|---|---|---|--|---|--|--------------------------|--------------------------|------------------|--------------------------|--------------------------|---------|--------------------------|--------------------------|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|--------------------------|--------------------------|--------------|--------------------------|--------------------------|------------------------------|--------------------------|--------------------------|---------|--------------------------|--------------------------|----------------|--------------------------|--------------------------|---|--|
|   | 3A. FACILITY NAME   |   | <input type="checkbox"/> Hospital <span style="margin-left: 150px;"><input type="checkbox"/> Shared Facility</span><br><input type="checkbox"/> Clinic (Article 28) <span style="margin-left: 150px;"><input type="checkbox"/> Doctor's Office</span><br><input type="checkbox"/> Clinic (non-Article 28) <span style="margin-left: 150px;"><input type="checkbox"/> Unknown</span><br><input type="checkbox"/> Other type _____ |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | 3B. FACILITY ADDRESS<br>Street Number and Name _____ Apt. #, Suite #, etc. _____  |   | 4. PRIMARY FINANCIAL COVERAGE THIS TERMINATION   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | City or Town _____ County _____ State _____ Country _____ ZIP Code _____  |   | <input type="checkbox"/> Medicaid <span style="margin-left: 150px;"><input type="checkbox"/> Self Pay</span><br><input type="checkbox"/> Other Govt. Insurance <span style="margin-left: 150px;"><input type="checkbox"/> Unknown</span><br><input type="checkbox"/> Private Insurance   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| <b>PATIENT</b>  | 5. PATIENT'S LEGAL NAME<br>First Name _____ Last Name _____<br><small>(First two letters) (First two letters)</small>   | 6. PATIENT'S DATE OF BIRTH (Month) (Day) (Year-yyyy)  | 7. PATIENT'S BIRTHPLACE<br>City or Town _____ State _____ Country _____  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | 8. NEVER LIVED IN UNITED STATES <input type="checkbox"/><br>If born outside of the United States, how long lived in U.S.? _____ (years)<br><br>Or if less than 1 year, _____ (months)   | 9. PATIENT'S USUAL RESIDENCE (COMPLETE ONLY ONE)  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   |   | <input type="checkbox"/> New York City ZIP Code _____<br><input type="checkbox"/> Manhattan <input type="checkbox"/> Bronx <input type="checkbox"/> Brooklyn <input type="checkbox"/> Queens <input type="checkbox"/> Staten Island<br><input type="checkbox"/> Unknown | <input type="checkbox"/> Outside NYS<br>(U.S. State) _____   | <input type="checkbox"/> New York State (Outside NYC)<br>City or Town _____ County _____ ZIP Code _____ | <input type="checkbox"/> Outside U.S.<br>(Foreign Country) _____ |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| <b>PATIENT ATTRIBUTES</b>   | 10. EDUCATION   |   | 11. ANCESTRY (CHECK ONE BOX AND SPECIFY)   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | <input type="checkbox"/> 8th grade or less; none<br><input type="checkbox"/> 9th–12th grade, no diploma<br><input type="checkbox"/> High school graduate or GED completed<br><input type="checkbox"/> Some college credit, but no degree  |   | <input type="checkbox"/> Spanish/Hispanic/Latino<br>Specify _____<br><input type="checkbox"/> NOT Spanish/Hispanic/Latino (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)<br>Specify _____<br><input type="checkbox"/> Unknown   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | 12. RACE<br>Race as defined by the U.S. Census. (Check one or more to indicate what the patient considers herself to be.)   |   | 13. MARITAL/PARTNERSHIP STATUS   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| <input type="checkbox"/> White<br><input type="checkbox"/> Black or African American<br><input type="checkbox"/> American Indian or Alaska Native (specify tribe) _____<br><input type="checkbox"/> Asian Indian  | <input type="checkbox"/> Chinese<br><input type="checkbox"/> Filipino<br><input type="checkbox"/> Japanese<br><input type="checkbox"/> Korean<br><input type="checkbox"/> Vietnamese<br><input type="checkbox"/> Samoan   | <input type="checkbox"/> Other Asian (specify) _____<br><input type="checkbox"/> Other Pacific Islander (specify) _____<br><input type="checkbox"/> Native Hawaiian<br><input type="checkbox"/> Guamanian or Chamorro<br><input type="checkbox"/> Unknown               | <input type="checkbox"/> Married<br><input type="checkbox"/> Domestic Partnership<br><input type="checkbox"/> Divorced<br><input type="checkbox"/> Married, but separated<br><input type="checkbox"/> Never Married<br><input type="checkbox"/> Widowed<br><input type="checkbox"/> Other, Specify _____<br><input type="checkbox"/> Unknown   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| 14. DATE LAST NORMAL MENSES BEGAN (Month) (Day) (Year-yyyy)   | 15. OBSTETRIC ESTIMATE OF GESTATION _____ completed weeks   | 16. PREVIOUS PREGNANCIES  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   |   | a. Total Number of Previous Live Births _____ <input type="checkbox"/> None   | d. Total Number of Other Pregnancy Outcomes _____ <input type="checkbox"/> None  | e. Number of Spontaneous Terminations _____ <input type="checkbox"/> None                               |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   |   | b. Born Alive Now Living _____ <input type="checkbox"/> None  | f. Number of Induced Terminations _____ <input type="checkbox"/> None  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   |   | c. Born Alive Now Dead _____ <input type="checkbox"/> None  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| <b>MEDICAL</b>  | 17A. PRIMARY PROCEDURE (CHECK ONLY ONE)   |   | 17B. ADDITIONAL PROCEDURES (CHECK ALL THAT APPLY)  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | <input type="checkbox"/> Suction Curettage<br><input type="checkbox"/> Sharp Curettage (D&C)<br><input type="checkbox"/> Dilation and Evacuation (D&E)<br><input type="checkbox"/> Intra-Uterine Instillation<br><input type="checkbox"/> Hysterotomy/Hysterectomy<br><input type="checkbox"/> Misoprostol  |   | <input type="checkbox"/> None<br><input type="checkbox"/> Suction Curettage<br><input type="checkbox"/> Sharp Curettage (D&C)<br><input type="checkbox"/> Dilation and Evacuation (D&E)<br><input type="checkbox"/> Intra-Uterine Instillation<br><input type="checkbox"/> Hysterotomy/Hysterectomy<br><input type="checkbox"/> Misoprostol  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | <input type="checkbox"/> Mifepristone and Misoprostol<br><input type="checkbox"/> Methotrexate and Misoprostol<br><input type="checkbox"/> Other Medical (nonsurgical)<br>Specify Medications _____<br><input type="checkbox"/> Other, Specify _____  |   | <input type="checkbox"/> Mifepristone and Misoprostol<br><input type="checkbox"/> Methotrexate and Misoprostol<br><input type="checkbox"/> Other Medical (nonsurgical)<br>Specify Medications _____<br><input type="checkbox"/> Other, Specify _____   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   | 18. CONTRACEPTIVES PROVIDED AT TIME OF PROCEDURE  |   | 19. ATTENDANT NAME AT TERMINATION: <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> NP <input type="checkbox"/> LIC. MIDWIFE   |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Did the patient receive any information/ counseling about contraceptives?   | Check all that apply  | _____<br><small>(First, Middle, Last, Suffix)</small>   |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did the patient receive any contraception at time of the procedure?<br><input type="checkbox"/> Yes, complete table →<br><input type="checkbox"/> No, follow-up appointment or referral was made for contraceptives<br><input type="checkbox"/> No, patient declined all contraceptive methods<br><input type="checkbox"/> No, other: _____ | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Placed/Given at Time of Procedure</th> <th>Prescribed at Time of Procedure</th> </tr> </thead> <tbody> <tr><td>Hormonal IUD</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Non-hormonal IUD</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Implant</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Injection</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Oral Contraceptive Pills</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Patch</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Vaginal Ring</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Emergency Contraceptive Pill</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Condoms</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Specify:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table> |   | Placed/Given at Time of Procedure  | Prescribed at Time of Procedure   | Hormonal IUD   | <input type="checkbox"/> | <input type="checkbox"/> | Non-hormonal IUD | <input type="checkbox"/> | <input type="checkbox"/> | Implant | <input type="checkbox"/> | <input type="checkbox"/> | Injection | <input type="checkbox"/> | <input type="checkbox"/> | Oral Contraceptive Pills | <input type="checkbox"/> | <input type="checkbox"/> | Patch | <input type="checkbox"/> | <input type="checkbox"/> | Vaginal Ring | <input type="checkbox"/> | <input type="checkbox"/> | Emergency Contraceptive Pill | <input type="checkbox"/> | <input type="checkbox"/> | Condoms | <input type="checkbox"/> | <input type="checkbox"/> | Other Specify: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> NP <input type="checkbox"/> LIC. MIDWIFE<br>_____<br>Signature of Certifier<br>_____<br>Name of Certifier<br>_____<br>Address<br>_____ / _____ / _____<br>License No. _____ Date _____ |  |
|   | Placed/Given at Time of Procedure   | Prescribed at Time of Procedure   |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Hormonal IUD  | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Non-hormonal IUD  | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Implant   | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Injection   | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Oral Contraceptive Pills  | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Patch   | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Vaginal Ring  | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Emergency Contraceptive Pill  | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Condoms   | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
| Other Specify:  | <input type="checkbox"/>  | <input type="checkbox"/>  |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |
|   |   | 20. CERTIFIER: I HEREBY CERTIFY THAT THIS EVENT OCCURRED AT THE TIME AND ON THE DATE INDICATED AND THAT ALL FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.   |  |   |  |                          |                          |                  |                          |                          |         |                          |                          |           |                          |                          |                          |                          |                          |       |                          |                          |              |                          |                          |                              |                          |                          |         |                          |                          |                |                          |                          |   |  |

VR-18  
(REV. 10/19)

