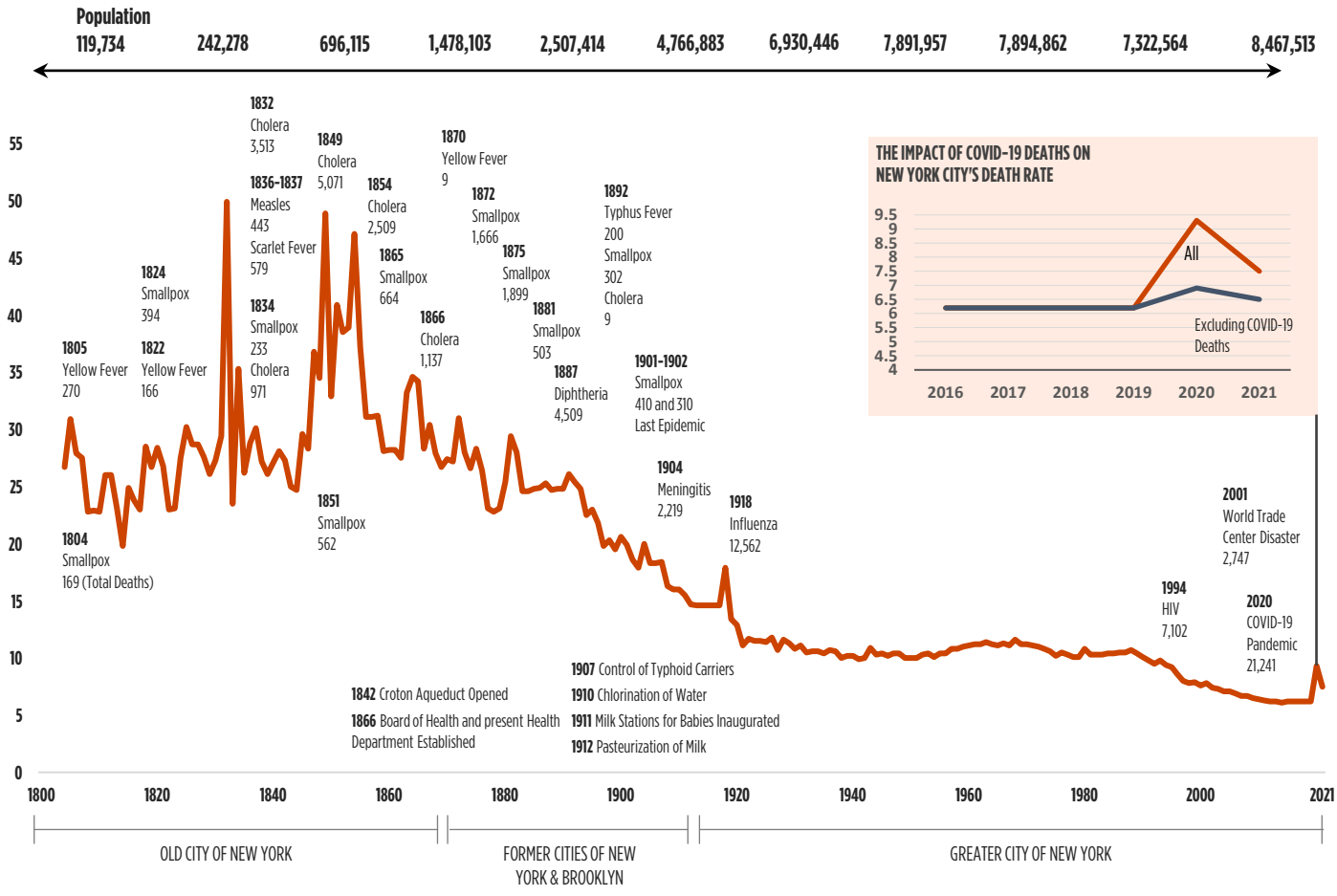
Summary of Vital Statistics 2021

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



Bureau of Vital Statistics, New York City Department of Health and Mental Hygiene
125 Worth Street, CN 7, New York, New York, 10013

NYC Health

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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NYC Health

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NEW YORK CITY DEPARTMENT OF
HEALTH AND MENTAL HYGIENE
Ashwin Vasan, MD, PhD
Commissioner

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

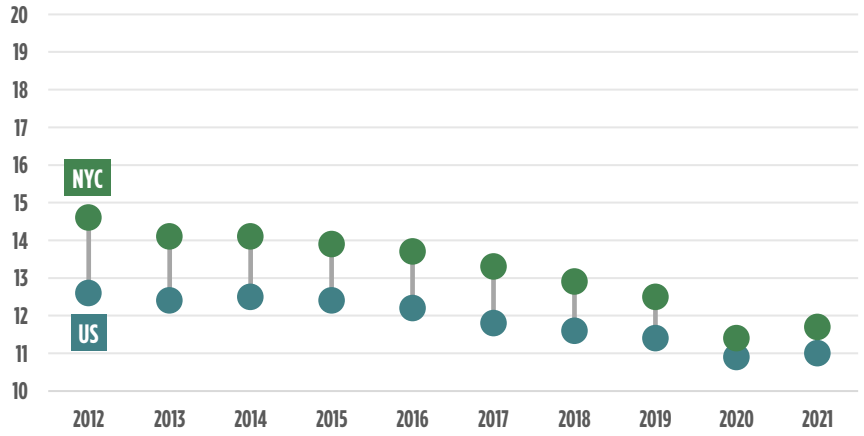
SUMMARY OF VITAL STATISTICS

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.

Pregnancy Outcomes

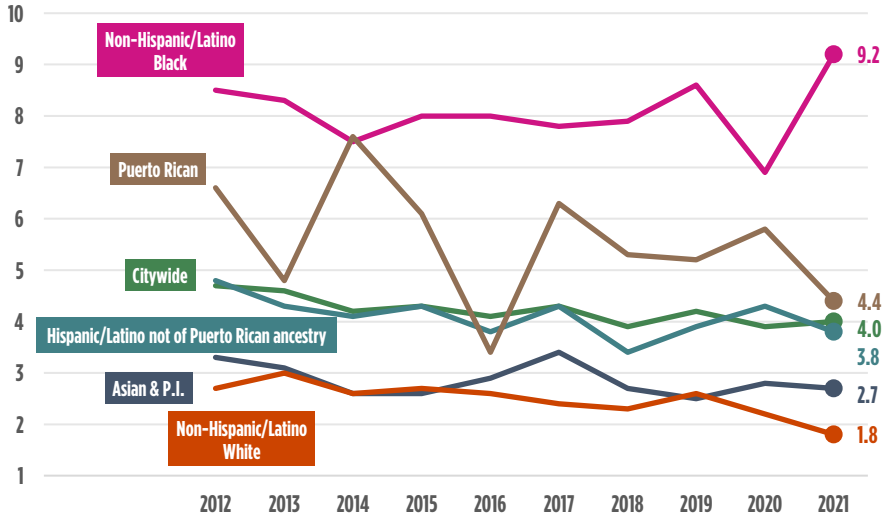
The 2021 citywide crude birth rate was 11.7 births per 1,000 population, an increase of 2.6% from 2020. New York City's birth rate has experienced a modest decrease in the past ten years, as has the United States' birth rate.



- 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.

Infant Mortality

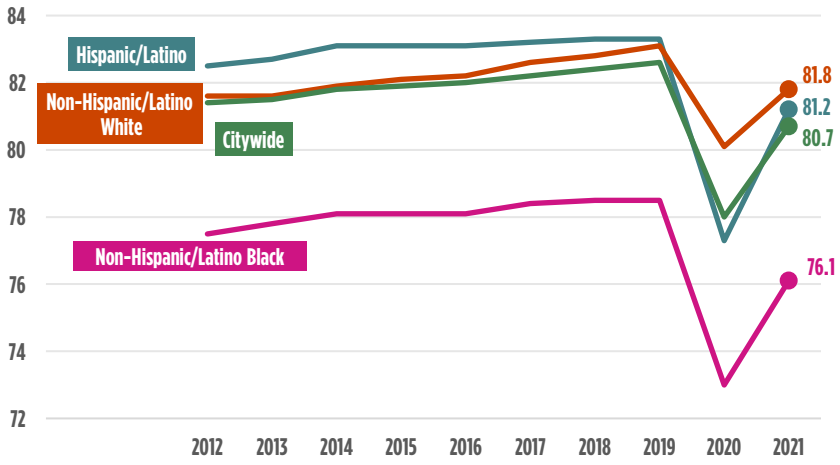
Infant mortality rates decreased from 2020 to 2021 among all racial/ethnic groups except for non-Hispanic/Latino Blacks, for which the rate increased by 33.3%.



- 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

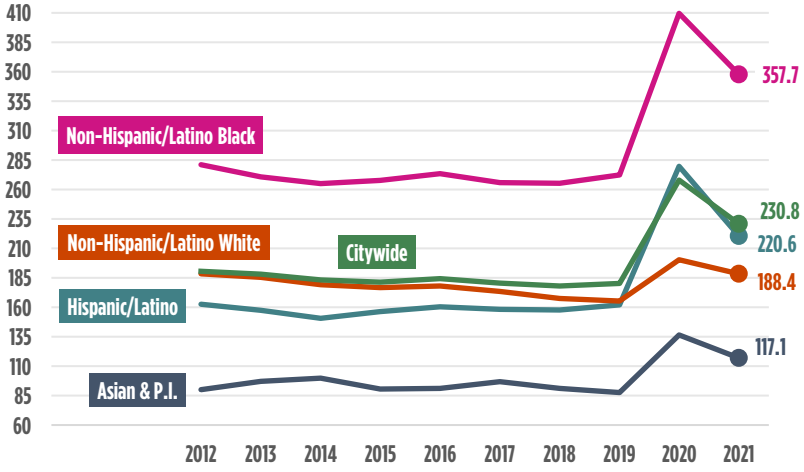
The New York City 2021 life expectancy at birth was 81.2 years among Hispanics/Latinos, 81.8 years among non-Hispanic/Latino Whites, and 76.1 years among non-Hispanic/Latino Blacks. Life expectancy for each racial/ethnic group increased since 2020.



Mortality

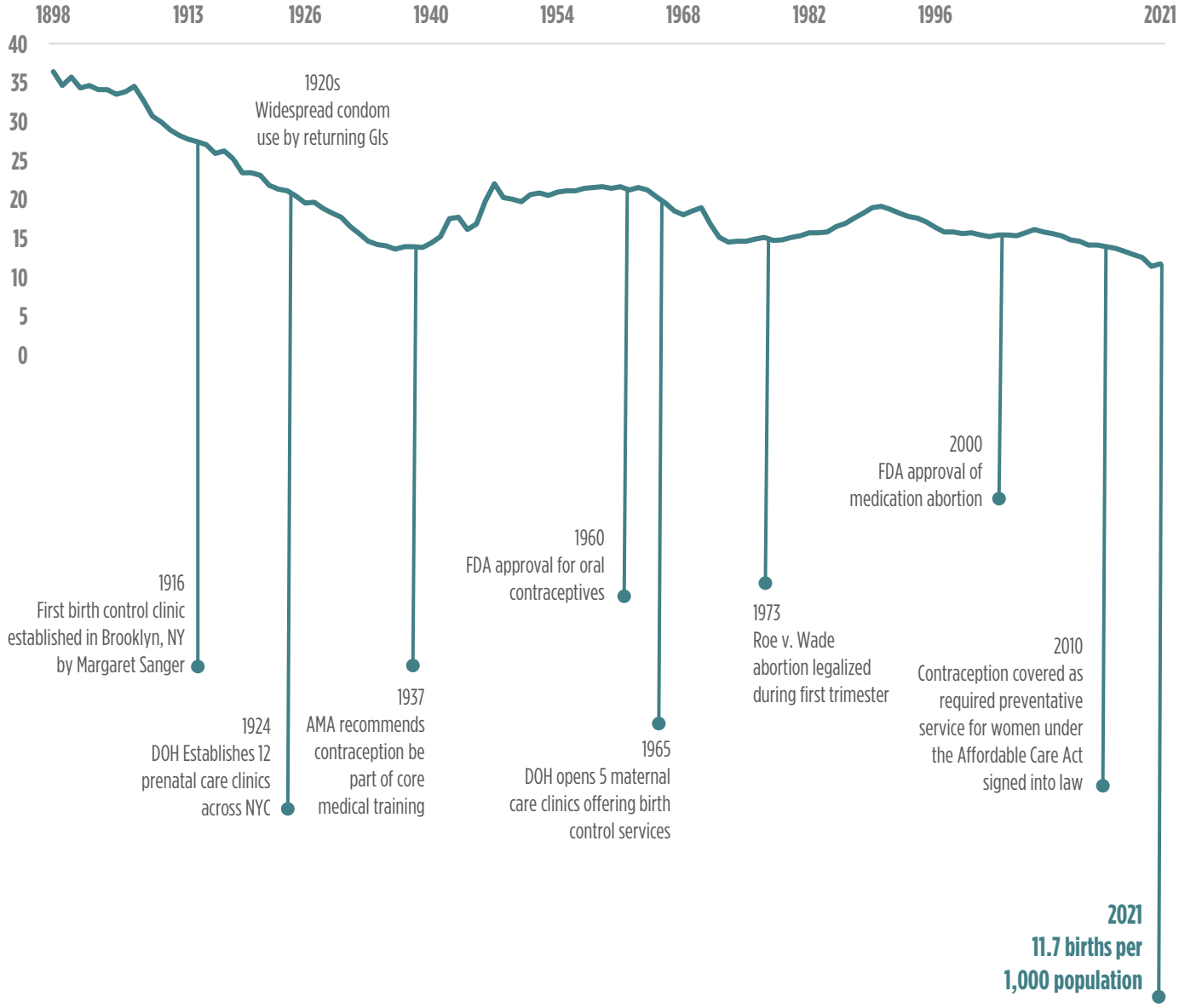
- The citywide age-adjusted death rate decreased since 2020, from 787.4 per 100,000 population in 2020, to 612.5 in 2021 (a 22.2% decrease).
- From 2020 to 2021, the age-adjusted death rate decreased among Hispanics/Latinos by 28.5%, among non-Hispanic/Latino Blacks by 25.1%, among non-Hispanic/Latino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

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%.



PREGNANCY OUTCOMES

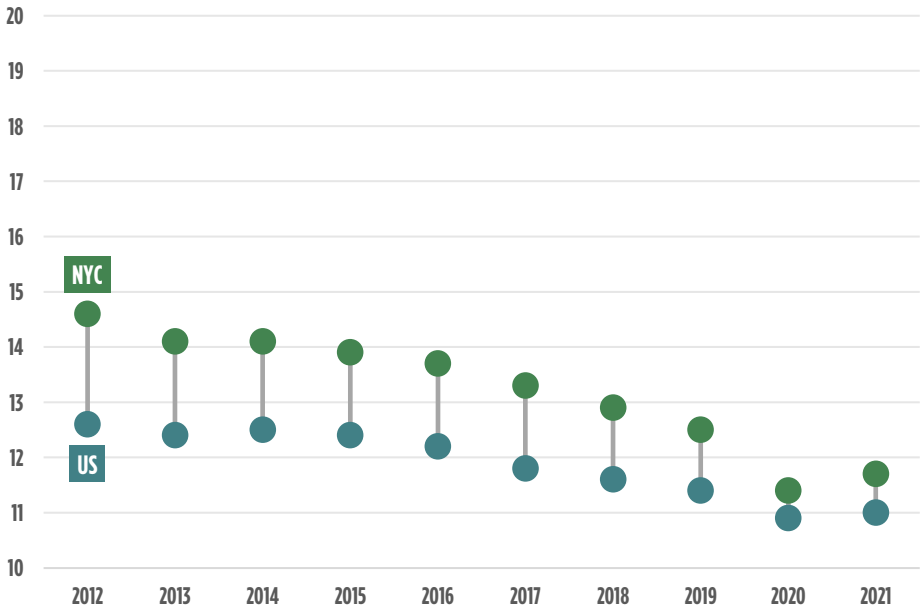
Birth Rate Per 1,000 Population Over Time



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.



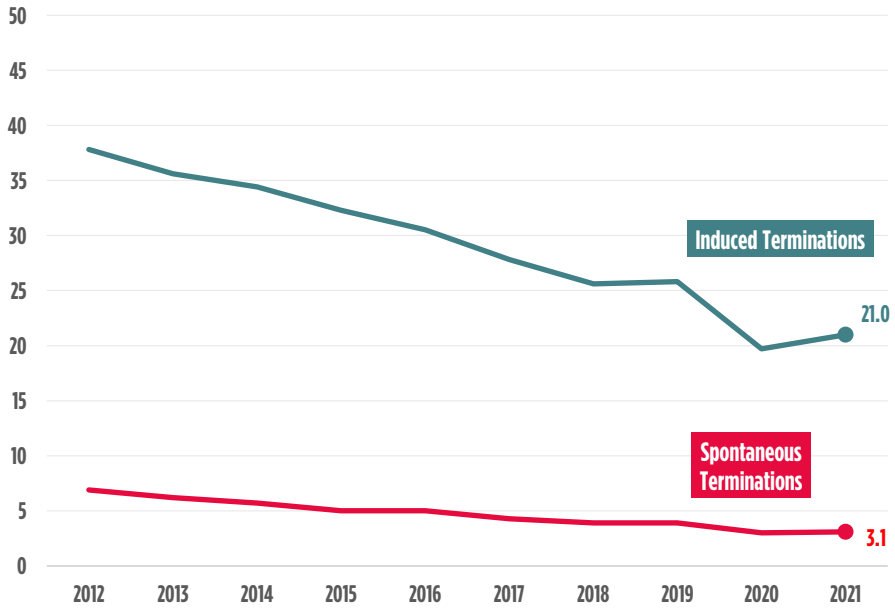
The 2021 citywide crude birth rate increased by 2.6% from 2020. It decreased by 19.9% since 2012.

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.

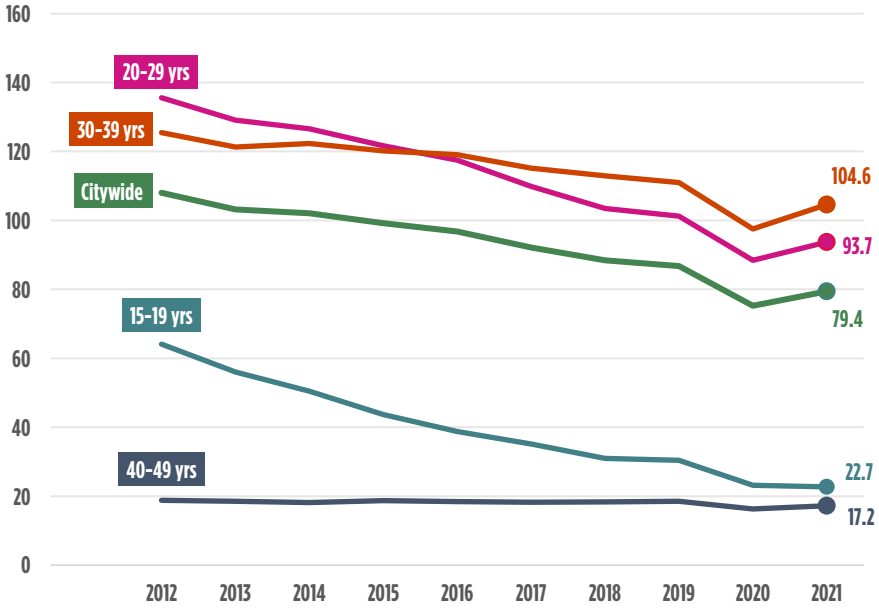
Changes in rates of spontaneous terminations of pregnancy may be due to variations in the reporting of these events by facilities rather than true changes in such events. For example, some facilities may fail to report very early gestational age spontaneous terminations. DOHMH continues to conduct outreach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

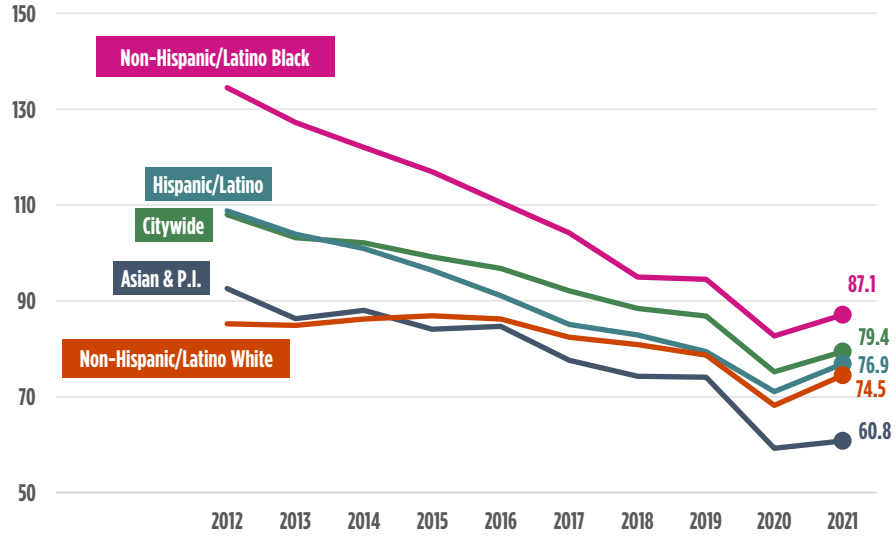
The second highest rate of pregnancy was for women aged 20 to 29 at 93.7, then women 15 to 19 years old and 40 to 49 years old, with pregnancy rates of 22.7 and 17.2, respectively.

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.



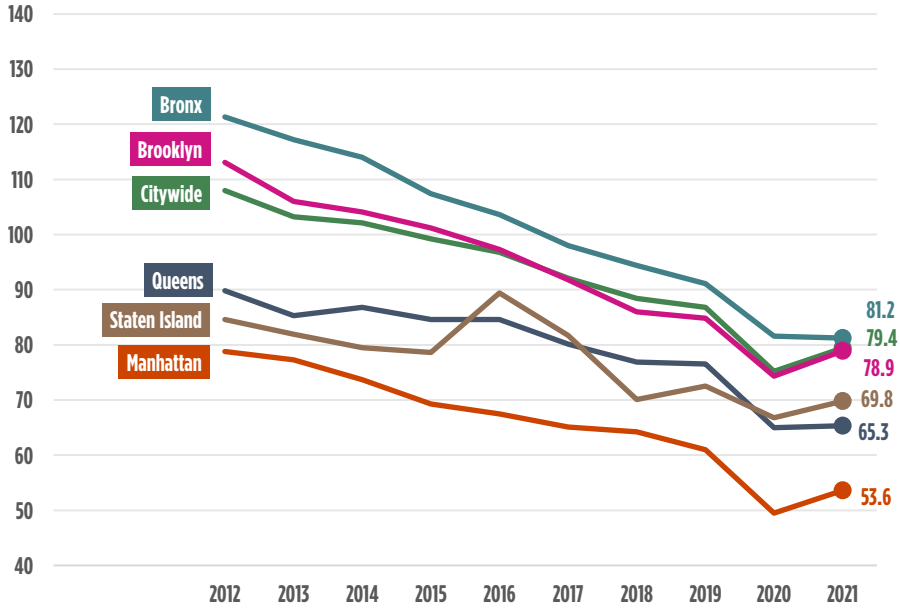
In 2021, the pregnancy rate was highest among non-Hispanic/Latino Blacks at 87.1 pregnancies per 1,000 females aged 15-44, followed by 76.9 among Hispanics/Latinos, 74.5 among non-Hispanic/Latino Whites, and 60.8 among Asians and Pacific Islanders.

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

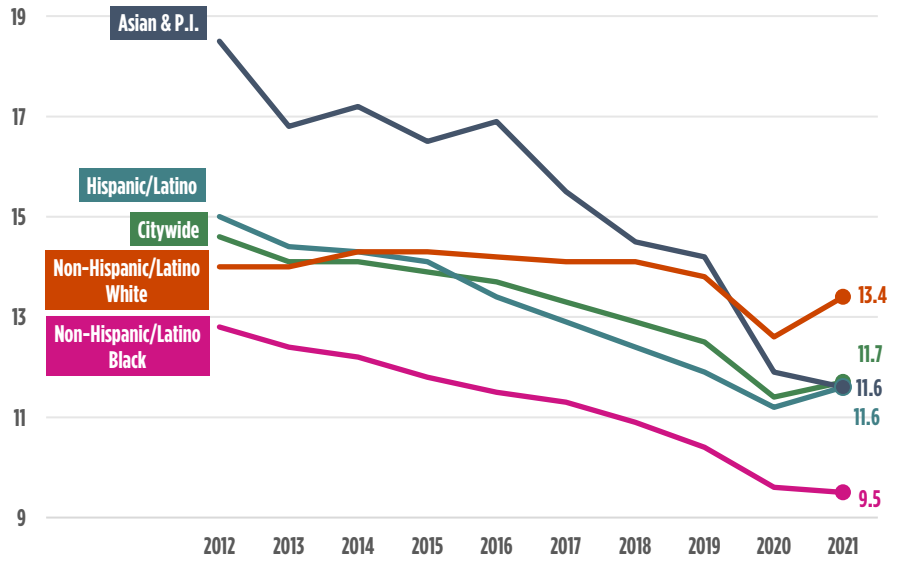
In 2021, the pregnancy rate in the Bronx continued to be the highest, at 81.2 pregnancies per 1,000 females aged 15-44, followed by Brooklyn at 78.9, Staten Island at 69.8, Queens at 65.3 and Manhattan at 53.6.



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.

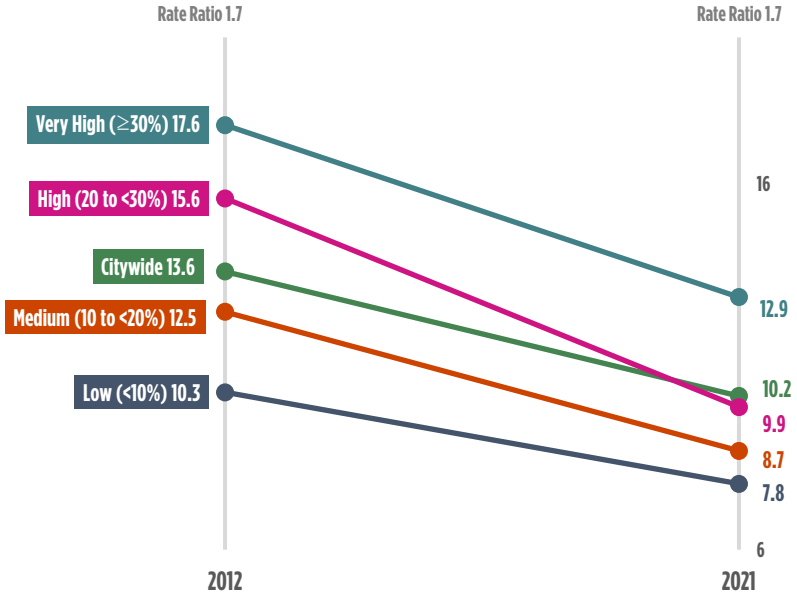


From 2020 to 2021, Asians and Pacific Islanders and non-Hispanic/Latino Blacks experienced a decline in birth rates- a 2.5% decline for Asians and Pacific Islanders and a 1.0% decline for non-Hispanic/Latino Blacks. Hispanics/Latinos and non-Hispanic/Latino Whites experienced an increase in birth rates-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

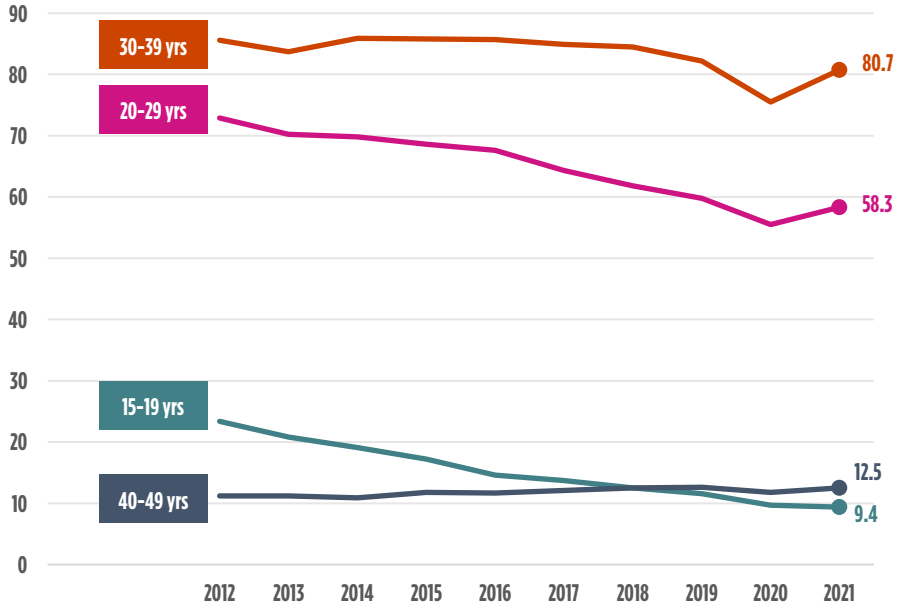
Since 2012, birth rates decreased across all categories of neighborhood poverty.

*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.



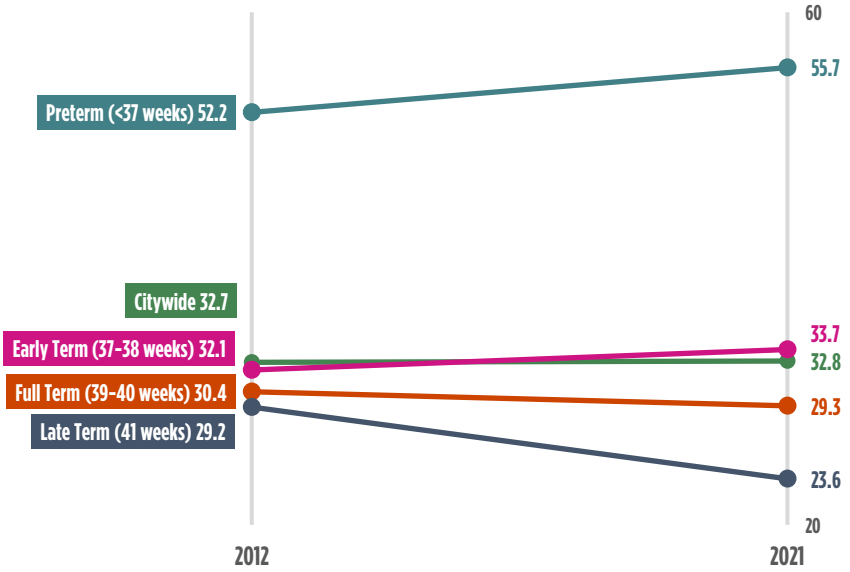
Since 2012, birth rates decreased among all age groups except for women aged 40-49 years old, for which the rate increased by 11.6%.

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).



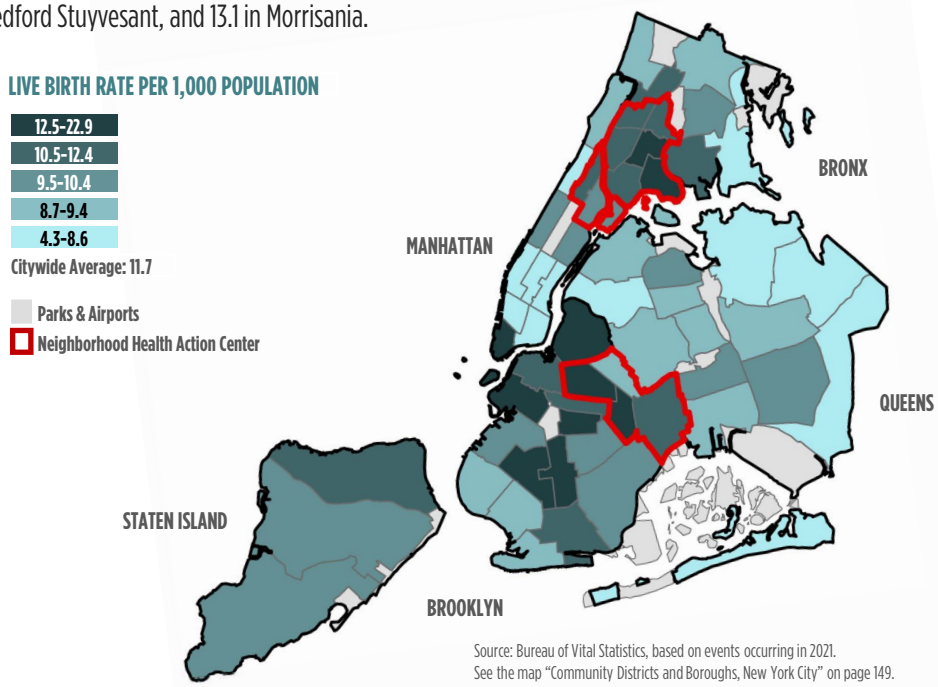
For both years, as gestational age increases, the percent of births delivered via Cesarean delivery decreases.

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.



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

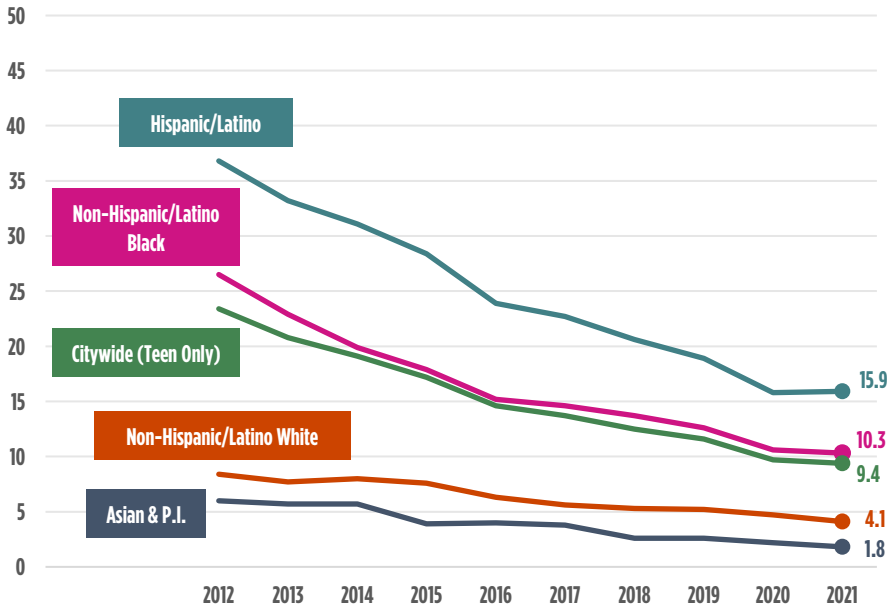
BROOKLYN	CD	Birth Rate
Borough Park	BK12	22.9
Williamsburg, Greenpoint	BK01	17.6
Bedford Stuyvesant	BK03	14.1
Park Slope	BK06	13.0
Brownsville	BK16	13.0
Crown Heights South	BK09	12.8
Flatbush, Midwood	BK14	12.5
East New York	BK05	11.8
Crown Heights North	BK08	11.4
Fort Greene, Brooklyn Heights	BK02	11.3
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.



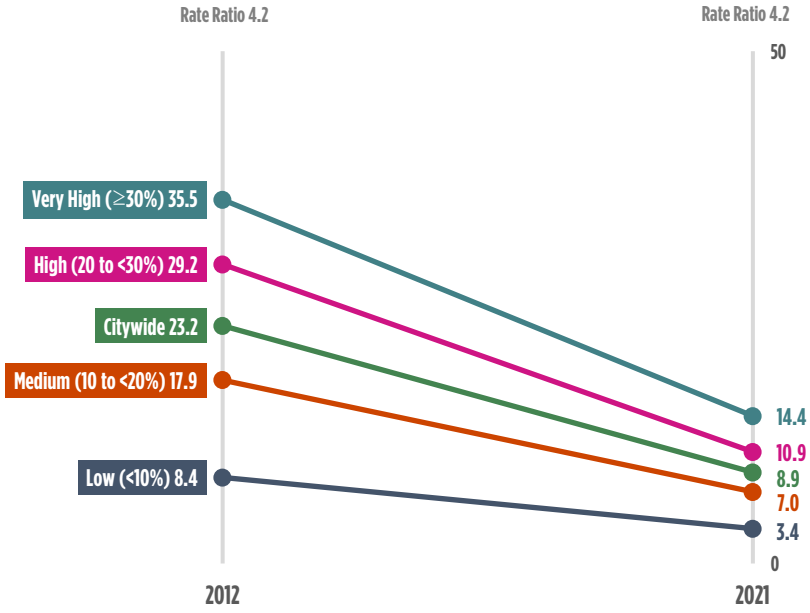
Teen birth rates also declined for all racial/ethnic groups: by 56.8% among Hispanics/Latinos, 61.1% among non-Hispanic/Latino Blacks, 51.2% among non-Hispanic/Latino Whites, and 70.0% among Asians and Pacific Islanders.

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.

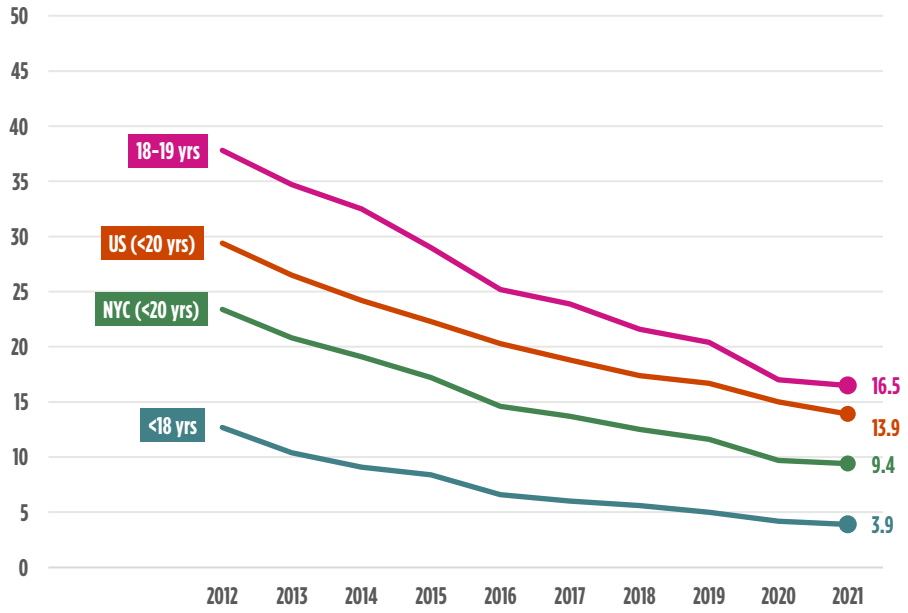
Teen birth rates remain comparatively high in the city's very high poverty neighborhoods. In 2021, the teen birth rate in very high poverty neighborhoods was 4.2 times that of low poverty neighborhoods; in 2012, it was also 4.2 times that of low poverty neighborhoods.

*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.



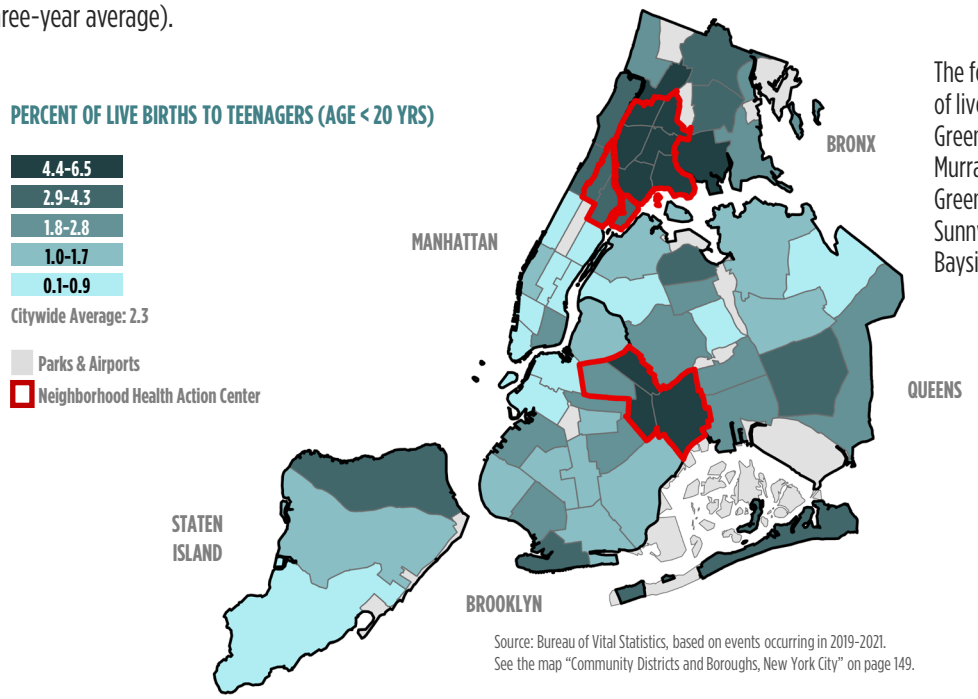
Among teens less than 18 years of age, the birth rate declined over this period by 69.3%; among women 18-19, it declined by 56.3%.

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).



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

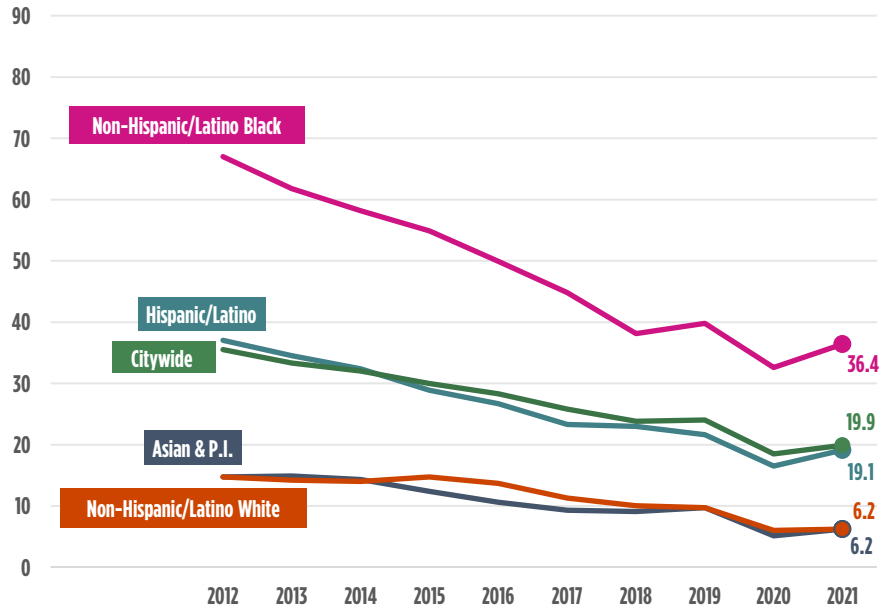
BROOKLYN	CD	Birth Percentage
Brownsville	BK16	6.1
Bushwick	BK04	5.4
East New York	BK05	4.5
Coney Island	BK13	3.2
East Flatbush	BK17	2.8
Bedford Stuyvesant	BK03	2.7
Crown Heights North	BK08	2.5
Sunset Park	BK07	2.3
Bensonhurst	BK11	1.9
Canarsie	BK18	1.7
Borough Park	BK12	1.5
Flatbush, Midwood	BK14	1.4
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.

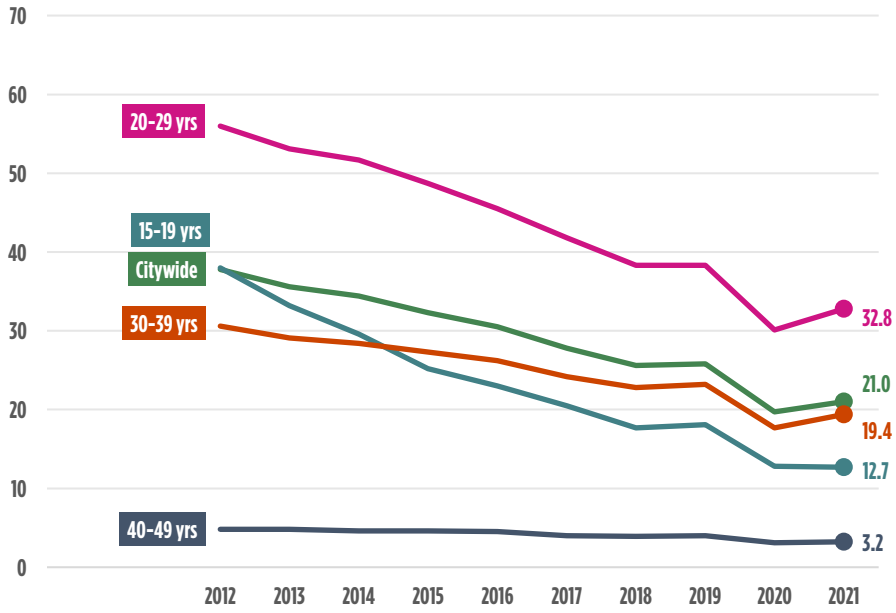


Similarly, age-adjusted rates among each racial/ethnic group declined: by 57.8% among Asians and Pacific Islanders and non-Hispanic/Latino Whites, by 48.4% among Hispanics/Latinos, and by 45.7% among non-Hispanic/Latino Blacks.

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.



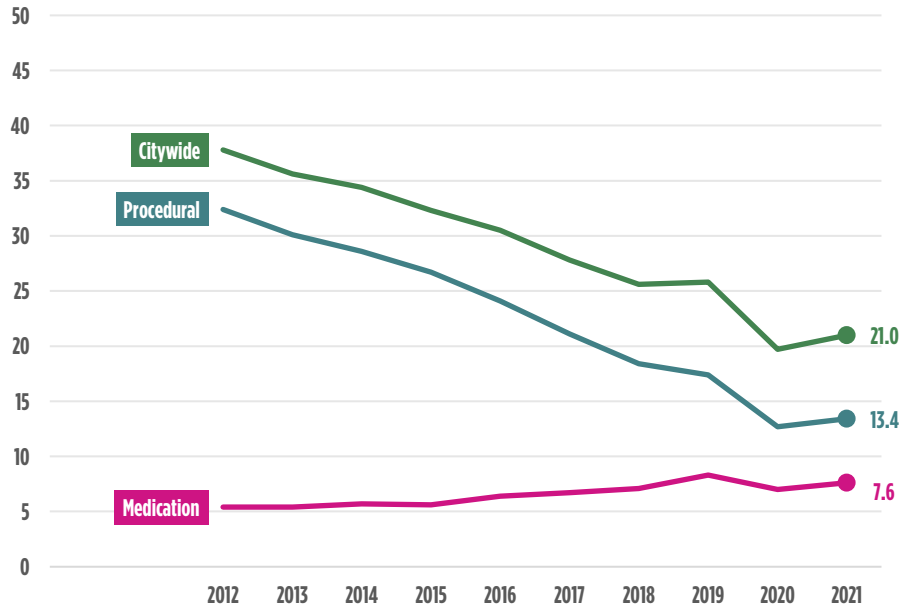
Since 2012, the age-specific rate declined 66.6% among teens (15 to 19 years of age), from 38.0 terminations per 1,000 females in 2012, to 12.7 in 2021. The rate declined by 41.4% among women 20 to 29 years of age, 36.6% among women 30 to 39 years of age and 33.3% among women 40 and older.

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.

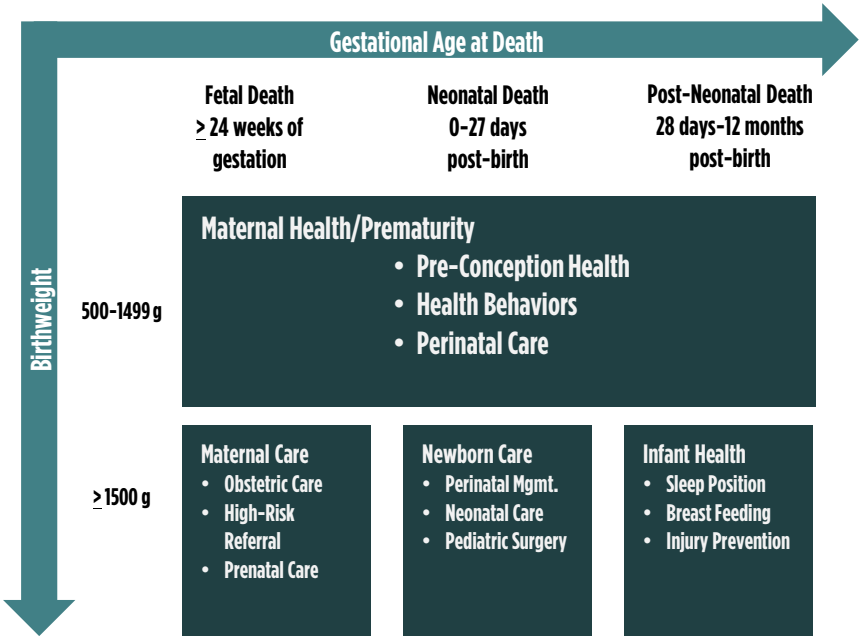


Medication-induced abortion, using mifepristone in combination with misoprostol, is termed a "medication abortion" and may be performed up to eleven weeks of gestation to terminate a pregnancy, in contrast to a procedural abortion, which may be performed later than eleven weeks of gestation. Medication 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.

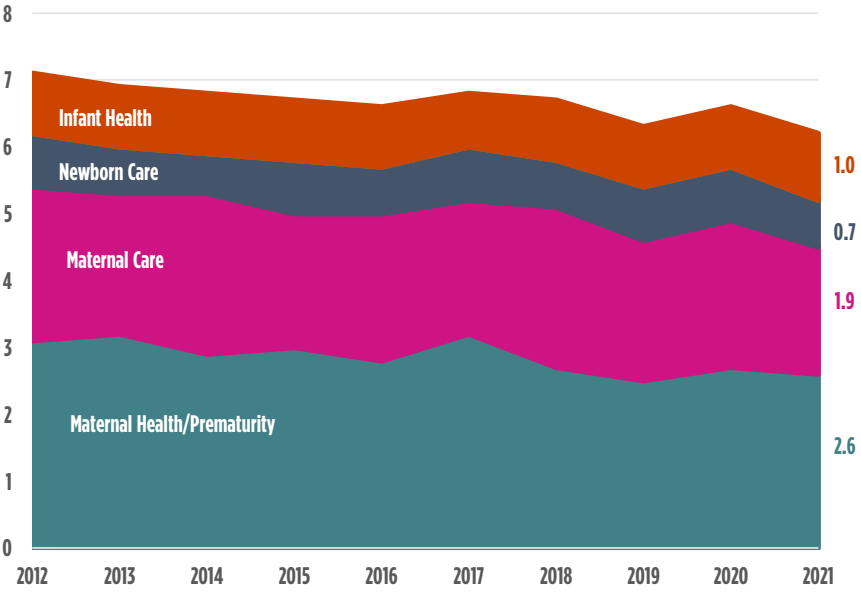
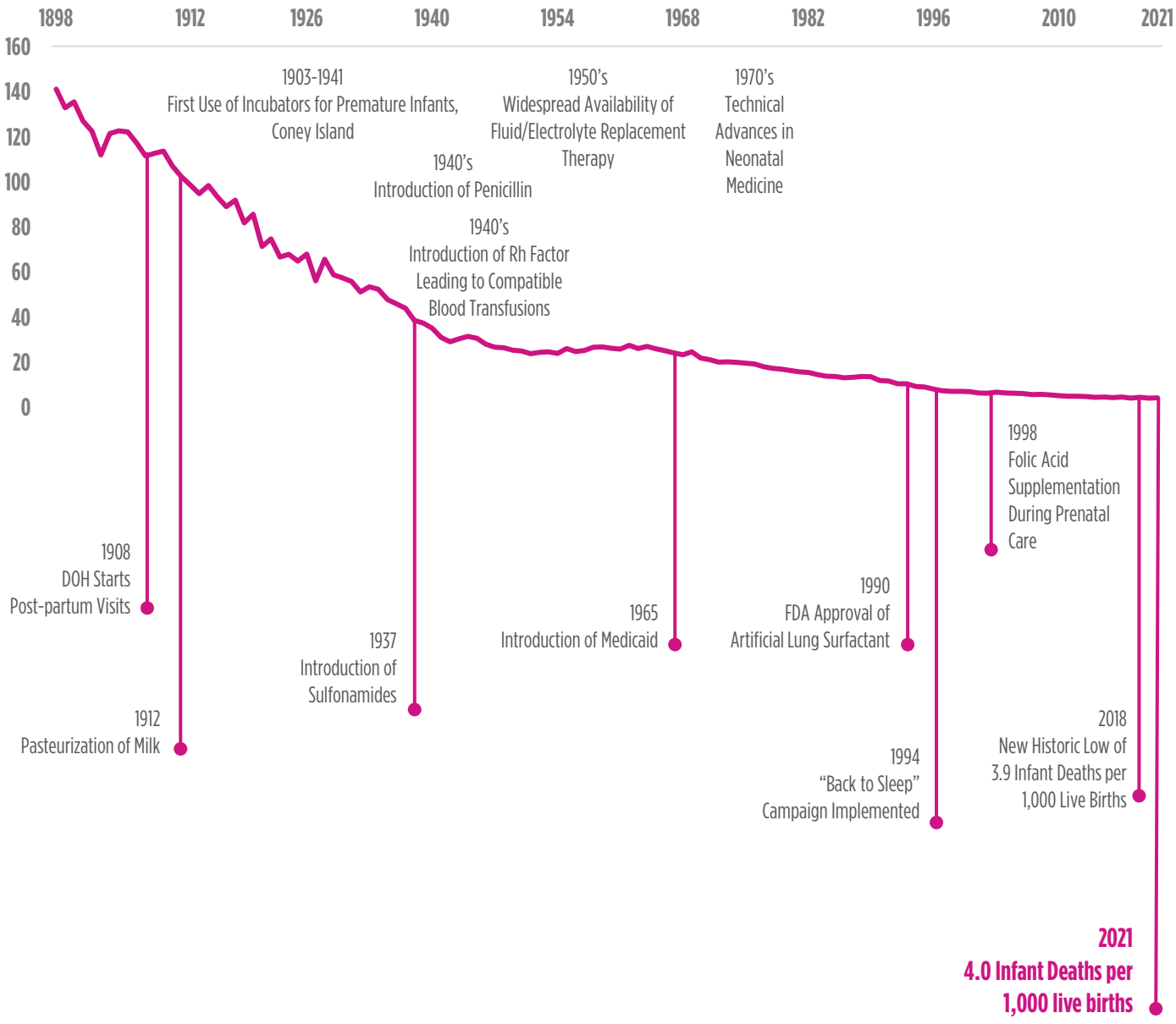


Figure 2 illustrates the relative contribution of risk factors to the overall FIMR. Refer to Figure 1 for specific risk factors. Deaths with a birthweight between 500 grams and 1,499 grams, and occurring at any gestational age or birth age, contributed 41.9% to the FIMR in 2021, indicating that prevention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

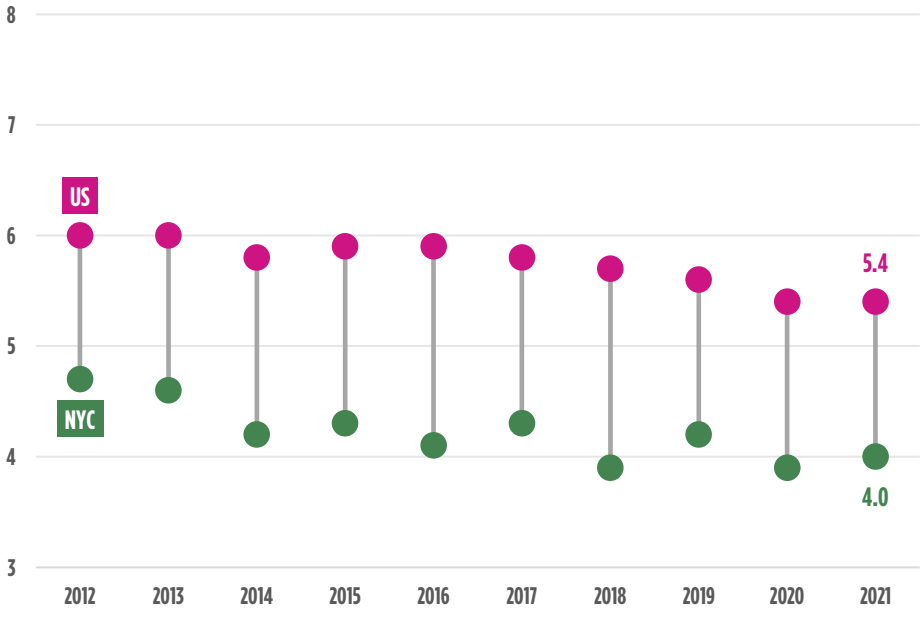
Infant Mortality Rate Per 1,000 Live Births Over Time



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).

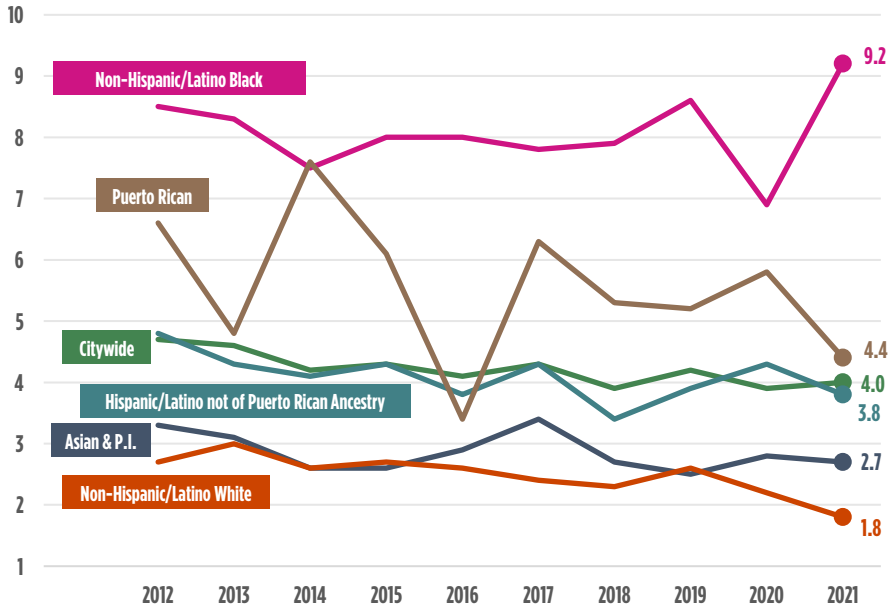


In 2021, New York City had an infant mortality rate of 4.0 infant deaths per 1,000 live births. This represents an increase of 2.6% from 2020 (3.9 infant deaths per 1,000 live births). The infant mortality rate may fluctuate from year to year due to the small number of infant deaths.

*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%.

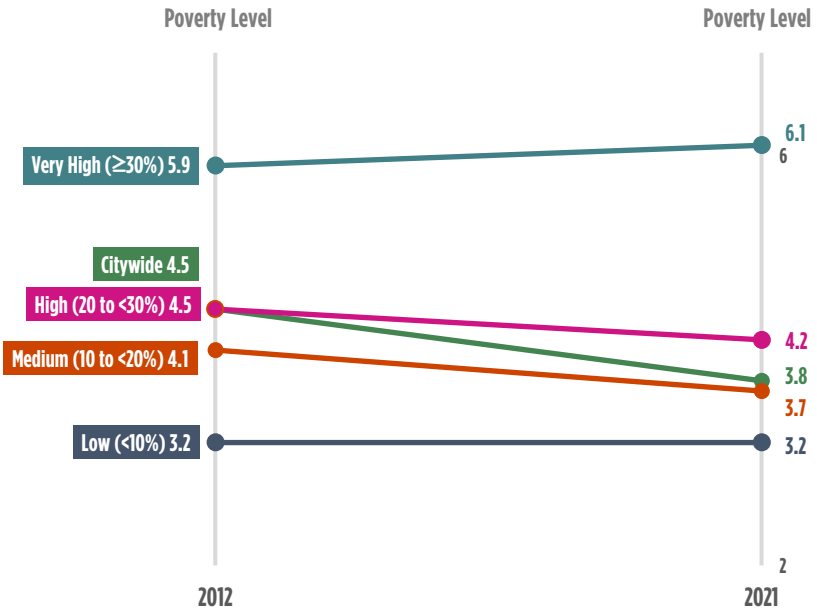


Although rates fluctuate due to small numbers, they are consistently higher among some groups: the rate for non-Hispanic/Latino Blacks was 5.1 times the rate for non-Hispanic/Latino Whites in 2021; the rate for Puerto Ricans was 2.4 times the rate for non-Hispanic/Latino Whites in 2021.

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.



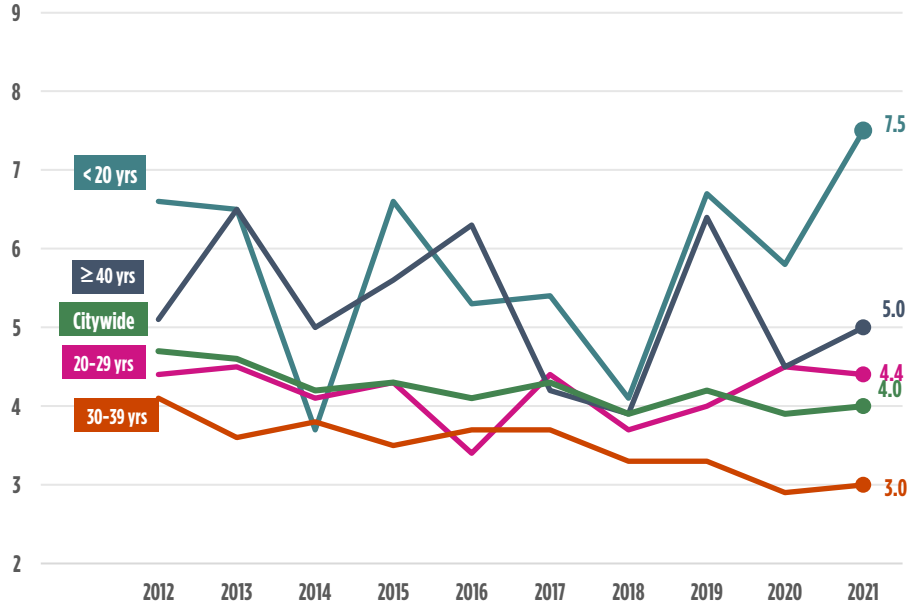
The infant mortality rate in very high poverty areas was 1.9 times the infant mortality rate in low poverty areas in 2021.

*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.

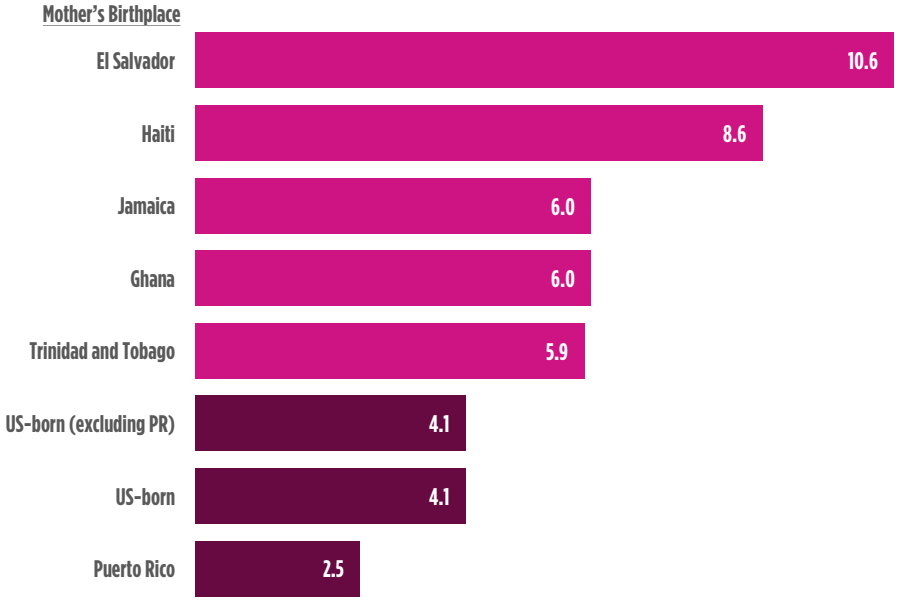


The infant mortality rate in New York City was highest among infants born to the youngest women (<20 years of age). In 2021, the rate among this group was 7.5 infant deaths per 1,000 live births (a 29.3% increase from 2020). In 2021, the infant mortality rate for women in the ≥40 age group was 5.0 infant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

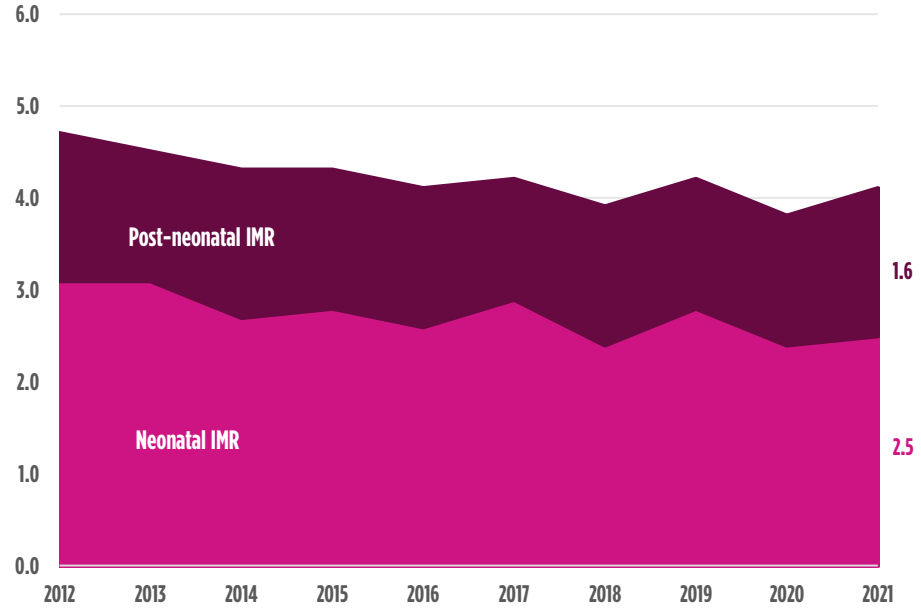


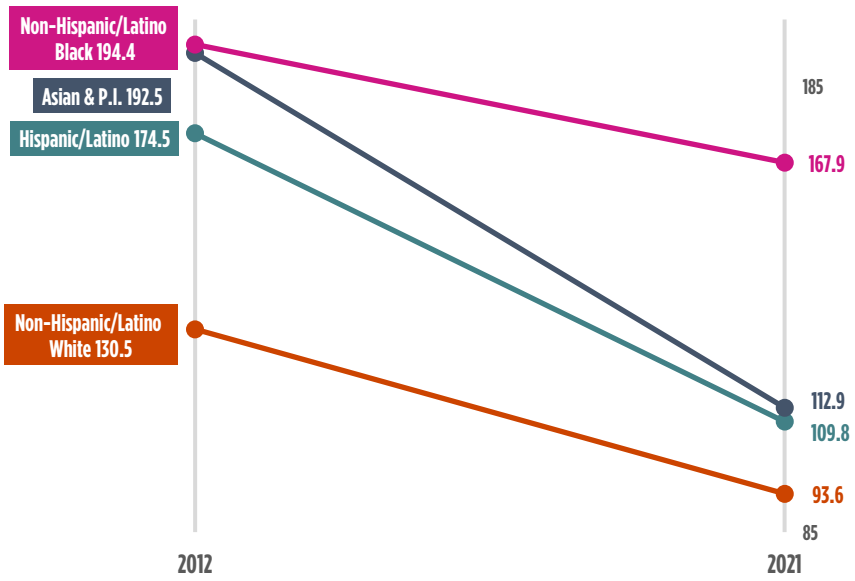
Figure 6 illustrates the share of the IMR that is attributable to neonatal and post-neonatal deaths. The share of the IMR attributable to neonatal deaths decreased from 65.7% in 2012 to 61.5% in 2021. The share of the IMR attributable to post-neonatal deaths increased from 34.3% in 2012 to 38.5% in 2021.

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.



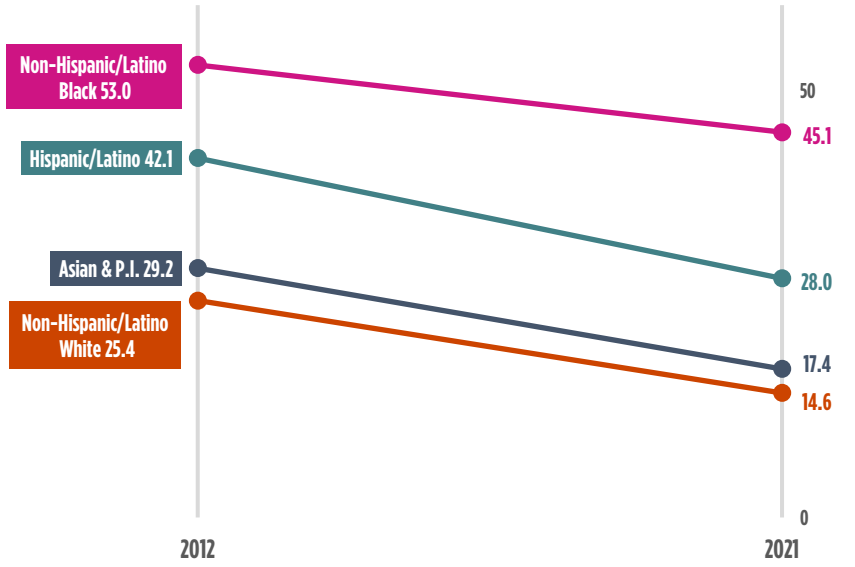
Among VLBW infants in 2021, the infant mortality rate was highest for non-Hispanic/Latino Blacks at 167.9 deaths per 1,000 live births, followed by Asians and Pacific Islanders (112.9), Hispanics/Latinos (109.8), and non-Hispanic/Latino Whites (93.6).

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.



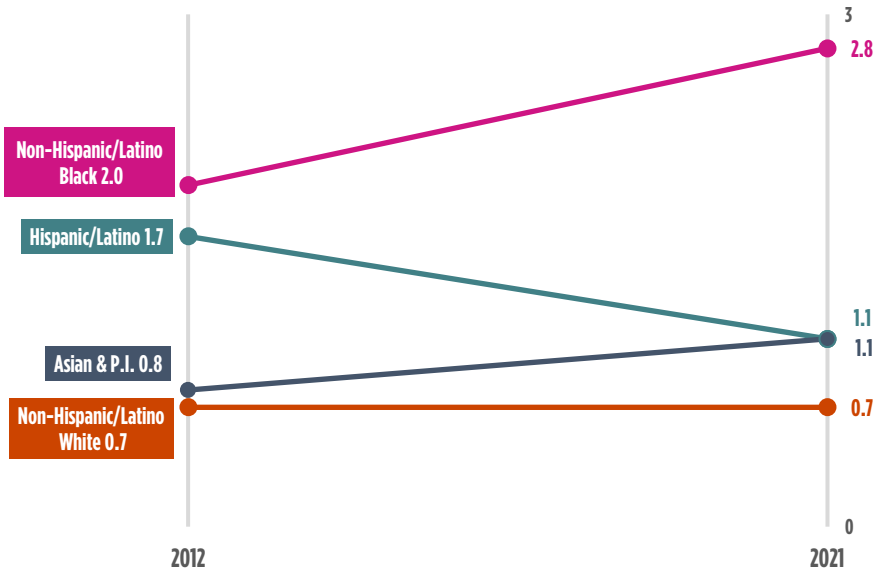
Among low birthweight infants in 2021, the infant mortality rate was highest for non-Hispanic/Latino Blacks at 45.1 deaths per 1,000 live births, 3.1 times that of non-Hispanic/Latino Whites (14.6).

*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 (≥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.



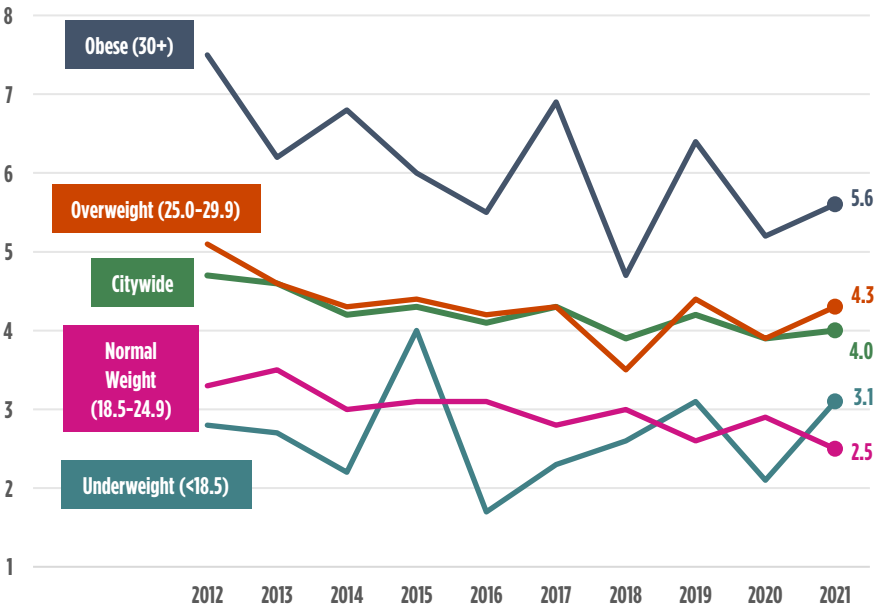
In 2021, non-Hispanic/Latino Black normal birthweight infants had an infant mortality rate of 2.8 infant deaths per 1,000 live births, followed by 1.1 for both Hispanic/Latinos and Asians and Pacific Islanders, and 0.7 for non-Hispanic/Latino Whites.

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.



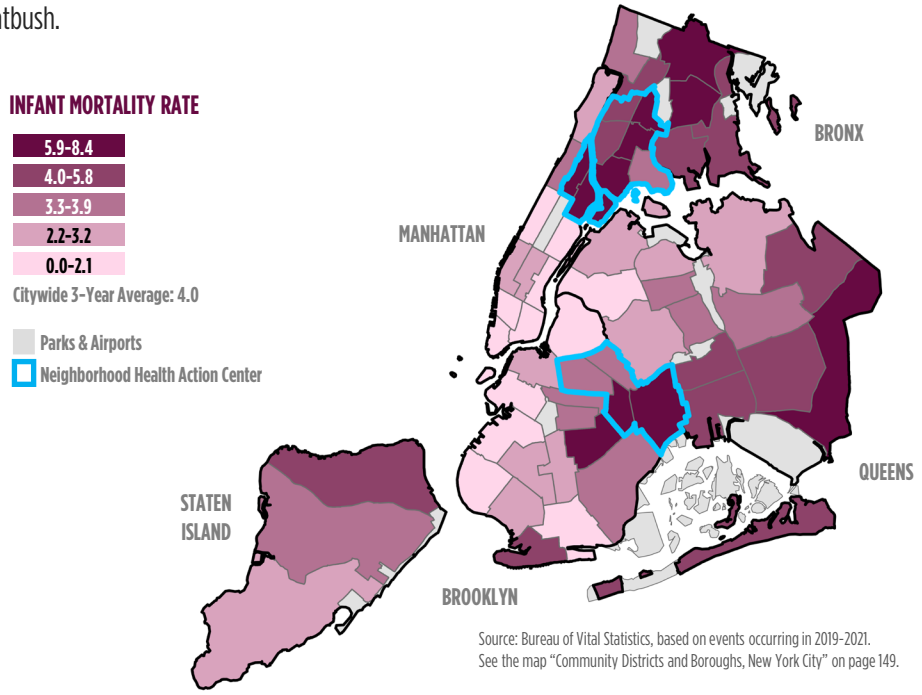
Rates fluctuate over time but are consistently higher among women with overweight and obese BMIs. The rate for women with an overweight BMI was 1.7 times the rate for women with a normal weight BMI in 2021; the rate for women with obesity was 2.2 times the rate for women with a normal weight BMI in 2021.

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.



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.

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	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

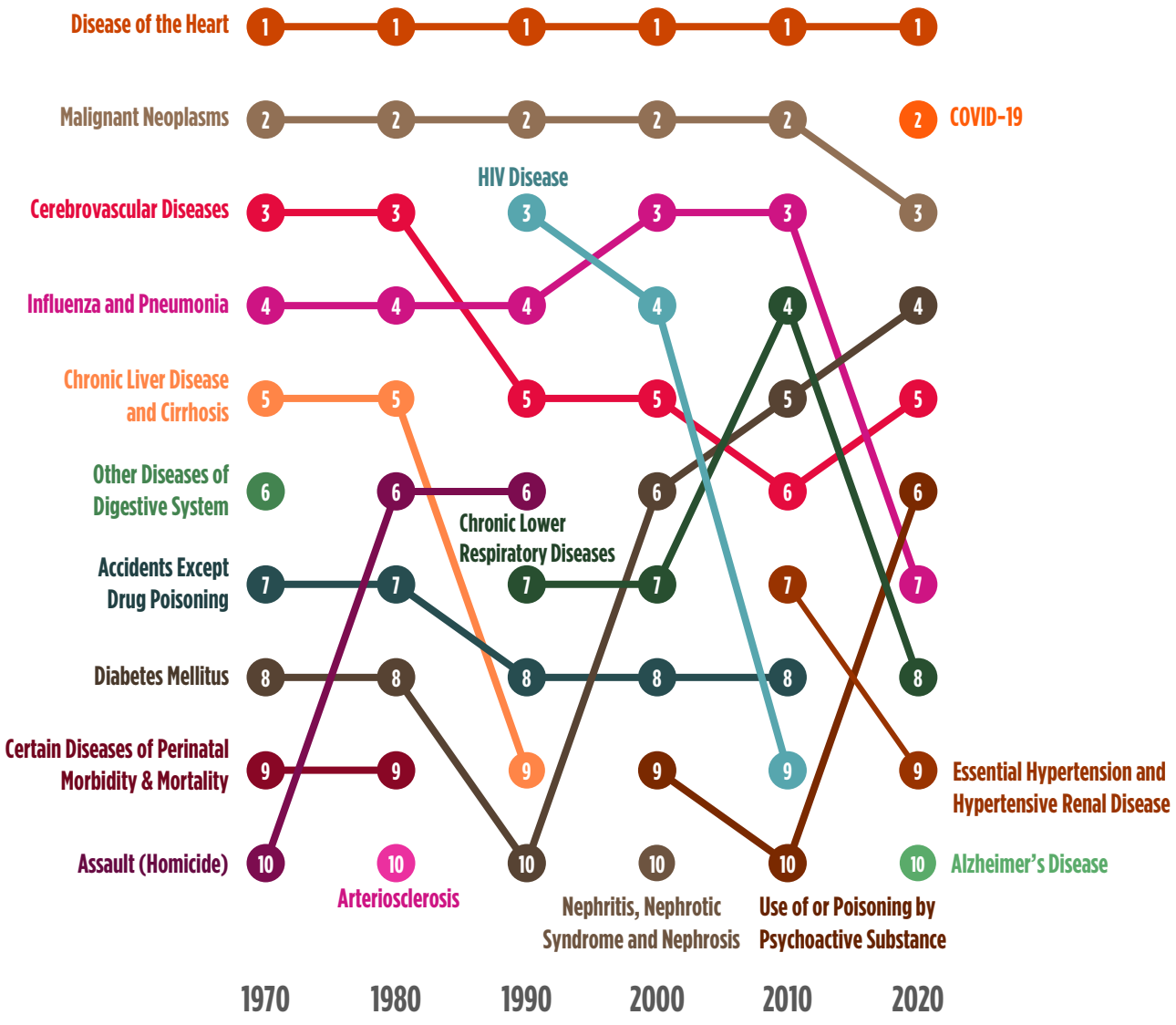
STATEN ISLAND	CD	IMR
Port Richmond	SI01	5.4
Willowbrook, South Beach	SI02	3.9
Tottenville	SI03	2.9

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

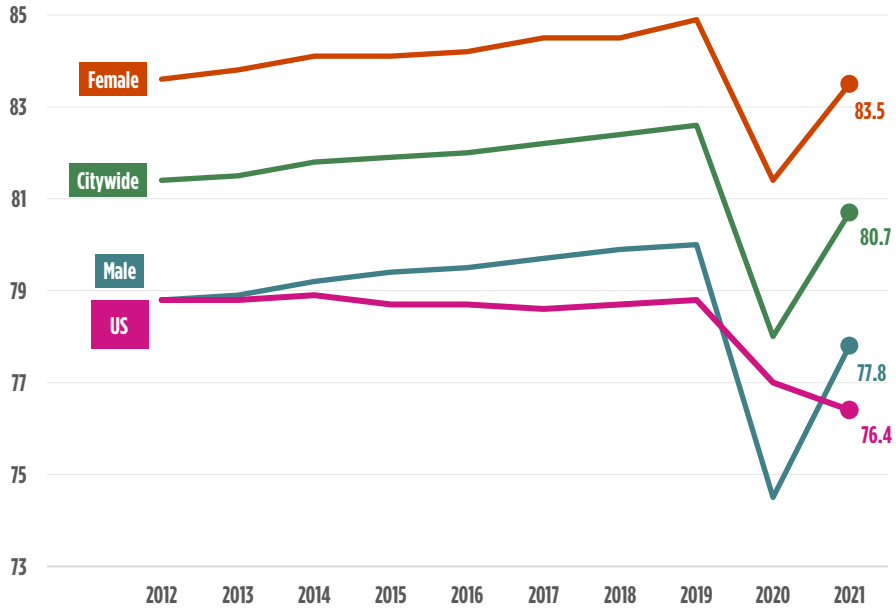
Leading Causes of Death (1970 – 2020), by rank



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.

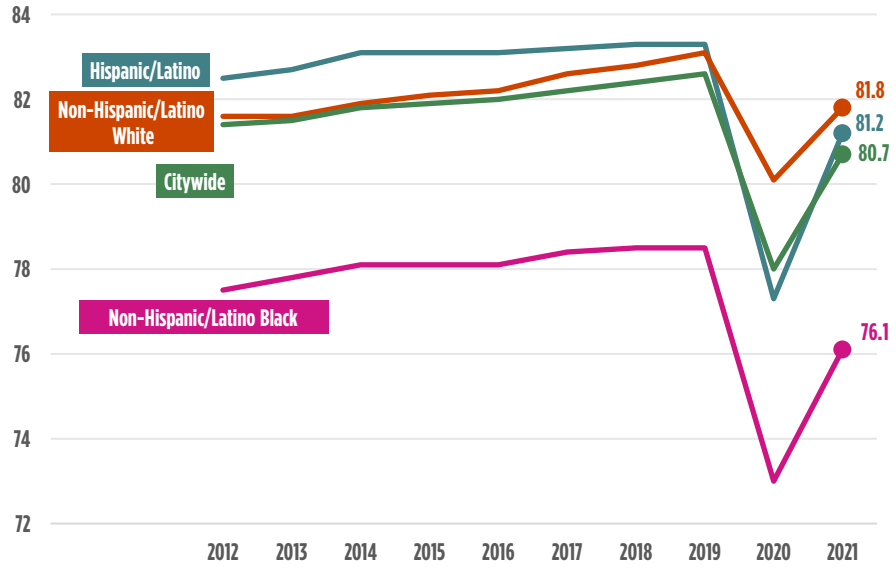
The life expectancy among females in New York City was 83.5 years, a 2.1-year increase since 2020.

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.



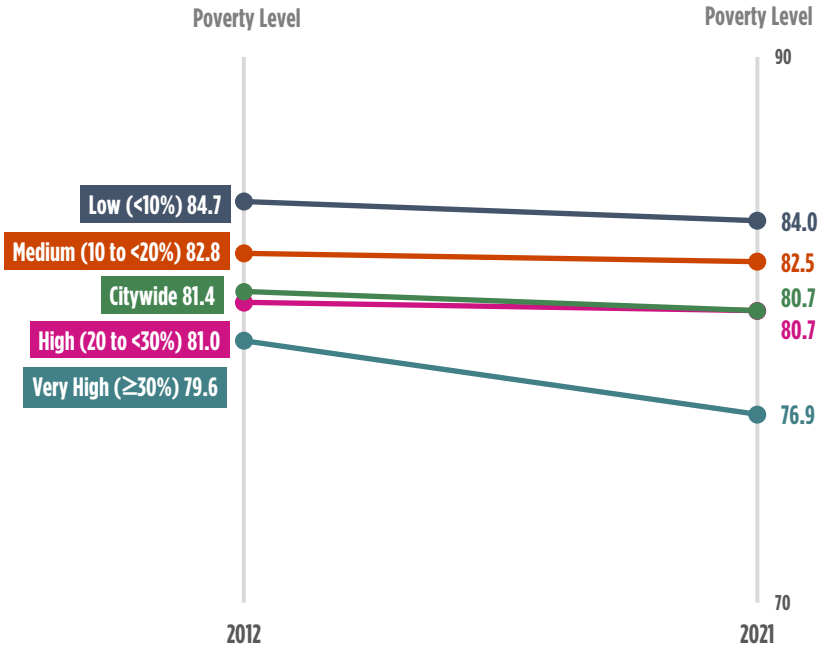
From 2020 to 2021, life expectancy increased by 3.1 years among non-Hispanic/Latino Blacks, 3.9 years among Hispanics/Latinos, and 1.7 years among non-Hispanic/Latino Whites.

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.

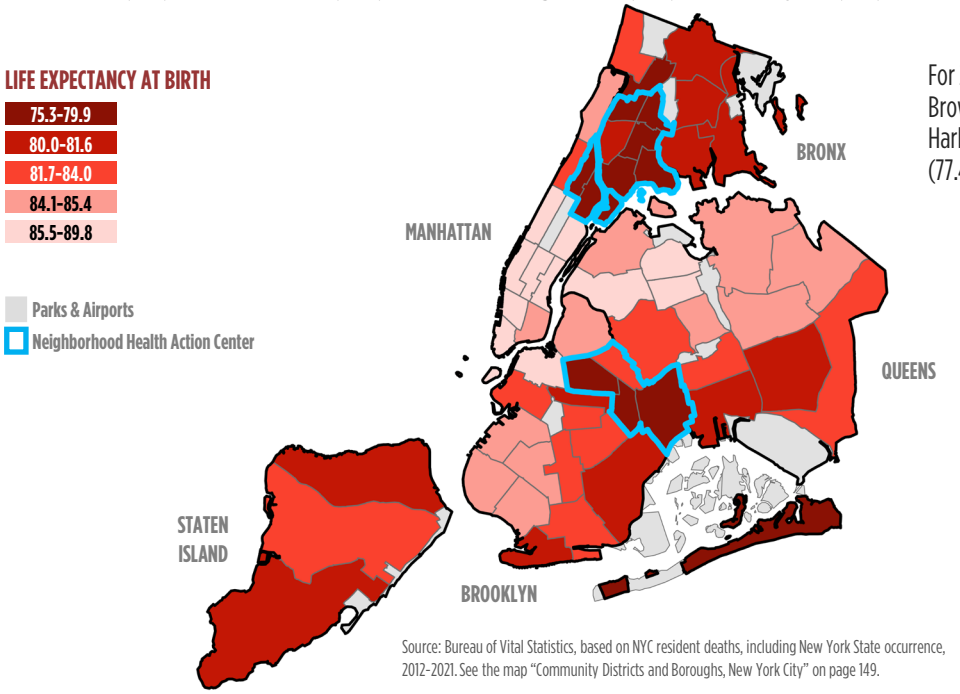
*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

*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).



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

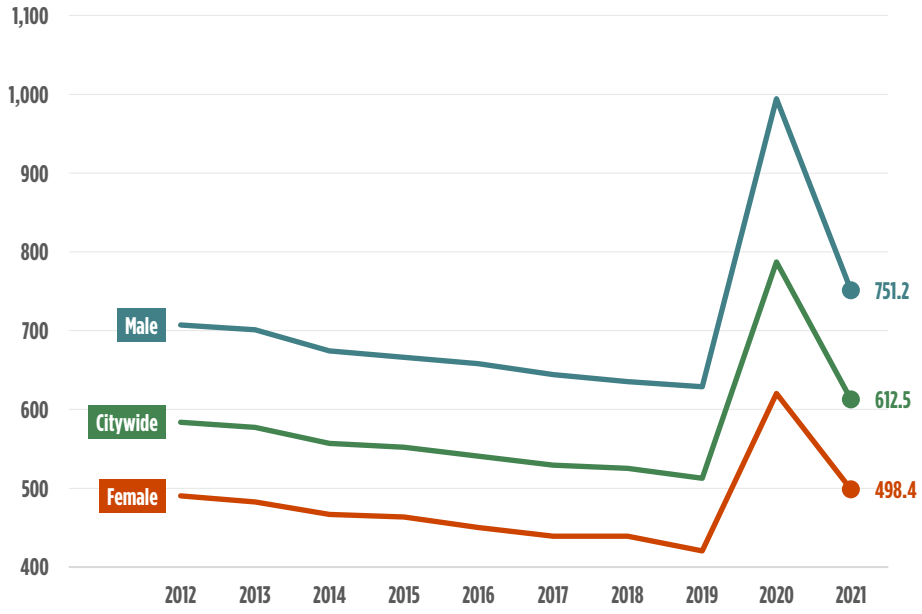
BROOKLYN	CD	Life Expectancy
Fort Greene, Brooklyn Heights	BK02	85.9
Bensonhurst	BK11	84.9
Borough Park	BK12	84.8
Bay Ridge	BK10	84.5
Williamsburg, Greenpoint	BK01	84.2
Sunset Park	BK07	84.1
Sheepshead Bay	BK15	84.0
Park Slope	BK06	83.4
Flatbush, Midwood	BK14	82.4
Crown Heights South	BK09	82.2
East Flatbush	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

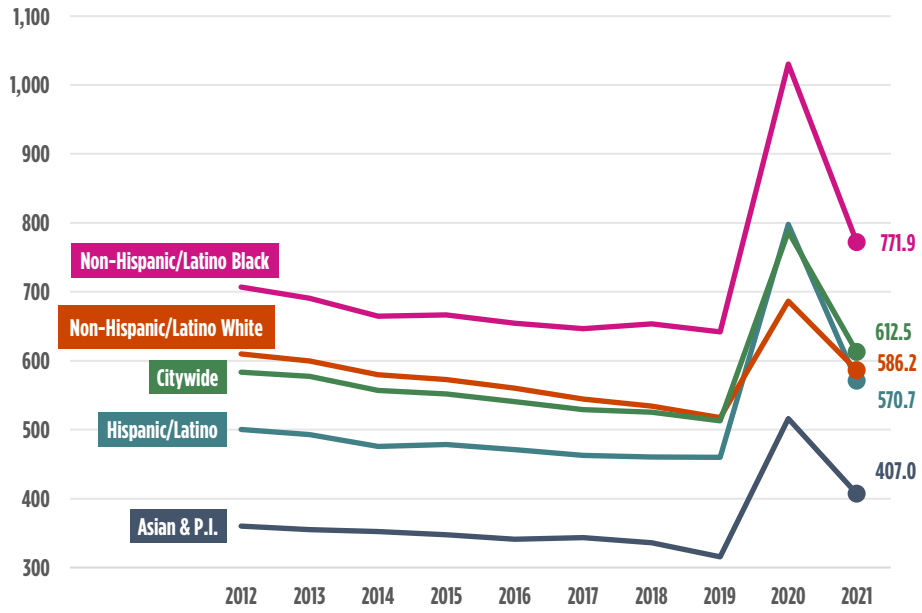
From 2019 to 2020, the citywide age-adjusted mortality rate sharply increased by 53.6%, largely due to the COVID-19 pandemic. In contrast, the age-adjusted death rate decreased from 787.4 per 100,000 population in 2020, to 612.5 in 2021, mostly due to the decline of COVID-19 deaths from 2020 to 2021.



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%.

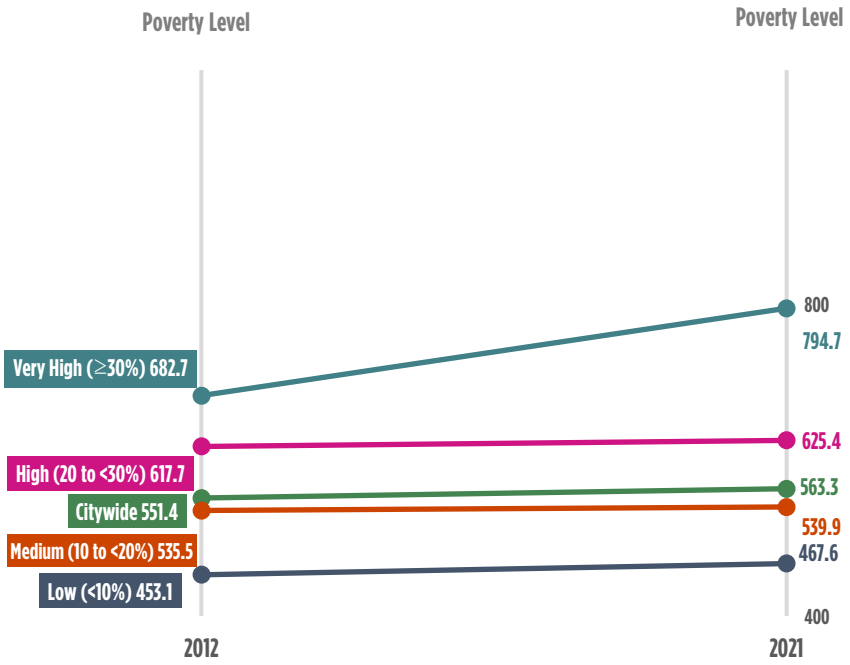


In 2021, the death rate for non-Hispanic/Latino Blacks was 31.7% higher than the rate for non-Hispanic/Latino Whites. The death rate has continued to be higher among non-Hispanic/Latino Blacks compared to non-Hispanic/Latino Whites over time. The gap has decreased since 2020 (the death rate for non-Hispanic/Latino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

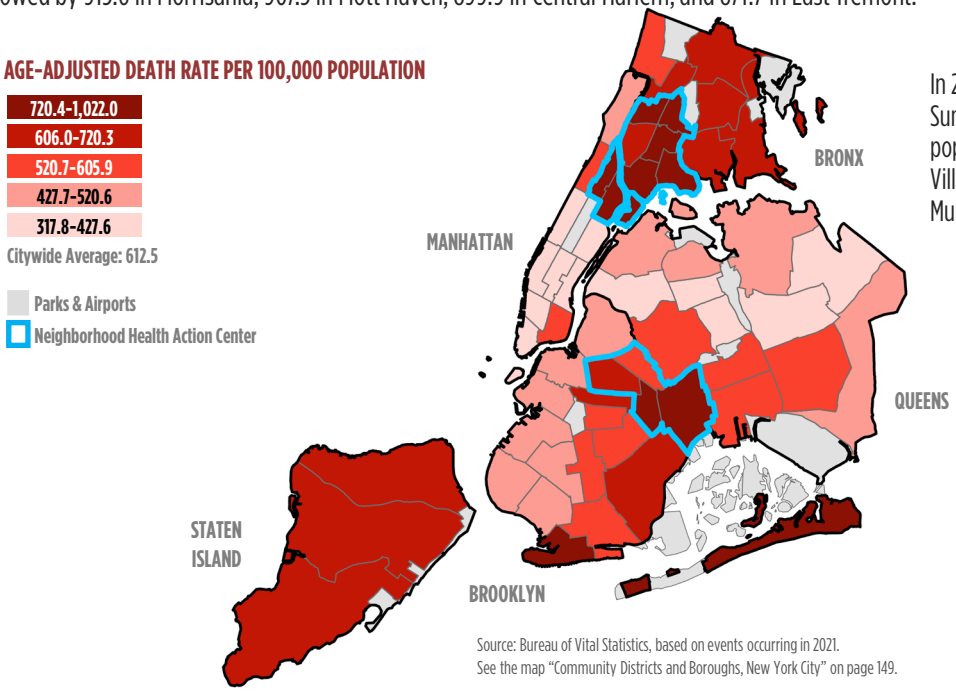
*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

†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.



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

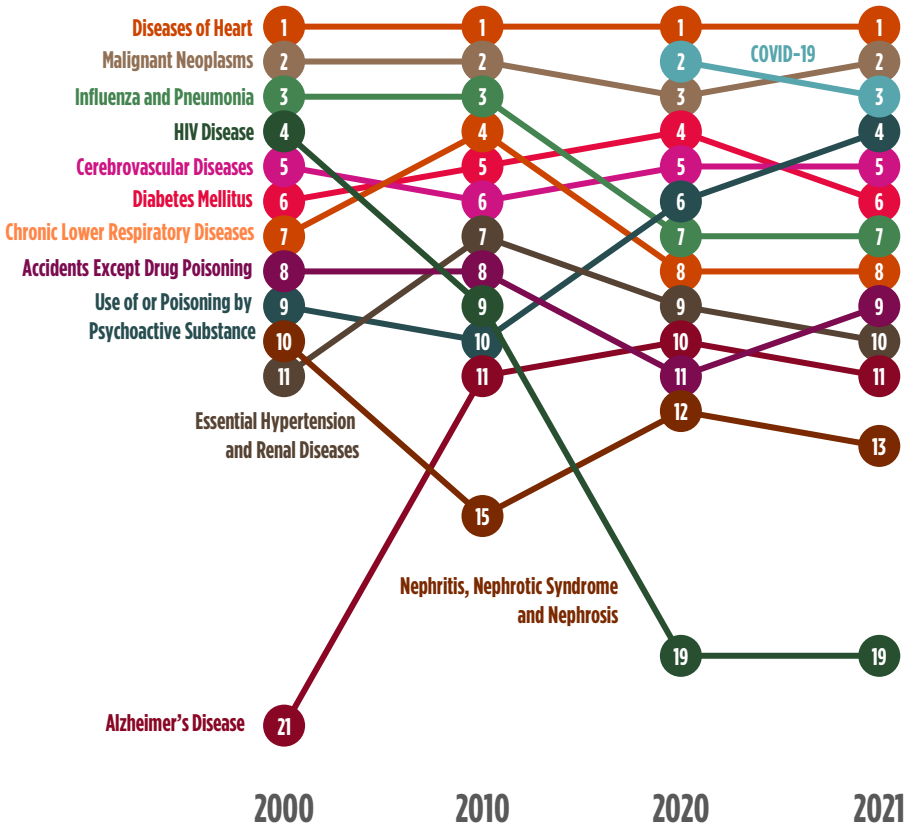
BROOKLYN	CD	Age-adjusted Death Rates
Brownsville	BK16	1022.0
East New York	BK05	816.5
Coney Island	BK13	745.9
Bedford Stuyvesant	BK03	693.7
Crown Heights North	BK08	623.3
Canarsie	BK18	611.7
East Flatbush	BK17	603.2
Flatbush, Midwood	BK14	572.8
Bushwick	BK04	559.4
Crown Heights South	BK09	546.6
Sheepshead 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 2nd leading cause in 2020 to the 3rd in 2021.

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

Alzheimer's disease has risen from the 21st leading cause in 2000, to the 11th leading cause in 2010, then to the 10th in 2020, and dropped to the 11th 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 3rd leading cause in 2000 and 2010 to the 7th 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 1st and 2nd 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 3rd leading cause of death among males and females.

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

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

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

*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 8th among Puerto Ricans, 9th among Asians and Pacific Islanders and non-Hispanic/Latino Blacks, and 7th among non-Hispanic/Latino Whites.

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

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

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

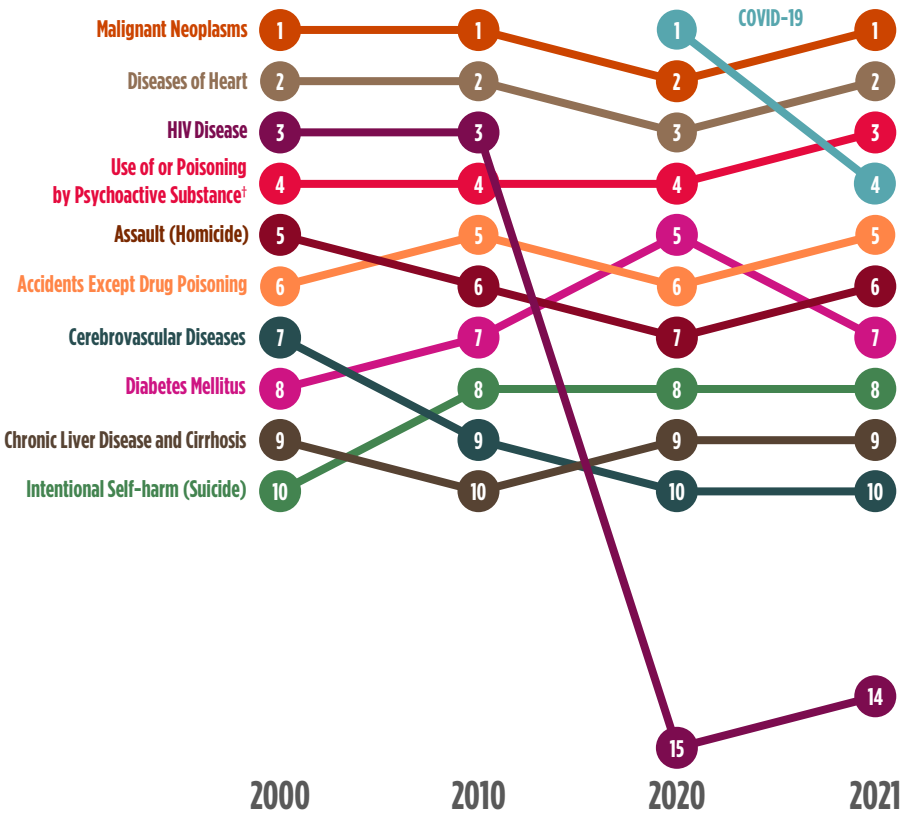
*** Decedents of other or multiple races, or with unknown ethnicities are not shown.**

† 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 3rd leading cause of premature death in 2000 and 2010, to the 15th in 2020, and then rose to the 14th in 2021.

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

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

Intentional self-harm (suicide) rose from the 10th leading cause of premature death in 2000 to the 8th 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 1st leading cause of premature death for males in 2021, and malignant neoplasms were the 1st 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 2nd leading cause of premature death among males, and the 4th 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 (6th and 10th, respectively). Cerebrovascular diseases and chronic lower respiratory diseases ranked as leading causes among females only (6th and 7th, 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 1st leading cause of premature death for Puerto Ricans and Hispanics/Latinos not of Puerto Rican ancestry, while malignant neoplasms are the 1st leading cause for Asians and Pacific Islanders and non-Hispanic/Latino Whites, and heart disease is the 1st 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 ** Influenza and Pneumonia**

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

Intentional self-harm (suicide) is a leading cause of premature death among Hispanics/Latinos not of Puerto Rican ancestry (7th), Asians and Pacific Islanders (4th), and non-Hispanic/Latino Whites (5th). 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 (5th) and non-Hispanic/Latino Blacks (9th).

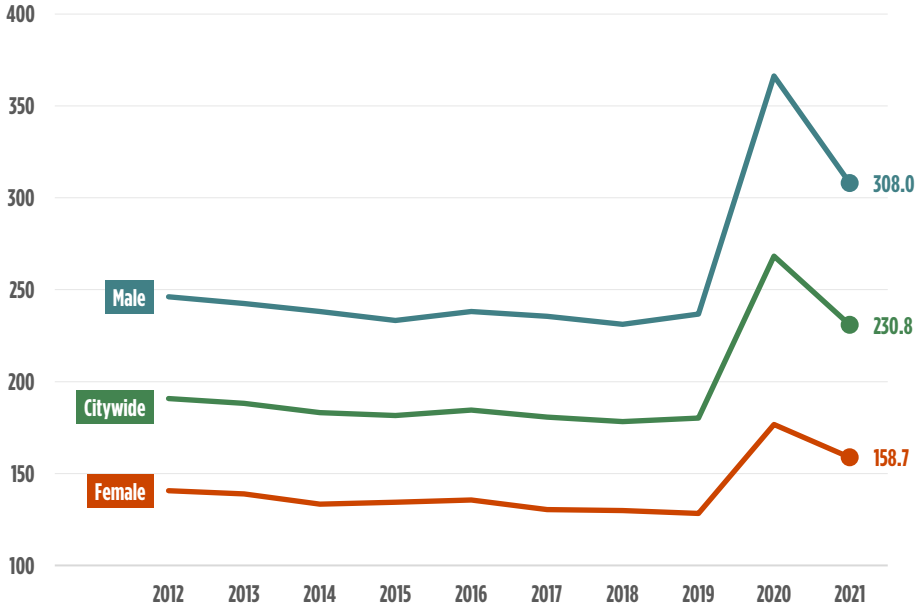
Certain conditions originating in the perinatal period are a leading cause of premature death among Asians and Pacific Islanders only (10th).

*** 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

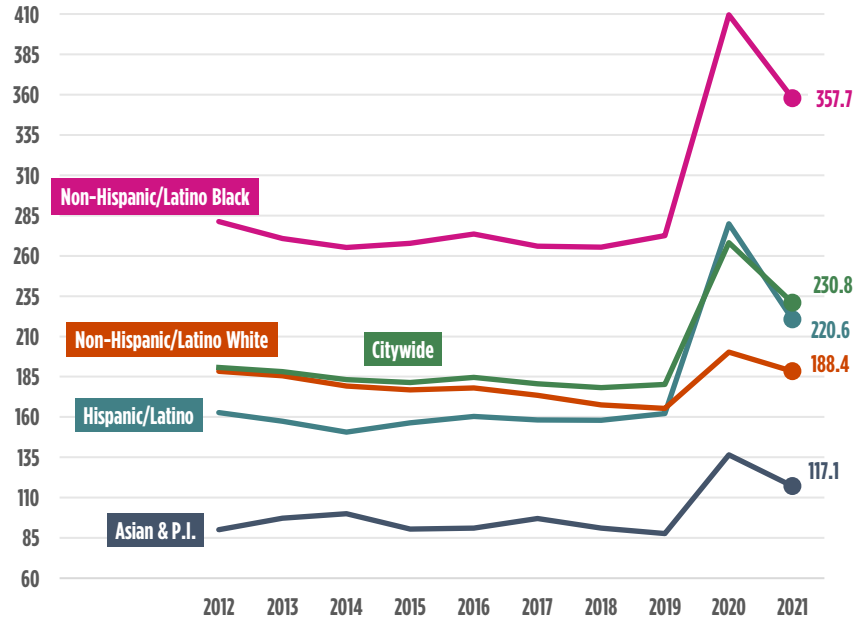
New York City's age-adjusted premature death rate (age <65 years) increased by 48.8% from 2019 to 2020. In contrast, the citywide age-adjusted premature death rate decreased by 13.9% from 2020 (268.2 per 100,000 population) to 2021 (230.8 per 100,000 population).



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%.

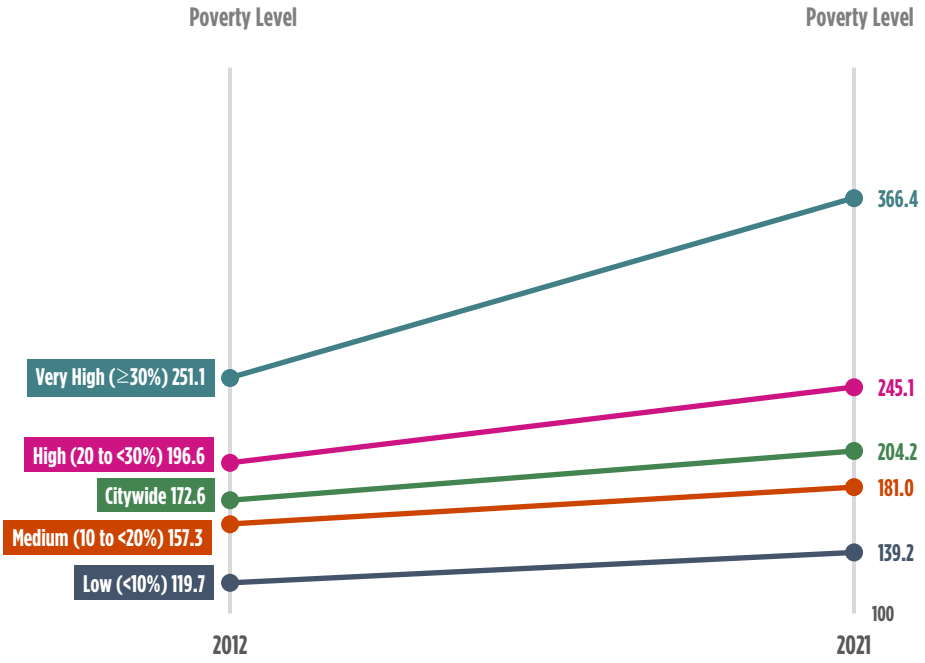


Non-Hispanic/Latino Blacks had the highest age-adjusted premature death rate (89.9% higher than non-Hispanic/Latino Whites). Only non-Hispanic/Latino Blacks had a rate above the citywide average in 2021.

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).

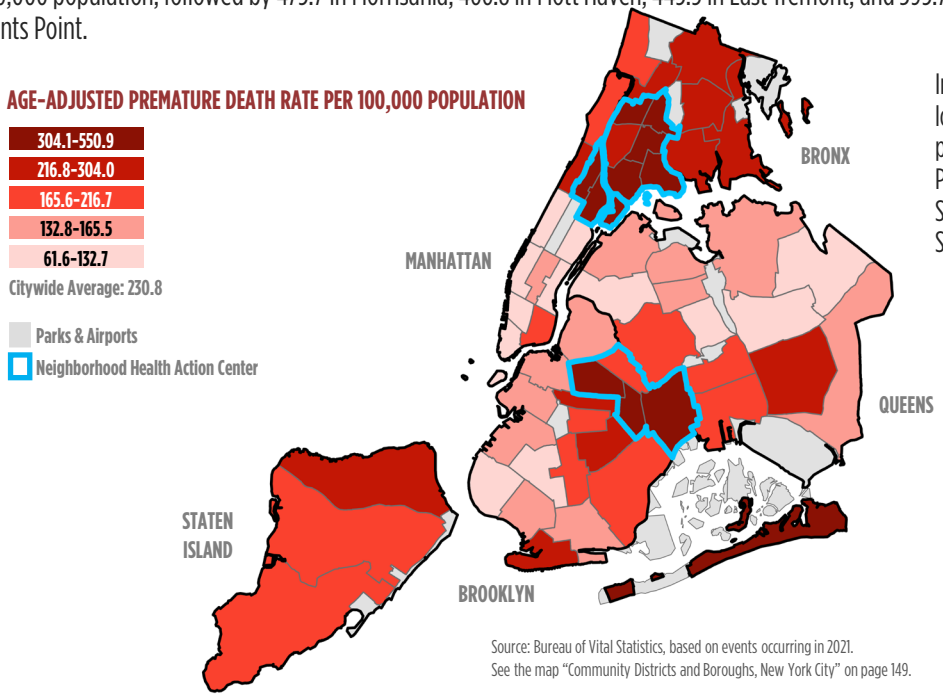
*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2012 data and per ACS 2016-2020 for 2021 data.

†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.



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	CD	Premature Death Rates
East Harlem	MN11	392.0
Central Harlem	MN10	355.6
Manhattanville	MN09	228.2
Lower East Side	MN03	189.2
Washington Heights	MN12	187.7
Midtown Business District	MN05	150.0
Chelsea, Clinton	MN04	132.7
Murray Hill	MN06	106.6
Upper West Side	MN07	106.5
Upper East Side	MN08	83.6
Battery Park, Tribeca	MN01	67.3
Greenwich Village, SOHO	MN02	61.6

BRONX	CD	Premature Death Rates
Morrisania	BX03	475.7
Mott Haven	BX01	466.8
East Tremont	BX06	445.5
Hunts Point	BX02	395.7
University, Morris Heights	BX05	356.9
Concourse, Highbridge	BX04	304.0
Fordham	BX07	302.3
Williamsbridge	BX12	265.2
Pelham Parkway	BX11	264.3
Unionport, Soundview	BX09	260.5
Throgs Neck	BX10	245.6
Riverdale	BX08	216.7

STATEN ISLAND	CD	Premature Death Rates
Port Richmond	SI01	246.7
Willowbrook, South Beach	SI02	197.1
Tottenville	SI03	195.6

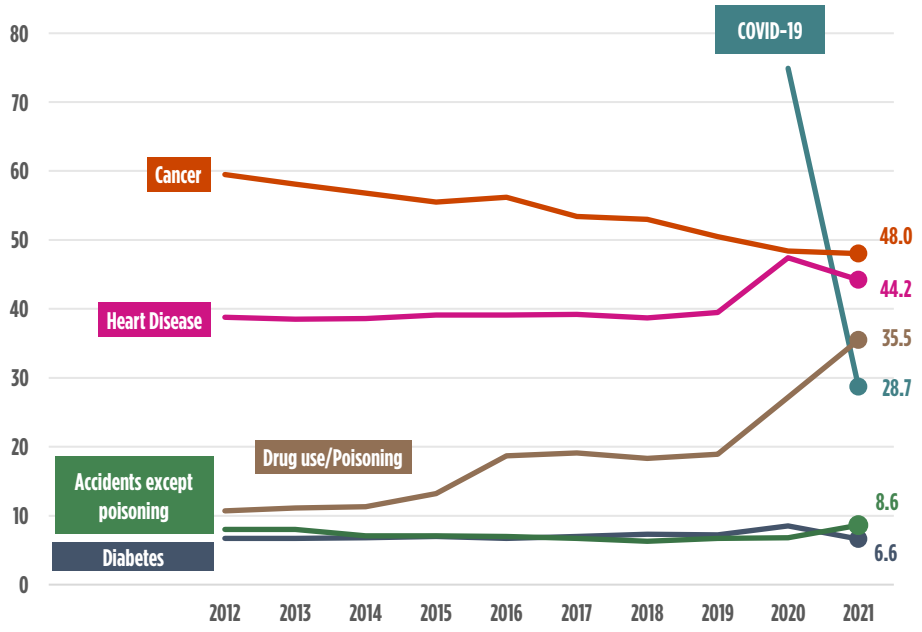
BROOKLYN	CD	Premature Death Rates
Brownsville	BK16	550.9
East New York	BK05	343.6
Bedford Stuyvesant	BK03	310.2
East Flatbush	BK17	262.0
Coney Island	BK13	248.2
Crown Heights North	BK08	246.2
Crown Heights South	BK09	212.8
Canarsie	BK18	206.8
Bushwick	BK04	187.0
Flatbush, Midwood	BK14	167.3
Williamsburg, Greenpoint	BK01	165.5
Park Slope	BK06	162.2
Sunset Park	BK07	156.7
Fort Greene, Brooklyn Heights	BK02	155.2
Sheepshead Bay	BK15	154.0
Bensonhurst	BK11	147.5
Bay Ridge	BK10	132.0
Borough Park	BK12	122.2

QUEENS	CD	Premature Death Rates
The Rockaways	QN14	334.3
Jamaica, St. Albans	QN12	230.9
Howard Beach	QN10	196.9
Ridgewood, Glendale	QN05	181.8
Woodhaven	QN09	172.7
Astoria, Long Island City	QN01	165.4
Queens Village	QN13	149.8
Elmhurst, Corona	QN04	141.9
Jackson Heights	QN03	140.3
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%.



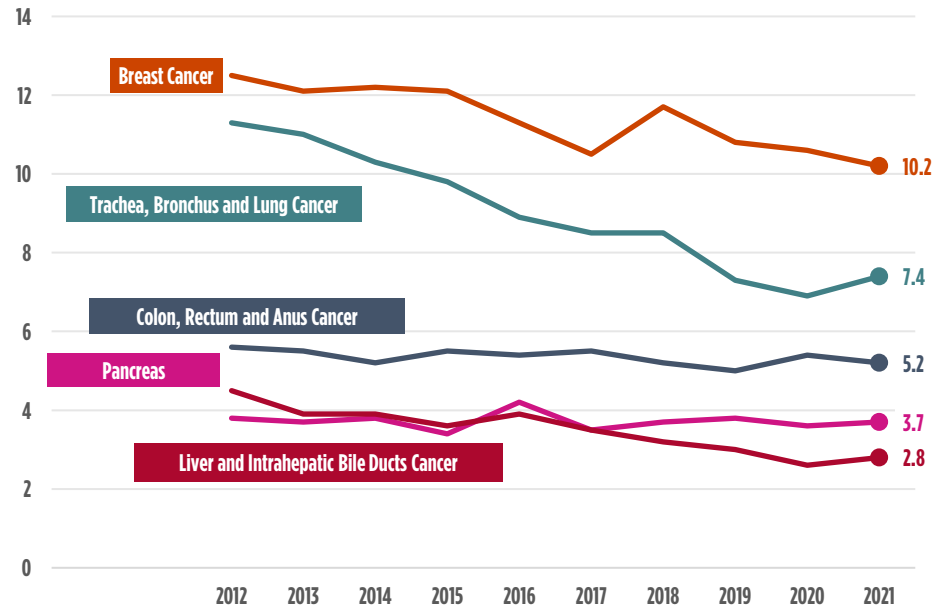
Use of or poisoning by psychoactive substance, COVID-19, accidents except poisoning, and diabetes accounted for the 3rd, 4th, 5th, and 6th leading causes of premature death, respectively, in 2021.

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.



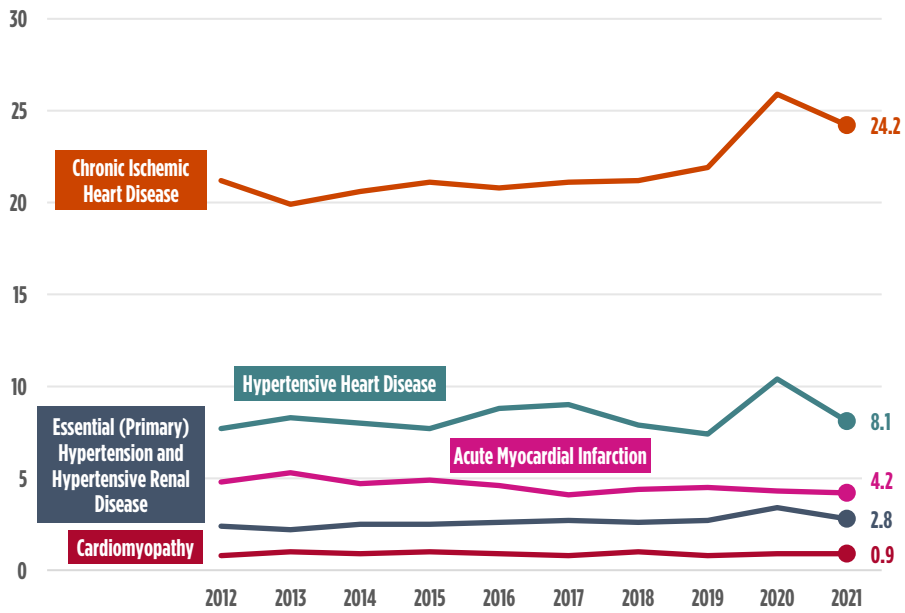
Breast (female) cancer and lung cancer death rates declined by 18.4% and 34.5%, respectively, since 2012. The breast (female) cancer rate declined by 3.8% from 2020 to 2021, and the lung cancer rate declined by 7.2% from 2020 to 2021.

Colon, pancreas, and liver cancers account for the 3rd, 4th, and 5th 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.

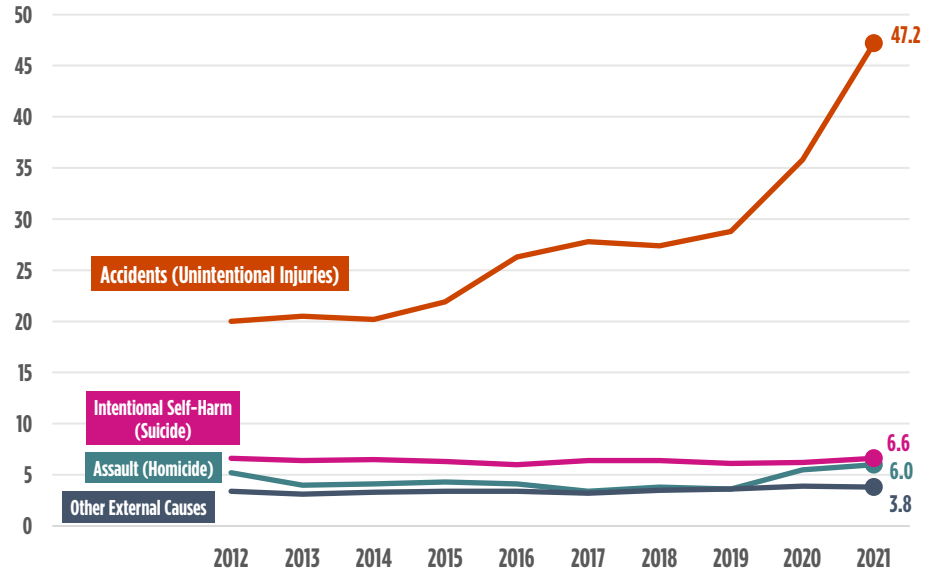


Since 2012, hypertensive heart disease increased by 5.2%, essential hypertension and hypertensive renal disease increased by 16.7%, acute myocardial infarction decreased by 12.5%, and cardiomyopathy increased by 12.5%.

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%.

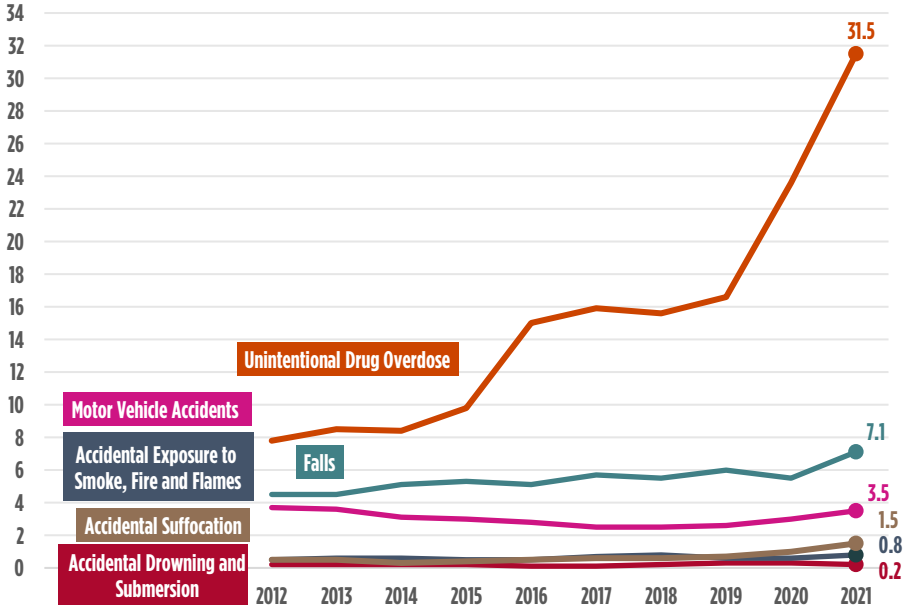
The suicide rate was 6.6 per 100,000 population in 2021, the same as in 2012.

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).

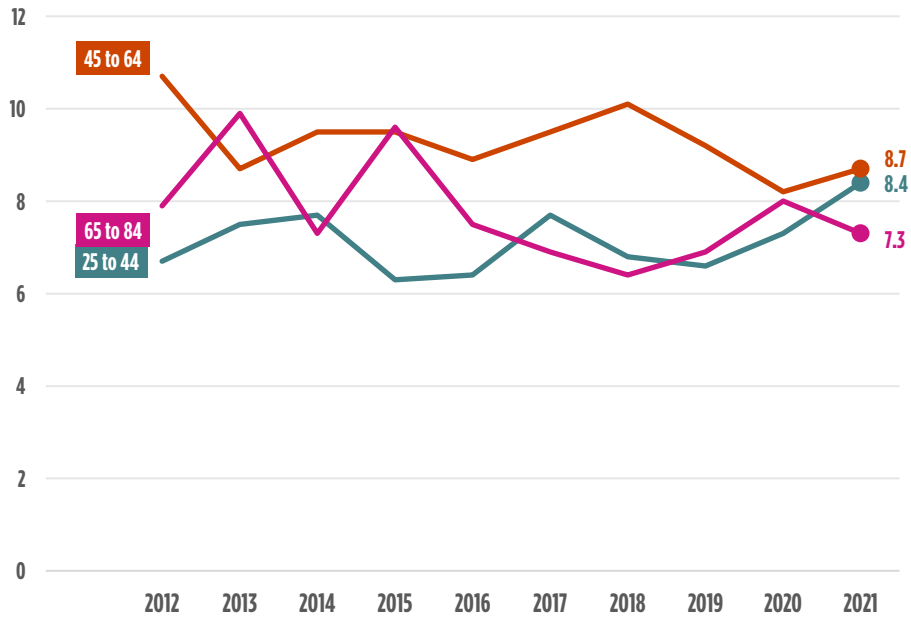
The death rate due to accidental suffocation increased over the past ten years by 200.0% and the death rate due to accidental exposure to smoke, fire, and flames increased by 60.0%. The death rate due to accidental drowning and submersion in 2021 was the same as it was in 2012.

*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.

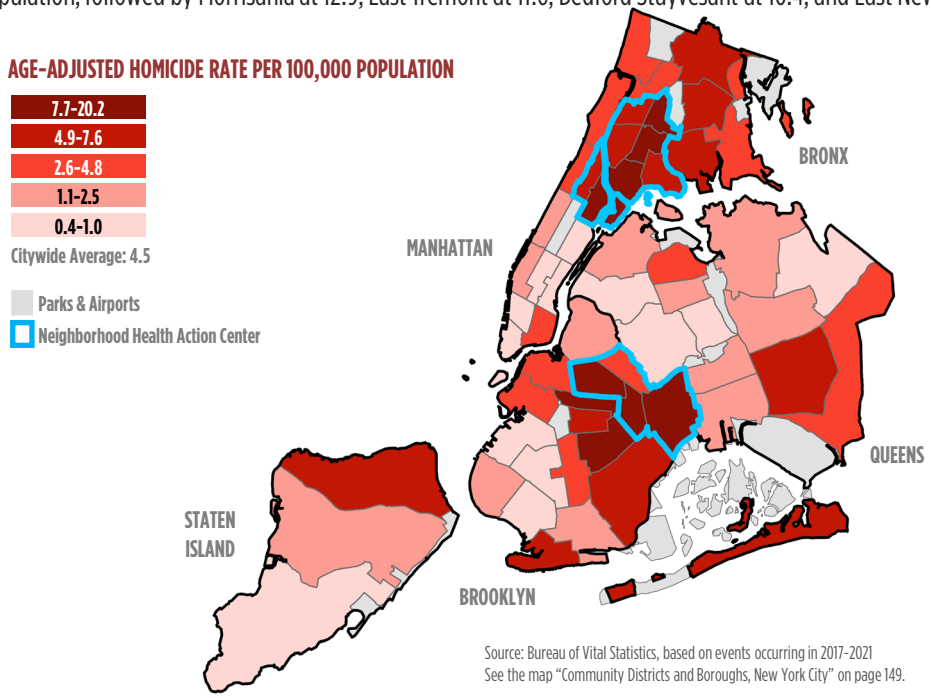


The rate of suicide deaths among adults aged 65-84 was 7.3 per 100,000 population in 2021, 7.6% lower than the rate in 2012. Compared to 2012, rates increased by 25.4% among the age group 25-44, and decreased by 18.7% among the age group 45-64.

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.



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.

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.

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

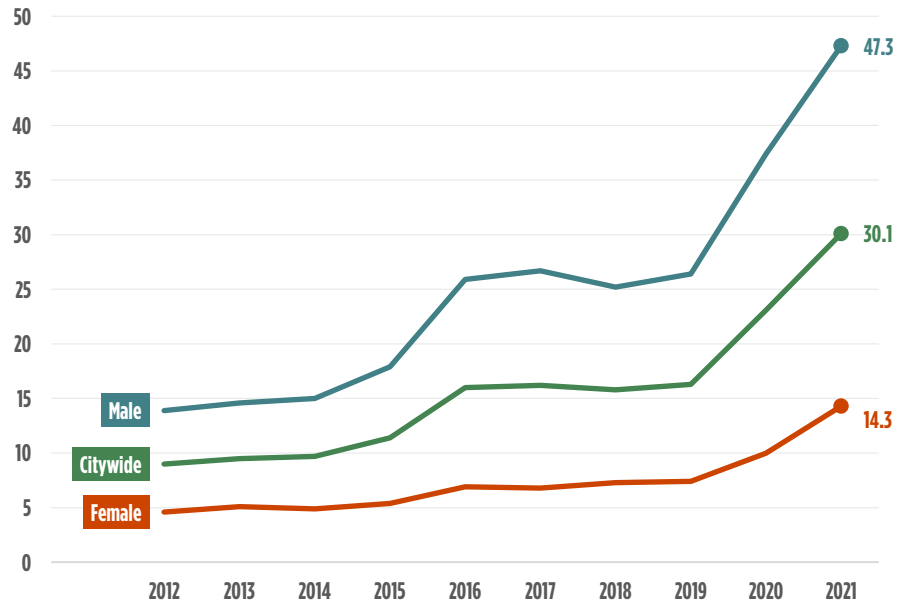
BROOKLYN	CD	Homicide Death Rates
Brownsville	BK16	20.2
Bedford Stuyvesant	BK03	10.4
East New York	BK05	10.3
Crown Heights North	BK08	8.4
East Flatbush	BK17	7.9
Crown Heights South	BK09	5.4
Coney Island	BK13	5.0
Canarsie	BK18	5.0
Bushwick	BK04	4.8
Park Slope	BK06	3.4
Flatbush, Midwood	BK14	3.3
Fort Greene, 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

DRUG-RELATED MORTALITY

Special Section

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.

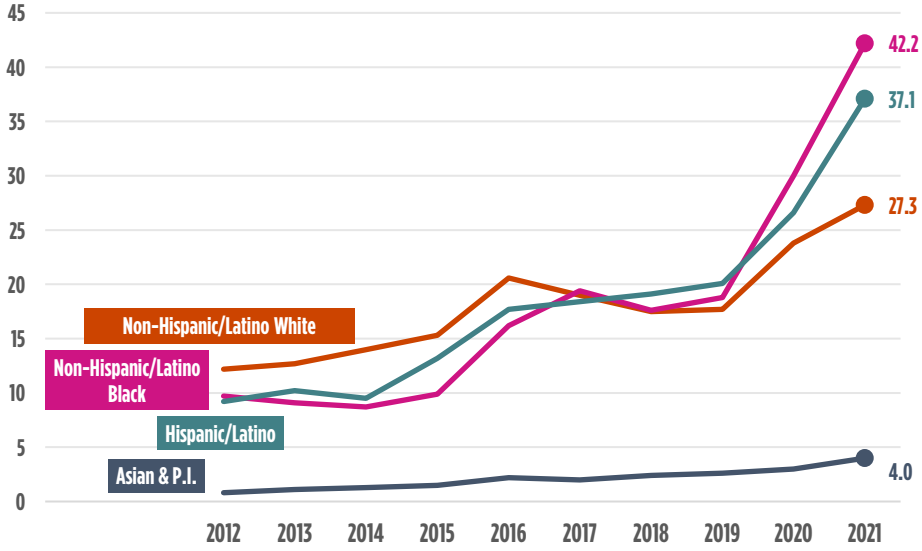
The age-adjusted drug-related death rate was 30.1 per 100,000 population in 2021, a 30.3% increase since 2020, and a 234.4% increase since 2012.

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.

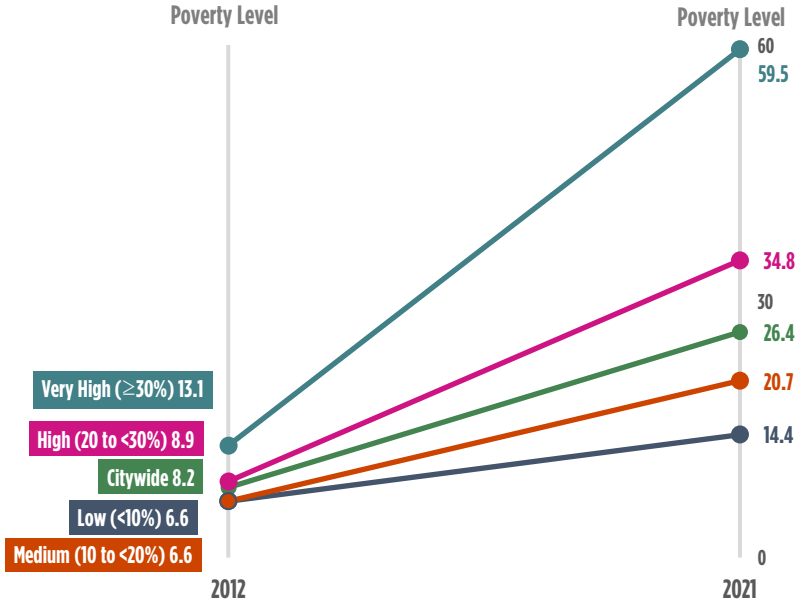


The drug-related death rate increased for all racial/ethnic groups from 2020 to 2021.

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.

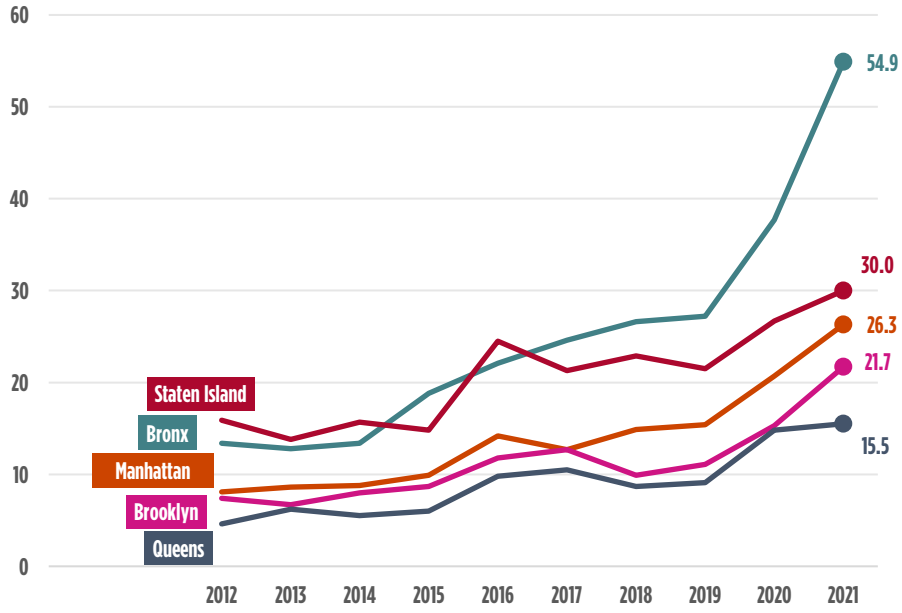
†The citywide estimate is restricted to NYC residents.

DRUG-RELATED MORTALITY

Special Section

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.

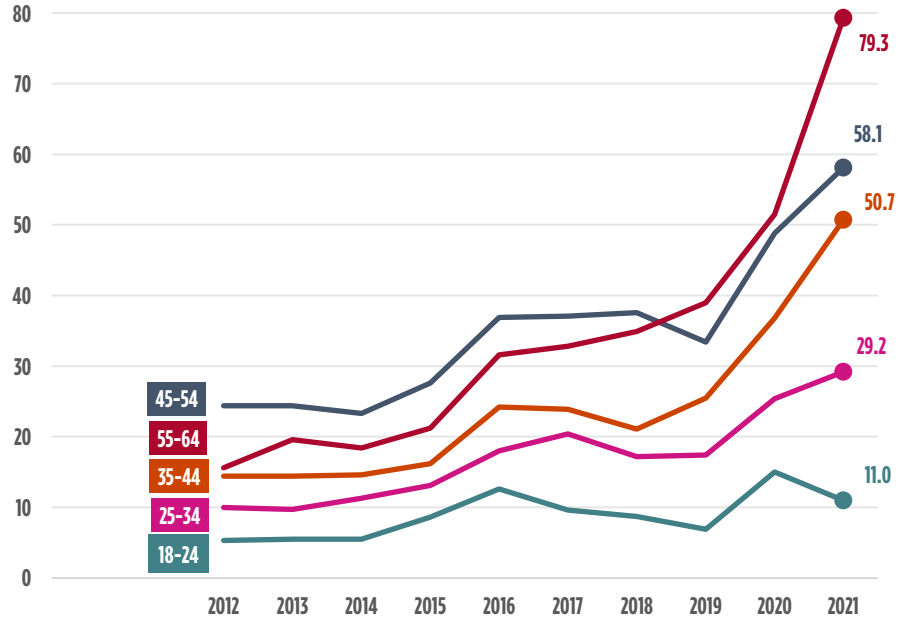


Over that period, age-adjusted drug-related death rates increased by 224.7% in Manhattan, by 309.7% in the Bronx, by 193.2% in Brooklyn, by 237.0% in Queens, and by 88.7% in Staten Island.

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.

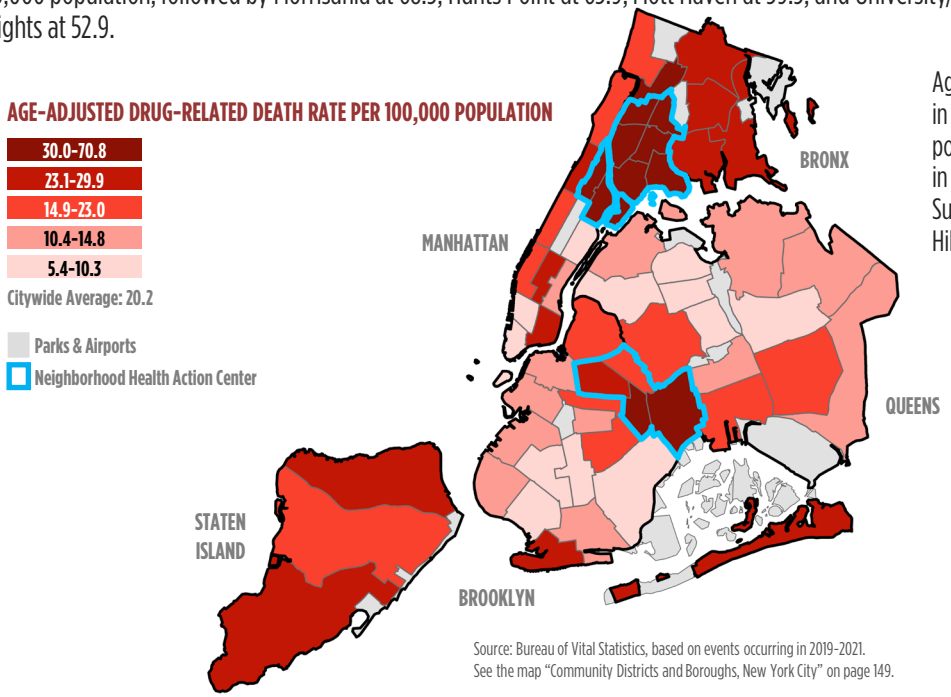
91.8% of drug-related deaths were premature (<65 year olds) in 2021.

DRUG-RELATED MORTALITY

Special Section

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 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.

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.

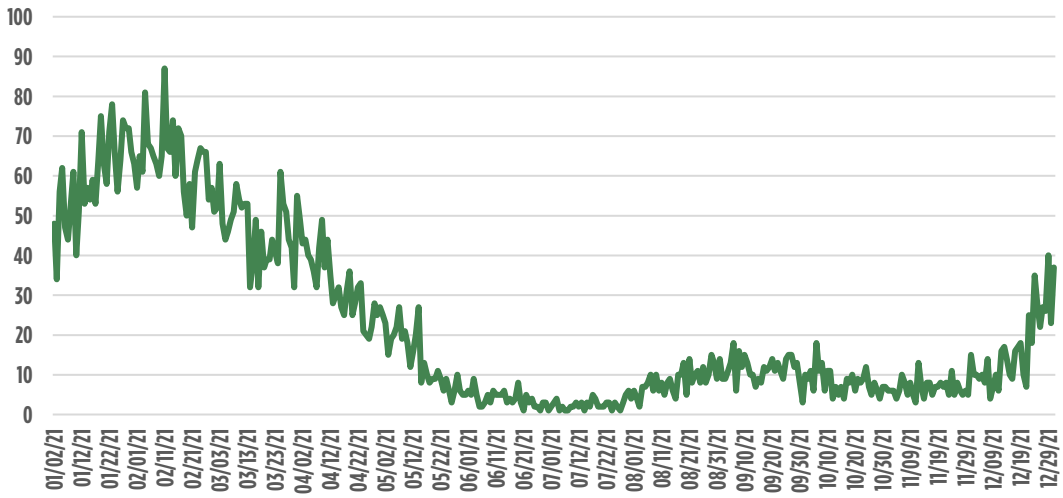


Figure C2. Age Pyramid, COVID-19 Deaths, New York City, 2021

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.

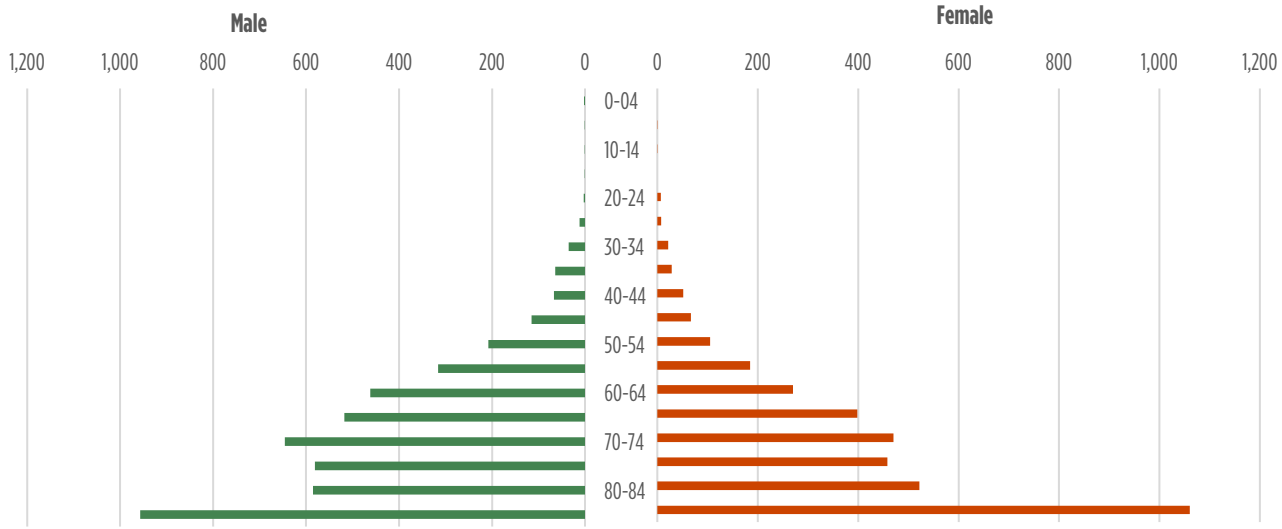


Figure C3. Crude COVID-19 Death Rate by Age and Sex, New York City, 2021

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.

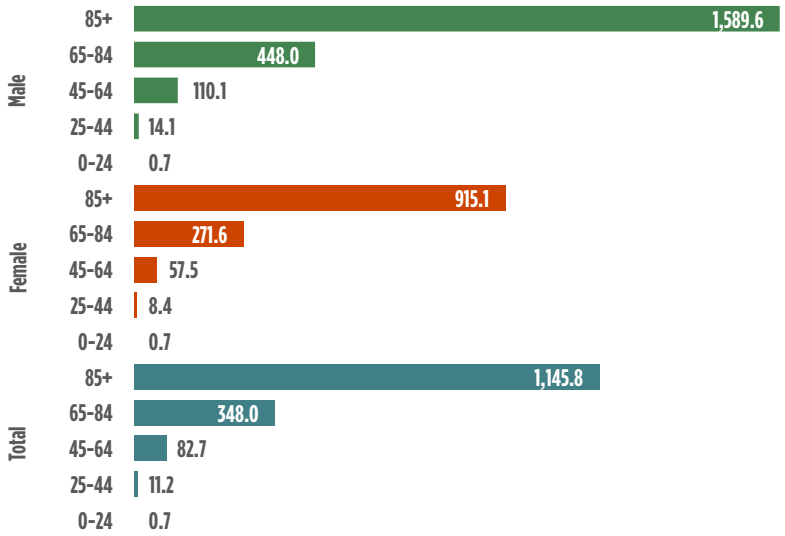


Figure C4. Age-adjusted COVID-19 Death Rate by Race/Ethnicity, New York City, 2021

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.

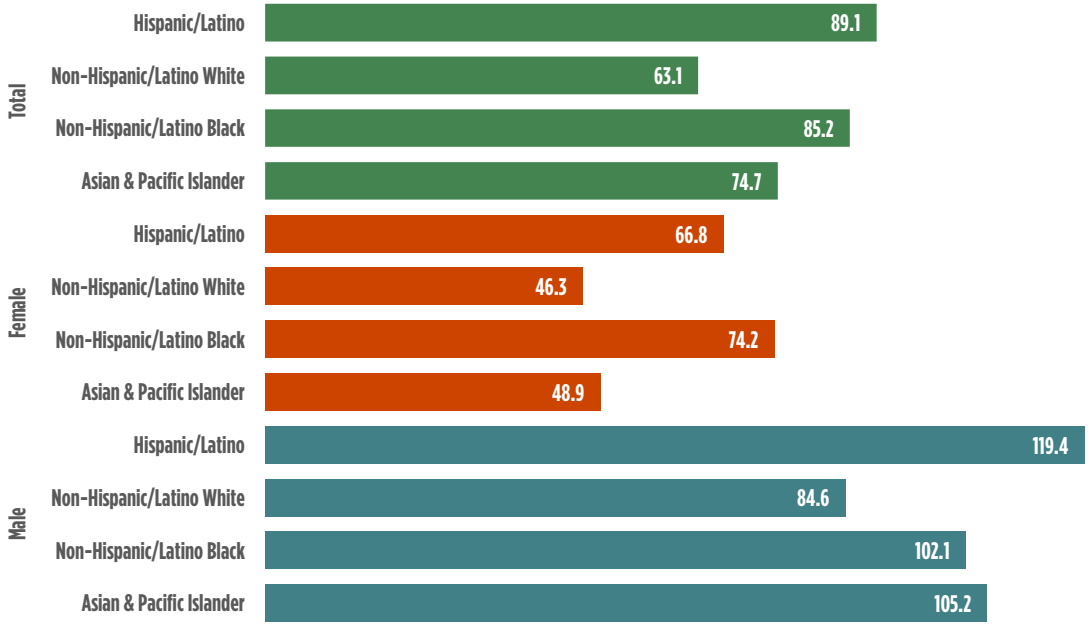


Figure C5. COVID-19 Deaths by Birthplace and Sex, New York City, 2021

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.

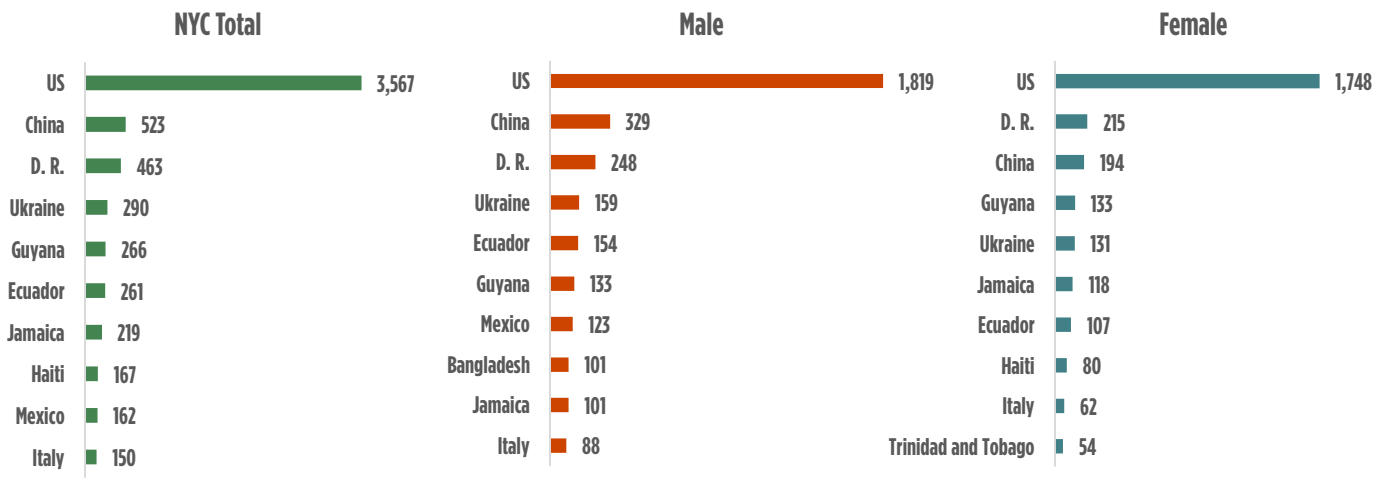


Figure C6. Age-adjusted COVID-19 Death Rate by Neighborhood Poverty, New York City, 2021

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.

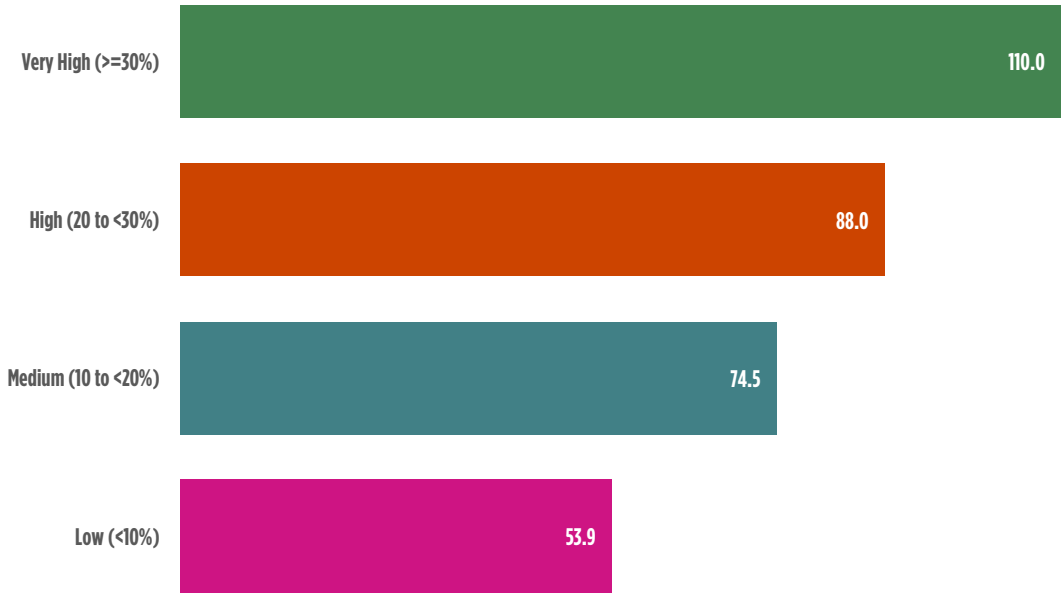


Figure C7. Age-adjusted COVID-19 Death Rate by Borough of Residence and Sex, New York City, 2021

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.

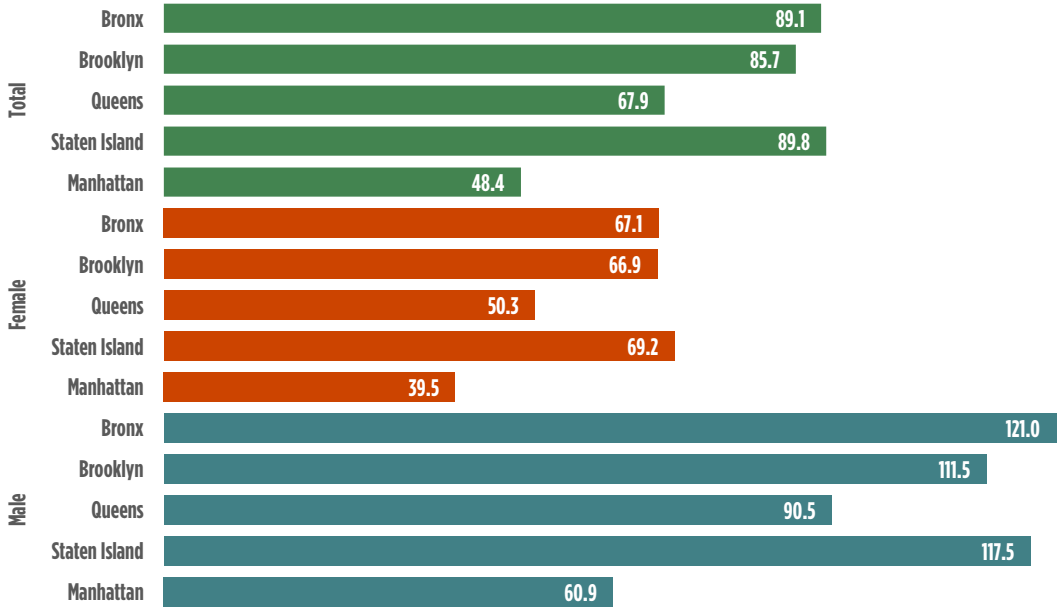
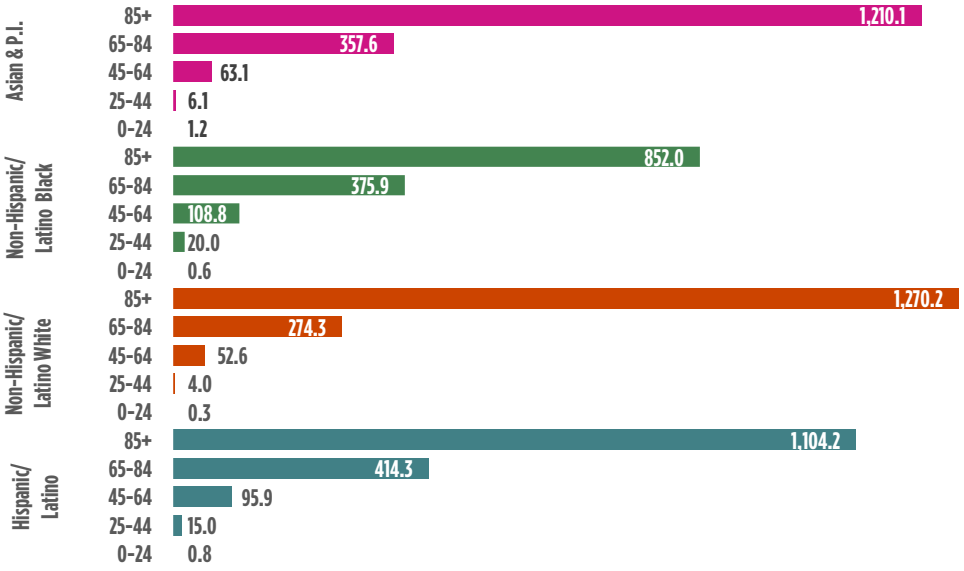


Figure C8. Crude COVID-19 Death Rate by Race/Ethnicity and Age, New York City, 2021

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.

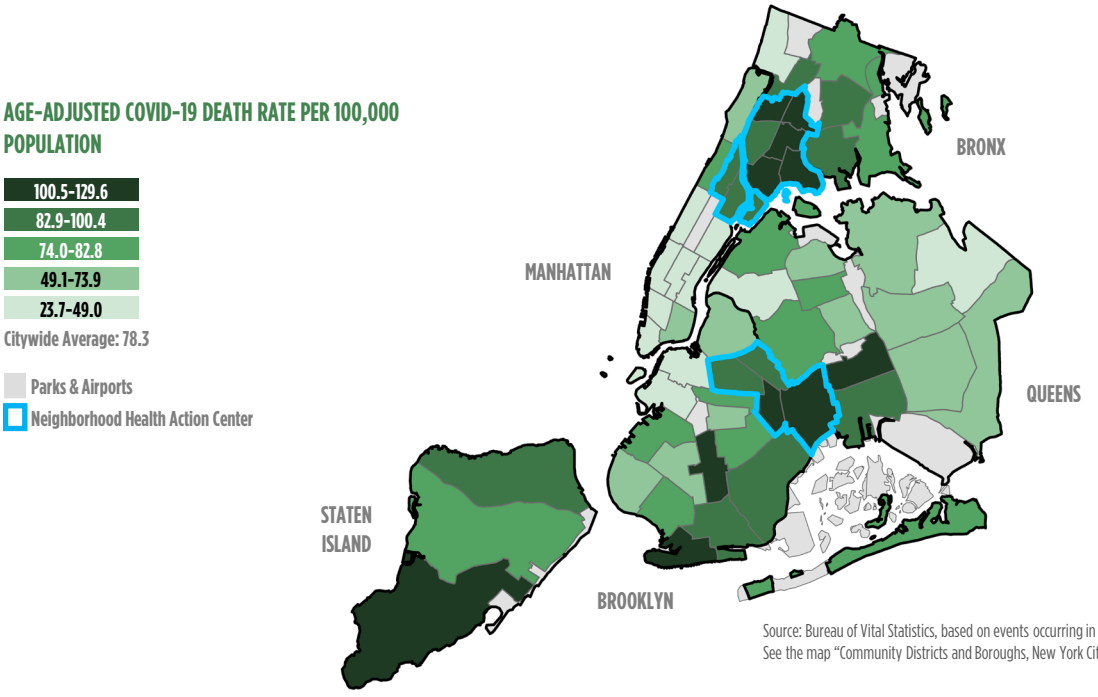


COVID-19 MORTALITY

Special Section

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.



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

COVID-19 MORTALITY

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.

	Total		Male		Female	
Place of Death	**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
Total	**8,229**	**100.0**	**4,574**	**100.0**	**3,655**	**100.0**

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.

	Hispanic/Latino		Non-Hispanic/Latino White		Non-Hispanic/Latino Black		Asian & Pacific Islander	
Place of Death	**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
Total	**2,202**	**100.0**	**2,691**	**100.0**	**1,945**	**100.0**	**1,152**	**100.0**

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

In 2021, COVID-19 deaths ranked 2nd 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
	Male			
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%
	Total	**43,629**	**32,950**	**-24.5%**
	Female			
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%
	Total	**38,514**	**30,601**	**-20.5%**

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

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, 10th 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

		Live Births		Fertility Rates	Total Fertility Rates	Marriages†		Deaths		Infant Mortality	
Year	Population	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.

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	54,472	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
Total	**41,642**	**99,262**	**63,551**	**400**	**114**	**272**	**174**	**1.1**

* 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
Manhattan	
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
Bronx	
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
Brooklyn	
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 NY§	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
Queens	
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
Staten Island	
Richmond University Medical Center	2,733
Staten Island University Hospital	2,765
Home†	29
Places other than a hospital or home‡	3
New York City Total	**99,262**

* 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	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Unknown
Total	**99,262**	**13,599**	**15,634**	**32,683**	**19,867**	**4,963**	**12,513**	**3**
Hispanic/Latino								
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	-
North American and the Caribbean								
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	-
African								
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	-
European								
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	-
Asian								
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	-
Other								
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

		Age of Mother (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**99,262**	**512**	**1,619**	**13,177**	**22,231**	**32,187**	**22,719**	**6,817**
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

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	**99,262**	**512**	**1,619**	**13,177**	**22,231**	**32,187**	**22,719**	**6,817**
Sex								
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
First Live Birth								
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
Pre-pregnancy Body Mass Index (BMI)								
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
Birthweight at Delivery (Grams)								
<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
Gestational Age (Weeks)*								
<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
Plurality								
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
Apgar Score at 5 Minutes								
≤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

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
Total Live Births	**99,262**	**512**	**1,619**	**13,177**	**22,231**	**32,187**	**22,719**	**6,817**
Method of Delivery								
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†	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
Attendant								
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
Primary Payer for this Birth‡								
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
First Visit for Prenatal Care								
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
Marital Status§								
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
Education Level								
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
Birthplace‖								
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*							
	Total	Puerto Rican	Hispanic/ Latino not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic/ Latino White	Non-Hispanic/ Latino Black	Non-Hispanic/ Latino Other	Non-Hispanic/ Latino Two or More Races	Not Stated
Total Live Births	**99,262**	**4,826**	**23,836**	**14,927**	**36,023**	**17,608**	**642**	**1,008**	**392**
Sex									
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
First Live Birth									
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
Pre-pregnancy Body Mass Index									
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
Birthweight at Delivery (Grams)									
<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
Gestational Age (Weeks)†									
<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
Plurality									
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	-	-	-
Apgar Score at 5 Minutes									
≤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
Method of Delivery									
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

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

		Racial/Ethnic Group*							
	Total	Puerto Rican	Hispanic/ Latino not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic/ Latino White	Non-Hispanic/ Latino Black	Non-Hispanic/ Latino Other	Non-Hispanic/ Latino Two or More Races	Not Stated
Attendant									
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
Primary Payer for this Birth§									
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
First Visit for Prenatal Care									
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
Marital Status‖									
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
Education Level									
11th grade or less/12th 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
Birthplace¶									
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	Live Births	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	Not Married	On Medicaid‡	Pre-pregnancy Obesity	Teen-aged (<20 Years)	Exclusive Breast Feeding
Total	**99,262**	**46.4**	**42.0**	**9.1**	**10.0**	**7.1**	**37.5**	**55.1**	**20.6**	**2.1**	**42.4**
Hispanic/Latino											
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
North America and the Caribbean											
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
African											
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
European											
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
Asian											
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
Other											
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 Medi-caid§	Pre-pregnancy Obesity	Exclusive Breast Feeding
NEW YORK CITY	**99,262**	**11.7**	**46.4**	**42.0**	**9.1**	**10.0**	**7.1**	55.1	**20.6**	**42.4**
MANHATTAN	**13,513**	**8.6**	**37.9**	**54.2**	**8.3**	**9.1**	**7.3**	29.9	**14.3**	**56.9**
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
BRONX	**15,720**	**11.0**	**54.8**	**37.0**	**11.1**	**12.0**	**11.6**	79.1	**32.1**	**28.1**
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
BROOKLYN	**32,681**	**12.4**	**40.3**	**39.2**	**8.0**	**9.0**	**6.0**	61.2	**19.0**	**40.6**
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
QUEENS	**19,867**	**8.5**	**65.5**	**43.1**	**9.6**	**10.1**	**7.4**	62.6	**20.0**	**46.9**
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
STATEN ISLAND	**4,963**	**10.1**	**36.3**	**37.4**	**8.1**	**10.2**	**2.4**	44.4	**23.0**	**30.0**
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
NEW YORK CITY RESIDENTS	**86,744**	**10.2**	**48.1**	**41.9**	**9.0**	**9.9**	**7.3**	58.9	**21.1**	**41.7**
NON-RESIDENTS	**12,513**	**-**	**34.5**	**42.5**	**9.9**	**11.0**	**5.4**	**28.5**	**17.0**	**46.9**
RESIDENCE UNKNOWN	**5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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

		Borough of Residence						
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
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
Total	**99,262**	**13,599**	**15,634**	**32,683**	**19,867**	**4,963**	**12,513**	**3**

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

		Age Group (Years)						
Birthplace	Total	<20	20-24	25-29	30-34	35-39	≥40	Not Stated
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	-
Total	**99,262**	**2,131**	**13,177**	**22,231**	**32,187**	**22,719**	**6,817**	**-**

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 Women	Birth Rate per 1,000 Women	Pregnancy Rate Per 1,000 Women
New York City‡	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
Racial/Ethnic Group‡								
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
Racial/Ethnic Group§								
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
Borough of Residence								
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
NYC Events to NYC Residents	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
NYC Events to Non-NYC Residents	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.

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

	2017	2018	2019	2020	2021
Total Live Births	**117,013**	**114,296**	**110,442**	**100,022**	**99,262**
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
Infant Mortality Rate¶	**5.4**	**4.1**	**6.7**	**5.8**	**7.5**

* 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.

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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
NEW YORK CITY	**7,063**	**2.3**	**35.3**	**88.8**	**10.5**	**10.5**	**16.8**	**86.5**	87.9	**28.1**
MANHATTAN	**682**	**1.6**	**27.7**	**89.3**	**11.1**	**10.9**	**17.9**	**93.0**	87.8	**28.2**
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
BRONX	**2,222**	**4.5**	**38.6**	**89.1**	**10.8**	**10.4**	**20.3**	**92.6**	91.4	**23.9**
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
BROOKLYN	**2,201**	**2.1**	**28.6**	**88.4**	**10.6**	**10.5**	**12.8**	**79.0**	87.4	**24.6**
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
QUEENS	**1,361**	**2.1**	**49.0**	**89.4**	**8.7**	**9.5**	**19.3**	**88.2**	87.8	**42.1**
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
STATEN ISLAND	**295**	**2.0**	**18.7**	**85.8**	**13.6**	**11.2**	**5.9**	**92.5**	77.2	**19.8**
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
NEW YORK CITY RESIDENTS	**6,761**	**2.5**	**35.5**	**88.8**	**10.5**	**10.3**	**16.7**	**87.3**	88.4	**28.0**
NON-RESIDENTS	**302**	**0.9**	**30.6**	**88.1**	**12.3**	**14.2**	**17.0**	**66.9**	78.0	**28.6**
RESIDENCE UNKNOWN	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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.

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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/ Pregnancy Outcome	Total	Age Group (Years) <18	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or Not Stated
NEW YORK CITY	**142,685**	**1,455**	**3,711**	**23,274**	**33,679**	**42,166**	**28,996**	**9,404**	**-**
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	-
MANHATTAN	**19,740**	**186**	**380**	**2,380**	**3,637**	**6,520**	**4,980**	**1,657**	**-**
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	-
BRONX	**24,568**	**408**	**999**	**5,040**	**6,789**	**6,406**	**3,674**	**1,252**	**-**
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	-
BROOKLYN	**45,700**	**433**	**1,127**	**8,582**	**11,069**	**12,391**	**9,120**	**2,978**	**-**
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	-
QUEENS	**29,605**	**285**	**832**	**4,559**	**7,574**	**8,773**	**5,732**	**1,850**	**-**
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	-
STATEN ISLAND	**6,509**	**56**	**135**	**837**	**1,564**	**2,276**	**1,282**	**359**	**-**
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	-
NON-RESIDENTS	**16,560**	**87**	**238**	**1,875**	**3,044**	**5,800**	**4,208**	**1,308**	**-**
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	-
RESIDENCE UNKNOWN	**3**	**-**	**-**	**1**	**2**	**-**	**-**	**-**	**-**
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

		Age Group (Years)						
Gestational Age (Weeks)	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**5,610**	**31**	**103**	**575**	**1,015**	**1,594**	**1,456**	**836**
<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

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**277**	**1**	**5**	**39**	**56**	**94**	**45**	**37**
Sex								
Male	134	1	1	14	26	52	22	18
Female	132	-	4	23	25	41	22	17
Undetermined	11	-	-	2	5	1	1	2
Weight at Delivery (Grams)								
<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

		Racial/Ethnic Group						
	Total	Puerto Rican	Hispanic/ Latino (not Puerto Rican)	Asian and Pacific Islander	Non-Hispanic/ Latino White	Non-Hispanic/ Latino Black	Other	Not Stated
Total	**277**	**9**	**44**	**30**	**91**	**82**	**3**	**18**
Sex								
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	-	-
Weight at Delivery (Grams)								
<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.

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

Borough of Residence/ Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	**137,352**	**55,891**	**15,617**	**31,340**	**28,837**	**5,667**
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
MANHATTAN	**18,898**	**17,134**	**709**	**611**	**428**	**16**
Live Births	13,599	13,015	283	185	100	16
Spontaneous Terminations	27	26	-	-	1	-
Induced Terminations	5,272	4,093	426	426	327	-
BRONX	**23,463**	**8,793**	**13,593**	**508**	**556**	**13**
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	-
BROOKLYN	**44,554**	**14,011**	**242**	**26,317**	**2,723**	**1,261**
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	-
QUEENS	**28,301**	**5,794**	**191**	**1,751**	**20,510**	**55**
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
STATEN ISLAND	**6,214**	**973**	**34**	**1,210**	**85**	**3,912**
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
NON-RESIDENTS	**15,919**	**9,185**	**847**	**942**	**4,535**	**410**
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
RESIDENCE UNKNOWN	**3**	**1**	**1**	**1**	**-**	**-**
Live Births	3	1	1	1	-	-
Spontaneous Terminations	-	-	-	-	-	-
Induced Terminations	-	-	-	-	-	-

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

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
Induced Termination of Pregnancy, All	**37,813**	**912**	**1,989**	**9,522**	**10,433**	**8,385**	**4,821**	**1,751**	**-**
Racial/Ethnic Group									
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	-
Marital Status									
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	-
Gestational Age (Weeks)									
≤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	-
Type of Primary Termination Procedure									
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.

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
Marital Status (Percent)					
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
Age Group (Years)					
<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	-	-
Racial/Ethnic Group					
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
Total	**54,391**	**49,759**	**49,784**	**37,523**	**37,813**

*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

	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
Birth Characteristics	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
New York City§	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
	Total	**99,262**	**11.7**	**5,610**	**3.1**	**37,813**	**21.0**	**142,685**	**79.4**
Racial/Ethnic Group§‖									
Hispanic/Latino	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
	Total	**28,662**	**11.6**	**1,440**	**2.7**	**10,753**	**20.2**	**40,855**	**76.9**
Asian and Pacific Islander	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
	Total	**14,927**	**11.6**	**522**	**1.8**	**1,876**	**6.6**	**17,325**	**60.8**
Non-Hispanic/Latino White	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
	Total	**36,023**	**13.4**	**1,464**	**2.7**	**3,652**	**6.6**	**41,139**	**74.5**
Non-Hispanic/Latino Black	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
	Total	**17,608**	**9.5**	**1,215**	**3.1**	**14,959**	**38.6**	**33,782**	**87.1**
Borough of Residence¶									
Manhattan	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
	Total	**13,599**	**8.6**	**869**	**2.4**	**5,272**	**14.3**	**19,740**	**53.6**
Bronx	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
	Total	**15,634**	**11.0**	**1,152**	**3.8**	**7,782**	**25.7**	**24,568**	**81.2**
Brooklyn	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
	Total	**32,683**	**12.4**	**1,243**	**2.1**	**11,774**	**20.3**	**45,700**	**78.9**
Queens	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
	Total	**19,867**	**8.5**	**1,346**	**3.0**	**8,392**	**18.5**	**29,605**	**65.3**
Staten Island	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
	Total	**4,963**	**10.1**	**321**	**3.4**	**1,225**	**13.1**	**6,509**	**69.8**

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	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Isabella	Emma	Emma	Emma	Emma	Emma
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Sophia	Olivia	Isabella	Olivia	Sophia	Olivia
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Olivia	Mia	Sophia	Sophia	Mia	Mia
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Emily	Sophia	Mia	Mia	Olivia	Sophia
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Madison	Isabella	Olivia	Isabella	Isabella	Leah
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Mia	Ava	Ava	Leah	Ava	Ava
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Emma	Leah	Leah	Ava	Leah	Isabella
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Leah	Emily	Sarah	Chloe	Sarah	Amelia
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Sarah	Sarah	Amelia	Amelia	Chloe	Luna
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Chloe	Abigail	Chloe	Charlotte	Amelia	Sofia

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

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

	Girls					Boys				
Rank	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

	Births and Fetal Deaths*	Maternal Health/ Prematurity		Maternal Care		Newborn Care		Infant Health		Total Fetal-Infant Mortality	
Year	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
Woman's Racial/Ethnic Group, 2017-2021											
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	-
NEW YORK CITY	**542,423**	**1,490**	**2.7**	**1,150**	**2.1**	**427**	**0.8**	**488**	**0.9**	**3,555**	**6.6**

*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.

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

	Births and Fetal Deaths*	Maternal Health/ Prematurity		Maternal Care		Newborn Care		Infant Health		Total Fetal-Infant Mortality	
Community District of Residence	No.	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
MANHATTAN	**77,092**	**140**	**1.8**	**132**	**1.7**	**42**	**0.5**	**44**	**0.6**	**358**	**4.6**
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
BRONX	**87,801**	**345**	**3.9**	**221**	**2.5**	**90**	**1.0**	**114**	**1.3**	**770**	**8.8**
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
BROOKLYN	**179,581**	**474**	**2.6**	**403**	**2.2**	**129**	**0.7**	**163**	**0.9**	**1,169**	**6.5**
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
QUEENS	**113,934**	**286**	**2.5**	**237**	**2.1**	**70**	**0.6**	**111**	**1.0**	**704**	**6.2**
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
STATEN ISLAND	**25,446**	**67**	**2.6**	**55**	**2.2**	**27**	**1.1**	**25**	**1.0**	**174**	**6.8**
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
NEW YORK CITY RESIDENTS	**483,854**	**1,312**	**2.7**	**1,048**	**2.2**	**358**	**0.7**	**457**	**0.9**	**3,175**	**6.6**
NON-RESIDENTS	**58,525**	**171**	**2.9**	**100**	**1.7**	**67**	**1.1**	**29**	**0.5**	**367**	**6.3**
RESIDENCE UNKNOWN	**44**	**7**	**-**	**2**	**-**	**2**	**-**	**2**	**-**	**13**	**-**

*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)
	Total	**400**	**123**	**91**	**123**	**63**
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.

Table IM2. Live Births and Infant Deaths by Mother's Racial/Ethnic Group† and Characteristics of Infant, New York City, 2021

	Live Births					Infant Deaths																			
						Total					Early-Neonatal (< 7 days)					Neonatal (< 28 days)					Post-Neonatal (≥ 28 days)				
Characteristics	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.
Total	**99,262**	**28,662**	**36,023**	**17,608**	**14,927**	**400**	**112**	**66**	**162**	**41**	**181**	**48**	**25**	**71**	**22**	**246**	**64**	**39**	**99**	**29**	**154**	**48**	**27**	**63**	**12**
Sex of Child																									
Male	50,614	14,519	18,446	8,950	7,680	214	56	37	95	19	92	23	12	45	7	123	30	21	57	10	91	26	16	38	9
Female	48,648	14,143	17,577	8,658	7,247	186	56	29	67	22	89	25	13	26	15	123	34	18	42	19	63	22	11	25	3
Birthweight at Delivery (Grams)																									
Low birthweight (<2,500)	9,035	2,537	2,268	2,507	1,491	256	71	33	113	26	151	40	20	63	18	192	52	26	83	21	64	19	7	30	5
Very low birthweight (<1,500)	1,469	419	267	554	186	196	46	25	93	21	131	29	17	60	15	162	37	19	78	18	34	9	6	15	3
2,500-4,000	84,648	24,427	31,190	14,348	12,981	110	28	24	41	15	20	5	4	6	4	41	8	10	14	8	69	20	14	27	7
Above 4,000	5,556	1,696	2,563	752	455	4	1	1	2	-	2	1	-	1	-	2	1	-	1	-	2	-	1	1	-
Not stated	23	2	2	1	-	2	-	1	1	-	2	-	1	1	-	2	-	1	1	-	-	-	-	-	-
Unmatched*	-	-	-	-	-	28	12	7	5	-	6	2	-	-	-	9	3	2	-	-	19	9	5	5	-
Gestational Age (Weeks)																									
Preterm (<37)	9,934	3,109	2,659	2,577	1,386	242	64	35	107	25	153	40	21	65	17	192	49	27	85	21	50	15	8	22	4
Very preterm (<32)	1,513	437	289	559	189	199	45	27	95	21	136	30	19	62	15	166	37	21	80	18	33	8	6	15	3
Full-term	89,307	25,552	33,362	15,030	13,541	129	36	24	49	16	21	6	4	5	5	44	12	10	13	8	85	24	14	36	8
Not stated	21	1	2	1	-	1	-	-	1	-	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-
Unmatched*	-	-	-	-	-	28	12	7	5	-	6	2	-	-	-	9	3	2	-	-	19	9	5	5	-
Plurality																									
Singletons	96,058	27,882	34,795	16,880	14,536	326	84	48	141	38	142	36	16	60	19	200	48	28	87	26	126	36	20	54	12
Multiples	3,204	780	1,228	728	391	46	16	11	16	3	33	10	9	11	3	37	13	9	12	3	9	3	2	4	-
Unmatched*	-	-	-	-	-	28	12	7	5	0	6	2	-	-	-	9	3	2	-	-	19	9	5	5	-
Plurality unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Infants who died in New York City who were born elsewhere are classified as unmatched.
†Other/not stated maternal racial/ethnic groups are not included in this table. Therefore, the total is not equal to the sum of the racial/ethnic groups. NHL= Non-Hispanic/Latino.

Table IM3. Infant Mortality Rate by Mother's Racial/Ethnic Group and Characteristics of Infant, New York City, 2021

	Total					Early-Neonatal (< 7 days)					Neonatal (< 28 days)					Post-Neonatal (≥ 28 days)				
Characteristics	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.	Total	Hisp./ Latino	NHL- White	NHL- Black	Asian & P.I.
Total	**4.0**	**3.9**	**1.8**	**9.2**	**2.7**	**1.8**	**1.7**	**0.7**	**4.0**	**1.5**	**2.5**	**2.2**	**1.1**	**5.6**	**1.9**	**1.6**	**1.7**	**0.7**	**3.6**	**0.8**
Sex of Child																				
Male	4.2	3.9	2.0	10.6	2.5	1.8	1.6	0.7	5.0	0.9	2.4	2.1	1.1	6.4	1.3	1.8	1.8	0.9	4.2	1.2
Female	3.8	4.0	1.6	7.7	3.0	1.8	1.8	0.7	3.0	2.1	2.5	2.4	1.0	4.9	2.6	1.3	1.6	0.6	2.9	0.4
Birthweight at Delivery (Grams)																				
Low birthweight (<2,500)	28.3	28.0	14.6	45.1	17.4	16.7	15.8	8.8	25.1	12.1	21.3	20.5	11.5	33.1	14.1	7.1	7.5	3.1	12.0	3.4
Very low birthweight (<1,500)	133.4	109.8	93.6	167.9	112.9	89.2	69.2	63.7	108.3	80.6	110.3	88.3	71.2	140.8	96.8	23.1	21.5	22.5	27.1	16.1
2,500-4,000	1.3	1.1	0.8	2.9	1.2	0.2	0.2	0.1	0.4	0.3	0.5	0.3	0.3	1.0	0.6	0.8	0.8	0.4	1.9	0.5
Above 4,000	0.7	0.6	0.4	2.7	-	0.4	0.6	-	1.3	-	0.4	0.6	-	1.3	-	0.4	-	0.4	1.3	-
Gestational Age (Weeks)																				
Preterm (<37)	24.4	20.6	13.2	41.5	18.0	15.4	12.9	7.9	25.2	12.3	19.3	15.8	10.2	33.0	15.2	5.0	4.8	3.0	8.5	2.9
Very preterm (<32)	131.5	103.0	93.4	169.9	111.1	89.9	68.6	65.7	110.9	79.4	109.7	84.7	72.7	143.1	95.2	21.8	18.3	20.8	26.8	15.9
Full-term	1.4	1.4	0.7	3.3	1.2	0.2	0.2	0.1	0.3	0.4	0.5	0.5	0.3	0.9	0.6	1.0	0.9	0.4	2.4	0.6
Plurality																				
Singletons	3.4	3.0	1.4	8.4	2.6	1.5	1.3	0.5	3.6	1.3	2.1	1.7	0.8	5.2	1.8	1.3	1.3	0.6	3.2	0.8
Multiples	14.4	20.5	9.0	22.0	7.7	10.3	12.8	7.3	15.1	7.7	11.5	16.7	7.3	16.5	7.7	2.8	3.8	1.6	5.5	0.0

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
Live Births, Total	**117,013**	**114,296**	**110,442**	**100,022**	**99,262**
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
Infant Deaths (< 1 year), Total	**500**	**446**	**464**	**388**	**400**
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
Infant Mortality Rate, Total	**4.3**	**3.9**	**4.2**	**3.9**	**4.0**
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
Neonatal Deaths (< 28 days), Total	**344**	**278**	**305**	**244**	**246**
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
Neonatal Mortality Rate, Total	**2.9**	**2.4**	**2.8**	**2.4**	**2.5**
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

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

Birthplace†	2015-2017	2016-2018	2017-2019	2018-2020	2019-2021
New York City	**4.2**	**4.1**	**4.1**	**4.0**	**4.0**
United States‡	**4.4**	**4.2**	**4.3**	**4.0**	**4.1**
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.
†Foreign countries are listed according to the descending order of infant mortality rates in the most current period.
‡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		2017–2019*		2018–2020*		2019–2021*	
		Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate
CD	**NEW YORK CITY**	**4.1**	**2.7**	**4.0**	**2.5**	**4.0**	**2.6**
	MANHATTAN	**2.7**	**1.9**	**2.5**	**1.7**	**2.7**	**1.8**
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
	BRONX	**5.2**	**3.2**	**5.1**	**3.1**	**5.3**	**3.5**
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
	BROOKLYN	**3.5**	**2.2**	**3.3**	**2.0**	**3.2**	**1.9**
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
	QUEENS	**3.9**	**2.6**	**3.9**	**2.5**	**3.9**	**2.5**
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
	STATEN ISLAND	**4.6**	**3.5**	**3.4**	**2.4**	**4.2**	**2.7**
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.

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

			Infant Mortality Rate (IMR) Per 1,000 Live Births					
	Live Births		All		Neonatal*		Post-Neonatal*	
Characteristics	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	**99,262**	**100.0**	**400**	**4.0**	**246**	**2.5**	**154**	**1.6**
Race/Ethnicity								
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	-
Borough of Residence								
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	-
Age of Mother								
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	-
Mother's Education								
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	-
Marital Status of Mother‡								
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	-
Mother's Birthplace§								
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	-
Primary Payer for This Birth								
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	-
Plurality								
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	-
First Prenatal Care Visit								
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	-
Pre-pregnancy Body Mass Index (BMI)								
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	-
Birthweight								
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.

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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

Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	Borough of Residence							Sex		ICD-10/ICD-9 Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Unknown	Male	Female	
Total Deaths	**63,551**	**10,709**	**11,129**	**17,970**	**14,665**	**4,171**	**4,648**	**259**	**32,950**	**30,601**	
Natural Causes	**58,158**	**9,779**	**9,853**	**16,675**	**13,709**	**3,895**	**4,130**	**117**	**28,995**	**29,163**	
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

MORTALITY

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)	Total	Borough of Residence							Sex		ICD-10/ICD-9 Comparability Ratio
			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
14.*	**Influenza and Pneumonia (J09-J18)**	**1,628**	**189**	**332**	**556**	**375**	**75**	**99**	**2**	**866**	**762**	**0.70**
	H1N1 Flu (J09)	0	-	-	-	-	-	-	-	-	-	
15.*	**Chronic Lower Respiratory Diseases (J40-J47)**	**1,379**	**223**	**293**	**355**	**295**	**151**	**60**	**2**	**631**	**748**	**1.04**
	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
16.	**Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)**	**2**	**-**	**-**	**-**	**1**	**1**	**-**	**-**	**2**	**-**	
17.*	**Pneumonitis Due to Solids and Liquids (J69)**	**295**	**59**	**41**	**98**	**79**	**4**	**13**	**1**	**136**	**159**	**1.10**
18.*	**Peptic Ulcer (K25-K28)**	**72**	**15**	**15**	**21**	**11**	**5**	**5**	**-**	**37**	**35**	**0.97**
19.*	**Chronic Liver Disease and Cirrhosis (K70, K73-K74)**	**606**	**85**	**128**	**140**	**141**	**27**	**81**	**4**	**416**	**190**	**1.03**
	Alcoholic liver disease (K70)	388	55	82	86	94	16	51	4	285	103	1.00
20.*	**Cholelithiasis and Other Disorders of Gallbladder (K80-K82)**	**93**	**23**	**20**	**23**	**16**	**4**	**7**	**-**	**38**	**55**	**0.96**
21.*	**Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)**	**691**	**131**	**99**	**237**	**142**	**32**	**50**	**-**	**369**	**322**	**1.26**
	Renal failure (N17-N19)	671	130	97	229	135	31	49	-	359	312	1.33
22.*	**Pregnancy, Childbirth, and the Puerperium (O00-O99)**	**23**	**2**	**5**	**7**	**4**	**-**	**5**	**-**	**-**	**23**	**1.14**
	Maternal causes (A34, O00-O95, O98-O99)§	22	2	4	7	4	-	5	-	-	22	
23.*	**Certain Conditions Originating in the Perinatal Period (P00-P96)**	**195**	**16**	**39**	**52**	**41**	**14**	**32**	**1**	**103**	**92**	**1.08**
24.*	**Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)**	**185**	**25**	**32**	**40**	**29**	**7**	**50**	**2**	**101**	**84**	**0.90**
25.	**Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)**	**577**	**135**	**81**	**150**	**148**	**18**	**44**	**1**	**240**	**337**	**0.98**
26.	**Sudden Infant Death Syndrome (R95)**	**25**	**3**	**6**	**9**	**3**	**3**	**1**	**-**	**16**	**9**	**1.06**
	Pending final determination (R99)	0	-	-	-	-	-	-	-	-	-	
27.	**Covid-19**	**8,229**	**1,067**	**1,390**	**2,637**	**2,087**	**564**	**477**	**7**	**4,574**	**3,655**	
28.	**All Other Natural Causes (Rest of A00-R99)**	**5,078**	**1,025**	**884**	**1,398**	**1,105**	**246**	**404**	**16**	**2,248**	**2,830**	
External Causes		**5,393**	**930**	**1,276**	**1,295**	**956**	**276**	**518**	**142**	**3,955**	**1,438**	
28.	**Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)**	**390**	**49**	**113**	**116**	**58**	**18**	**35**	**1**	**361**	**29**	**1.00**
29.	**Accidents (V01-X59,Y85-Y86)**	**3,993**	**690**	**1,018**	**918**	**683**	**218**	**369**	**97**	**2,859**	**1,134**	**1.03**
	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
†	**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) ‡**	**2,744**	**463**	**809**	**601**	**393**	**150**	**253**	**75**	**2,066**	**678**	
†	**Accidents except poisoning by psychoactive substance use**	**1,327**	**238**	**237**	**330**	**298**	**74**	**124**	**26**	**857**	**470**	
	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
30.*	**Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)**	**563**	**118**	**68**	**137**	**127**	**31**	**69**	**13**	**420**	**143**	**1.00**
31.*	**Assault (Homicide) (U01-U02, X85-Y09, Y87.1)**	**512**	**75**	**139**	**152**	**73**	**19**	**43**	**11**	**442**	**70**	**1.00**
32.*	**Legal Intervention (Y35, Y89.0)**	**4**	**-**	**1**	**2**	**-**	**-**	**1**	**-**	**4**	**-**	**0.94**
33.	**Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)**	**243**	**36**	**39**	**62**	**59**	**6**	**20**	**21**	**191**	**52**	**0.99**
34.*	**Complications of Medical and Surgical Care (Y40-Y84, Y88)**	**78**	**11**	**11**	**24**	**14**	**2**	**16**	**-**	**39**	**39**	**0.63**
35.*	**Operations of War and Their Sequelae (Y36,Y89.1)**	**0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	

*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

	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		Total	Male	Female
Age in Years	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.	No.	No.
All Ages	**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**	**1,121**	**749**
Age-Adjusted		**6.2**		**7.6**		**5.0**		**5.8**		**7.4**		**4.5**		**5.8**		**7.0**		**4.8**		**7.7**		**9.6**		**6.3**		**4.2**		**5.4**		**3.3**			
Under 5	472	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	20	31
5-9	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
10-14	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	-
15-19	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	-
20-24	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
25-29	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
30-34	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
35-39	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
40-44	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
45-49	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
50-54	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
55-59	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
60-64	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
65-69	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
70-74	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
75-79	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
80-84	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
≥85	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
Mean age at death	**72.4**		**68.8**		**76.2**		**69.3**		**65.2**		**73.9**		**77.0**		**73.6**		**80.5**		**68.5**		**64.4**		**72.5**		**73.9**		**71.9**		**76.6**		**65.7**	**64.0**	**68.3**
Median age at death	**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.

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

Mother's Ancestry	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Residence Unknown
Total	**63,551**	**10,709**	**11,129**	**17,970**	**14,665**	**4,171**	**4,648**	**259**
Hispanic/Latino								
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
North American and the Caribbean								
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
African								
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
European								
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
Asian								
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
Other								
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.

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

	2017		2018		2019		2020		2021	
Place of Death	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	**54,319**	**100.0**	**55,081**	**100.0**	**54,559**	**100.0**	**82,143**	**100.0**	**63,551**	**100.0**
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.

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

		Borough of Residence						
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	**63,551**	**10,709**	**11,129**	**17,970**	**14,665**	**4,171**	**4,648**	**259**
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.

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

Birthplace	Total	Age Group (Years)								
		<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	**63,551**	**585**	**507**	**1,436**	**2,362**	**4,177**	**9,165**	**12,964**	**14,263**	**18,092**
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.

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

		All		Male		Female	
Rank	ALL AGES	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
	Total	**63,551**	**100.0**	**32,950**	**100.0**	**30,601**	**100.0**
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
	Total	**400**	**100.0**	**214**	**100.0**	**186**	**100.0**
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
	Total	**185**	**100.0**	**101**	**100.0**	**84**	**100.0**
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
	Total	**507**	**100.0**	**380**	**100.0**	**127**	**100.0**
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
	Total	**1,436**	**100.0**	**1,014**	**100.0**	**422**	**100.0**
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
	Total	**2,362**	**100.0**	**1,606**	**100.0**	**756**	**100.0**

Table is continued on following page

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

		All		Male		Female	
Rank	45 - 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
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
	Total	**4,177**	**100.0**	**2,683**	**100.0**	**1,494**	**100.0**
Rank	**55 - 64 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
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
	Total	**9,165**	**100.0**	**5,737**	**100.0**	**3,428**	**100.0**
Rank	**65 - 74 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
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
	Total	**12,964**	**100.0**	**7,390**	**100.0**	**5,574**	**100.0**
Rank	**75 - 84 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
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
	Total	**14,263**	**100.0**	**7,089**	**100.0**	**7,174**	**100.0**
Rank	**≥85 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
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
	Total	**18,092**	**100.0**	**6,736**	**100.0**	**11,356**	**100.0**

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

		All		Male		Female	
Rank	Puerto Rican	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
	Total	**5,560**	**100.0**	**2,833**	**100.0**	**2,727**	**100.0**
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
	Total	**8,454**	**100.0**	**4,676**	**100.0**	**3,778**	**100.0**
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
	Total	**6,160**	**100.0**	**3,496**	**100.0**	**2,664**	**100.0**
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
	Total	**24,232**	**100.0**	**12,337**	**100.0**	**11,895**	**100.0**
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
	Total	**17,275**	**100.0**	**8,487**	**100.0**	**8,788**	**100.0**

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

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

		All		Male		Female	
Rank	Cause of Death	Deaths	Percent	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
	Total	**18,232**	**100.0**	**11,735**	**100.0**	**6,497**	**100.0**

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

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

		All		Male		Female	
Rank	Puerto Rican	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
	Total	**1,478**	**100.0**	**963**	**100.0**	**515**	**100.0**
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
	Total	**3,480**	**100.0**	**2,379**	**100.0**	**1,101**	**100.0**
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
	Total	**1,478**	**100.0**	**955**	**100.0**	**523**	**100.0**
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
	Total	**4,594**	**100.0**	**3,032**	**100.0**	**1,562**	**100.0**
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
	Total	**6,439**	**100.0**	**3,907**	**100.0**	**2,532**	**100.0**

* 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

				Racial/Ethnic Group												Sex					
	Total			Hispanic/Latino			Non-Hispanic/Latino White			Non-Hispanic/Latino Black			Asian & Pacific Islander			Other/ Un-known	Male			Female		
Cause of Death	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.	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate
All Causes†	**63,551**	**7.5**	**6.1**	**14,014**	**5.7**	**5.7**	**24,232**	**9.0**	**5.9**	**17,275**	**9.4**	**7.7**	**6,160**	**4.8**	**4.1**	**1,870**	**32,950**	**8.1**	**7.5**	**30,601**	**6.9**	**5.0**
Natural Causes	**58,158**	**686.8**	**553.6**	**12,403**	**503.3**	**506.7**	**22,584**	**840.5**	**533.1**	**15,649**	**847.2**	**690.2**	**5,852**	**454.6**	**384.6**	**1,670**	**28,995**	**713.4**	**659.1**	**29,163**	**662.3**	**469.9**
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	2,280	92.5	92.2	4,804	178.8	121.2	2,904	157.2	127.1	1,334	103.6	86.7	256	5,638	138.7	126.1	5,940	134.9	101.4
Malignant neoplasm of stomach	413	4.9	4.0	105	4.3	4.2	113	4.2	2.9	108	5.8	4.7	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	2,230	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
External Causes	**5,393**	**63.7**	**58.9**	**1,611**	**65.4**	**64.0**	**1,648**	**61.3**	**53.1**	**1,626**	**88.0**	**81.6**	**308**	**23.9**	**22.3**	**200**	**3,955**	**97.3**	**92.1**	**1,438**	**32.7**	**28.6**
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 M12. Deaths and Death Rates* per 100,000 Population from Selected Underlying Causes by Community District of Residence, New York City, 2021

Community District of Residence	2021 Pop. Est.	All Causes (Rate per 1,000) No.	Crude Rate	Age-Adj. Rate	Heart Diseases No.	Crude Rate	Malignant Neoplasms No.	Crude Rate	HIV Disease No.	Crude Rate	Influenza and Pneumonia No.	Crude Rate	Cerebro-vascular Diseases No.	Crude Rate	Chronic Lower Respiratory Diseases No.	Crude Rate	Chronic Liver Disease & Cirrhosis No.	Crude Rate	Diabetes Mellitus No.	Crude Rate	Mental Disorders due to Substance Use & Accidental Poisoning No.	Crude Rate	Accidents Except Drug Poisoning No.	Crude Rate	Intentional Self-harm (Suicide) No.	Crude Rate	Assault (Homicide)† No.	Crude Rate	Events of Undeter-mined Intent No.	Crude Rate
ALL DEATH EVENTS	**8,467,513**	**63,551**	**7.5**	**6.1**	**16,568**	**195.7**	**11,578**	**136.7**	**319**	**3.8**	**1,628**	**19.2**	**2,149**	**25.4**	**1,379**	**16.3**	**606**	**7.2**	**1,714**	**20.2**	**2,744**	**32.4**	**1,327**	**15.7**	**563**	**6.6**	**512**	**6.0**	**243**	**2.9**
MANHATTAN‡	**1,566,363**	**10,638**	**6.8**	**4.9**	**2,610**	**166.6**	**2,036**	**130.0**	**62**	**4.0**	**184**	**11.7**	**391**	**25.0**	**223**	**14.2**	**84**	**5.4**	**258**	**16.5**	**457**	**29.2**	**235**	**15.0**	**118**	**7.5**	**75**	**4.8**	**36**	**2.3**
Battery Park, Tribeca (01)	57,765	210	3.6	4.1	67	116.0	36	62.3	-	-	6	10.4	9	15.6	6	10.4	2	4	6	10.4	9	15.6	2	3.5	5	8.7	-	-	-	-
Greenwich Village, SOHO (02)	84,271	392	4.7	3.3	108	128.2	91	108.0	1	1	5	5.9	11	13.1	8	9.5	3	3.6	11	13.1	7	8.3	11	13.1	7	8.3	-	-	2	2
Lower East Side (03)	164,150	1,445	8.8	5.6	319	194.3	235	143.2	5	3.0	36	21.9	67	40.8	34	20.7	7	4.3	49	29.9	60	36.6	29	17.7	16	9.7	10	6.1	1	0.6
Chelsea, Clinton (04)	137,340	640	4.7	3.8	136	99.0	132	96.1	8	5.8	18	13.1	18	13.1	15	10.9	10	7.3	19	13.8	45	32.8	19	13.8	8	5.8	2	1.5	4	2.9
Midtown Business District (05)	57,097	259	4.5	3.8	67	117.3	49	85.8	5	8.8	3	5.3	12	21.0	4	7.0	1	1.8	3	5.3	23	40.3	10	17.5	7	12.3	1	2	-	-
Murray Hill (06)	132,940	793	6.0	3.7	192	144.4	175	131.6	3	2.3	8	6.0	28	21.1	10	7.5	10	7.5	12	9.0	30	22.6	24	18.1	19	14.3	4	3	2	1.5
Upper West Side (07)	202,414	1,454	7.2	4.3	364	179.8	323	159.6	6	3.0	33	16.3	50	24.7	29	14.3	11	5.4	19	9.4	39	19.3	32	15.8	11	5.4	1	0.5	5	2.5
Upper East Side (08)	211,756	1,310	6.2	3.6	343	162.0	292	137.9	3	1	13	6.1	64	30.2	31	14.6	4	1.9	10	4.7	18	8.5	27	12.8	14	6.6	-	-	5	2.4
Manhattanville (09)	103,970	704	6.8	6.1	172	165.4	122	117.3	10	9.6	9	8.7	25	24.0	8	7.7	3	2.9	21	20.2	31	29.8	10	9.6	7	6.7	10	9.6	2	1.9
Central Harlem (10)	110,570	1,010	9.1	9.0	269	243.3	166	150.1	8	7.2	22	19.9	18	16.3	23	20.8	4	3.6	31	28.0	64	57.9	16	14.5	5	4.5	14	12.7	6	5.4
East Harlem (11)	118,409	1,222	10.3	8.7	294	248.3	212	179.0	9	7.6	20	16.9	37	31.2	25	21.1	18	15.2	37	31.2	66	55.7	27	22.8	10	8.4	24	20.3	4	3.4
Washington Heights (12)	185,656	1,199	6.5	5.1	279	150.3	203	109.3	4	2.2	11	5.9	52	28.0	30	16.2	11	5.9	40	21.5	65	35.0	28	15.1	9	4.8	9	4.8	5	2.7
BRONX‡	**1,429,148**	**11,179**	**7.8**	**7.2**	**2,701**	**189.0**	**1,755**	**122.8**	**133**	**9.3**	**336**	**23.5**	**406**	**28.4**	**293**	**20.5**	**128**	**9.0**	**338**	**23.7**	**809**	**56.6**	**237**	**16.6**	**68**	**4.8**	**139**	**9.7**	**39**	**2.7**
Mott Haven (01)	96,584	855	8.9	9.1	191	197.8	118	122.2	9	9.3	22	22.8	27	28.0	23	23.8	15	15.5	30	31.1	80	82.8	26	26.9	5	5.2	18	18.6	2	2.1
Hunts Point (02)	55,096	448	8.1	8.5	91	165.2	55	99.8	4	7.3	11	20.0	19	34.5	7	12.7	5	9.1	23	41.7	50	90.8	9	16.3	2	4	9	16.3	3	5.4
Morrisania (03)	89,172	748	8.4	9.2	180	201.9	113	126.7	20	22.4	22	24.7	20	22.4	23	25.8	8	9.0	17	19.1	88	98.7	13	14.6	3	3.4	17	19.1	4	4.5
Concourse, Highbridge (04)	152,930	1,043	6.8	7.1	238	155.6	154	100.7	17	11.1	55	36.0	48	31.4	32	20.9	13	8.5	28	18.3	91	59.5	28	18.3	6	3.9	16	10.5	4	2.6
University/Morris Heights (05)	132,558	860	6.5	7.6	187	141.1	109	82.2	18	13.6	23	17.4	32	24.1	27	20.4	15	11.3	19	14.3	102	76.9	20	15.1	6	4.5	16	12.1	6	5
East Tremont (06)	85,206	668	7.8	8.7	152	178.4	92	108.0	15	17.6	17	20.0	15	17.6	12	14.1	10	11.7	23	27.0	77	90.4	11	12.9	5	5.9	10	11.7	3	3.5
Fordham (07)	144,924	992	6.8	7.2	200	138.0	164	113.2	16	11.0	23	15.9	44	30.4	31	21.4	16	11.0	27	18.6	91	62.8	18	12.4	15	10.4	7	4.8	1	1
Riverdale (08)	101,146	961	9.5	5.9	275	271.9	168	166.1	8	7.9	26	25.7	28	27.7	30	29.7	5	4.9	23	22.7	30	29.7	20	19.8	3	3.0	2	2	1	1
Unionport, Soundview (09)	182,722	1,310	7.2	6.6	299	163.6	206	112.7	7	3.8	45	24.6	44	24.1	33	18.1	13	7.1	57	31.2	71	38.9	28	15.3	4	2.2	11	6.0	2	1.1
Throgs Neck (10)	120,296	1,180	9.8	6.5	317	263.5	212	176.2	2	2	29	24.1	50	41.6	33	27.4	8	6.7	31	25.8	43	35.7	19	15.8	4	3.3	7	5.8	9	7.5
Pelham Parkway (11)	113,909	955	8.4	6.6	258	226.5	164	144.0	7	6.1	30	26.3	41	36.0	17	14.9	9	7.9	18	15.8	34	29.8	23	20.2	10	8.8	10	8.8	3	2.6
Williamsbridge (12)	152,732	1,159	7.6	6.5	313	204.9	200	130.9	10	6.5	33	21.6	38	24.9	25	16.4	11	7.2	42	27.5	52	34.0	22	14.4	5	3.3	16	10.5	1	0.7
BROOKLYN	**2,641,052**	**17,963**	**6.8**	**5.9**	**4,968**	**188.1**	**3,068**	**116.2**	**87**	**3.3**	**556**	**21.1**	**556**	**21.1**	**354**	**13.4**	**140**	**5.3**	**528**	**20.0**	**597**	**22.6**	**329**	**12.5**	**137**	**5.2**	**152**	**5.8**	**62**	**2.3**
Williamsburg, Greenpoint (01)	200,333	881	4.4	5.1	231	115.3	134	66.9	4	2.0	23	11.5	31	15.5	17	8.5	6	3.0	28	14.0	52	26.0	23	11.5	8	4.0	6	3.0	3	1.5
Fort Greene, Brooklyn Heights (02)	135,573	682	5.0	4.6	175	129.1	115	84.8	3	2.2	11	8.1	26	19.2	12	8.9	8	5.9	36	26.6	23	17.0	9	6.6	6	4.4	2	1.5	3	2.2
Bedford Stuyvesant (03)	148,149	1,053	7.1	6.9	268	180.9	176	118.8	9	6.1	18	12.1	29	19.6	23	15.5	8	5.4	38	25.6	54	36.4	14	9.4	7	4.7	18	12.1	1	0.7
Bushwick (04)	109,284	537	4.9	5.6	115	105.2	81	74.1	8	7.3	22	20.1	20	18.3	12	11.0	8	7.3	18	16.5	29	26.5	10	9.2	5	4.6	7	6.4	-	-
East New York (05)	174,829	1,516	8.7	8.2	355	203.1	245	140.1	16	9.2	38	21.7	61	34.9	38	21.7	14	8.0	49	28.0	84	48.0	37	21.2	10	5.7	22	12.6	1	0.6
Park Slope (06)	111,414	478	4.3	4.6	132	118.5	90	80.8	1	0.9	5	4.5	15	13.5	7	6.3	4	3.6	14	12.6	33	29.6	10	9.0	7	6.3	7	6.3	1	1
Sunset Park (07)	131,654	623	4.7	5.2	114	86.6	138	104.8	-	-	21	16.0	22	16.7	17	12.9	12	9.1	18	13.7	20	15.2	13	9.9	6	4.6	2	1.5	3	2
Crown Heights North (08)	95,452	662	6.9	6.2	170	178.1	105	110.0	7	7.3	14	14.7	24	25.1	11	11.5	2	2.1	36	37.7	22	23.0	16	16.8	5	5.2	12	12.6	2	2.1
Crown Heights South (09)	97,515	667	6.8	5.5	191	195.9	107	109.7	5	5.1	17	17.4	23	23.6	8	8.2	3	3.1	28	28.7	16	16.4	12	12.3	4	4.1	6	6.2	-	-
Bay Ridge (10)	144,859	927	6.4	4.9	258	178.1	176	121.5	-	-	34	23.5	28	19.3	26	17.9	4	2.8	20	13.8	28	19.3	23	15.9	8	5.5	-	-	4	2.8
Bensonhurst (11)	209,834	1,470	7.0	5.1	435	207.3	277	132.0	-	-	54	25.7	37	17.6	38	18.1	10	4.8	32	15.3	25	11.9	26	12.4	10	4.8	2	1	5	2.4
Borough Park (12)	204,610	966	4.7	4.7	265	129.5	163	79.7	-	-	78	38.1	23	11.2	15	7.3	11	5.4	26	12.7	14	6.8	14	6.8	5	2.4	1	0.5	6	2.9
Coney Island (13)	109,909	1,483	13.5	7.5	506	460.4	210	191.1	3	3	48	43.7	29	26.4	27	24.6	9	8.2	20	18.2	45	40.9	19	17.3	11	10.0	7	6.4	5	4.5
Flatbush, Midwood (14)	165,630	1,082	6.5	5.7	317	191.4	188	113.5	5	3.0	32	19.3	28	16.9	12	7.2	9	5.4	22	13.3	18	10.9	9	5.4	9	5.4	1	0.6	6	3.6
Sheepshead Bay (15)	178,777	1,459	8.2	5.4	506	283.0	224	125.3	1	0.6	42	23.5	37	20.7	32	17.9	9	5.0	18	10.1	27	15.1	29	16.2	18	10.1	2	1.1	6	3.4
Brownsville (16)	81,386	877	10.8	10.2	220	270.3	133	163.4	11	13.5	25	30.7	30	36.9	24	29.5	13	16.0	34	41.8	50	61.4	13	16.0	5	6.1	27	33.2	3	3.7
East Flatbush (17)	150,946	1,186	7.9	6.0	304	201.4	233	154.4	6	4.0	29	19.2	43	28.5	13	8.6	3	2.0	52	34.4	33	21.9	25	16.6	7	4.6	14	9.3	8	5.3
Canarsie (18)	190,798	1,414	7.4	6.1	406	212.8	273	143.1	8	4.2	45	23.6	50	26.2	22	11.5	7	3.7	39	20.4	24	12.6	27	14.2	6	3.1	16	8.4	5	2.6
QUEENS	**2,337,456**	**14,659**	**6.3**	**4.8**	**4,189**	**179.2**	**2,562**	**109.6**	**21**	**0.9**	**375**	**16.0**	**517**	**22.1**	**295**	**12.6**	**141**	**6.0**	**359**	**15.4**	**390**	**16.7**	**298**	**12.7**	**127**	**5.4**	**73**	**3.1**	**58**	**2.5**
Astoria, Long Island City (01)	193,735	1,125	5.8	5.2	344	177.6	193	99.6	2	1.0	33	17.0	38	19.6	19	9.8	9	4.6	18	9.3	45	23.2	25	12.9	11	5.7	6	3.1	6	3.1
Sunnyside, Woodside (02)	153,365	564	3.7	3.2	154	100.4	118	76.9	1	1	10	6.5	22	14.3	10	6.5	5	3.3	7	4.6	16	10.4	17	11.1	7	4.6	2	1	3	2.0
Jackson Heights (03)	177,841	880	4.9	4.3	234	131.6	160	90.0	-	-	31	17.4	30	16.9	9	5.1	19	10.7	16	9.0	24	13.5	19	10.7	7	3.9	3	1.7	7	3.9
Elmhurst, Corona (04)	186,425	880	4.7	4.2	203	108.9	169	90.7	1	0.5	22	11.8	40	21.5	7	3.8	11	5.9	22	11.8	13	7.0	29	15.6	9	4.8	2	1.1	7	3.8
Ridgewood, Glendale (05)	161,860	1,113	6.9	5.9	309	190.9	188	116.1	1	0.6	27	16.7	40	24.7	32	19.8	12	7.4	26	16.1	42	25.9	19	11.7	25	15.4	1	0.6	3	1.9
Rego Park, Forest Hills (06)	114,552	843	7.4	4.2	246	214.7	157	137.1	1	1	18	15.7	27	23.6	22	19.2	2	1.7	20	17.5	11	9.6	14	12.2	6	5.2	3	3	4	3.5
Flushing (07)	265,650	1,943	7.3	4.3	547	205.9	359	135.1	1	0.4	65	24.5	75	28.2	45	16.9	11	4.1	39	14.7	36	13.6	35	13.2	23	8.7	7	2.6	3	1.1
Fresh Meadows, Briarwood (08)	155,477	952	6.1	4.2	301	193.6	162	104.2	1	0.6	26	16.7	26	16.7	20	12.9	5	3.2	27	17.4	18	11.6	13	8.4	1	0.6	4	2.6	4	2.6
Woodhaven (09)	146,449	818	5.6	5.3	177	120.9	134	91.5	1	0.7	23	15.7	25	17.1	15	10.2	14	9.6	27	18.4	19	13.0	23	15.7	6	4.1	4	2.7	1	0.7
Howard Beach (10)	124,663	862	6.9	5.7	236	189.3	135	108.3	1	1	22	17.6	34	27.3	12	9.6	14	11.2	24	19.3	16	12.8	19	15.2	6	4.8	-	-	2	1.6
Bayside (11)	119,469	724	6.1	3.8	246	205.9	141	118.0	-	-	13	10.9	22	18.4	19	15.9	4	3.3	20	16.7	18	15.1	13	10.9	7	5.9	1	1	2	1.7
Jamaica, St. Albans (12)	231,221	1,671	7.2	5.8	476	205.9	255	110.3	5	2.2	37	16.0	67	29.0	31	13.4	20	8.6	50	21.6	68	29.4	38	16.4	5	2.2	20	8.6	8	3.5
Queens Village (13)	193,280	1,193	6.2	4.4	351	181.6	218	112.8	1	1	13	6.7	37	19.1	22	11.4	9	4.7	35	18.1	23	11.9	17	8.8	8	4.1	11	5.7	2	1.0
The Rockaways (14)	112,669	1,091	9.7	7.9	365	324.0	173	153.5	5	4.4	35	31.1	34	30.2	32	28.4	6	5.3	28	24.9	41	36.4	17	15.1	6	5.3	9	8.0	6	5.3
STATEN ISLAND	**493,494**	**4,171**	**8.5**	**6.8**	**1,244**	**252.1**	**796**	**161.3**	**2**	**0.4**	**75**	**15.2**	**125**	**25.3**	**151**	**30.6**	**27**	**5.5**	**159**	**32.2**	**150**	**30.4**	**74**	**15.0**	**31**	**6.3**	**19**	**3.9**	**6**	**1.2**
Port Richmond (01)	189,893	1,470	7.7	7.0	431	227	261	137.4	1	0.5	36	19.0	51	26.9	59	31.1	17	9.0	59	31.1	64	33.7	27	14.2	10	5.3	12	6.3	2	1.1
Willowbrook, South Beach (02)	142,374	1,304	9.2	6.3	426	299.2	243	170.7	-	-	17	11.9	37	26.0	42	29.5	6	4.2	54	37.9	37	26.0	21	14.7	9	6.3	5	4	4	2.8
Tottenville (03)	160,506	1,396	8.7	7.2	387	241.1	292	181.9	1	1	22	13.7	37	23.1	50	31.2	4	2.5	46	28.7	49	30.5	26	16.2	12	7.5	2	1	-	-
NONRESIDENTS	**-**	**4,648**	**-**	**-**	**811**	**-**	**1,351**	**-**	**12**	**-**	**99**	**-**	**153**	**-**	**60**	**-**	**81**	**-**	**70**	**-**	**253**	**-**	**124**	**-**	**69**	**-**	**43**	**-**	**20**	**-**
RESIDENCE UNKNOWN	**-**	**259**	**-**	**-**	**40**	**-**	**7**	**-**	**2**	**-**	**2**	**-**	**1**	**-**	**2**	**-**	**4**	**-**	**2**	**-**	**75**	**-**	**26**	**-**	**13**	**-**	**11**	**-**	**21**	**-**

Note: Borough totals may be higher than the sum of the community districts, as they may include some deaths whose community district could not be determined.
* Rates are calculated based on 2021 Census population estimates derived by the Bureau of Epidemiology Services. See Technical Notes: Population, Community District.
† See Technical Notes: Deaths, Homicide.
‡ The northernmost Manhattan neighborhood of Marble Hill is in the Bronx under the community district system. As a result, the numbers of deaths in Manhattan and the Bronx are slightly different from Table M1.

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

Annual

Cause (ICD-10 Codes)‡‡	1901-1905	1906-1910	1911-1915	1916-1920	1921-2925	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	1,294
Rate										21.9	22.2	27.0	30.9	34.8
Trachea, bronchus, and lung, female (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	220	179	228	261	303
Rate										5.5	4.4	5.6	6.4	7.4
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	263
Rate												1.0	1.2	3.4
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.

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* *	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	5.1	5.2	4.9	5.4	4.6
§§	§§	§§	§§	§§	§§	30	32	39	37	29	30	27	39	24	43	32	43	22	23
						24.1	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
73	36	28	33	29	26	22	29	32	30	23	25	23	35	18	25	23	21	19	22
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	39	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	0.2	0.3	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	||	||	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	777	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	1,136	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
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
			||	2.0	0.7	0.3	0.5	4.3	7.3	7.9	8.6	8.5	10.0	15.5	16.2	16.4	17.6	23.5	31.5
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
§§	§§	§§	§§	§§	269	243	196	154	171	166	180	182	167	157	161	174	172	204	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	2.3	1.6

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

Cause	Total† 2,423	Male 2,149	Female 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 liver disease	388	285	103
Degeneration of nervous system due to alcohol	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

	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)		
Disease Category	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Total	**4,585**	**3,414**	**7,999**	**223.7**	**118.8**	**163.1**	**4,494**	**3,070**	**7,564**	**212.9**	**105.0**	**150.8**	**5,041**	**3,497**	**8,538**	**226.6**	**116.0**	**163.9**	**3,858**	**2,413**	**6,271**	**169.3**	**79.4**	**118.5**
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.

MORTALITY

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

		All																Male					
	Age and Racial/Ethnic Groups	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1983-2006	2007	2008	2009	2010	2011
ALL AGES	**Total**	**75,642**	**1,115**	**1,073**	**933**	**832**	**766**	**609**	**579**	**523**	**483**	**432**	**369**	**331**	**340**	**340**	**319**	**57,706**	**711**	**702**	**603**	**574**	**528**
	Puerto Rican (PR)	14,138	224	217	187	196	186	115	138	88	102	70	63	44	50	55	59	10,383	142	138	125	135	123
	Hisp./Latino (not 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
	Asian & Pacific Islander	487	5	10	3	6	4	5	8	2	5	6	5	3	3	5	8	431	3	7	2	3	2
	Non-Hisp./Lat. White	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. Black	31,593	625	583	537	449	421	359	311	298	277	231	201	180	195	182	166	21,940	377	356	329	297	277
	Other or Unknown	3,829	15	16	11	9	15	13	15	30	20	26	12	14	10	22	22	3,064	10	13	8	9	12
0-24	**Total**	**2,396**	**21**	**17**	**15**	**8**	**16**	**13**	**8**	**9**	**8**	**7**	**2**	**2**	**4**	**3**	**1**	**1,315**	**10**	**7**	**6**	**4**	**13**
	Puerto Rican	452	7	3	2	1	4	2	-	-	2	-	-	1	-	-	1	253	3	-	-	-	2
	Hisp./Latino (not PR)	264	5	-	3	-	-	2	-	-	1	-	1	-	1	1	-	162	4	-	-	-	-
	Asian & Pacific Islander	14	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-
25-34	**Total**	**17,109**	**52**	**77**	**49**	**37**	**40**	**34**	**29**	**28**	**28**	**31**	**33**	**21**	**27**	**27**	**22**	**12,326**	**32**	**48**	**32**	**27**	**29**
	Puerto Rican	3,535	8	8	7	11	2	3	5	4	5	3	2	-	2	2	4	2,466	3	5	6	7	2
	Hisp./Latino (not PR)	1,808	4	11	3	8	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	2	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	17
	Other or Unknown	896	1	-	-	-	-	-	1	1	1	-	1	1	1	1	1	673	1	-	-	-	-
35-44	**Total**	**31,631**	**311**	**246**	**190**	**142**	**125**	**90**	**73**	**60**	**64**	**54**	**46**	**33**	**33**	**37**	**32**	**24,242**	**177**	**144**	**111**	**94**	**77**
	Puerto Rican	5,769	64	57	45	34	28	17	22	12	8	7	4	6	6	2	5	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	5	2,179	17	23	16	14	8
	Asian & Pacific Islander	195	2	3	1	-	1	2	3	1	3	1	2	-	-	1	1	181	1	3	1	-	-
	Non-Hisp./Lat. White	8,307	46	34	18	16	12	15	7	10	4	5	5	-	2	2	1	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	19	9,076	83	65	56	47	42
	Other or Unknown	1,593	4	2	-	2	-	3	1	2	4	1	-	3	1	4	1	1,276	3	1	-	2	-
45-54	**Total**	**17,364**	**448**	**425**	**352**	**330**	**287**	**217**	**215**	**167**	**143**	**106**	**96**	**83**	**71**	**66**	**66**	**13,921**	**289**	**275**	**225**	**219**	**183**
	Puerto Rican	3,210	84	89	65	85	75	46	55	34	38	16	13	13	10	12	10	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	10	1,165	32	33	35	20	12
	Asian & Pacific Islander	122	-	5	-	3	-	-	1	1	1	1	-	-	1	1	3	112	-	3	-	1	-
	Non-Hisp./Lat. White	4,340	61	45	35	37	41	28	28	16	15	11	14	9	6	1	6	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	5	754	3	7	3	3	3
55-64	**Total**	**5,531**	**213**	**231**	**241**	**239**	**213**	**169**	**172**	**174**	**141**	**150**	**117**	**116**	**117**	**106**	**110**	**4,621**	**154**	**173**	**164**	**179**	**159**
	Puerto Rican	960	39	49	49	51	54	34	42	24	33	25	25	10	19	18	26	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	9	416	13	13	12	10	7
	Asian & Pacific Islander	46	1	-	-	2	-	2	3	-	-	1	-	1	-	2	3	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	8
≥65	**Total**	**1,610**	**70**	**77**	**86**	**76**	**85**	**86**	**82**	**85**	**99**	**84**	**75**	**76**	**88**	**101**	**88**	**1,280**	**49**	**55**	**65**	**51**	**67**
	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	13	14	7	10	12	15	15	359	9	10	7	8	8
	Non-Hisp./Lat. Black	745	30	43	49	46	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	1	2	1	4	5	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
6	**6**	**7**	**5**	**2**	**1**	**2**	**4**	**2**	**-**	**1,081**	**11**	**10**	**9**	**4**	**3**	**7**	**2**	**2**	**3**	**5**	**1**	**-**	**-**	**1**	**1**
-	-	-	2	-	-	1	-	-	-	199	4	3	2	1	2	2	-	-	-	-	-	-	-	-	1
1	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	**27**	**17**	**21**	**24**	**22**	**15**	**23**	**19**	**18**	**4,783**	**20**	**29**	**17**	**10**	**11**	**10**	**2**	**11**	**7**	**7**	**11**	**6**	**4**	**8**	**4**
2	5	-	2	2	1	-	2	2	4	1,069	5	3	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	-	1	14	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-
1	1	1	1	-	1	2	1	3	2	680	1	2	-	-	1	-	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	-	223	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
54	**45**	**33**	**32**	**31**	**29**	**19**	**22**	**26**	**24**	**7,389**	**134**	**102**	**79**	**48**	**48**	**36**	**28**	**27**	**32**	**23**	**17**	**14**	**11**	**11**	**8**
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	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	-	317	1	1	-	-	-	2	-	1	2	1	-	1	-	-	1
136	**140**	**115**	**97**	**63**	**62**	**52**	**41**	**37**	**44**	**3,443**	**159**	**150**	**127**	**111**	**104**	**81**	**75**	**52**	**46**	**43**	**34**	**31**	**30**	**29**	**22**
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	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
120	**118**	**130**	**103**	**109**	**84**	**88**	**70**	**72**	**76**	**910**	**59**	**58**	**77**	**60**	**54**	**49**	**54**	**44**	**38**	**41**	**33**	**28**	**47**	**34**	**34**
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	3	7	4	1
2	2	-	-	1	-	1	-	2	2	8	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1
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
62	**62**	**57**	**74**	**67**	**51**	**54**	**65**	**73**	**67**	**330**	**21**	**22**	**21**	**25**	**18**	**24**	**20**	**28**	**25**	**17**	**24**	**22**	**23**	**28**	**21**
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	1	-	4	5	5	2
-	1	-	-	2	-	1	-	-	-	5	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-
8	13	9	11	12	5	7	9	15	13	53	1	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	-	-	-	1	-	1	1

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
Total	70	17			20	21	5
Selected Industries							
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						
Sex							
Female	3						
Male	67				20	21	
Race or ethnic origin‖							
Non-Hispanic/Latino White	30	9			5	13	
Non-Hispanic/Latino Black							
Hispanic/Latino	24	3			9		
Asian	9						
Age Group							
<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	3
>65 years							

*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	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.
Total	**3,993**	**16**	**9**	**8**	**3**	**1**	**1**	**19**	**7**	**88**	**21**	**387**	**130**	**530**	**160**	**541**	**152**	**738**	**253**	**283**	**126**	**248**	**272**
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	-	7	2	2	-	2	-	2	1	-	-
Other collision	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
Injury to Pedal Cyclist	20	-	-	-	-	-	-	1	-	2	-	2	-	2	-	1	-	5	1	5	-	1	-
Collision with motor vehicle	15	-	-	-	-	-	-	1	-	2	-	2	-	2	-	-	-	4	-	3	-	1	-
Other collision	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	-	-	-
Injury to Motorcyclist	58	-	-	-	-	-	-	1	-	4	1	19	1	17	-	9	-	5	-	1	-	-	-
Water Transport Accidents	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Air and Space Transport Accidents	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Transport Accidents	25	-	-	-	-	-	-	1	2	4	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	-	4	-	3	-	2	-	-	1	-	1	-	2
Smoke, Fire, and Flames	64	-	2	5	-	-	-	1	1	1	1	1	-	6	1	2	2	6	1	7	4	9	14
Poisoning by Noxious Substances	2,693	-	-	-	-	-	-	7	1	59	13	299	109	436	145	455	137	601	211	146	47	19	8
Poisoning by psychoactive substances*	2,666	-	-	-	-	-	-	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	2	4	1	3	-	2	-	2	3
Exposure to Excessive Natural Heat	4	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	1	-
Exposure to Excessive Natural Cold	34	-	-	-	-	-	-	-	-	-	-	3	-	5	-	7	-	8	2	2	1	3	3
Suffocation	127	5	3	-	-	-	-	-	-	-	-	8	3	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	5

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

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.
Total	**563**	**0**	**0**	**0**	**0**	**3**	**4**	**12**	**2**	**35**	**9**	**94**	**30**	**63**	**28**	**78**	**19**	**64**	**21**	**40**	**18**	**31**	**12**
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.
Total	**516**	**11**	**5**	**1**	**2**	**3**	**0**	**44**	**3**	**63**	**4**	**159**	**20**	**79**	**16**	**43**	**11**	**25**	**3**	**13**	**3**	**5**	**3**
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

		0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
Method	All Ages	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
Total	**243**	**10**	**9**	**1**	**0**	**1**	**1**	**5**	**0**	**7**	**1**	**30**	**6**	**45**	**13**	**26**	**7**	**39**	**5**	**17**	**3**	**10**	**7**
Poisoning by Noxious Substances	16	-	1	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1

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

		0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
Method	All Ages	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
Total	**78**	**0**	**0**	**1**	**0**	**0**	**0**	**2**	**0**	**1**	**0**	**0**	**0**	**1**	**1**	**2**	**5**	**13**	**11**	**9**	**4**	**10**	**18**
Adverse Effects From Drugs, Medicaments, and Biological Substances for Therapeutic Use	9	-	-	-	-	-	-	-	-	-	-	-	-	-	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	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

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

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

All

Exact Age in Years	2009-2011 Total	2009-2011 Hispanic/ Latino	2009-2011 Non-Hispanic/ Latino White	2009-2011 Non-Hispanic/ Latino Black	2019-2021 Total	2019-2021 Hispanic/ Latino	2019-2021 Non-Hispanic/ Latino White	2019-2021 Non-Hispanic/ Latino Black	2019-2021 Asian and Pacific Islander†
0	80.8	81.9	81.1	76.9	80.4	80.5	81.7	75.8	84.6
1	80.2	81.2	80.4	76.6	79.7	79.8	80.9	75.4	83.8
5	76.2	77.3	76.5	72.6	75.8	75.8	76.9	71.5	79.8
10	71.3	72.3	71.5	67.7	70.8	70.8	72.0	66.6	74.8
15	66.3	67.3	66.5	62.8	65.8	65.9	67.0	61.6	69.9
20	61.4	62.4	61.6	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	29.7	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	20.4	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

Male

Exact Age in Years	2009-2011 Total	2009-2011 Hispanic/ Latino	2009-2011 Non-Hispanic/ Latino White	2009-2011 Non-Hispanic/ Latino Black	2019-2021 Total	2019-2021 Hispanic/ Latino	2019-2021 Non-Hispanic/ Latino White	2019-2021 Non-Hispanic/ Latino Black	2019-2021 Asian and Pacific Islander†
0	78.1	78.6	78.7	73.2	77.3	76.8	79.0	71.9	81.9
1	77.5	77.9	78.0	72.9	76.6	76.1	78.3	71.6	81.1
5	73.5	74.0	74.1	69.0	72.7	72.1	74.3	67.7	77.1
10	68.6	69.0	69.1	64.1	67.7	67.1	69.4	62.8	72.2
15	63.6	64.0	64.2	59.2	62.7	62.2	64.4	57.8	67.2
20	58.8	59.2	59.3	54.5	57.9	57.3	59.5	53.0	62.3
25	54.0	54.4	54.5	49.9	53.2	52.5	54.7	48.5	57.5
30	49.2	49.6	49.7	45.3	48.4	47.9	49.9	43.9	52.7
35	44.5	44.9	44.8	40.8	43.8	43.3	45.2	39.4	47.9
40	39.8	40.2	40.0	36.3	39.2	38.8	40.5	35.1	43.1
45	35.2	35.6	35.4	32.0	34.8	34.4	35.9	30.8	38.4
50	30.8	31.2	31.0	27.9	30.4	30.2	31.4	26.7	33.8
55	26.7	27.1	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	18.9	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	11.3	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	6.4	6.9	6.9	7.3	6.7	6.8	7.7

Female

Exact Age in Years	2009-2011 Total	2009-2011 Hispanic/ Latino	2009-2011 Non-Hispanic/ Latino White	2009-2011 Non-Hispanic/ Latino Black	2019-2021 Total	2019-2021 Hispanic/ Latino	2019-2021 Non-Hispanic/ Latino White	2019-2021 Non-Hispanic/ Latino Black	2019-2021 Asian and Pacific Islander†
0	83.2	84.6	83.3	79.7	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	78.6	75.5	78.6	79.2	79.5	74.8	82.4
10	73.6	75.0	73.7	70.5	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	58.8	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	45.5	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	34.7	32.7	35.0	35.5	35.6	31.9	38.2
55	30.5	31.7	30.3	28.4	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	15.0	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.

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

Total

Exact Age in Years	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

Male

Exact Age in Years	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

Female

Exact Age in Years	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

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	**527,368**	**100.0**	**338,107**	**100.0**	**189,261**	**100.0**
Malignant Neoplasms	88,689	16.8	43,404	12.8	45,285	23.9
Trachea, bronchus, and lung	12,649	2.4	7,069	2.1	5,580	2.9
Breast	9,237	1.8	56	0.0	9,181	4.9
Colon, rectum, and anus	9,149	1.7	5,287	1.6	3,862	2.0
Pancreas	6,603	1.3	3,794	1.1	2,809	1.5
Liver & intrahepatic bile ducts	4,714	0.9	3,350	1.0	1,364	0.7
Heart Disease	79,522	15.1	54,663	16.2	24,859	13.1
Use of or Poisoning by Psychoactive Substance	73,577	14.0	55,257	16.3	18,320	9.7
COVID-19	53,047	10.1	32,883	9.7	20,164	10.7
Accidents Except Poisoning by Psychoactive Substance	21,530	4.1	16,809	5.0	4,721	2.5
Motor vehicle	8,714	1.7	6,849	2.0	1,865	1.0
Assault (Homicide)	21,300	4.0	18,550	5.5	2,750	1.5
Intentional Self-harm (Suicide)	16,641	3.2	12,526	3.7	4,115	2.2
Diabetes Mellitus	12,300	2.3	8,113	2.4	4,187	2.2
Chronic Liver Disease and Cirrhosis	10,738	2.0	7,712	2.3	3,026	1.6
Cerebrovascular Diseases	10,010	1.9	5,514	1.6	4,496	2.4
Mental and Behavioral Disorders Due to Use of Alcohol	8,531	1.6	6,831	2.0	1,700	0.9
Influenza and Pneumonia	7,394	1.4	4,412	1.3	2,982	1.6
Chronic Lower Respiratory Diseases	6,862	1.3	3,399	1.0	3,463	1.8
HIV Disease	5,866	1.1	4,139	1.2	1,727	0.9
Essential Hypertension and Hypertensive Renal Diseases	4,950	0.9	2,759	0.8	2,191	1.2
All Other Causes	106,411	20.2	61,136	18.1	45,275	23.9

*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%
10 Leading Causes												
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

	2021		2020			2012		
Cause	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.

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.

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:

Low: <10% of the population below poverty	Medium: 10-19% of the population below poverty	High: 20-29% of the population below poverty	Very High: ≥30% of the population 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

Death Rate, all causes per 1,000 population

$$\frac{Deaths\ All\ Causes}{Population} x1{,}000$$

Death Rate, specified causes per 100,000 population

$$\frac{Deaths\ due\ to\ Specific\ Cause\ (specified\ ICD10\ codes)}{Population} x100{,}000$$

Death Rate, age and sex specific per 1,000 population

$$\frac{Deaths\ to\ persons\ of\ specified\ age\ group\ and\ sex}{Population, specified\ age\ group\ and\ sex} x1{,}000$$

Death Rate, age-adjusted per 100,000 population

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.

Maternal Mortality Ratio – World Health Organization Definition (in Table M13)

$$\frac{Deaths\ due\ to\ complications\ of\ pregnancy, childbirth\ and\ the\ puerperium\ occurring\ within\ 42\ days\ of\ delivery\ *}{Live\ births} x100{,}000$$

*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)

Perinatal Mortality Ratio

$$\frac{Fetal\ Deaths\ 28\ Weeks\ and\ Over + Infant\ Deaths\ Under\ 7\ days}{Fetal\ Deaths\ 28\ Weeks\ and\ Over + Live\ Births} x1{,}000$$

TECHNICAL NOTES

Infant Mortality Rates

Infant Mortality Rate	Neonatal Mortality Rate
$\frac{Deaths\ to\ infants < 1\ year\ old}{Number\ of\ live\ births} x1{,}000$	$\frac{Deaths\ to\ infants < 28\ days\ of\ life}{Number\ of\ live\ births} x1{,}000$
Early Neonatal Mortality Rate	**Late Neonatal Mortality Rate**
$\frac{Deaths\ to\ infants < 7\ days\ of\ life}{Number\ of\ live\ births} x1{,}000$	$\frac{Deaths\ to\ infants\ 7-27\ days\ of\ life}{Number\ of\ live\ births} x1{,}000$

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

Fertility Rate	Pregnancy Rate
$\frac{Live\ births}{Female\ population\ aged\ 15\ to\ 44\ years} x1{,}000$	$\frac{\Sigma\ (Births, Spontaneous, Induced\ Terminations)}{Female\ population\ of\ specific\ age\ group} x1{,}000$

Birth Rates

Total birth rate	Age-specific birth rate
$\frac{Total\ births}{Total\ population\ regardless\ of\ age\ or\ sex} x1{,}000$	$\frac{Births\ among\ specific\ age\ group}{Female\ population\ of\ specific\ age\ group} x1{,}000$

Total spontaneous termination rate	Age-specific spontaneous termination rate
$\frac{Total\ spontaneous\ terminations}{Female\ population\ ages\ 15\ to\ 44\ years} x1{,}000$	$\frac{Spontaneous\ terminations\ among\ specific\ aged\ females}{Female\ population\ of\ specified\ age\ group} x1{,}000$
Total induced termination of pregnancy rate	**Age-specific induced termination of pregnancy rate**
$\frac{Total\ induced\ terminations}{Female\ population\ ages\ 15\ to\ 44\ years} x1{,}000$	$\frac{Induced\ terminations\ among\ specific\ aged\ females}{Female\ population\ of\ specified\ age\ group} x1{,}000$

Fetal-infant Mortality Rate (FIMR)

$$\frac{(Fetal\ deaths\ [weight \geq 500\ grams\ and\ gestational\ age \geq 24\ weeks] + infant\ deaths\ [under\ 1\ year\ old])}{(Live\ births\ [birthweight \geq 500\ grams])} x1{,}000$$

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 or 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:

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

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).

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 ≥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:

$$SAF = [(p_0 + p_1(RR_1) + p_2(RR_2)) - 1] / [p_0 + p_1(RR_1) + p_2(RR_2)],$$

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; RR_1 is the relative risk of death for adult current smokers relative to adult never-smokers; and 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:

$$SAM = Number\ of\ deaths \times SAF$$

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.

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

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

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. 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.

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 9th 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).

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.

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:

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

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.

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 (≥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, ≥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.

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:

$$\frac{pop(t1)}{pop(t0)} = ert$$

(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.

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 1st, 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 1st, 2010 numbers were then extrapolated using July 1st, 2009 and Census 2010 and then adjusted to the July 1st 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 1st, 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 1st, 2010 numbers were then extrapolated using July 1st, 2009 and Census 2010 and then adjusted to the July 1st 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.

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.

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 ≥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:

$$SAF = [(p^0 + p^1(RR^1) + p^2(RR^2)) - 1] / [p^0 + p^1(RR^1) + p^2(RR^2)],$$

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; RR^1 is the relative risk of death for adult current smokers relative to adult never-smokers; and the 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:

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

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.

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.

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.

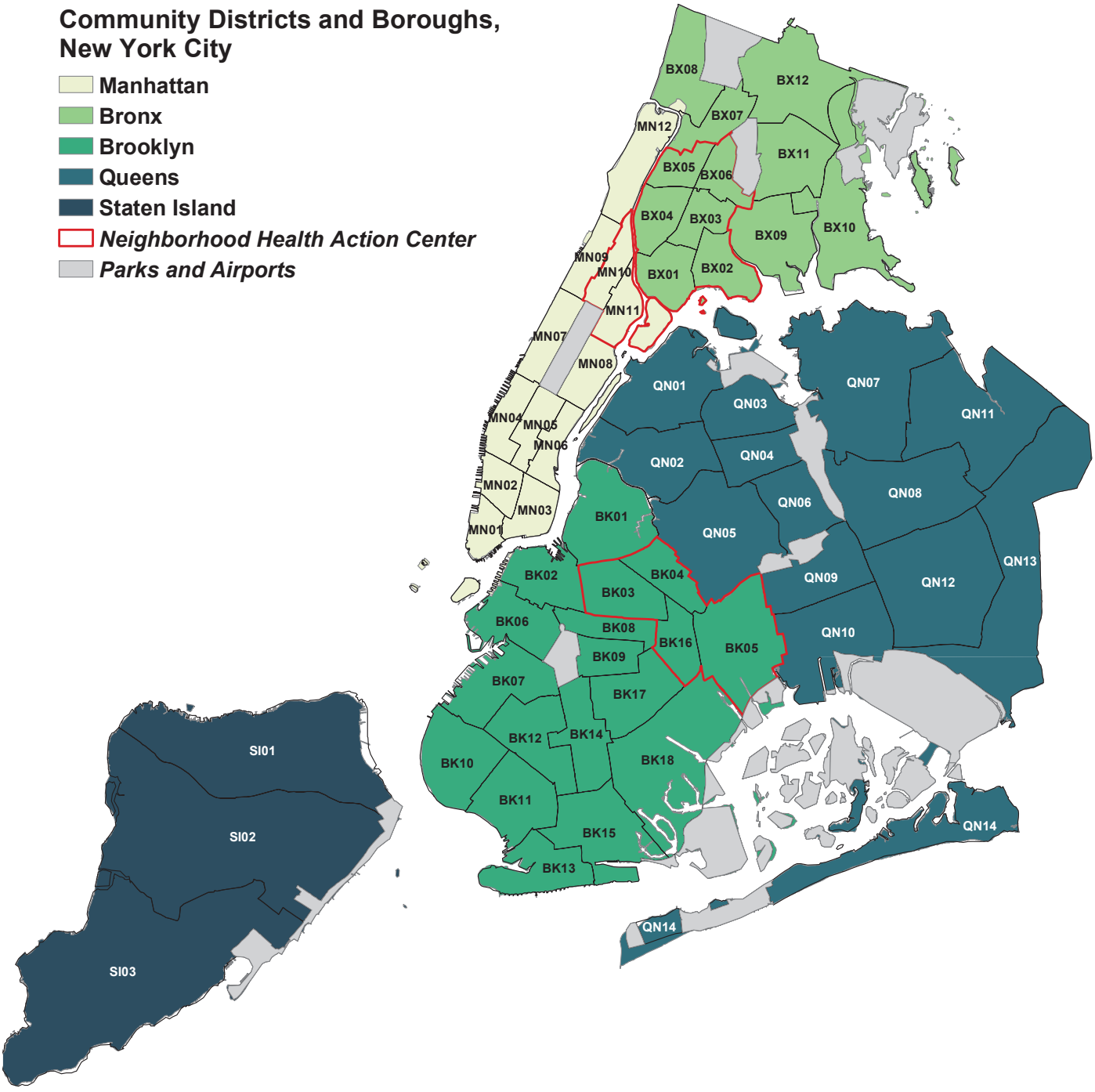
INDUCED AND SPONTANEOUS TERMINATION OF PREGNANCY

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 BOROUGHS, NEW YORK CITY



VITAL EVENT CERTIFICATES

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(Rev. 1/20)

DATE FILED

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

CERTIFICATE OF BIRTH

CERTIFICATE NO.

Cert. No.

1. NAME OF CHILD (First, Middle, Last, Suffix)

2. SEX

3a. NUMBER DELIVERED of this pregnancy

3b. If more than one, number of this child in order of delivery

4a. DATE OF CHILD'S BIRTH (Month) (Day) (Year - yyyy)

4b. TIME ☐ AM ☐ PM

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 ☐ Hospital ☐ Freestanding Birthing Center ☐ Clinic/Doctor's Office ☐ Home Delivery: Planned to deliver at home? ☐ Yes ☐ No ☐ Unknown

☐ Other-specify: _____

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 a. State b. County

7c. City or town

7d. Street and number Apt. No. ZIP Code

7e. Inside city limits of 7c? Yes ☐ No ☐

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 ☐ M.D. ☐ D.O. ☐ Lic. Midwife ☐ RPA ☐ R.N. ☐ Other-Specify _____

9b. I CERTIFY THAT THIS CHILD WAS BORN ALIVE AT THE PLACE, DATE AND TIME GIVEN ☐ M.D. ☐ D.O. ☐ Hosp. Admin. ☐ Lic. Midwife ☐ RPA ☐ R.N. ☐ Other-Specify _____

Signed _____

Name of Signer _____ (Type or Print)

Address _____

Date Signed _____, Year - yyyy _____

Place:

Died: Date:

Mother/Parent's Current Legal Name (First, Middle, Last)

Address _____ Apt. _____

City _____ State _____ ZIP _____

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Typewrite 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: _____

VOID

VR-6S
(Rev. 1/20)

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

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.

(Each question MUST be answered)

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)

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, Ukranian,
☐ Nigerian, Taiwanese, etc.) ☐

Specify

_____ (Mother/Parent) _____ (Father/Parent)

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) ☐

14. PARENT'S OCCUPATION

a. Was mother/parent employed during pregnancy? Yes ☐ No ☐

	1. Current/most recent occupation	2. Kind of busines or industry
b. Mother/Parent		
c. Father/Parent		

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) _____/_____/_____

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
- ☐ C(N)M/NP/PA/Other Midwife
- ☐ Clinic
- ☐ No Provider
- ☐ No Information
- ☐ 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
- ☐ Syphilis
- ☐ Herpes Simplex (HSV)
- ☐ Chlamydia
- ☐ Hepatitis B
- ☐ Hepatitis C
- ☐ Tuberculosis
- ☐ Rubella
- ☐ Bacterial Vaginosis
- ☐ 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
- ☐ Cocaine
- ☐ Methadone
- ☐ Methamphetamine
- ☐ Marijuana
- ☐ Sedatives
- ☐ Tranquilizers
- ☐ Anticonvulsants

j. Mother/Parent Pre-Pregnancy Weight _____ pounds

k. Mother/Parent Height _____ feet _____ inches

l. Obstetric Procedures
(Check **all** that apply)

- ☐ Cervical cerclage
- ☐ Tocolysis
- ☐ External cephalic version:
  - ☐ Successful
  - ☐ Failed
- ☐ Fetal genetic testing
- ☐ None of the above

m. If woman was 35 or over, was fetal genetic testing offered?
☐ Yes ☐ No, Too Late ☐ No, Other Reason

17. FINANCIAL COVERAGE

a. Primary Payor
(Check **one**)

- ☐ Medicaid
- ☐ Private Insurance
- ☐ Other govt/CHPlusB
- ☐ CHAMPUS/TRICARE
- ☐ Other
- ☐ Self-pay
- ☐ Unknown

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

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(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

a. If birth occured in hospital, was mother/parent transferred in before giving birth?
If yes, name of facility transferred from

☐ Yes _____
☐ No

b. Mother/Parent Weight at Delivery

_____ pounds

c. Onset of Labor
(Check **all** that apply)

☐ Prolonged rupture of membranes (12 hours or more)
☐ Prolonged labor (20 hours or more)
☐ Premature rupture of membranes (prior to labor)
☐ None of the above
☐ Precipitous labor (less than 3 hours)

d. Characteristics of Labor & Delivery
(Check **all** that apply)

☐ Induction of Labor-AROM
☐ Induction of Labor-Medicinal
☐ Augmentation of Labor
☐ Placenta previa
☐ Other excessive bleeding
☐ Steroids
☐ Antibiotics
☐ Chorioamnionitis
☐ Febrile (>100.4F or 38C)
☐ Meconium staining
☐ Fetal intolerance
☐ External electronic fetal monitor
☐ Internal electronic fetal monitor
☐ None of the above

e. 1. Anesthesia
(Check **all** that apply)

☐ Epidural
☐ General inhalation
☐ General intravenous
☐ Spinal
☐ Paracervical
☐ Pudendal
☐ Local
☐ None of the above

2. Complications from any of the above?

☐ Yes ☐ No

Method of Delivery

f. Fetal Presentation at Birth

☐ Cephalic
☐ Breech
☐ Other

g. Final route and method of delivery (Check **one**)

☐ Vaginal/Spontaneous
☐ Vaginal/Forceps
☐ Vaginal/Vacuum
☐ Cesarean

1. If cesarean, was trial of labor attempted?

☐ Yes ☐ No

2. Indications for C-Section ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Malpresentation
☐ Previous C-Section
☐ Fetus at risk/NFS
☐ Maternal condition-not pregnancy related
☐ Maternal condition-pregnancy related
☐ Refused VBAC
☐ Elective
☐ Other

3. Was delivery with forceps attempted but unsuccessful?

☐ Yes ☐ No

4. Indications for Forceps ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Fetus at Risk
☐ Other

5. Was delivery with vacuum extraction attempted but unsuccessful?

☐ Yes ☐ No

6. Indications for Vacuum ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Fetus at Risk
☐ Other

h. Other Procedures Performed at Delivery (Check **all** that apply)

☐ Episiotomy & repair
☐ Sterilization
☐ Repair of lacerations
☐ None of the above

20. INFANT

a. Birthweight

_____ Pounds _____ Ounces or _____ Grams

b. If birth weight < 1250 grams (2 lbs. 12 oz.), reason(s) for delivery at a less than level III hospital: *(Only if applicable)*

☐ None ☐ Unknown at this time
(Select **all** that apply)

☐ Rapid/Advanced Labor
☐ Bleeding
☐ Fetus at Risk
☐ Severe pre-eclampsia
☐ Woman Refused Transfer
☐ Other-*specify* _____

c. Apgar Score at

1. 1 minute _____ **2.** 5 minutes _____ **3.** 10 minutes _____

d. Clinical Estimate of Gestation

Completed Weeks: _____

e. Infant Transferred

☐ Within 24 hours of Delivery
☐ After 24 hours
☐ Not Transferred

f. If transferred, name of facility transferred to:

_____

g. Abnormal Conditions of the Newborn
(Check **all** that apply)

☐ Assisted ventilation required immediately following delivery
☐ Assisted ventilation required for more than six hours
☐ NICU admission
☐ Newborn given surfactant replacement therapy
☐ Antibiotics received by the newborn for suspected neonatal sepsis
☐ Seizure or serious neurologic dysfunction
☐ Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)
☐ None of the above

h. Hepatitis B Inoculation

1. Immunization administered?
☐ Yes Date: (mm/dd/yyyy) _____/_____/_____
☐ No

2. Immunoglobulin administered?
☐ Yes Date: (mm/dd/yyyy) _____/_____/_____
☐ No

i. Is infant living at time of report?

☐ Yes ☐ No

j. How is infant being fed? (Check **one**)

☐ Breast milk
☐ Formula
☐ Both
☐ Neither

Congenital Anomalies

k. Select all that apply	Yes	No	l. Diagnosed Prenatally? Yes	No	m. If Yes, please indicate all methods used:
1. Anencephaly	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ Amniocentesis ☐ Other ☐ Unknown
2. Meningomyelocele/ Spina Bifida	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ Amniocentesis ☐ Other ☐ Unknown
3. Cyanotic Congenital Heart Disease	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
4. Congenital Diaphragmatic Hernia	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
5. Omphalocele	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
6. Gastroschisis	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
7. Limb Reduction Defect	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
8. Cleft lip with or without Cleft Palate	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
9. Cleft Palate alone	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
10. Down Syndrome ☐ Karyotype confirmed ☐ Karyotype pending	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ CVS ☐ Amniocentesis ☐ Other ☐ Unknown
11. Other Chromosomal Disorder ☐ Karyotype confirmed ☐ Karyotype pending	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ CVS ☐ Amniocentesis ☐ Other ☐ Unknown
12. Hypospadias	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown

13. None of those listed above ☐

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 (To be filled in by the Physician)

Place Of Death
2a. New York City
2b. Borough
2c. Type of Place
1 ❑ Hospital Inpatient
2 ❑ Emergency Dept./Outpatient
3 ❑ Dead on Arrival
4 ❑ Nursing Home/Long Term Care Facility
5 ❑ Hospice Facility
6 ❑ Decedent's Residence
7 ❑ Other Specify _____
2d. Any Hospice care in last 30 days
1 ❑ Yes
2 ❑ No
3 ❑ 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 ❑ AM ❑ PM
4. Sex
5. Date last attended by a Physician 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. M.D.

Address _____ License No. _____ Date _____

PERSONAL PARTICULARS (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
7e. Inside City Limits? 1 ❑ Yes 2 ❑ No

8. Date of Birth (Month) (Day) (Year-yyyy)
9. Age at last birthday (years) 1
Under 1 Year: Months 2, Days 3
Under 1 Day: Hours 4, Minutes 5
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)
1 ❑ 8th grade or less; none
2 ❑ 9th – 12th grade; no diploma
3 ❑ High school graduate or GED
4 ❑ Some college credit, but no degree
5 ❑ Associate degree (e.g., AA, AS)
6 ❑ Bachelor's degree (e.g., BA, AB, BS)
7 ❑ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
8 ❑ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

15. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No
16. Marital/Partnership Status at time of death
1 ❑ Married 2 ❑ Domestic Partnership 3 ❑ Divorced
4 ❑ Married, but separated 5 ❑ Never Married 6 ❑ Widowed
7 ❑ Other, Specify _____ 8 ❑ 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
1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery
5 ❑ 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)

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

CONFIDENTIAL MEDICAL REPORT

VR 15 (Rev. 01/09)

To be filled in by **FUNERAL DIRECTOR** or, in case of City Burial, by Physician

Certificate No.

23. Ancestry (Check one box and specify)

❑ Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)

Specify _____

❑ NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)

Specify _____

24. Race as defined by the U.S. Census (Check one or more to indicate what the decedent considered himself or herself to be)

01 ❑ White
02 ❑ Black or African American
03 ❑ American Indian or Alaska Native (Name of enrolled or principal tribe)_____
04 ❑ Asian Indian
05 ❑ Chinese
06 ❑ Filipino
07 ❑ Japanese
08 ❑ Korean
09 ❑ Vietnamese
10 ❑ Other Asian–Specify _____
11 ❑ Native Hawaiian
12 ❑ Guamanian or Chamorro
13 ❑ Samoan
14 ❑ Other Pacific Islander–Specify _____
15 ❑ Other–Specify _____

DECEDENT'S LEGAL NAME (Type or Print)

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.

25. CAUSE OF DEATH – List only one cause on each line. DO NOT ABBREVIATE.

PART I		APPROXIMATE INTERVAL: ONSET TO DEATH
	a. IMMEDIATE CAUSE	
	b. DUE TO OR AS A CONSEQUENCE OF	
	c. DUE TO OR AS A CONSEQUENCE OF	
	d. DUE TO OR AS A CONSEQUENCE OF	

PART II OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH **but not** resulting in the underlying cause given in Part I. Include operation information.

26a. Was an autopsy performed? 1 ❑ Yes 2 ❑ No

26b. Were autopsy findings available to complete the cause of death? 1 ❑ Yes 2 ❑ No

27a. If Female
1 ❑ Not pregnant within 1 year of death
2 ❑ Pregnant at time of death
3 ❑ Not pregnant at death, but pregnant within 42 days of death
4 ❑ Not pregnant at death, but pregnant 43 days to 1 year before death
5 ❑ Unknown if pregnant within 1 year of death

27b. If pregnant within one year of death, outcome of pregnancy
1 ❑ Live Birth
2 ❑ Spontaneous Termination/ Ectopic Pregnancy
3 ❑ Induced Termination
4 ❑ None

27c. Date of Outcome: mm dd yyyy

28. Was this case referred to OCME? 1 ❑ Yes 2 ❑ No

29. Did tobacco use contribute to death? 1 ❑ Yes 2 ❑ No 3 ❑ Probably 4 ❑ Unknown

30. For infant under one year: Name and address of hospital or other place of birth

I am submitting herewith a confidential report of the cause of death.

SIGNATURE _____ D.O. M.D. ADDRESS _____ LICENSE NO. _____

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

BOR | INST | MANNER | RESIDENCE | CODE | BP | LDIS | H | ANC | NH | ANC | ICD | AUT

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

1. DECEDENT'S LEGAL NAME _____ (First, Middle, Last)

MEDICAL CERTIFICATE OF DEATH (To be filled in by the OCME)

Place Of Death
2a. New York City
2b. Borough
2c. Type of Place
1 ❑ Hospital Inpatient
2 ❑ Emergency Dept./Outpatient
3 ❑ Dead on Arrival
4 ❑ Nursing Home/Long Term Care Facility
5 ❑ Hospice Facility
6 ❑ Decedent's Residence
7 ❑ Other Specify _____
2d. Any Hospice care in last 30 days
1 ❑ Yes
2 ❑ No
3 ❑ Unknown
2e. Name of hospital or other facility (if not facility, street address)

Date and Time of Death or Found Dead
3a. (Month) (Day) (Year-yyyy)
3b. Time ❑ AM ❑ PM
4. Sex
5. OCME Case No.

6. CAUSE OF DEATH
PART I
a. Immediate cause
b. Due to or as a consequence of
c. Due to or as a consequence of
APPROXIMATE INTERVAL: ONSET TO DEATH
PART II
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 ❑ AM ❑ PM
7c. At Work 1 ❑ Yes 2 ❑ No
7d. Place of Injury – At home, factory, street, etc.
7e. Location
7f. How Injury Occurred

7g. If Transportation Injury Specify
❑ Driver/Operator ❑ Pedestrian
❑ Passenger
❑ Other Specify _____
8. Manner of Death
❑ Pending further study
❑ Natural ❑ Homicide
❑ Accident ❑ Suicide ❑ Undetermined
9. Autopsy
❑ Yes
❑ No Autopsy Pursuant to Law
❑ No Autopsy
10. On the basis of examination and/or investigation, in my opinion, death occurred due to the causes and manner as stated:
Certifier Signature _____ D.O. M.D. Date _____
Certifier Name (Print) _____
(Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

PERSONAL PARTICULARS (To be filled in by Funeral Director or, in case of City Burial, by OCME)

11a. Usual Residence State
11b. County
11c. City or Town
11d. Street and Number Apt. No. ZIP Code
11e. Inside City Limits? 1 ❑ Yes 2 ❑ No
12. Date of Birth (Month) (Day) (Year-yyyy)
13. Age at last birthday (years) 1
Under 1 Year: Months 2 Days 3
Under 1 Day: Hours 4 Minutes 5
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 ❑ 8th grade or less; none
2 ❑ 9th – 12th grade; no diploma
3 ❑ High school graduate or GED
4 ❑ Some college credit, but no degree
5 ❑ Associate degree (e.g., AA, AS)
6 ❑ Bachelor's degree (e.g., BA, AB, BS)
7 ❑ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
8 ❑ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
19. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No
20. Marital/Partnership Status at time of death
1 ❑ Married 2 ❑ Domestic Partnership 3 ❑ Divorced
4 ❑ Married, but separated 5 ❑ Never Married 6 ❑ Widowed
7 ❑ Other, Specify _____ 8 ❑ 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
1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery
5 ❑ 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)

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 **FUNERAL DIRECTOR** or, in case of City Burial, by OCME

27. Ancestry (Check one box and specify)

❑ Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)

Specify _____

❑ NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)

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)

01 ❑ White
02 ❑ Black or African American
03 ❑ American Indian or Alaska Native (Name of enrolled or principal tribe) _____
04 ❑ Asian Indian
05 ❑ Chinese
06 ❑ Filipino
07 ❑ Japanese
08 ❑ Korean
09 ❑ Vietnamese
10 ❑ Other Asian–Specify _____
11 ❑ Native Hawaiian
12 ❑ Guamanian or Chamorro
13 ❑ Samoan
14 ❑ Other Pacific Islander–Specify _____
15 ❑ Other–Specify _____

DECEDENT'S LEGAL NAME (Type or Print)

29a. If Female
1 ❑ Not pregnant within 1 year of death
2 ❑ Pregnant at time of death
3 ❑ Not pregnant at death, but pregnant within 42 days of death
4 ❑ Not pregnant at death, but pregnant 43 days to 1 year before death
5 ❑ Unknown if pregnant within 1 year of death

29b. If pregnant within one year of death, outcome of pregnancy
1 ❑ Live Birth
2 ❑ Spontaneous Termination / Ectopic Pregnancy
3 ❑ Induced Termination
4 ❑ None

29c. Date of Outcome

mm	dd	yyyy

30. Did tobacco use contribute to death?
1 ❑ Yes 2 ❑ No 3 ❑ Probably 4 ❑ Unknown

31. For infant under one year: Name and address of hospital or other place of birth

Cleared For Cremation If Family Requests

_____
M.E. Signature

I certify that I personally examined the body on _____ (Date) at _____ (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)

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 _____

Did heart beat after delivery? _____
Was there movement of voluntary muscle? _____

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.

FETUS

1. NAME *(Optional):* (First, Middle, Last, Suffix)

2a. DATE OF DELIVERY *(Month) (Day) (Year-yyyy)*

2b. TIME _____ ☐ AM ☐ PM ☐ Unknown

3. SEX ☐ Male ☐ Female ☐ Unknown

4. OBSTETRIC ESTIMATE OF GESTATION _____ # of weeks

5a. NUMBER DELIVERED THIS PREGNANCY _____

IF MORE THAN ONE
5b. Number in order of delivery _____ 5c. Number born alive _____

FETUS Place of Delivery

6a. TYPE OF PLACE
☐ Hospital – ER/ED
☐ Hospital – Amb. Surg.
☐ Hospital – Labor/Labor and Delivery
☐ Hospital – Other
☐ Freestanding Birthing Center
☐ Home
☐ Clinic/Doctor's Office
☐ Other, Specify _____
☐ Unknown

6b. FACILITY NAME/ADDRESS

If not in facility, street address: (Street Number and Name, City or Town, County, State, Country, Zip Code)

MOTHER/PARENT

7. CURRENT LEGAL NAME: (First, Middle, Last, Suffix)

9. DATE OF BIRTH *(Month) (Day) (Year-yyyy)*

12. BIRTHPLACE City State

8. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, Last, Suffix)

10. AGE

11. SEX ☐ Male ☐ Female

Country

13. RESIDENCE ADDRESS: (Street Number and Name, Apt. No., City or Town, County, State, Country, Zip Code)

14. INSIDE CITY LIMITS? ☐ Yes ☐ No ☐ Unknown

FATHER/PARENT

15. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, Last, Suffix)

16. DATE OF BIRTH *(Month) (Day) (Year-yyyy)*

19. BIRTHPLACE City State

17. AGE

18. SEX ☐ Male ☐ Female

Country

ATTENDANT/CERTIFIER

20. ATTENDANT NAME AT DELIVERY: (First, Middle, Last, Suffix)
☐ MD ☐ DO ☐ LIC. Midwife ☐ RPA ☐ 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.
☐ MD ☐ DO

Signature of Physician Certifier

Name of Physician Certifier

Address

License No. ____/____/____ *Date*

FUNERAL DIRECTOR'S CERTIFICATE

FUNERAL DIRECTOR'S CERTIFICATE

I hereby certify that I have been employed as Funeral Director by _____ *(Name of person in control of disposition)*

of _____ *(Address)*. This statement is made to obtain a disposition permit

for this fetus _____ *(Signature of Funeral Director)* *(License No.)*

Funeral Establishment _____ Business Registration No. _____

Address _____

NAME OF CEMETERY OR CREMATORY (OR DESTINATION)	CITY OR COUNTY AND STATE	DATE OF DISPOSITION *(Month) (Day) (Year-yyyy)*

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 (1 of 2)

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

Mother/Parent Medical Record No. _____ CERTIFICATE NO.

22. Date Last Normal Menses Began: ____/____/____ (mm dd yyyy)

23. 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)
- ☐ Unknown

24. PARENT'S OCCUPATION

a. Was mother/parent employed during pregnancy? ☐ Yes ☐ No

	1. Current/most recent occupation	2. Kind of business or industry
b. Mother/Parent		
c. Father/Parent		

25. 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, Ukranian, Nigerian, Taiwanese, etc.) — *Specify* _____ (Mother/Parent) _____ (Father/Parent)
- ☐ Unknown

26. 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)
- ☐ Unknown

27. PARENT'S LENGTH OF TIME IN U.S.

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

- ☐ Never lived in United States

If born outside of the United States, how long lived in U.S.?

_____ years (Mother/Parent) _____ (Father/Parent)

or if <1 yr, months

_____ (Mother/Parent) _____ (Father/Parent)

28. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH

a. Initiating Cause/Condition

(Among the choices below, please select the **one** that most likely began the sequence of events resulting in the death of the fetus).

- ☐ Maternal Conditions/Diseases (Specify) _____
- ☐ Complications of Placenta, Cord, or Membranes
  - ☐ Rupture of membranes prior to onset of labor
  - ☐ Abruptio placenta
  - ☐ Placental insufficiency
  - ☐ Prolapsed cord
  - ☐ Chorioamnionitis
  - ☐ Other (Specify) _____
- ☐ Other Obstetrical or Pregnancy Complications (Specify) _____
- ☐ Fetal Anomaly (Specify) _____
- ☐ Fetal Injury (Please consult with OCME) _____
- ☐ Fetal Infection (Specify) _____
- ☐ Other Fetal Conditions/Disorders (Specify) _____
- ☐ Unknown

b. Other Significant Causes or Conditions

(Select or specify **all** other conditions contributing to death).

- ☐ Maternal Conditions/Diseases (Specify) _____
- ☐ Complications of Placenta, Cord, or Membranes
  - ☐ Rupture of membranes prior to onset of labor
  - ☐ Abruptio placenta
  - ☐ Placental insufficiency
  - ☐ Prolapsed cord
  - ☐ Chorioamnionitis
  - ☐ Other (Specify) _____
- ☐ Other Obstetrical or Pregnancy Complications (Specify) _____
- ☐ Fetal Anomaly (Specify) _____
- ☐ Fetal Injury (Please consult with OCME) _____
- ☐ Fetal Infection (Specify) _____
- ☐ Other Fetal Conditions/Disorders (Specify) _____
- ☐ Unknown

c. Was this case referred to OCME? ☐ Yes ☐ No ☐ Unknown If yes, ME Case Number: _____

FOR GESTATION OF 20 WEEKS OR MORE: ALL ITEMS BELOW MUST BE COMPLETED (except OCME cases).

29. PRENATAL

a. Primary Payor (Check **one**)

- ☐ Medicaid
- ☐ Self-pay
- ☐ Other govt. insurance
- ☐ None
- ☐ Private insurance
- ☐ Unknown

b. Total Number of Prenatal Visits for this Pregnancy

☐ None _____

c. Date of First Prenatal Care Visit

(mm/dd/yyyy) ____/____/_____

d. Date of Last Prenatal Care Visit

(mm/dd/yyyy) ____/____/_____

e. Previous Live Births

1. Total Number of Previous Live Births _____ ☐ None
2. Number Born Alive and Now Living _____ ☐ None
3. Number Born Alive and Now Dead _____ ☐ None

f. Date of First Live Birth (mm/yyyy) ____/_____

g. Date of Last Live Birth (mm/yyyy) ____/_____

h. Total Number of Other Pregnancy Outcomes _____ ☐ None
(Spontaneous or Induced losses or ectopic pregnancies)
Do not include this fetus

i. Date of Last Other Pregnancy Outcome
(mm/yyyy) ____/_____

30. MOTHER/PARENT HEALTH

a. Height _____ feet _____ inches

b. Pre-Pregnancy Weight _____ pounds

c. Weight Immediately Prior to Event _____ pounds

d. Cigarette Smoking

1. Cigarette smoking in the 3 months before or during pregnancy?
   ☐ Yes ☐ No ☐ Unknown

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	_____

e. Alcohol use during this pregnancy?
☐ Yes ☐ No ☐ Unknown

f. Illicit and other drugs used during this pregnancy?
☐ Yes ☐ No ☐ Unknown

If yes, check **all** that apply

- ☐ Heroin
- ☐ Cocaine
- ☐ Methadone
- ☐ Methamphetamine
- ☐ Marijuana
- ☐ Sedatives
- ☐ Tranquilizers
- ☐ Anticonvulsants
- ☐ Other
- ☐ Unknown

31. PREGNANCY FACTORS

a. Risk Factors in this Pregnancy
(Check **all** that apply)

- ☐ Diabetes – Prepregnancy
- ☐ Diabetes – Gestational
- ☐ Hypertension – Pre-pregnancy
- ☐ Hypertension – Gestational
- ☐ Hypertension – Eclampsia
- ☐ Previous Preterm Birth
- ☐ Other previous poor pregnancy outcome
- ☐ Infertility Treatment – Fertility-enhancing drugs, Artificial/Intrauterine insemination
- ☐ Infertility Treatment – Assisted Reproductive Technology
- ☐ Mother had a Previous Cesarean Delivery

If yes, how many? _____

- ☐ Other
- ☐ None
- ☐ Unknown

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. Infection Present and/or Treated During Pregnancy
(Check **all** that apply)

- ☐ Gonorrhea
- ☐ Syphilis
- ☐ Herpes Simplex (HSV)
- ☐ Chlamydia
- ☐ Bacterial Vaginosis
- ☐ Hepatitis B
- ☐ Hepatitis C
- ☐ Listeria
- ☐ Group B Strep
- ☐ Tuberculosis
- ☐ Rubella
- ☐ Cytomegalovirus
- ☐ Parvovirus
- ☐ Toxoplasmosis
- ☐ Other
- ☐ None
- ☐ Unknown

32. DELIVERY

a. Method of Delivery

1. Was delivery with forceps attempted but unsuccessful?
☐ Attempted and successful ☐ Attempted and unsuccessful
☐ Forceps were not used ☐ Unknown

2. Was delivery with vacuum extraction attempted but unsuccessful?
☐ Attempted and successful ☐ Attempted and unsuccessful
☐ Vacuum extraction was not used ☐ Unknown

3. Fetal presentation at delivery
- ☐ Cephalic
- ☐ Breech
- ☐ Other
- ☐ Unknown

4. Final route and method of delivery
(Check **one**)
- ☐ Vaginal/Spontaneous
- ☐ Vaginal/Forceps
- ☐ Vaginal/Vacuum
  Vaginal delivery after a previous C-section?
  ☐ Yes ☐ No ☐ Unknown
- ☐ Primary Cesarean
- ☐ Repeat Cesarean
  If cesarean, was a trial of labor attempted?
  ☐ Yes ☐ No ☐ Unknown

5. Hysterotomy/Hysterectomy
☐ Yes ☐ No ☐ Unknown

b. Maternal Morbidity (Check **all** that apply)
(Complications associated with labor and delivery)

- ☐ Maternal transfusion
- ☐ Third or fourth degree perineal laceration
- ☐ Ruptured uterus
- ☐ Unplanned hysterectomy
- ☐ Admission to intensive care unit
- ☐ Unplanned operating room procedure following delivery
- ☐ Hemorrhage
- ☐ Postpartum transfer to a higher level of care
- ☐ Other
- ☐ None
- ☐ Unknown

c. Was mother transferred for maternal medical or fetal indication prior to delivery?
☐ Yes ☐ No ☐ Unknown

If yes, name of facility transferred from:

_____

33. FETAL ATTRIBUTES

a. Weight of Fetus (grams preferred, specify unit)

_____ ☐ lb/oz _____ ☐ grams

b. Estimated Time of Fetal Death
- ☐ Death at time of first assessment, no labor ongoing
- ☐ Death at time of first assessment, labor ongoing
- ☐ Died during labor, after first assessment
- ☐ Unknown time of fetal death

c. Was an autopsy performed?
☐ Yes ☐ No ☐ Planned

d. Was a histological placental examination performed?
☐ Yes ☐ No ☐ Planned

e. Were autopsy or histological placental examination results used in determining the cause of fetal death?
☐ Yes ☐ No ☐ Unknown

f. Congenital Anomalies of the Fetus
(Check **all** that apply)
- ☐ Anencephaly
- ☐ Meningomyelocele/Spina bifida
- ☐ Cyanotic congenital heart disease
- ☐ Congenital diaphragmatic hernia
- ☐ Omphalocele
- ☐ Gastroschisis
- ☐ Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
- ☐ Cleft lip with or without cleft palate
- ☐ Cleft palate alone
- ☐ Down syndrome
  - ☐ Karyotype confirmed
  - ☐ Karyotype pending
- ☐ Suspected chromosomal disorder
  - ☐ Karyotype confirmed
  - ☐ Karyotype pending
- ☐ Hypospadias
- ☐ Other
- ☐ None
- ☐ Unknown

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)

FACILITY

1. DATE OF PROCEDURE FOR TERMINATION *(Month) (Day) (Year-yyyy)*

2. FACILITY TYPE
☐ Hospital ☐ Shared Facility
☐ Clinic (Article 28) ☐ Doctor's Office
☐ Clinic (non-Article 28) ☐ Unknown
☐ Other type _____

3A. FACILITY NAME

3B. FACILITY ADDRESS
Street Number and Name | Apt. #, Suite #, etc.

City or Town | County | State | Country | ZIP Code

4. PRIMARY FINANCIAL COVERAGE THIS TERMINATION
☐ Medicaid ☐ Self Pay
☐ Other Govt. Insurance ☐ Unknown
☐ Private Insurance

PATIENT

5. PATIENT'S LEGAL NAME
First Name _____|_____ (First two letters) Last Name _____|_____ (First two letters)

6. PATIENT'S DATE OF BIRTH *(Month) (Day) (Year-yyyy)*

7. PATIENT'S BIRTHPLACE
City or Town | State | Country

8. NEVER LIVED IN UNITED STATES ☐
If born outside of the United States, how long lived in U.S.? _____ (years)
Or if less than 1 year, _____ (months)

9. PATIENT'S USUAL RESIDENCE (COMPLETE ONLY ONE)
☐ **New York City** ZIP Code ____|____|____|____|____
☐ Manhattan ☐ Bronx ☐ Brooklyn ☐ Queens ☐ Staten Island
☐ Unknown
☐ **New York State (Outside NYC)**
City or Town | County | ZIP Code
☐ **Outside NYS** _____ (U.S. State)
☐ **Outside U.S.** _____ (Foreign Country)

PATIENT ATTRIBUTES

10. EDUCATION
☐ 8th grade or less; none
☐ 9th–12th grade, no diploma
☐ High school graduate or GED completed
☐ Some college credit, but no degree
☐ Associate degree
☐ Bachelor's degree
☐ Master's degree
☐ Doctorate or Professional degree
☐ Unknown

11. ANCESTRY (CHECK ONE BOX AND SPECIFY)
☐ Spanish/Hispanic/Latino
Specify _____
☐ NOT Spanish/Hispanic/Latino *(Italian, African American, Haitian, Pakistani, Ukranian, Nigerian, Taiwanese, etc.)*
Specify _____
☐ Unknown

12. RACE
Race as defined by the U.S. Census. (Check one or more to indicate what the patient considers herself to be.)
☐ White
☐ Black or African American
☐ American Indian or Alaska Native (specify tribe) _____
☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Korean
☐ Vietnamese
☐ Other Asian (specify) _____
☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (specify) _____
☐ Other (specify) _____
☐ Unknown

13. MARITAL/PARTNERSHIP STATUS
☐ Married
☐ Domestic Partnership
☐ Divorced
☐ Married, but separated
☐ Never Married
☐ Widowed
☐ Other, Specify _____
☐ Unknown

MEDICAL

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 _____ ☐ None
b. Born Alive Now Living _____ ☐ None
c. Born Alive Now Dead _____ ☐ None
d. Total Number of Other Pregnancy Outcomes _____ ☐ None
e. Number of Spontaneous Terminations _____ ☐ None
f. Number of Induced Terminations _____ ☐ None

17. TERMINATION PROCEDURE

17A. PRIMARY PROCEDURE (CHECK ONLY ONE)
☐ Suction Curettage
☐ Sharp Curettage (D&C)
☐ Dilation and Evacuation (D&E)
☐ Intra-Uterine Instillation
☐ Hysterotomy/Hysterectomy
☐ Misoprostol
☐ Mifepristone and Misoprostol
☐ Methotrexate and Misoprostol
☐ Other Medical (nonsurgical) Specify Medications _____
☐ Other, Specify _____

17B. ADDITIONAL PROCEDURES (CHECK ALL THAT APPLY)
☐ None
☐ Suction Curettage
☐ Sharp Curettage (D&C)
☐ Dilation and Evacuation (D&E)
☐ Intra-Uterine Instillation
☐ Hysterotomy/Hysterectomy
☐ Misoprostol
☐ Mifepristone and Misoprostol
☐ Methotrexate and Misoprostol
☐ Other Medical (nonsurgical) Specify Medications _____
☐ Other, Specify _____

18. CONTRACEPTIVES PROVIDED AT TIME OF PROCEDURE
Did the patient receive any information/counseling about contraceptives?
☐ Yes ☐ No
Did the patient receive any contraception at time of the procedure?
☐ Yes, complete table →
☐ No, follow-up appointment or referral was made for contraceptives
☐ No, patient declined all contraceptive methods
☐ No, other: _____

Check all that apply	Placed/Given at Time of Procedure	Prescribed at Time of Procedure
Hormonal IUD	☐	
Non-hormonal IUD	☐	
Implant	☐	
Injection	☐	☐
Oral Contraceptive Pills	☐	☐
Patch	☐	☐
Vaginal Ring	☐	☐
Emergency Contraceptive Pill	☐	☐
Condoms	☐	
Other Specify:	☐	☐

ATTENDANT/CERTIFIER

19. ATTENDANT NAME AT TERMINATION: ☐ MD ☐ DO ☐ NP ☐ LIC. MIDWIFE
(First, Middle, Last, Suffix)

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.
☐ MD ☐ DO ☐ NP ☐ LIC. MIDWIFE

Signature of Certifier

Name of Certifier

Address

License No. | *Date*

VR-18
(REV. 10/19)