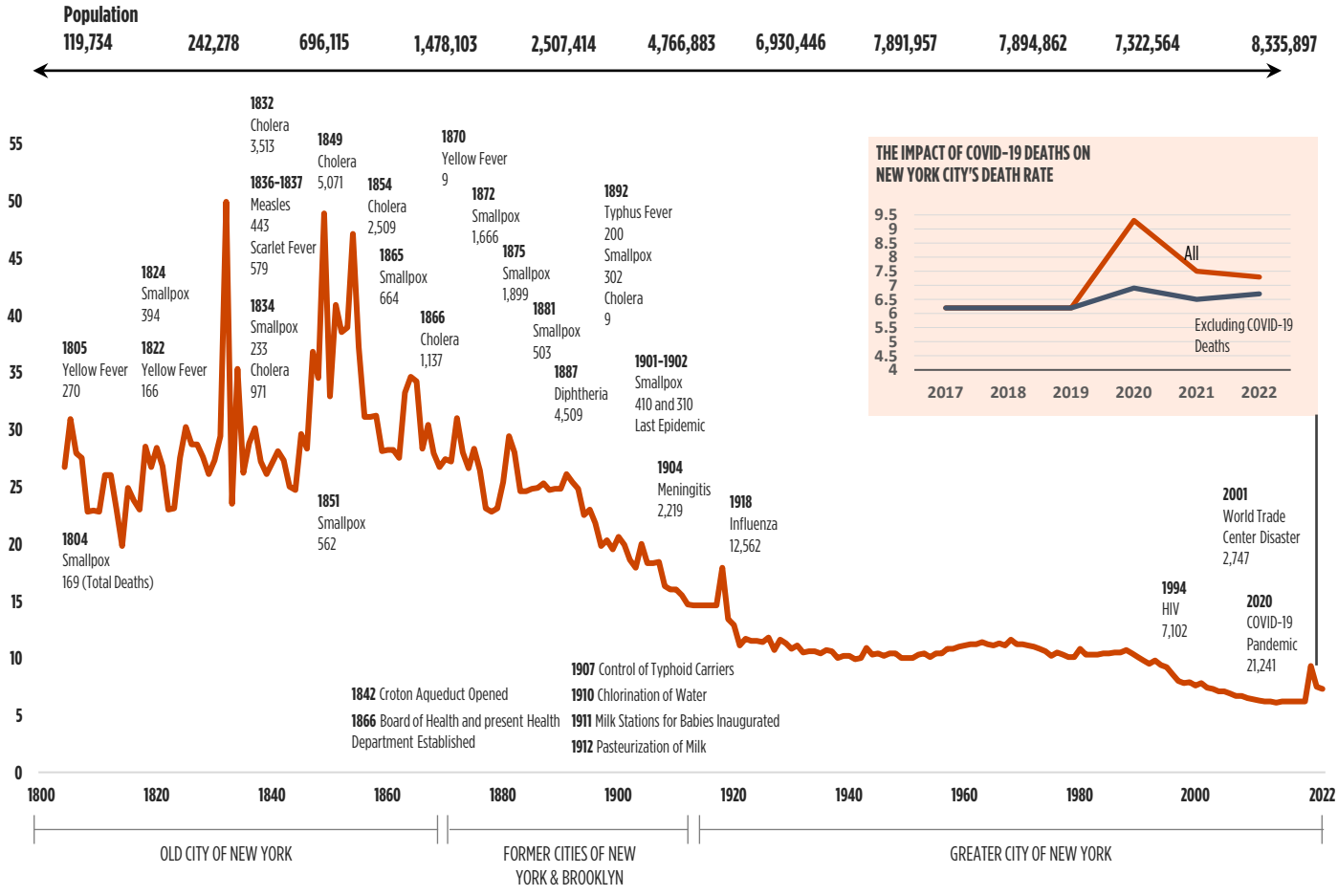
Summary of Vital Statistics 2022

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 2022

The City of New York

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In Memory of Gil A. Maduro

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NYC Health

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NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Michelle Morse, MD, MPH
Acting 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. These 2022 data and trends are important depictions of the state of health in New York City during the ongoing 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 the HealthyNYC campaign, which aims to increase the life expectancy of New Yorkers to 83 years or higher by 2030. This report does not provide context on how or why there are differences in outcomes between sub-populations. In 2021, the NYC Board of Health passed a resolution that declared racism a public health crisis. Structural racism, classism, gender inequity, and numerous other factors related to social determinants of health shape the findings herein. The NYC Health Department is committed to ensuring that our internal and external policies and practices promote the health of all New Yorkers.

Highlights from our 2022 report, which begins on the next page, include:

Life expectancy
- In 2022, citywide life expectancy at birth was 81.5 years, increasing by 0.8 years since 2021.
- Non-Hispanic/Latino Black New Yorkers had the lowest life expectancy among racial/ethnic groups at 76.9 years, while life expectancy among non-Hispanic/Latino white New Yorkers was 82.3 years. The inequities that worsened due to the COVID pandemic have improved, but the gap between groups is still greater than it was in 2019.
- This report is the first to include a single-year life expectancy estimate for Asian and Pacific Islander New Yorkers. In 2022, the life expectancy for this group exceeded all other race/ethnicity groups, at 86.0 years.

Mortality rates
- In 2022, the COVID-19 crude mortality rate decreased substantially, from 97.2 deaths per 100,000 population in 2021 to 40.5 per 100,000 population in 2022.
- In 2022, the age-adjusted death rate also decreased, from 612.5 per 100,000 population in 2021, to 579.2 in 2022. However, the rate is still higher than the 2019 rate of 512.7 per 100,000 population.
- The citywide age-adjusted premature death rate decreased by 4.5% from 2021 (230.8 per 100,000 population) to 2022 (220.3 per 100,000 population). However, the rate is still higher than the 2019 rate of 180.2 per 100,000 population.
- The crude unintentional drug overdose rate continued to rise in 2022, with a 15.6% increase from 2021. The 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 high poverty neighborhoods (395.1%).
- The infant mortality rate was 4.3 infant deaths per 1,000 live births in 2022, a 7.5% increase from 2021, and the rate for non-Hispanic/Latino Black New Yorkers was 2.8 times the rate for non-Hispanic/Latino whites. The rate may vary from year to year due to small numbers.

Birth rate
- In 2022, New York City's birth rate was 11.9 births per 1,000 population, an increase of 1.7% since 2021.

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 Health Department is committed to strengthening the agency's ability to use data to expose, understand, and address health inequities in New York City.

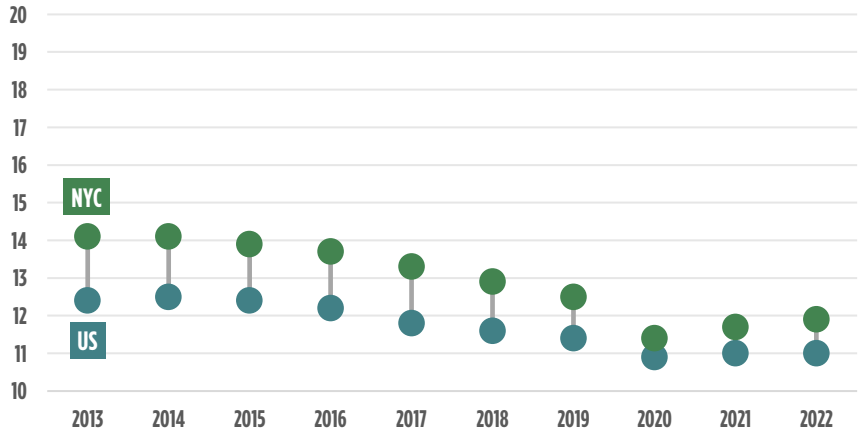
Sincerely,

Michelle Morse, MD, MPH
Acting Commissioner

- In 2022, the birth rate was highest among non-Hispanic/Latino Whites at 13.7 births per 1,000 population, followed by 12.1 among both Asians and Pacific Islanders, 11.9 among Hispanics/Latinos, and 9.5 among non-Hispanic/Latino Blacks.
- In 2022, the community district with the highest crude birth rate was Borough Park with 23.6 births per 1,000 population; the community district with the lowest crude birth rate was Bayside with 4.0 births per 1,000 population.

Pregnancy Outcomes

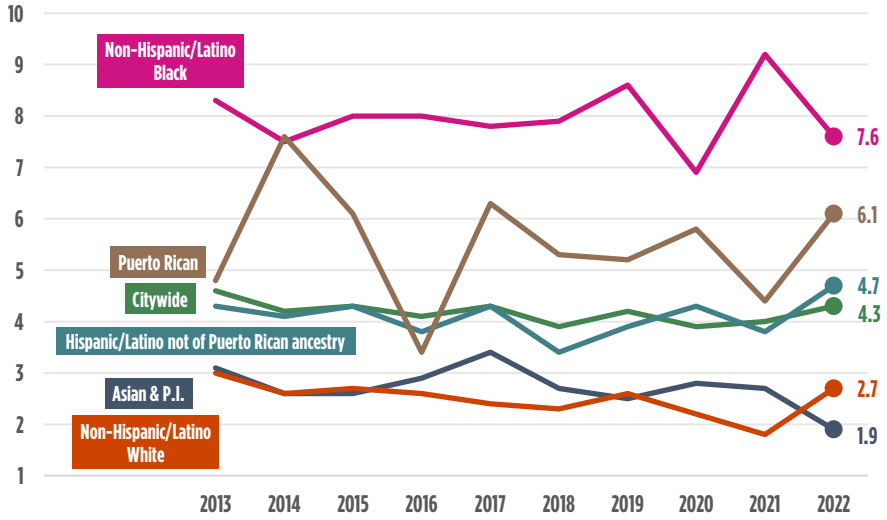
The 2022 citywide crude birth rate was 11.9 births per 1,000 population, an increase of 1.7% from 2021. New York City's birth rate has experienced a modest decrease in the past ten years, as has the United States' birth rate.



- In 2022, New York City had an infant mortality rate of 4.3 infant deaths per 1,000 live births. This represents an increase of 7.5% from 2021 (4.0 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 6.5% since 2013.
- The infant mortality rate disparity between non-Hispanic/Latino Blacks and non-Hispanic/Latino Whites decreased from 5.1 in 2021 to 2.8 in 2022. The disparity in infant mortality rates between Puerto Ricans and non-Hispanic/Latino Whites decreased slightly from 2.4 in 2021 to 2.3 in 2022. These changes may be due to the small number of infant deaths from year to year.

Infant Mortality

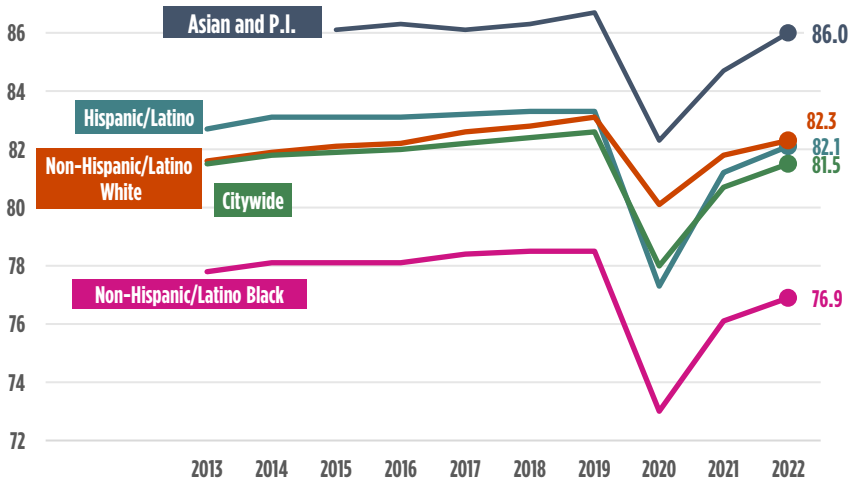
Infant mortality rates decreased from 2021 to 2022 among non-Hispanic/Latino Blacks and Asians & Pacific Islanders. During the same time, infant mortality increased among Puerto Ricans, Other Hispanics/Latinos, and non-Hispanic Whites.



- New York City's life expectancy at birth in 2022 was 81.5 years, increasing by 0.8 years since 2021.
- From 2021 to 2022, life expectancy increased by 0.8 year among non-Hispanic/Latino Blacks, 0.9 year among Hispanics/Latinos, 0.5 year among non-Hispanic/Latino Whites, and 1.3 years among Asians and Pacific Islanders.
- The single-year life expectancy estimate for Asians and Pacific Islanders is presented here for the first time, for years 2015–2022.

Life Expectancy at Birth

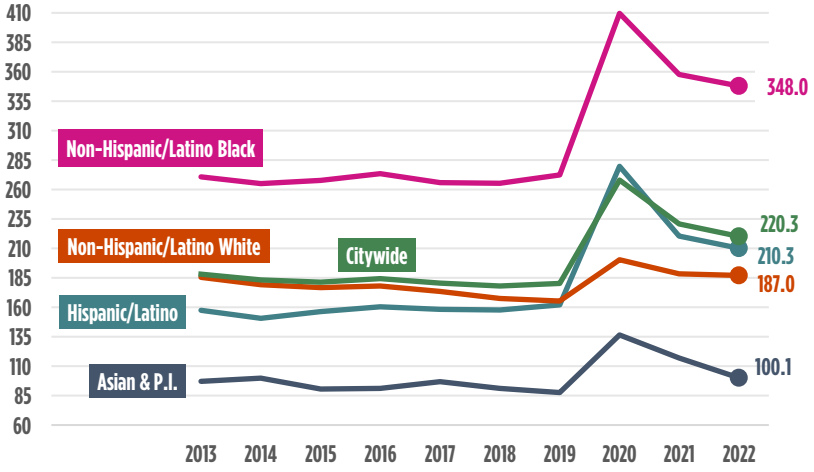
The New York City 2022 life expectancy at birth was 82.1 years among Hispanics/Latinos, 82.3 years among non-Hispanic/Latino Whites, 76.9 years among non-Hispanic/Latino Blacks, and 86.0 years among Asians and Pacific Islanders. Life expectancy for each racial/ethnic group increased since 2021 but remained lower than 2019 estimates.



- The citywide age-adjusted death rate decreased from 612.5 per 100,000 population in 2021, to 579.2 in 2022 (a 5.4% decrease).
- From 2021 to 2022, the age-adjusted death rate decreased by 6.0% among Hispanics/Latinos, by 4.5% among non-Hispanic/Latino Blacks, by 3.1% among non-Hispanic/Latino Whites, and by 9.6% among Asians and Pacific Islanders.

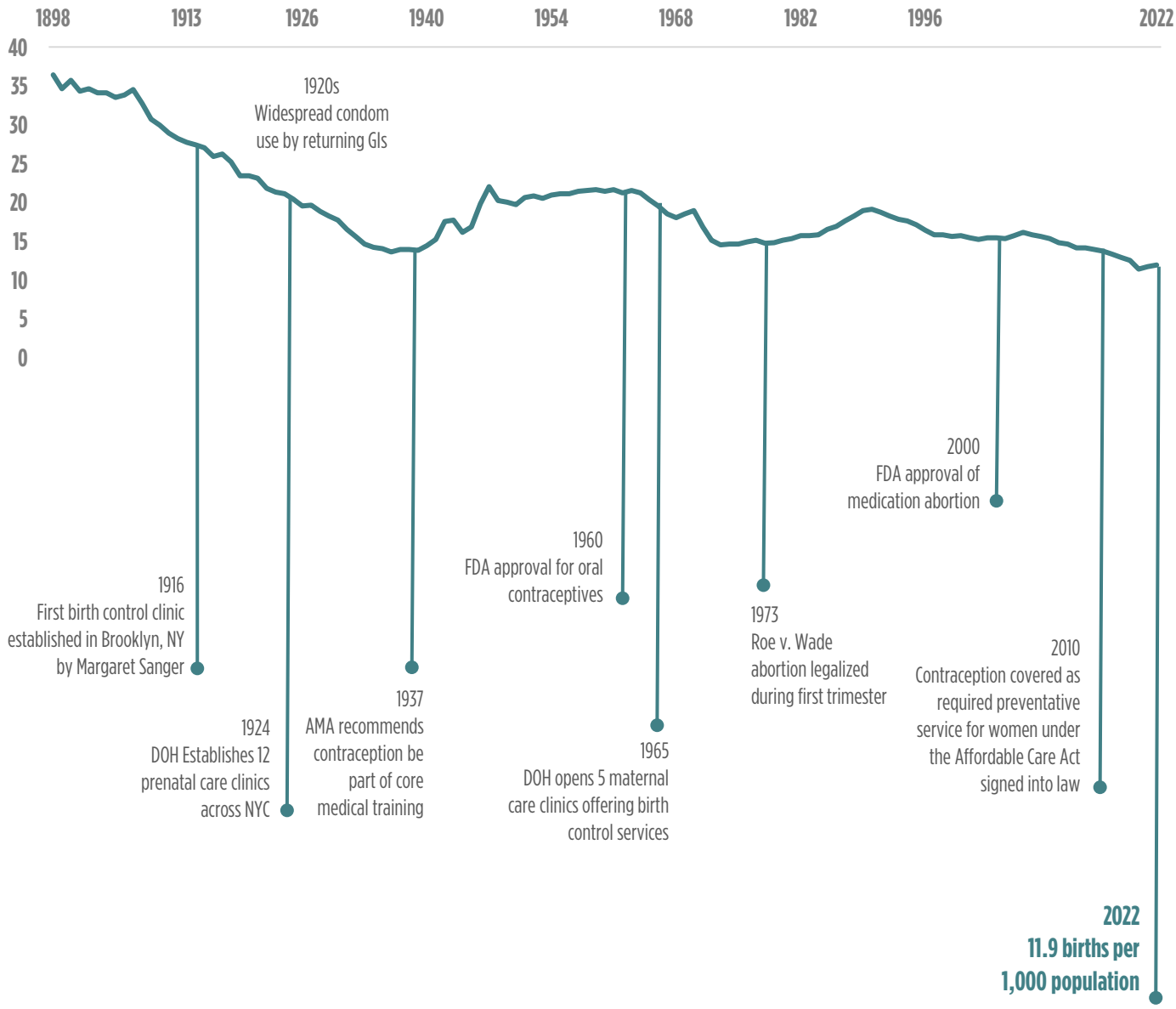
Mortality

From 2021 to 2022, the age-adjusted premature mortality rate decreased among Hispanics/Latinos by 4.7%, among non-Hispanic/Latino Blacks by 2.7%, among non-Hispanic/Latino Whites by 0.7%, and among Asians and Pacific Islanders by 14.5%.



PREGNANCY OUTCOMES

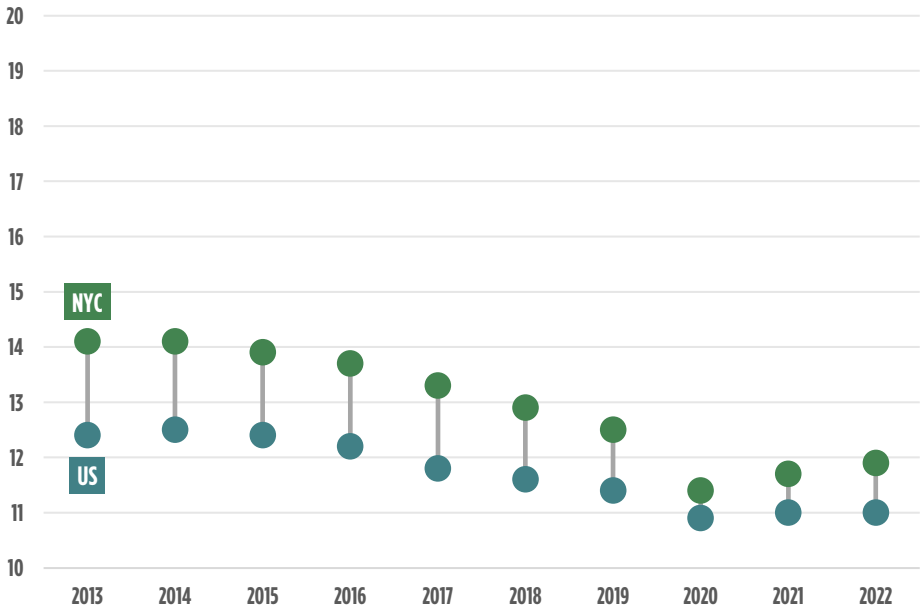
Birth Rate Per 1,000 Population Over Time



PREGNANCY OUTCOMES

Figure 1. Birth Rates, New York City and the United States, 2013–2022

The 2022 citywide crude birth rate was 11.9 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.



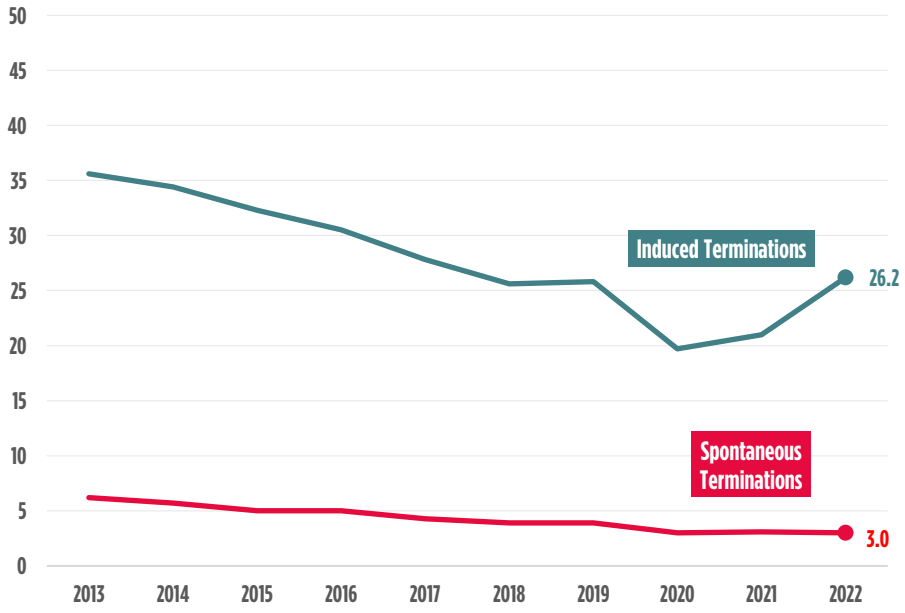
In 2022, the citywide crude birth rate increased by 1.7% from 2021. It decreased by 15.6% since 2013.

In 2022, live births increased slightly by 0.2% from 2021, the second year of increase after seven consecutive years decline. The population decreased from 2021 to 2022, by 1.6%.

New York City's 2022 crude birth rate was slightly higher than the United States rate (11.9 vs. 11.0 nationwide), consistent with previous years.

Figure 2. Spontaneous and Induced Termination of Pregnancy Rates, New York City, 2013-2022

The 2022 citywide crude spontaneous termination of pregnancy (miscarriages and stillbirths) rate was 3.0 terminations per 1,000 females aged 15 to 44 years.



The spontaneous termination of pregnancy rate has slightly decreased since 2021 and has been between 3.0 and 6.2 terminations per 1,000 females aged 15 to 44 years since 2013.

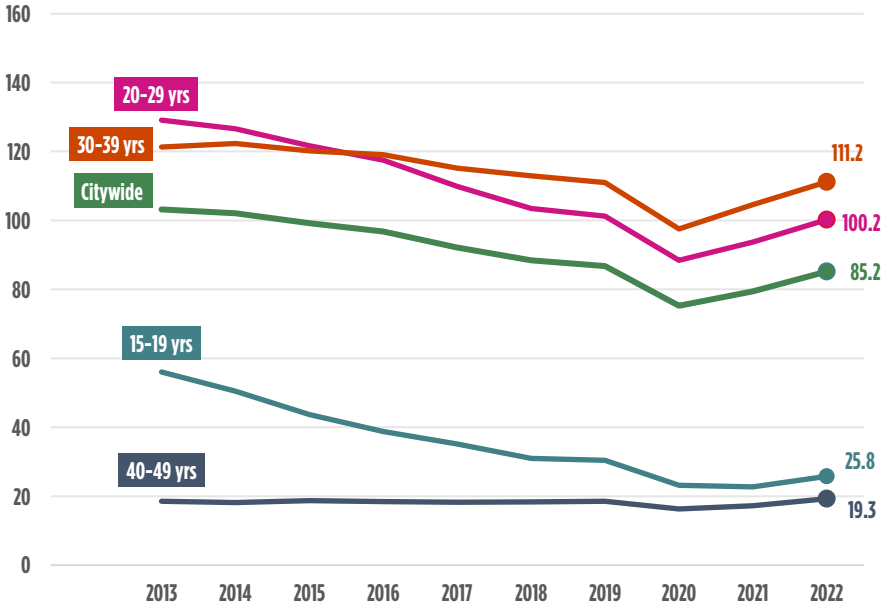
Changes in rates of spontaneous terminations of pregnancy may be due to variations in the reporting of these events by facilities rather than true changes in such events. For example, some facilities may fail to report very early gestational age spontaneous terminations. DOHMH continues to conduct outreach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

The 2022 citywide crude rate of induced terminations of pregnancy was 26.2 terminations per 1,000 females aged 15 to 44 years, increasing by 24.8% since 2021. Since 2013, the rate has decreased by 26.4%, from 35.6 to 26.2 terminations per 1,000 females aged 15 to 44 years.

PREGNANCY OUTCOMES

Figure 3. Pregnancy Rates* by Woman's Age Group, New York City, 2013-2022

In 2022, women aged 30 to 39 years of age had the highest rate of pregnancy (live births, induced terminations, and spontaneous terminations) at 111.2 pregnancies per 1,000 females aged 30 to 39 years.



*See Technical Notes for the definition of pregnancy rate.

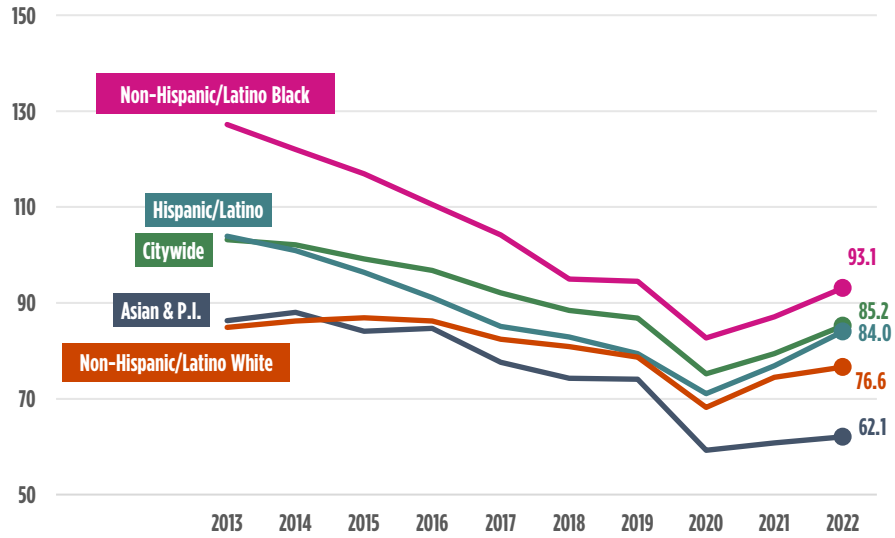
The second highest rate of pregnancy was for women aged 20 to 29 at 100.2, then women 15 to 19 years old and 40 to 49 years old, with pregnancy rates of 25.8 and 19.3, respectively.

Since 2013, pregnancy rates have decreased by 22.4% among women aged 20-29 years old, by 8.3% among women aged 30-39 years old, and increased by 4.3% among women aged 40-49 years old.

The teen pregnancy rate (15-19 years of age) decreased by 53.9% since 2013 and increased by 13.7% since 2021.

Figure 4. Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2013-2022

Since 2013, the citywide pregnancy rate has declined by 17.4%, from 103.2 to 85.2 pregnancies per 1,000 females aged 15-44 .



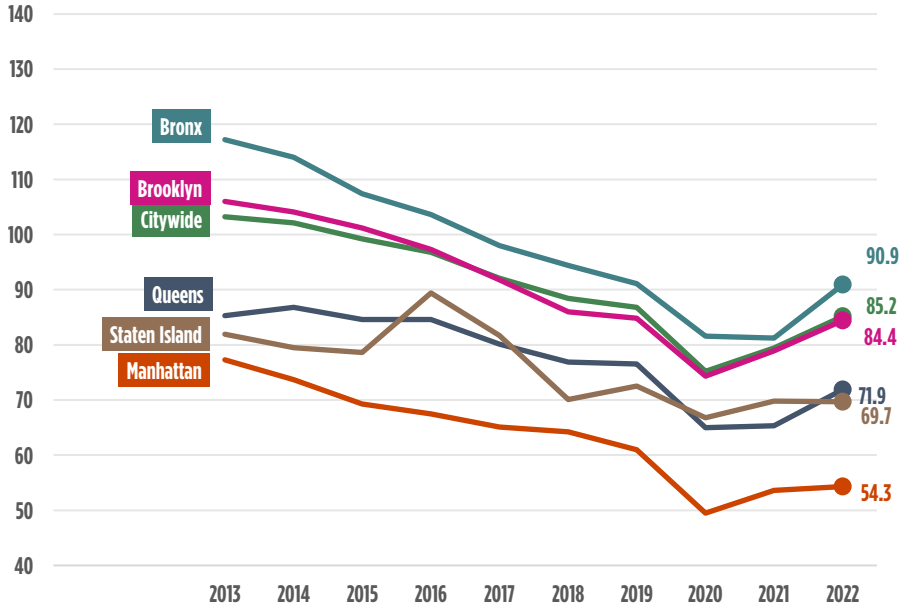
In 2022, the pregnancy rate was highest among non-Hispanic/Latino Blacks at 93.1 pregnancies per 1,000 females aged 15-44, followed by 84.0 among Hispanics/Latinos, 76.6 among non-Hispanic/Latino Whites, and 62.1 among Asians and Pacific Islanders.

From 2013 to 2022, the pregnancy rate decreased among all groups. Over the ten-year period, non-Hispanic/Latino Blacks experienced a 26.8% decline; Hispanics/Latinos, a 19.2% decline; Asians and Pacific Islanders, a 28.0% decline, and non-Hispanic/Latino Whites, a 9.8% decline.

PREGNANCY OUTCOMES

Figure 5. Pregnancy Rates by Woman's Borough of Residence, New York City, 2013-2022

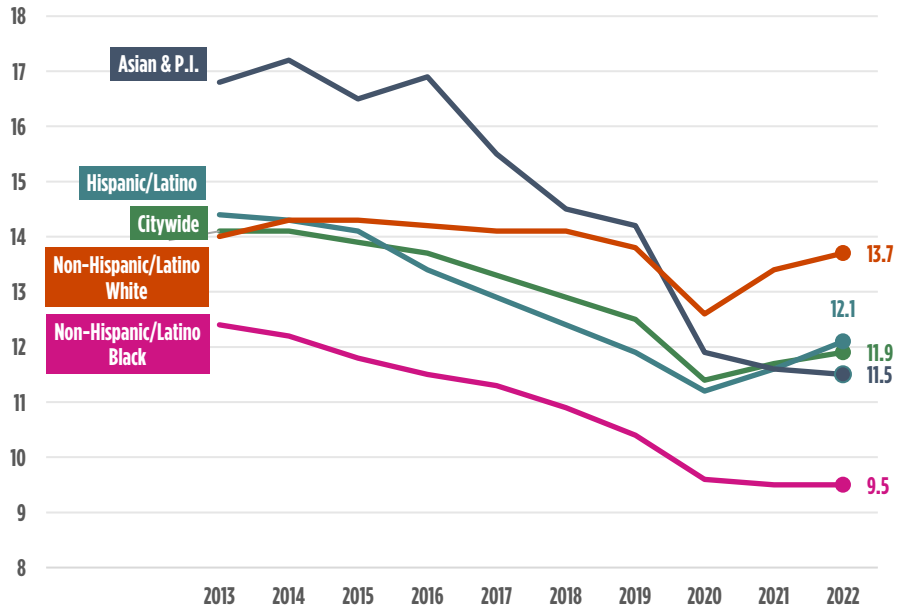
In 2022, the pregnancy rate in the Bronx continued to be the highest, at 90.9 pregnancies per 1,000 females aged 15-44, followed by Brooklyn at 84.4, Queens at 71.9, Staten Island at 69.7 and Manhattan at 54.3.



Since 2013, pregnancy rates have declined in all boroughs. Rates have decreased by 22.4% in the Bronx, by 20.4% in Brooklyn, by 29.8% in Manhattan, by 15.7% in Queens, and by 14.9% in Staten Island.

Figure 6. Birth Rates by Mother's Racial/Ethnic Group, New York City, 2013-2022

In 2022, the birth rate was highest among non-Hispanic/Latino Whites at 13.7 births per 1,000 population, followed by 12.1 among Hispanics/Latinos, 11.5 among Asians and Pacific Islanders, and 9.5 among non-Hispanic/Latino Blacks.

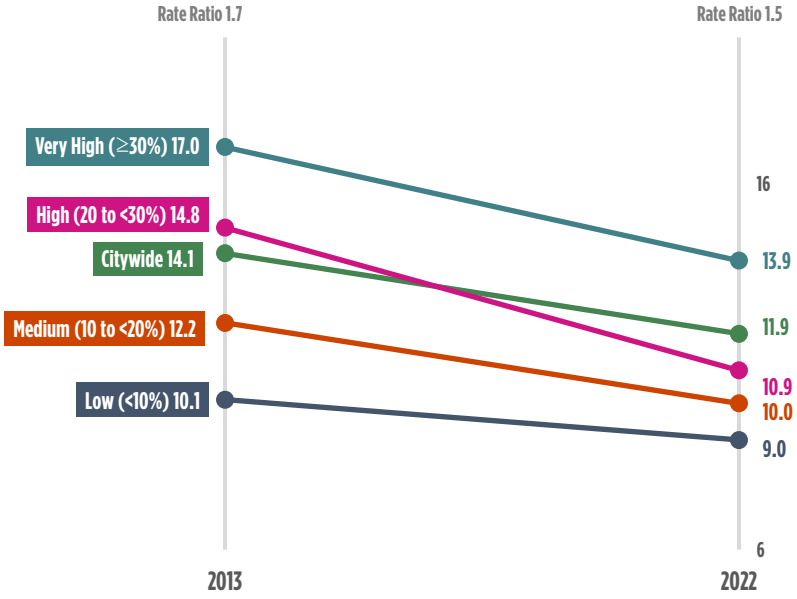


From 2021 to 2022, the birth rate among Asians and Pacific Islanders continued to decline by 0.9%. Birth rate for non-Hispanic/Latino Blacks stayed the same as 2021. Hispanics/Latinos and non-Hispanic/Latino Whites experienced an increase in birth rates — a 2.3% increase for Hispanics/Latinos and a 4.3% increase for non-Hispanic/Latino Whites.

PREGNANCY OUTCOMES

Figure 7. Birth Rates by Neighborhood Poverty*†, New York City, 2013 and 2022

In 2022, the birth rate was highest in the city's very high poverty neighborhoods, at 13.9 births per 1,000 population, compared to 9.0 for the low poverty neighborhoods.



In 2022, the birth rate in the city's very high poverty neighborhoods was 1.5 times the birth rate of the city's low poverty neighborhoods, which differs from the rate ratio of 1.7 in 2013.

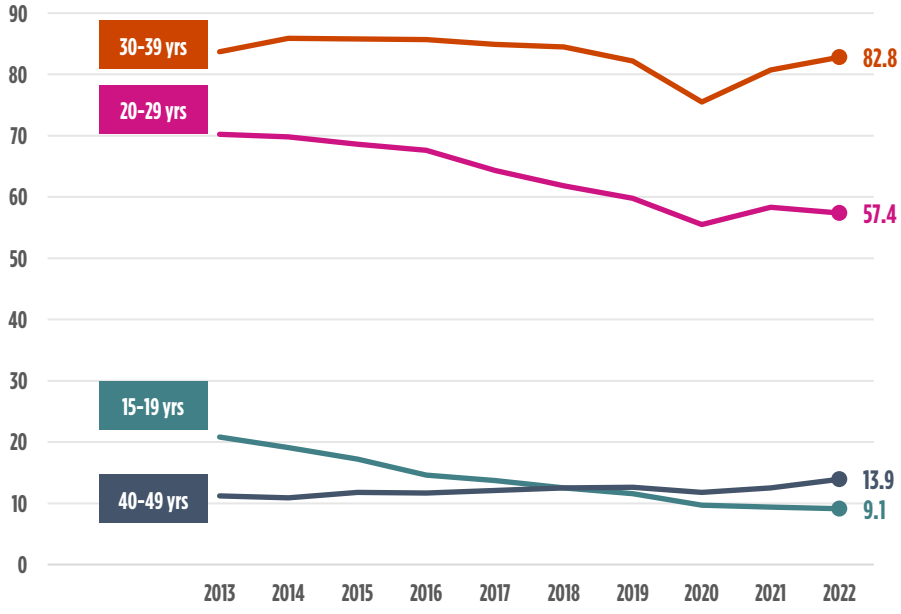
Since 2013, birth rates decreased across all categories of neighborhood poverty.

*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 2013 data and per ACS 2017-2021 for 2022 data.

†The citywide estimate is restricted to NYC residents.

Figure 8. Birth Rates by Mother's Age Group, New York City, 2013-2022

In 2022, the birth rate among women aged 30 to 39 years of age continued to be the highest, at 82.8 births per 1,000 female population, followed by women 20 to 29 at 57.4, then women 40 to 49 years old and 15 to 19 years old, with birth rates of 13.9 and 9.1, respectively.



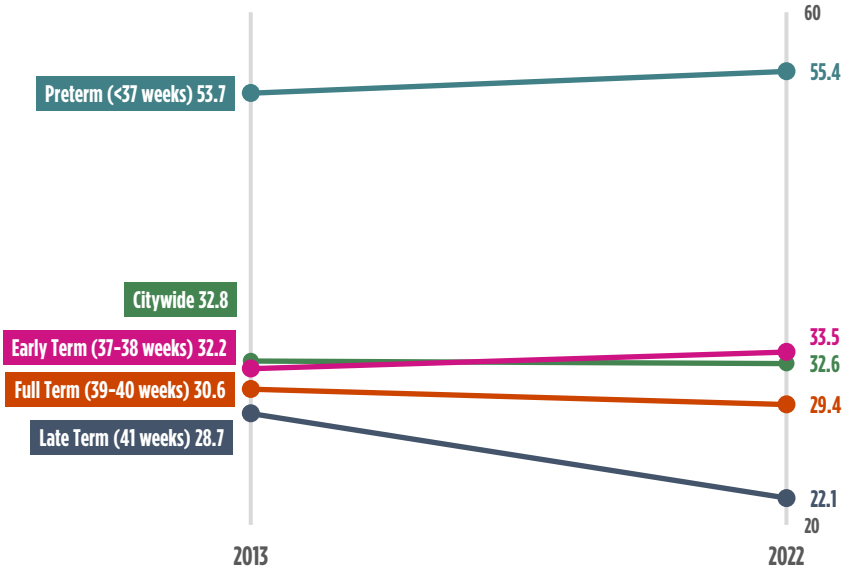
Since 2013, birth rates decreased among all age groups except for women aged 40-49 years old, for which the rate increased by 24.1%.

Among women 20-29 years old, the birth rate has declined by 18.2% since 2013. The teen birth rate (15-19 years of age) has decreased by 56.3% since 2013, and 3.2% since 2021. The birth rate for women aged 30-39 years old has declined by 1.1% since 2013, yet increased by 2.9% since 2021.

PREGNANCY OUTCOMES

Figure 9. Percent of Births via Cesarean Delivery by Gestational Age, New York City, 2013 and 2022

From 2013 to 2022, the percent of births delivered via Cesarean section 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).



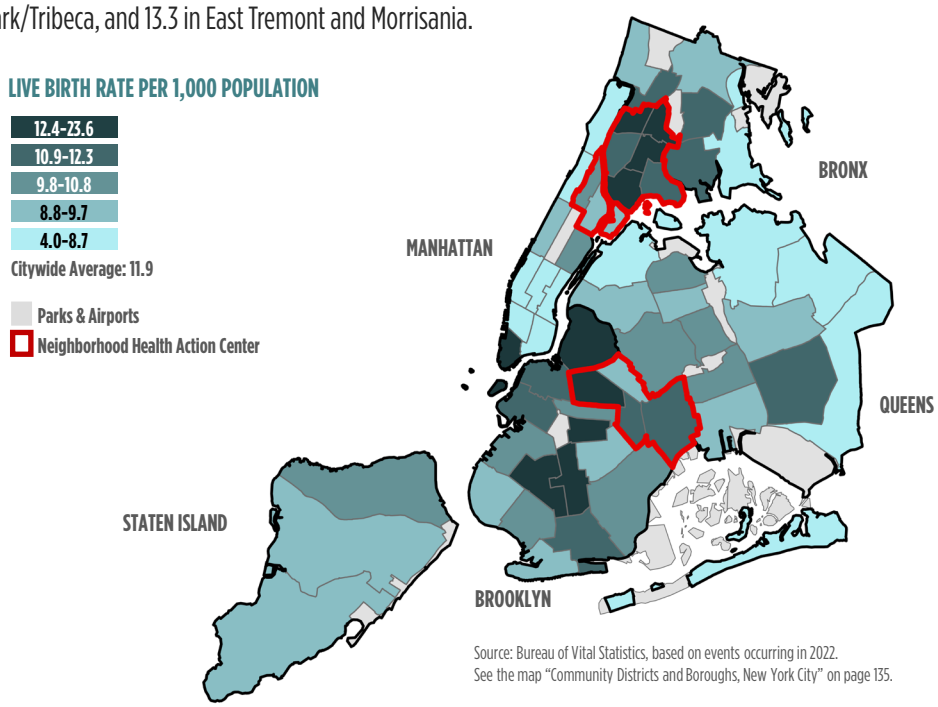
For both years, as gestational age increases, the percent of births delivered via Cesarean section decreases.

For 2013 and 2022, a majority of preterm infants were delivered by Cesarean section.

PREGNANCY OUTCOMES

Figure 10. Birth Rates by Community District of Residence, New York City, 2022

In 2022, the community district with the highest crude birth rate was Borough Park with 23.6 births per 1,000 population, followed by 17.0 in Williamsburg/Greenpoint, 14.7 in Bedford Stuyvesant, 13.5 in Battery Park/Tribeca, and 13.3 in East Tremont and Morrisania.



The community district with the lowest crude birth rate was Bayside with 4.0 births per 1,000 population, then the Lower East Side with 4.7, Chelsea/Clinton with 5.7, Greenwich Village/SOHO with 6.0, and Queens Village with 6.7.

Source: Bureau of Vital Statistics, based on events occurring in 2022.
See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	Birth Rate
Battery Park, Tribeca	MN01	13.5
Central Harlem	MN10	10.2
Upper East Side	MN08	10.1
East Harlem	MN11	9.6
Upper West Side	MN07	9.1
Washington Heights	MN12	8.5
Midtown Business District	MN05	8.2
Manhattanville	MN09	7.5
Murray Hill	MN06	7.2
Greenwich Village, SOHO	MN02	6.0
Chelsea, Clinton	MN04	5.7
Lower East Side	MN03	4.7

BRONX	CD	Birth Rate
Morrisania	BX03	13.3
East Tremont	BX06	13.3
Mott Haven	BX01	13.2
University, Morris Heights	BX05	12.4
Concourse, Highbridge	BX04	12.2
Fordham	BX07	12.1
Hunts Point	BX02	11.7
Unionport, Soundview	BX09	11.6
Pelham Parkway	BX11	11.1
Williamsbridge	BX12	9.4
Riverdale	BX08	9.2
Throgs Neck	BX10	7.7

STATEN ISLAND	CD	Birth Rate
Port Richmond	SI01	10.5
Tottenville	SI03	9.7
Willowbrook, South Beach	SI02	9.5

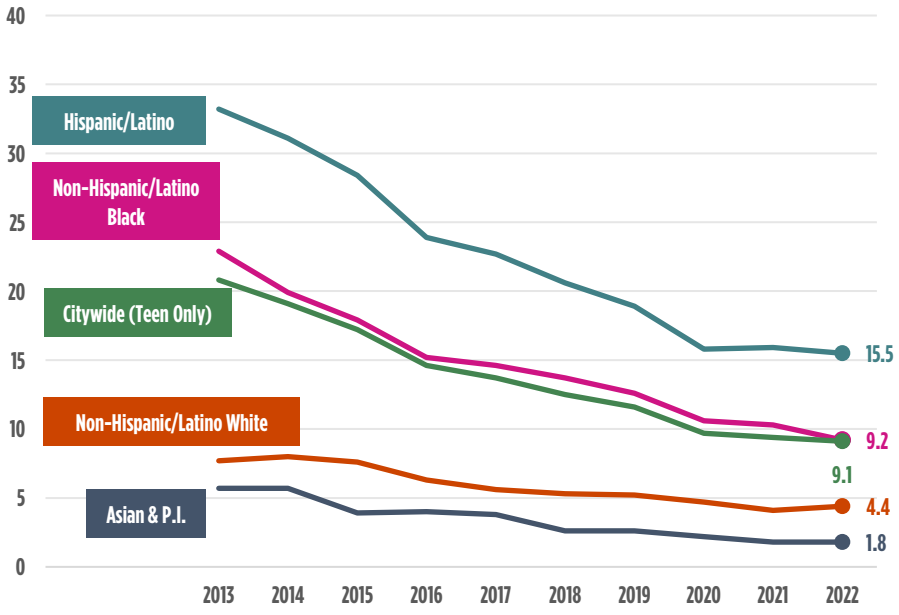
BROOKLYN	CD	Birth Rate
Borough Park	BK12	23.6
Williamsburg, Greenpoint	BK01	17.0
Bedford Stuyvesant	BK03	14.7
Flatbush, Midwood	BK14	13.2
Crown Heights South	BK09	12.5
Park Slope	BK06	12.3
Brownsville	BK16	12.3
Sheepshead Bay	BK15	12.2
East New York	BK05	12.0
Fort Greene, Brooklyn Heights	BK02	11.6
Crown Heights North	BK08	10.8
Bensonhurst	BK11	10.6
Sunset Park	BK07	10.4
Canarsie	BK18	9.8
Bay Ridge	BK10	9.7
Coney Island	BK13	9.7
East Flatbush	BK17	9.4
Bushwick	BK04	9.1

QUEENS	CD	Birth Rate
Jamaica, St. Albans	QN12	11.0
Woodhaven	QN09	10.6
Rego Park, Forest Hills	QN06	10.4
Ridgewood, Glendale	QN05	10.3
Jackson Heights	QN03	10.2
Sunnyside, Woodside	QN02	9.7
Elmhurst, Corona	QN04	9.7
Howard Beach	QN10	9.0
Fresh Meadows, Briarwood	QN08	8.8
Astoria, Long Island City	QN01	8.7
The Rockaways	QN14	8.7
Flushing	QN07	7.0
Queens Village	QN13	6.7
Bayside	QN11	4.0

PREGNANCY OUTCOMES

Figure 11. Teen Birth Rates by Mother's Racial/Ethnic Group, New York City, 2013-2022

From 2013 to 2022, the citywide teen birth rate declined by 56.3% overall.



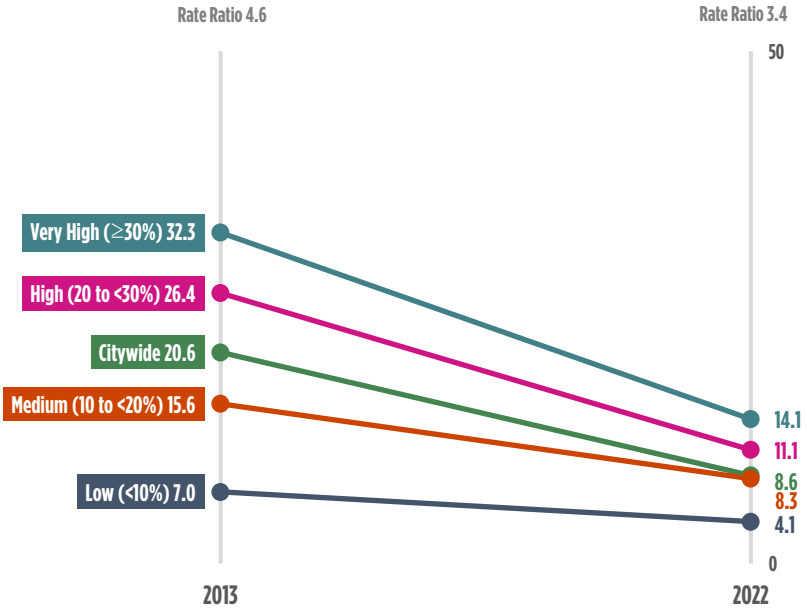
Teen birth rates also declined for all racial/ethnic groups: by 53.3% among Hispanics/Latinos, 59.8% among non-Hispanic/Latino Blacks, 42.9% among non-Hispanic/Latino Whites, and 68.4% among Asians and Pacific Islanders.

The teen birth rate among Hispanics/Latinos remains high compared to that of non-Hispanic/Latino Whites. In 2013, the teen birth rate for Hispanics/Latinos was 4.3 times that of non-Hispanic/Latino Whites. In 2022, the teen birth rate for Hispanics/Latinos was 3.5 times that of non-Hispanic/Latino Whites.

In 2022, the teen birth rate among non-Hispanic/Latino Blacks was 2.1 times that of non-Hispanic/Latino Whites, reflecting a narrowing of the difference since 2013, when it was 3.0 times that of non-Hispanic/Latino Whites.

Figure 12. Teen Birth Rate by Neighborhood Poverty*†, New York City Residents, 2013 and 2022

Between 2013 and 2022, teen birth rates declined across all poverty levels.



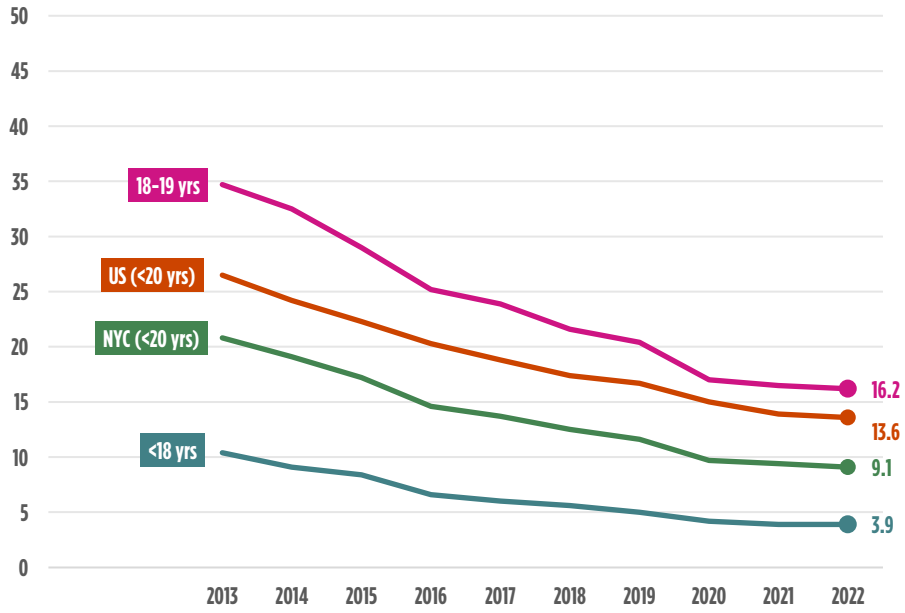
Over that time period, teen birth rates declined by 56.3% in the city's very high poverty neighborhoods, by 58.0% in high poverty neighborhoods, by 46.8% in medium poverty neighborhoods, and by 41.4% in low poverty neighborhoods.

Teen birth rates remain comparatively high in the city's very high poverty neighborhoods. In 2022, the teen birth rate in very high poverty neighborhoods was 3.4 times that of low poverty neighborhoods compared to being 4.6 times higher in 2013.

*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 2013 data and per ACS 2017-2021 for 2022 data.

†The citywide estimate is restricted to NYC residents.

Figure 13. Teen Birth Rates by Age Group, New York City, 2013-2022
From 2013 to 2022, birth rates declined among all teenagers, regardless of age.



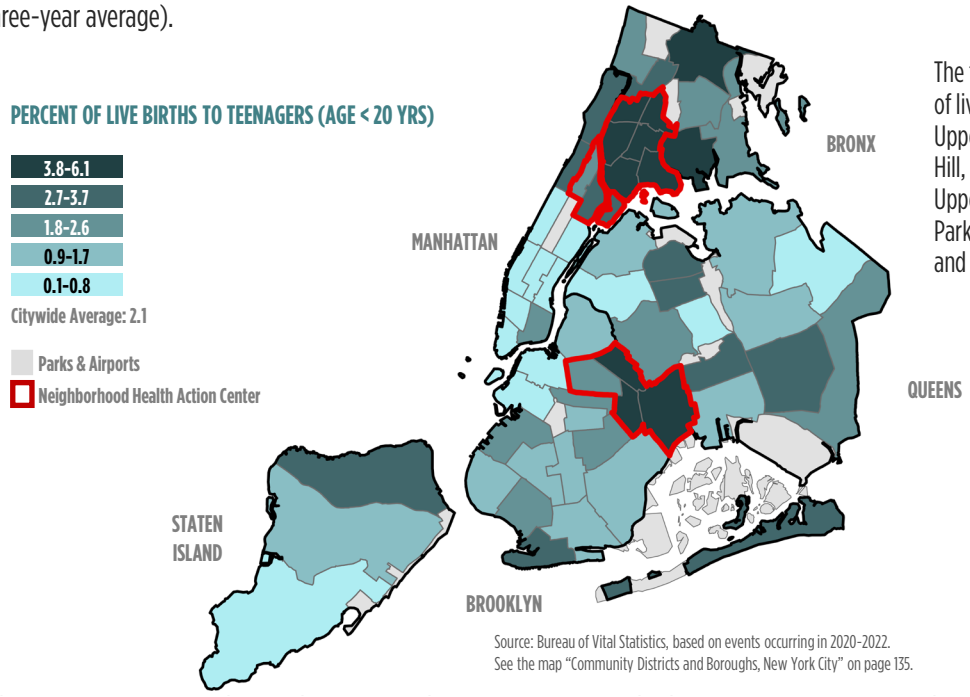
Among teens less than 18 years of age, the birth rate declined over this period by 62.0%; among women 18-19, it declined by 52.3%.

The overall rate of teen birth in New York City (births to women <20) declined by 55.0%, 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, 2020-2022

The community districts with the highest percentage of live births to teenagers (<20 years) were Brownsville with 6.1%, followed by Hunts Point with 5.9%, Bushwick with 5.4%, Mott Haven with 5.0%, and East Tremont with 4.9% (three-year average).



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

Source: Bureau of Vital Statistics, based on events occurring in 2020-2022.
See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	Birth Percentage
Manhattanville	MN09	3.7
East Harlem	MN11	3.3
Washington Heights	MN12	2.8
Central Harlem	MN10	2.5
Lower East Side	MN03	2.1
Midtown Business District	MN05	0.8
Chelsea, Clinton	MN04	0.7
Upper West Side	MN07	0.5
Murray Hill	MN06	0.3
Greenwich Village, SOHO	MN02	0.2
Upper East Side	MN08	0.2
Battery Park, Tribeca	MN01	0.1

BRONX	CD	Birth Percentage
Hunts Point	BX02	5.9
Mott Haven	BX01	5.0
East Tremont	BX06	4.9
University, Morris Heights	BX05	4.8
Unionport, Soundview	BX09	4.6
Morrisania	BX03	4.5
Concourse, Highbridge	BX04	4.4
Williamsbridge	BX12	3.8
Fordham	BX07	3.7
Throgs Neck	BX10	2.6
Pelham Parkway	BX11	2.4
Riverdale	BX08	1.9

STATEN ISLAND	CD	Birth Percentage
Port Richmond	SI01	3.3
Willowbrook, South Beach	SI02	1.2
Tottenville	SI03	0.4

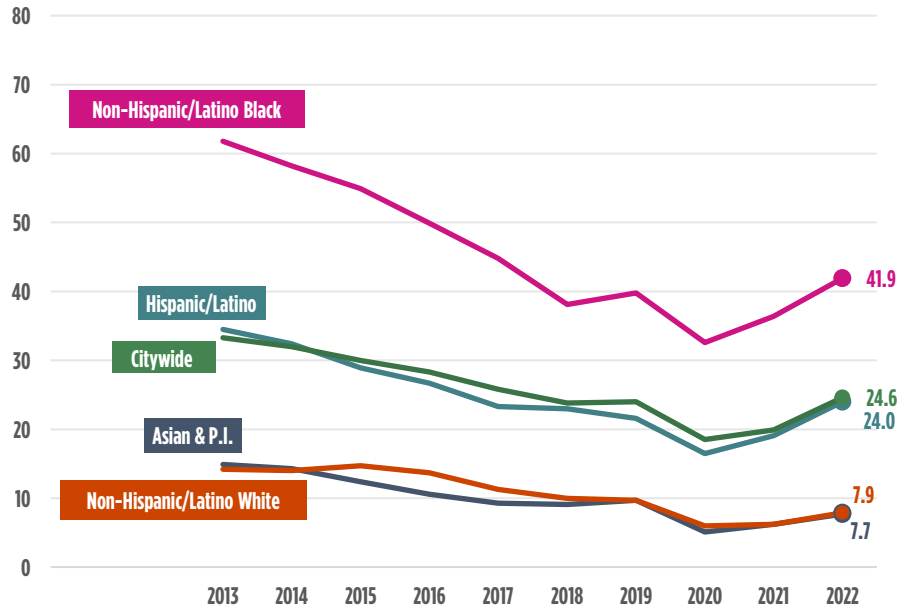
BROOKLYN	CD	Birth Percentage
Brownsville	BK16	6.1
Bushwick	BK04	5.4
East New York	BK05	4.1
Coney Island	BK13	2.8
East Flatbush	BK17	2.6
Bedford Stuyvesant	BK03	2.5
Sunset Park	BK07	2.5
Crown Heights North	BK08	2.2
Bensonhurst	BK11	1.9
Canarsie	BK18	1.7
Flatbush, Midwood	BK14	1.5
Borough Park	BK12	1.4
Sheepshead Bay	BK15	1.4
Williamsburg, Greenpoint	BK01	1.2
Crown Heights South	BK09	1.2
Bay Ridge	BK10	1.2
Park Slope	BK06	0.6
Fort Greene, Brooklyn Heights	BK02	0.5

QUEENS	CD	Birth Percentage
The Rockaways	QN14	3.7
Jackson Heights	QN03	3.5
Elmhurst, Corona	QN04	3.2
Jamaica, St. Albans	QN12	3.1
Woodhaven	QN09	2.9
Ridgewood, Glendale	QN05	2.1
Queens Village	QN13	2.0
Howard Beach	QN10	1.7
Flushing	QN07	1.5
Astoria, Long Island City	QN01	1.2
Fresh Meadows, Briarwood	QN08	1.0
Sunnyside, Woodside	QN02	0.8
Rego Park, Forest Hills	QN06	0.6
Bayside	QN11	0.6

PREGNANCY OUTCOMES

Figure 15. Age-Adjusted Induced Termination of Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2013-2022

The 2022 citywide age-adjusted rate of induced terminations of pregnancy (at 24.6 terminations per 1,000 females aged 15 to 44 years) declined by 26.1% since 2013.

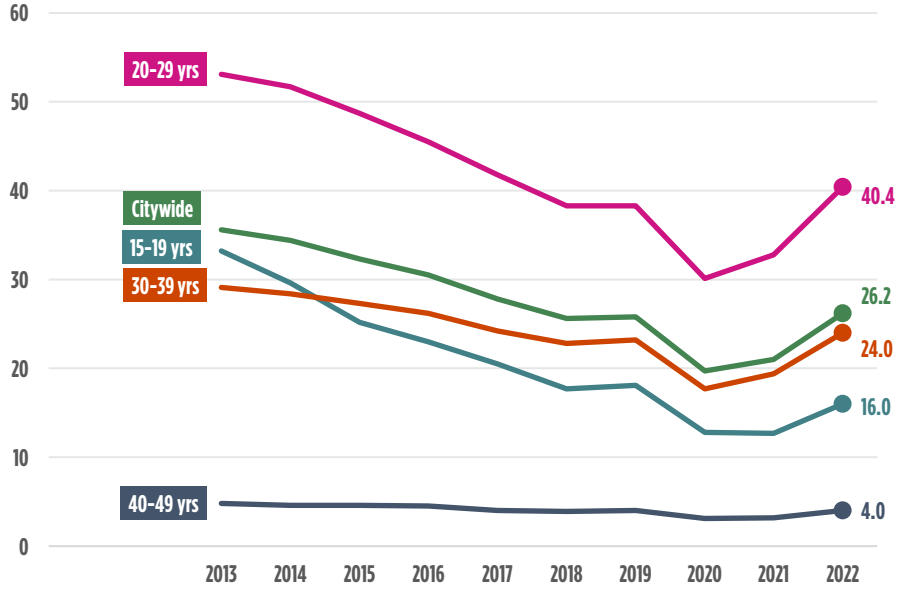


Similarly, age-adjusted rates among each racial/ethnic group declined: by 48.3% among Asians and Pacific Islanders, 44.4% among non-Hispanic/Latino Whites, by 30.4% among Hispanics/Latinos, and by 32.2% among non-Hispanic/Latino Blacks.

The disparity between non-Hispanic/Latino White and non-Hispanic/Latino Black induced termination of pregnancy rates has increased since 2013. The rate among non-Hispanic/Latino Blacks was 5.3 times that of non-Hispanic/Latino Whites (41.9 terminations per 1,000 females aged 15-44 vs. 7.9) in 2022, compared to 4.4 times in 2013.

Figure 16. Age-Specific Induced Termination of Pregnancy Rates by Woman's Age Group, New York City, 2013-2022

The 2022 crude citywide rate of induced terminations of pregnancy declined 26.4% since 2013, from 35.6 to 26.2 terminations per 1,000 women aged 15-44 years. The crude rates increased for all age groups from 2021 to 2022.



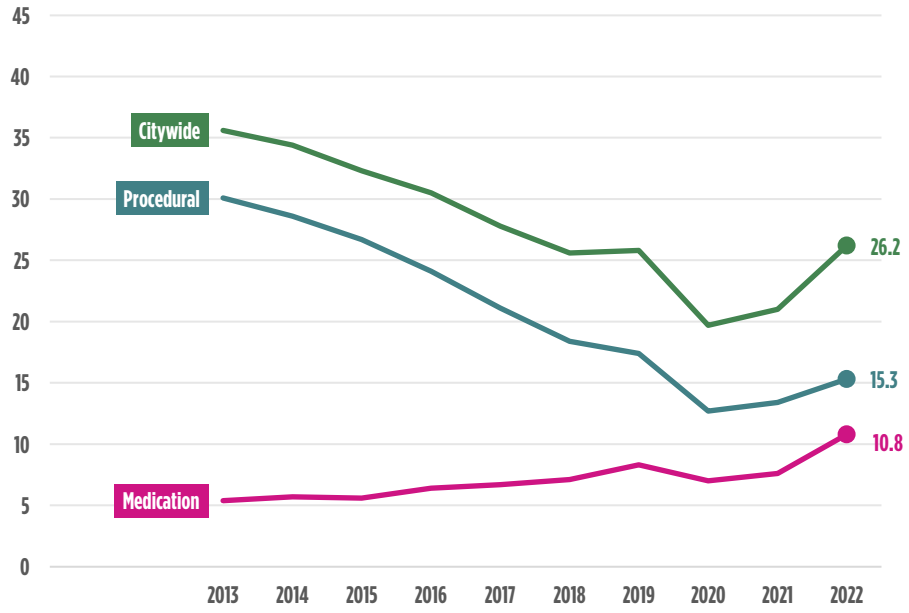
Since 2013, the age-specific rate declined 51.8% among teens (15 to 19 years of age), from 33.2 terminations per 1,000 females in 2013, to 16.0 in 2022. The rate declined by 23.9% among women 20 to 29 years of age, 17.5% among women 30 to 39 years of age and 16.7% among women 40 and older.

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, 2013-2022

Since 2013, the crude rate of medication abortion in New York City increased 100%, to 10.8 terminations per 1,000 females aged 15-44, while the rate of procedural abortion decreased 49.2% to 15.3 in 2022. Both medication abortion and procedural abortion increased from 2021 to 2022.

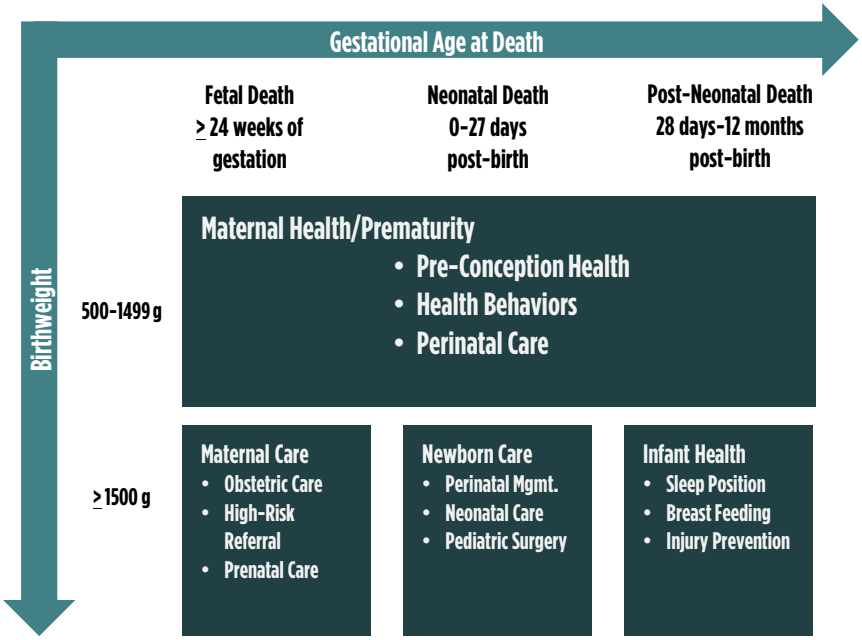


Medication-induced abortion, using mifepristone in combination with misoprostol, is termed a "medication abortion" and may be performed up to eleven weeks of gestation to terminate a pregnancy, in contrast to a procedural abortion, which may be performed later than eleven weeks of gestation. Medication 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, 2013-2022

The overall fetal-infant mortality rate (FIMR) for New York City was 6.4 per 1,000 live births in 2022, decreasing by 7.2% since 2013, and increasing by 3.2% from 2021.

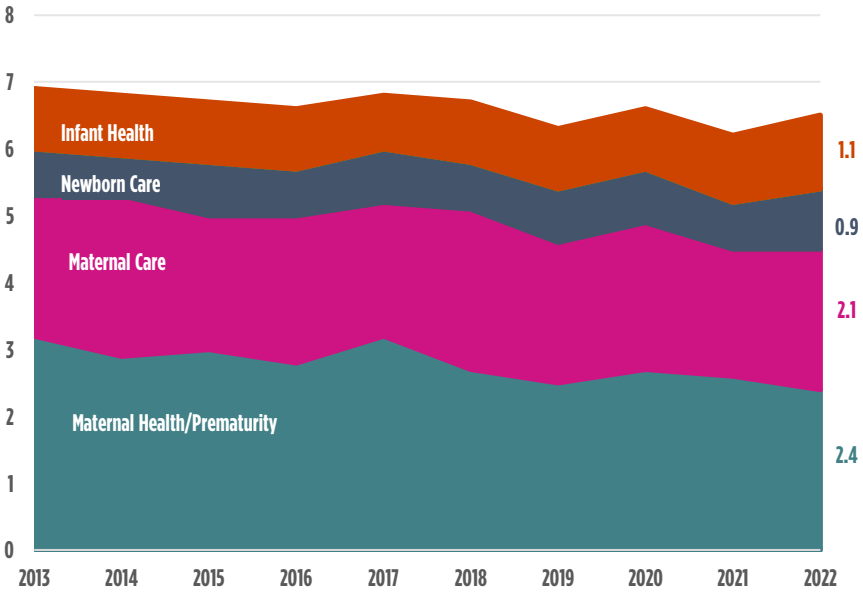
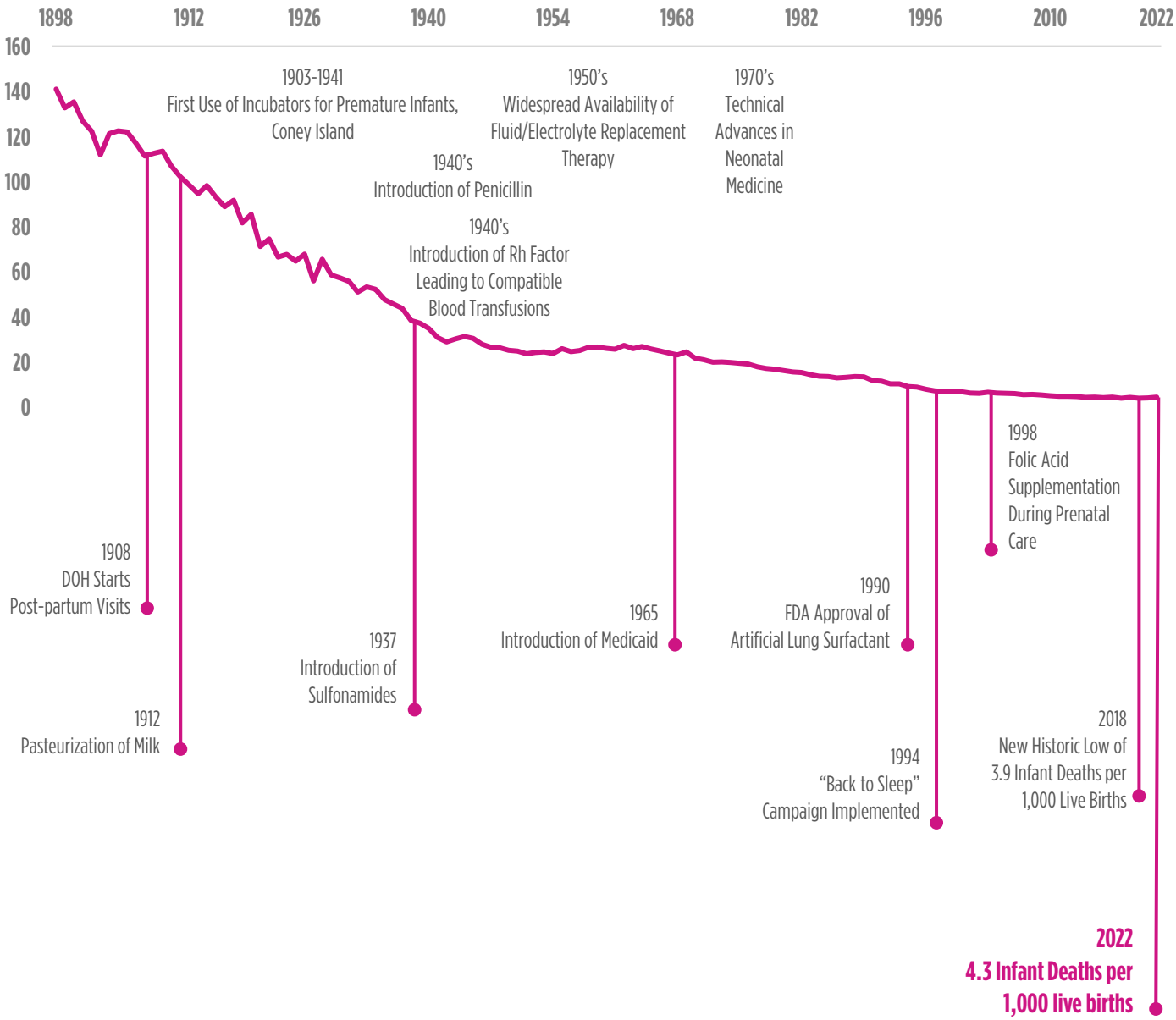


Figure 2 illustrates the relative contribution of risk factors to the overall FIMR. Refer to Figure 1 for specific risk factors. Deaths with a birthweight between 500 grams and 1,499 grams, and occurring at any gestational age or birth age, contributed 37.5% to the FIMR in 2022, indicating that prevention efforts should focus on maternal health/prematurity risk factors.

The share of the FIMR attributable to the infant health period increased from 13.0% in 2013 to 17.2% in 2022 (post-neonatal deaths with a birthweight of 1,500 grams or greater). The contribution of the maternal care period to the FIMR increased from 30.4% in 2013 to 32.8% in 2022 (fetal deaths with a birthweight of 1,500 grams or greater). The share of the FIMR attributable to the newborn care period increased by 4 percentage points between 2013 and 2022 (neonatal deaths with a birthweight of 1,500 grams or greater), from 10.1% to 14.1%.

INFANT MORTALITY

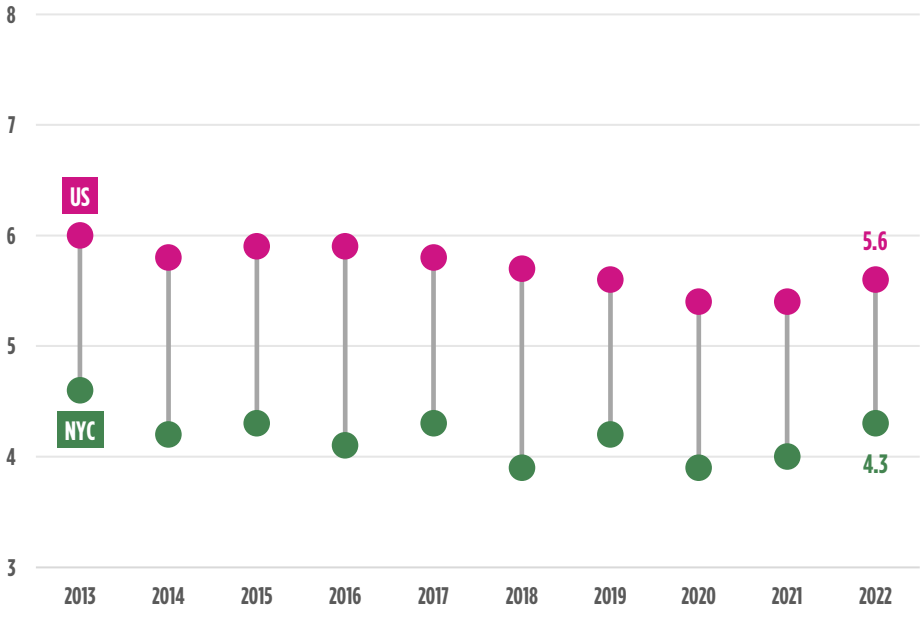
Infant Mortality Rate Per 1,000 Live Births Over Time



INFANT MORTALITY

Figure 1. Infant Mortality Rate, New York City and the United States*, 2013-2022

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 decreased similar to the US rate (6.5% decline vs. 6.7% decline).

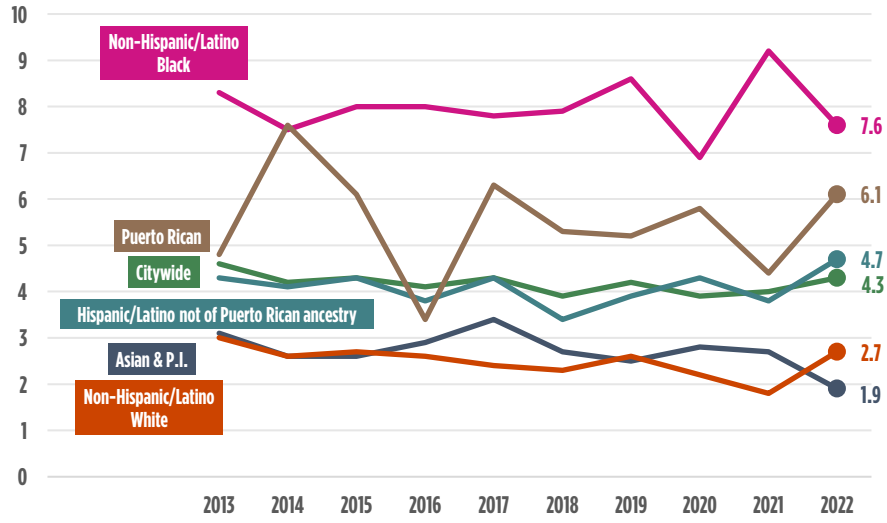


In 2022, New York City had an infant mortality rate of 4.3 infant deaths per 1,000 live births. This represents an increase of 7.5% from 2021 (4.0 infant deaths per 1,000 live births). The infant mortality rate may fluctuate from year to year due to the small number of infant deaths.

*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, 2013-2022

Infant mortality rates increased from 2021 to 2022 among all racial/ethnic groups except for non-Hispanic/Latino Blacks and Asian & Pacific Islanders.

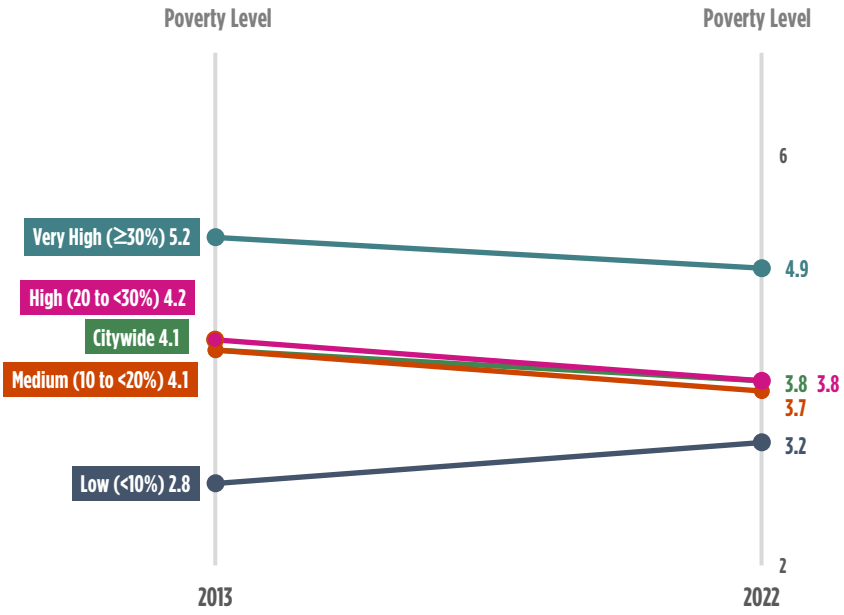


Although rates fluctuate due to small numbers, they are consistently higher among some groups: the rate for non-Hispanic/Latino Blacks was 2.8 times the rate for non-Hispanic/Latino Whites in 2022; the rate for Puerto Ricans was 2.3 times the rate for non-Hispanic/Latino Whites in 2022.

INFANT MORTALITY

Figure 3. Infant Mortality Rate by Neighborhood Poverty*†, New York City Residents, 2013 and 2022

From 2013 to 2022, the infant mortality rate declined in very high poverty, high poverty, and medium poverty areas, and increased in low poverty areas.



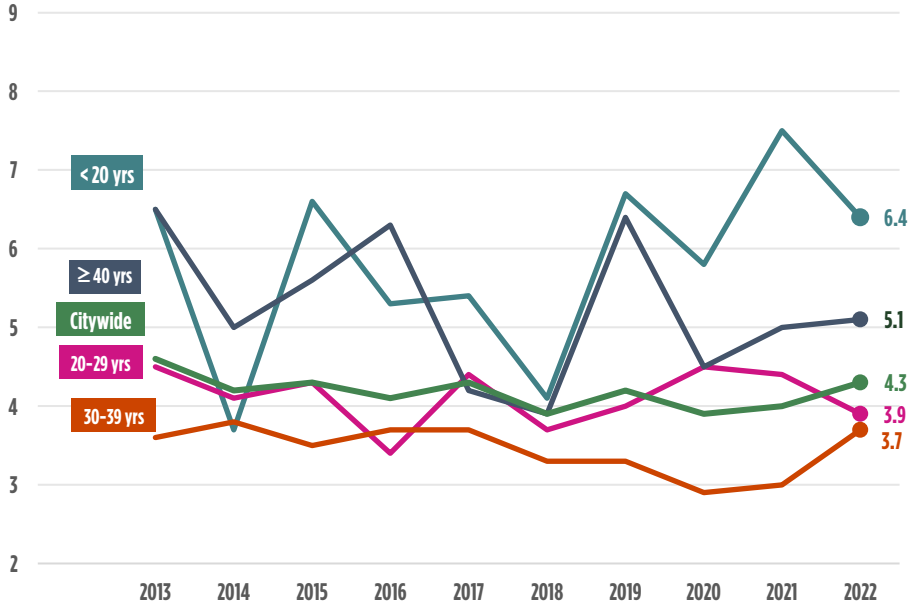
The infant mortality rate in very high poverty areas was 1.6 times the infant mortality rate in low poverty areas in 2022.

*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 2013 data and per ACS 2017-2021 for 2022 data.

†The citywide estimate is restricted to NYC residents.

Figure 4. Infant Mortality Rate by Mother's Age, New York City, 2013-2022

Since 2013, infant mortality rates increased by 3.4% among infants born to women in the 30-39 age group, decreased by 20.8% for women in the ≥40 age group, decreased by 1.5% for women in the <20 age group, and decreased by 14.3% for women in the 20-29 age group.

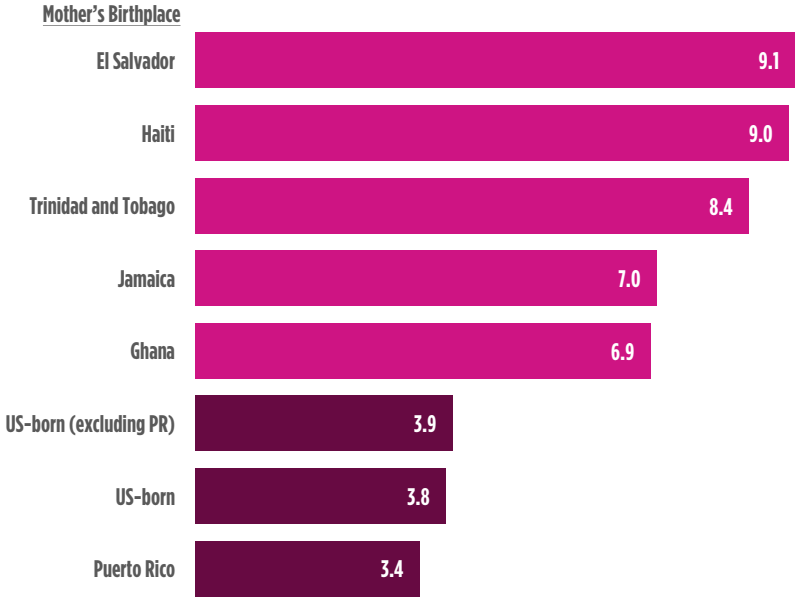


The infant mortality rate in New York City was highest among infants born to the youngest women (<20 years of age). In 2022, the rate among this group was 6.4 infant deaths per 1,000 live births (a 14.7% decrease from 2021). In 2022, the infant mortality rate for women in the ≥40 age group was 5.1 infant 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, 2020-2022

For the 2020-2022 time period, the infant mortality rate among US-born women (excluding Puerto Rico) was 3.9 infant deaths per 1,000 live births. For the same time period, the infant mortality rate for Puerto Rico-born women was 3.4 infant deaths per 1,000 live births.



The infant mortality rate was highest among women born in El Salvador at 9.1 infant deaths per 1,000 live births.

Women born in Haiti had the second highest infant mortality rate at 9.0 infant deaths per 1,000 live births, followed by Trinidad and Tobago women (8.4), Jamaica-born-born women (7.0), and Ghana-born women at 6.9 infant deaths per 1,000 live births.

Figure 6. Neonatal and Post-Neonatal Infant Mortality Rate, New York City, 2013-2022

In 2022, the neonatal (infants who are less than 28 days old) infant mortality rate was 2.6 infant deaths per 1,000 live births, and the post-neonatal (infants 28 days to less than 1 year old) IMR was 1.7 infant deaths per 1,000 live births.

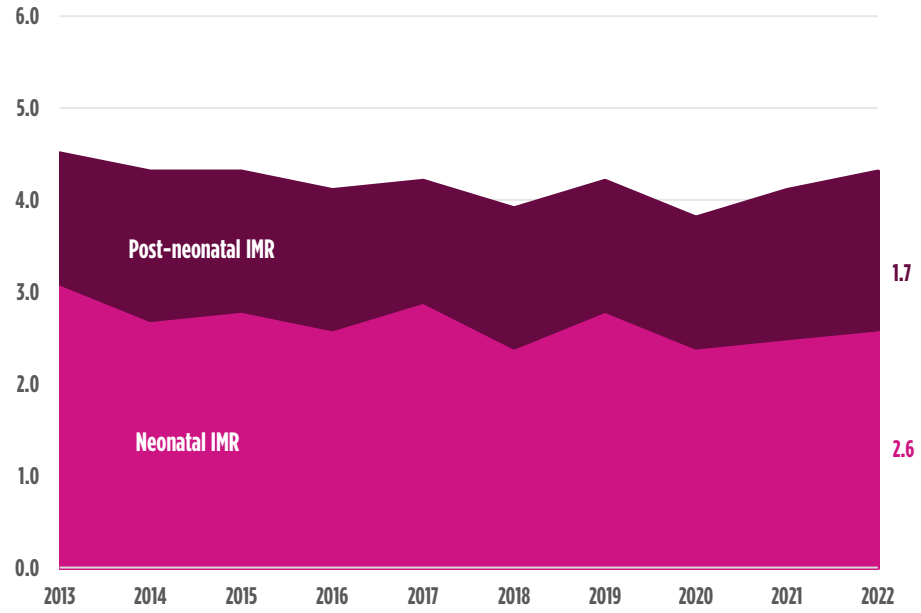
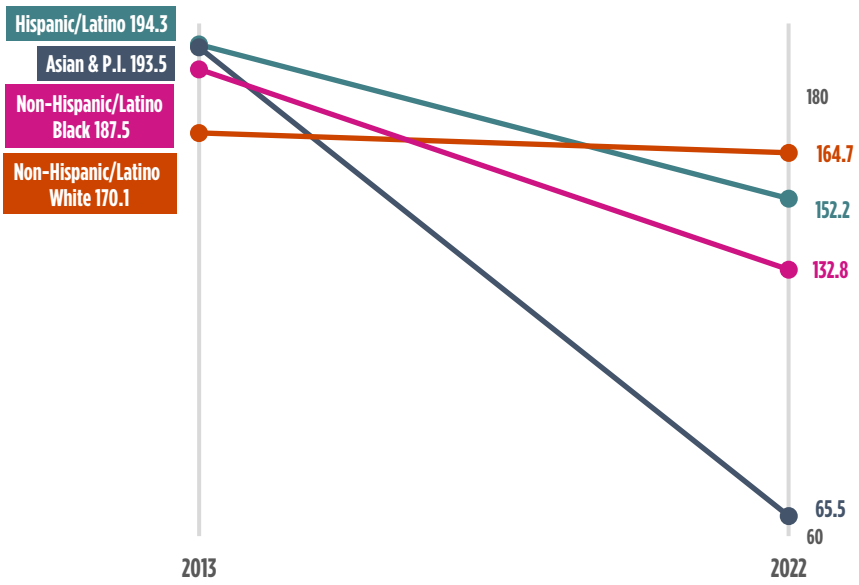


Figure 6 illustrates the share of the IMR that is attributable to neonatal and post-neonatal deaths. The share of the IMR attributable to neonatal deaths decreased from 68.5% in 2013 to 60.5% in 2022. The share of the IMR attributable to post-neonatal deaths increased from 31.5% in 2013 to 39.5% in 2022.

INFANT MORTALITY

Figure 7. Infant Mortality Rates by Mother's Racial/Ethnic Group*, Very Low Birthweight, 2013 and 2022

From 2013 to 2022, infant mortality rates among very low birthweight infants (born under 1,500 grams, VLBW) declined among all racial/ethnic groups.



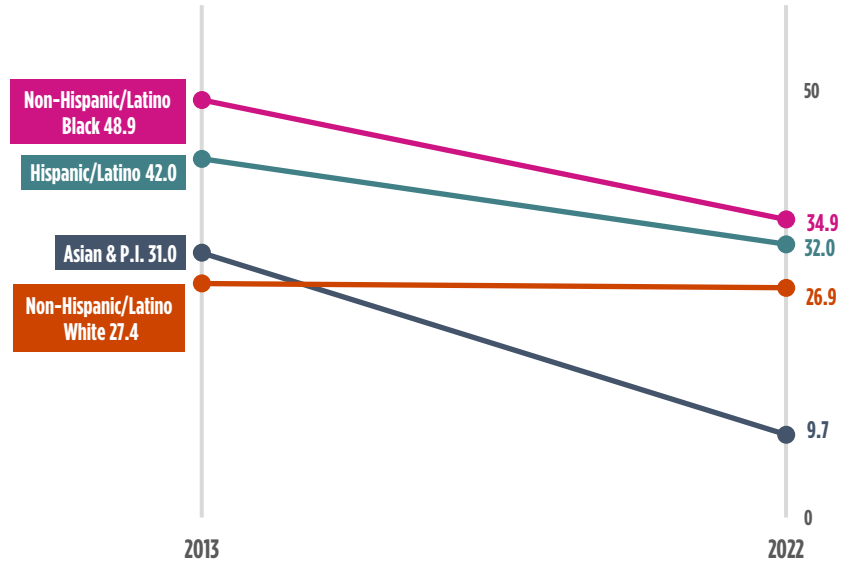
Among VLBW infants in 2022, the infant mortality rate was highest for non-Hispanic/Latino Whites at 164.7 deaths per 1,000 live births, followed by Hispanics/Latinos (152.2), non-Hispanic/Latino Blacks (132.8), and Asians and Pacific Islanders (65.5).

In 2022, the infant mortality rates for non-Hispanic/Latino Black, Asian and Pacific Islander, and Hispanic/Latino VLBW infants were 0.8, 0.4, and 0.9 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, 2013 and 2022

From 2013 to 2022, infant mortality rates among low birthweight infants (born under 2,500 grams) declined among all racial/ethnic groups.



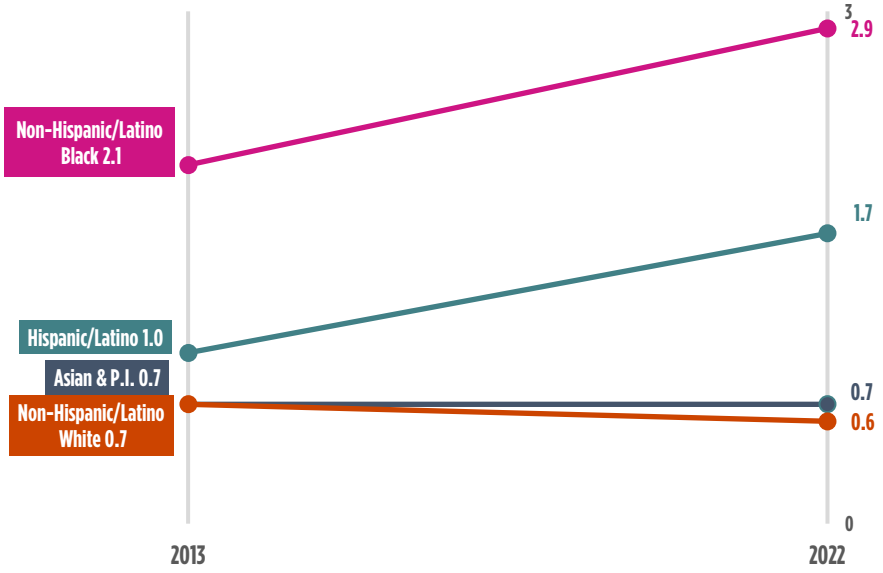
Among low birthweight infants in 2022, the infant mortality rate was highest for non-Hispanic/Latino Blacks at 34.9 deaths per 1,000 live births, 1.3 times that of non-Hispanic/Latino Whites (26.9).

*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, 2013 and 2022

From 2013 to 2022, infant mortality rates among normal birthweight infants (≥2,500 grams) increased among non-Hispanic/Latino Blacks and Hispanic/Latinos, decreased for non-Hispanic/Latino Whites, and remained the same for Asians and Pacific Islanders.



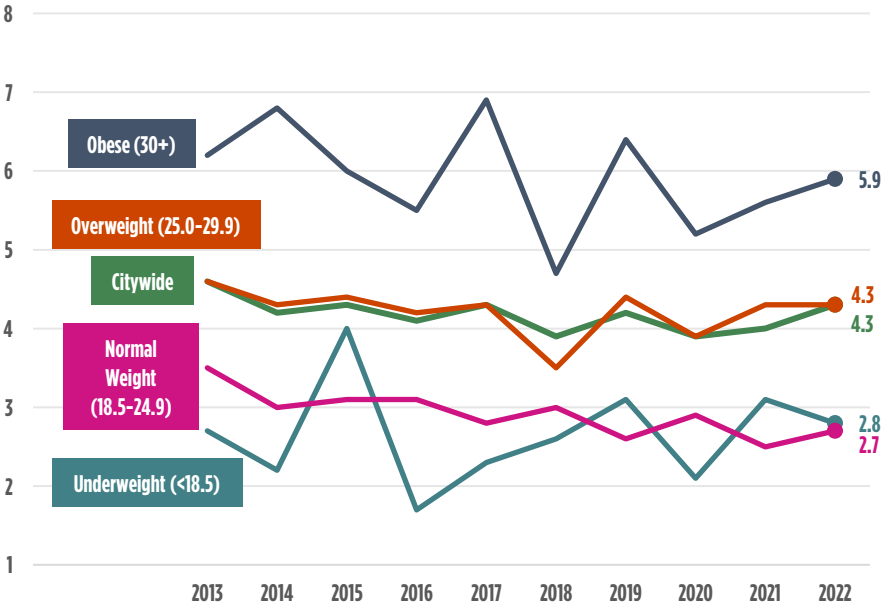
In 2022, non-Hispanic/Latino Black normal birthweight infants had an infant mortality rate of 2.9 infant deaths per 1,000 live births, followed by 1.7 for Hispanic/Latinos, 0.7 for Asians and Pacific Islanders, and 0.6 for non-Hispanic/Latino Whites.

The infant mortality rate among non-Hispanic/Latino Blacks was 4.1 times that of Asians and Pacific Islanders, 1.7 times that of Hispanics/Latinos, and 4.8 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)*, 2013-2022

Infant mortality rates increased from 2021 to 2022 among normal weight and obese pre-pregnancy body mass index (BMI) women, decreased for women with an underweight BMI, and had no change for women with an overweight BMI.



Rates fluctuate over time but are consistently higher among women with overweight and obese BMIs. The rate for women with an overweight BMI was 1.6 times the rate for women with a normal weight BMI in 2022; the rate for women with obesity was 2.2 times the rate for women with a normal weight BMI in 2022.

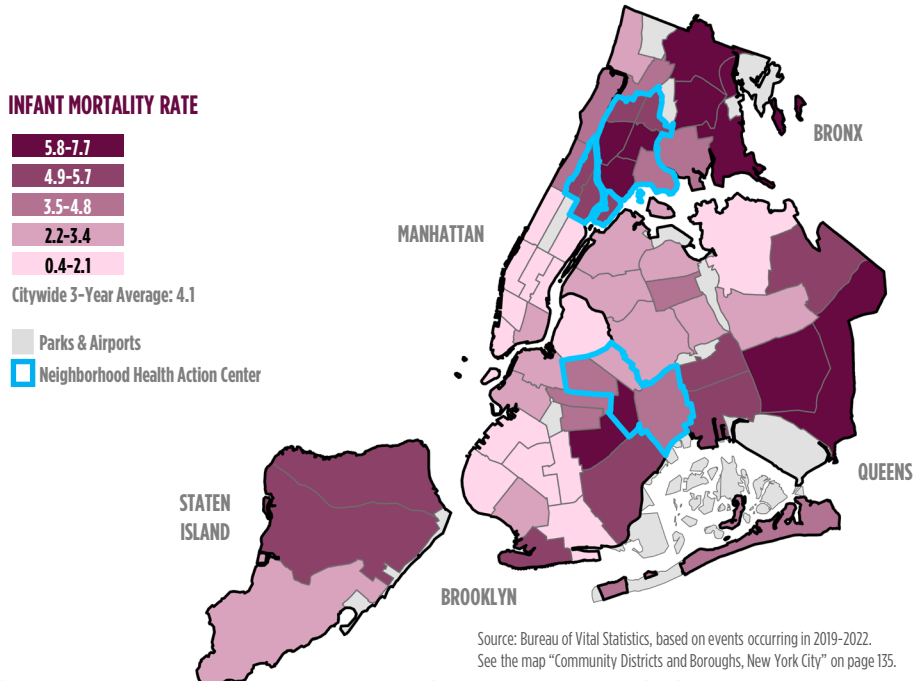
Women are categorized as having an underweight pre-pregnancy BMI if their pre-pregnancy BMI is less than 18.5, a normal weight BMI if their BMI is between 18.5 and 24.9, an overweight BMI if their BMI is between 25.0 and 29.9, and having obesity if their BMI is 30 or above.

* See Technical Notes for BMI definition.

INFANT MORTALITY

Figure 11. Average Infant Mortality Rate (Three-Year Averages) by Community District of Residence, New York City, 2020-2022*

The three-year average infant mortality rate was highest in Brownsville at 7.7 deaths per 1,000 live births, followed by 7.5 in Williamsbridge, 7.3 in Jamaica/St. Albans, 7.2 in Mott Haven, and 6.5 in Morrisania.



The lowest three-year average infant mortality rate was in Chelsea/Clinton and Battery Park/Tribeca with 0.4 deaths per 1,000 live births, followed by 0.6 in Greenwich Village/SOHO, 0.8 in the Upper East Side, and 1.0 in Murray Hill.

*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 2019–2022.
See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	IMR
East Harlem	MN11	5.7
Central Harlem	MN10	5.5
Manhattanville	MN09	3.7
Washington Heights	MN12	3.7
Lower East Side	MN03	2.8
Upper West Side	MN07	1.7
Midtown Business District	MN05	1.4
Murray Hill	MN06	1.0
Upper East Side	MN08	0.8
Greenwich Village, SOHO	MN02	0.6
Battery Park, Tribeca	MN01	0.4
Chelsea, Clinton	MN04	0.4

BRONX	CD	IMR
Williamsbridge	BX12	7.5
Mott Haven	BX01	7.2
Morrisania	BX03	6.5
Throgs Neck	BX10	6.0
Pelham Parkway	BX11	6.0
Concourse, Highbridge	BX04	5.8
University, Morris Heights	BX05	5.5
East Tremont	BX06	5.4
Unionport, Soundview	BX09	4.1
Hunts Point	BX02	3.9
Fordham	BX07	3.9
Riverdale	BX08	3.3

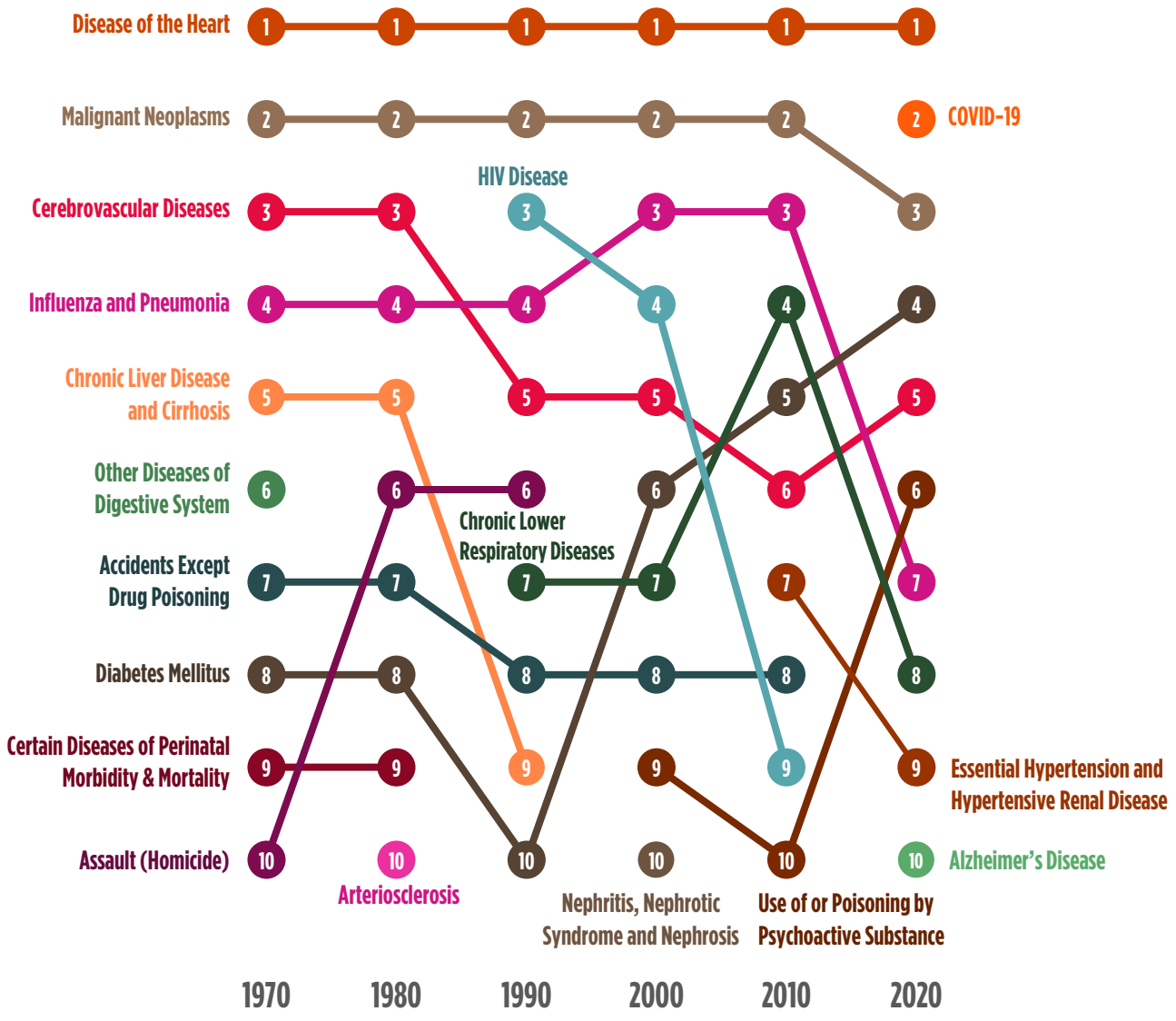
STATEN ISLAND	CD	IMR
Port Richmond	SI01	5.4
Willowbrook, South Beach	SI02	5.1
Tottenville	SI03	2.9

BROOKLYN	CD	IMR
Brownsville	BK16	7.7
East Flatbush	BK17	5.9
Canarsie	BK18	5.1
Coney Island	BK13	4.9
East New York	BK05	4.6
Crown Heights South	BK09	4.6
Crown Heights North	BK08	3.8
Bedford Stuyvesant	BK03	3.7
Bensonhurst	BK11	2.8
Bushwick	BK04	2.7
Fort Greene, Brooklyn Heights	BK02	2.4
Park Slope	BK06	2.4
Williamsburg, Greenpoint	BK01	2.1
Sunset Park	BK07	2.1
Flatbush, Midwood	BK14	2.1
Bay Ridge	BK10	2.0
Borough Park	BK12	1.3
Sheepshead Bay	BK15	1.3

QUEENS	CD	IMR
Jamaica, St. Albans	QN12	7.3
Queens Village	QN13	6.1
Howard Beach	QN10	5.7
Woodhaven	QN09	5.4
Bayside	QN11	4.9
Elmhurst, Corona	QN04	4.8
The Rockaways	QN14	4.8
Jackson Heights	QN03	3.4
Fresh Meadows, Briarwood	QN08	3.4
Rego Park, Forest Hills	QN06	3.0
Ridgewood, Glendale	QN05	2.8
Astoria, Long Island City	QN01	2.2
Sunnyside, Woodside	QN02	2.2
Flushing	QN07	1.8

MORTALITY

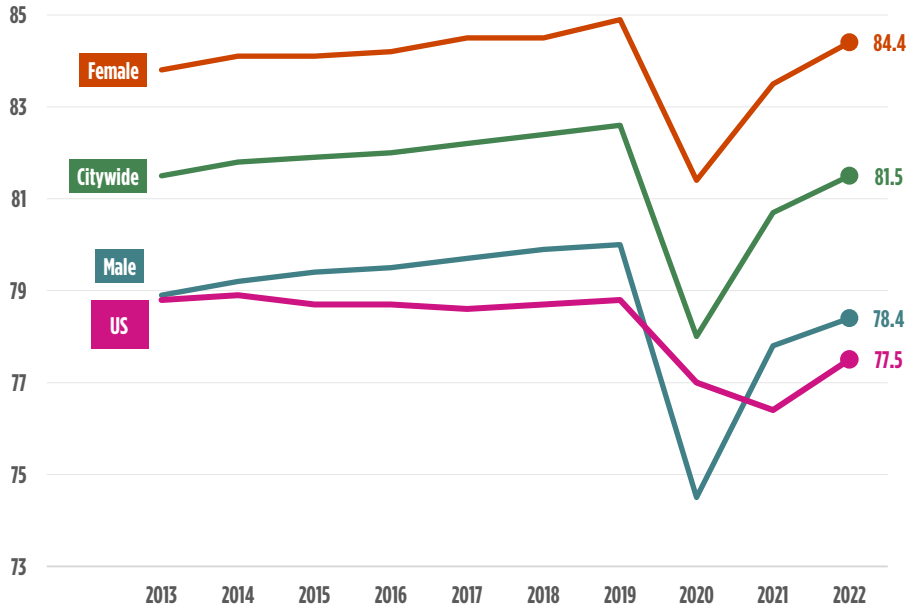
Leading Causes of Death (1970 – 2020), by rank



LIFE EXPECTANCY

Figure 1. Life Expectancy at Birth, Overall and by Sex, New York City and the United States, 2013-2022*

New York City's life expectancy at birth in 2022 was 81.5 years, increasing by 0.8 years since 2021. The increase is largely due to the decline of COVID-19 deaths from 2021 to 2022.



The life expectancy among males in New York City was 78.4 years, a 0.6-year increase since 2021.

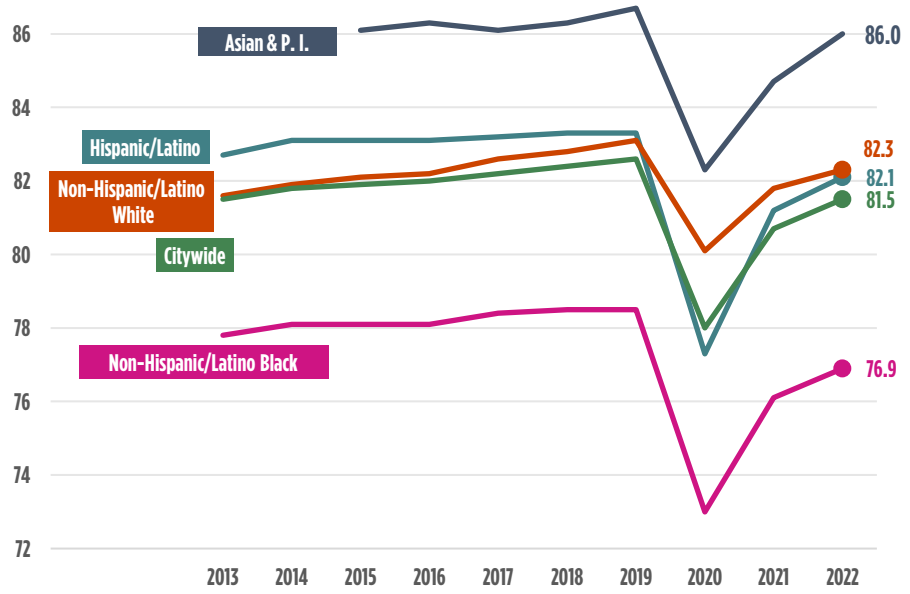
The life expectancy among females in New York City was 84.4 years, a 0.9-year increase since 2021.

The United States' life expectancy at birth was 77.5 in 2022 and has been consistently lower than New York City's life expectancy. The disparity between the US and citywide life expectancies gradually increased between 2013 and 2019, decreased between 2019 and 2020, and increased again between 2020 and 2022.

*Life expectancies for 2013-2019 are updated based on citywide population estimates for 2011-2020 from "2022 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 2022 are from Census Bureau population estimates, 2023 vintage.

Figure 2. Life Expectancy at Birth by Racial/Ethnic Group, New York City, 2013-2022

The New York City 2022 life expectancy at birth was 82.1 years among Hispanics/Latinos, 82.3 years among non-Hispanic/Latino Whites, 76.9 years among non-Hispanic/Latino Blacks, and 86.0 years among Asians and Pacific Islanders. Life expectancy for each racial/ethnic group increased since 2021.



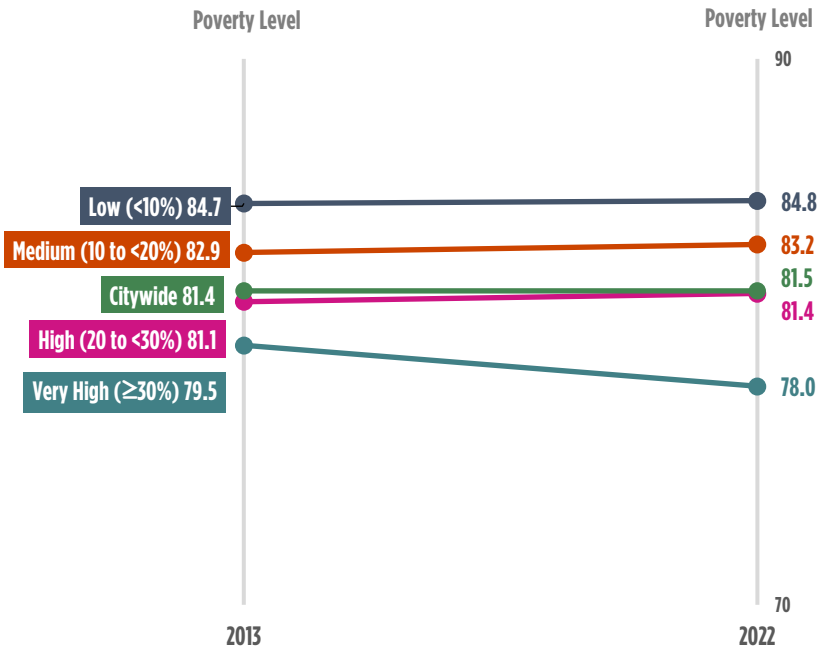
From 2021 to 2022, life expectancy increased by 0.8 years among non-Hispanic/Latino Blacks, 0.9 years among Hispanics/Latinos, and 0.5 years among non-Hispanic/Latino Whites.

The single-year life expectancy estimate for Asians and Pacific Islanders is included for the first time in this figure for years 2015-2022. Life expectancy among Asians and Pacific Islanders increased from 84.7 to 86.0 years between 2021 and 2022.

LIFE EXPECTANCY

Figure 3. Life Expectancy at Birth by Neighborhood Poverty*, New York City, 2013 and 2022

Life expectancy increased across all categories of neighborhood poverty except for very high poverty areas, between 2013 and 2022. For very high poverty areas, life expectancy decreased by 1.5 years from 2013 to 2022.



The difference in life expectancy between very high and low poverty areas in 2022 was 6.8 years, compared to 7.1 years in 2021.

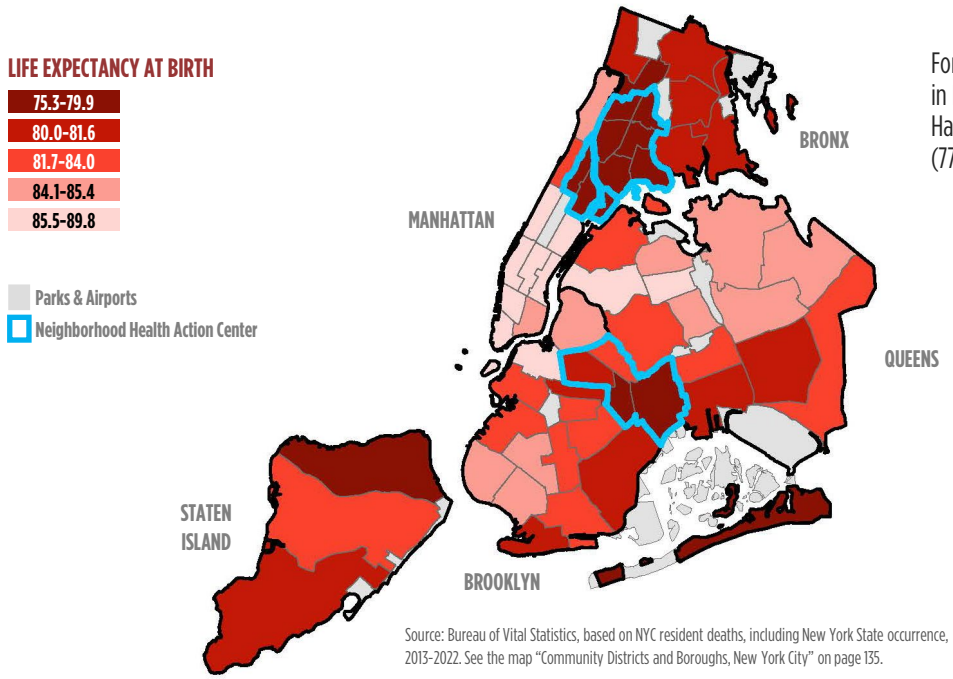
*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2013 data and per ACS 2017-2021 for 2022 data.

*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, 2013-2022

For 2013-2022, New York City's life expectancy at birth was highest in Sunnyside/Woodside (89.9), Midtown Business District (89.2), Chelsea/Clinton (89.0), Greenwich Village/SOHO (88.9), and Murray Hill (87.7).



For 2013-2022, life expectancy at birth was lowest in Brownsville (75.1), the Rockaways (76.3), Central Harlem (76.8), Morrisania (77.0), and East Tremont (77.1).

Source: Bureau of Vital Statistics, based on NYC resident deaths, including New York State occurrence, 2013-2022. See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	Life Expectancy
Midtown Business District	MN05	89.2
Chelsea, Clinton	MN04	89.0
Greenwich Village, SOHO	MN02	88.9
Murray Hill	MN06	87.7
Upper East Side	MN08	87.4
Battery Park, Tribeca	MN01	86.9
Upper West Side	MN07	86.0
Washington Heights	MN12	84.5
Lower East Side	MN03	84.5
Manhattanville	MN09	82.4
East Harlem	MN11	77.9
Central Harlem	MN10	76.8

BRONX	CD	Life Expectancy
Riverdale	BX08	81.7
Throgs Neck	BX10	81.5
Williamsbridge	BX12	81.0
Unionport, Soundview	BX09	80.8
Pelham Parkway	BX11	80.5
Concourse, Highbridge	BX04	79.9
Fordham	BX07	79.9
University/Morris Heights	BX05	79.5
Hunts Point	BX02	79.4
Mott Haven	BX01	77.5
East Tremont	BX06	77.1
Morrisania	BX03	77.0

STATEN ISLAND	CD	Life Expectancy
Willowbrook, South Beach	SI02	82.1
Tottenville	SI03	81.1
Port Richmond	SI01	79.9

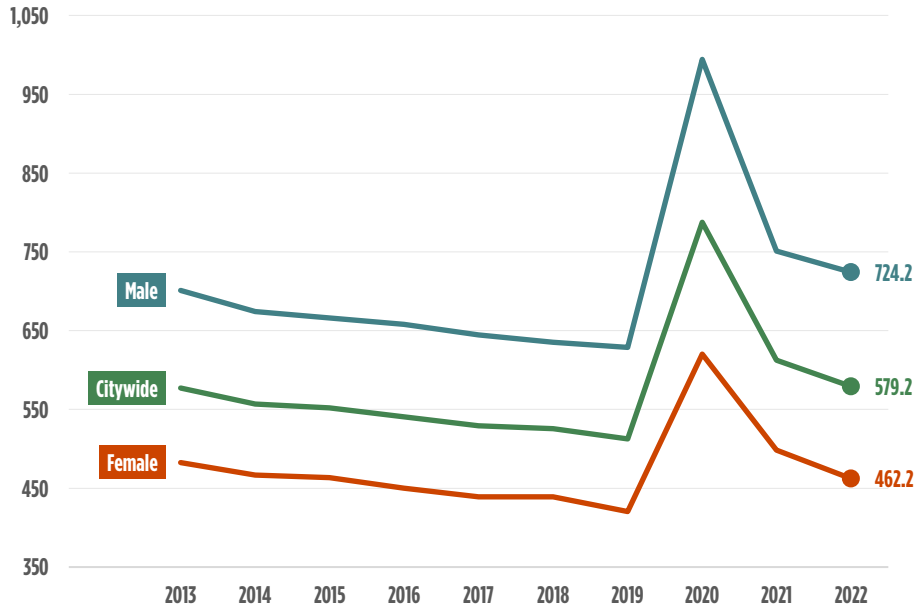
BROOKLYN	CD	Life Expectancy
Fort Greene, Brooklyn Heights	BK02	86.1
Borough Park	BK12	85.0
Bensonhurst	BK11	84.9
Bay Ridge	BK10	84.6
Williamsburg, Greenpoint	BK01	84.4
Sunset Park	BK07	84.0
Sheepshead Bay	BK15	84.0
Park Slope	BK06	83.5
Flatbush, Midwood	BK14	82.4
Crown Heights South	BK09	82.1
Bushwick	BK04	82.0
East Flatbush	BK17	82.0
Crown Heights North	BK08	81.5
Canarsie	BK18	81.5
Coney Island	BK13	80.4
Bedford Stuyvesant	BK03	80.0
East New York	BK05	78.2
Brownsville	BK16	75.1

QUEENS	CD	Life Expectancy
Sunnyside, Woodside	QN02	89.9
Elmhurst, Corona	QN04	86.4
Jackson Heights	QN03	85.6
Flushing	QN07	85.5
Rego Park, Forest Hills	QN06	85.4
Fresh Meadows, Briarwood	QN08	85.1
Bayside	QN11	84.8
Astoria, Long Island City	QN01	84.0
Woodhaven	QN09	83.0
Queens Village	QN13	82.6
Ridgewood, Glendale	QN05	81.8
Howard Beach	QN10	81.4
Jamaica, St. Albans	QN12	81.0
The Rockaways	QN14	76.5

CITYWIDE MORTALITY

Figure 5. Age-Adjusted Death Rates, Overall and by Sex, New York City, 2013-2022

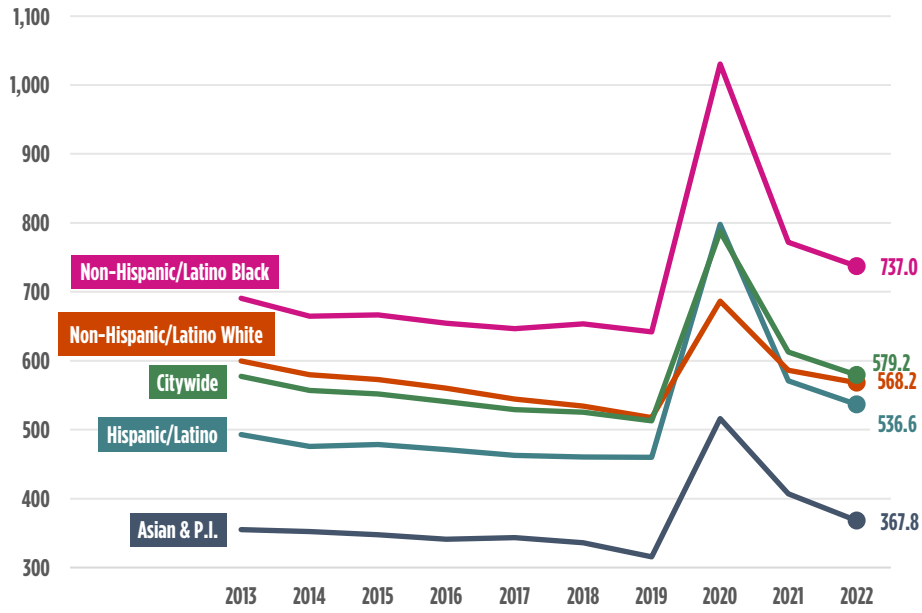
From 2019 to 2020, the citywide age-adjusted mortality rate sharply increased by 53.6%, largely due to the COVID-19 pandemic. The age-adjusted death rate decreased from 612.5 per 100,000 population in 2021 to 579.2 in 2022, mostly due to the continuing decline of COVID-19 deaths from 2021 to 2022.



From 2021 to 2022, age-adjusted death rates decreased by 3.6% among males, and by 7.3% among females.

Figure 6. Age-Adjusted Death Rates by Racial/Ethnic Group, New York City, 2013-2022

From 2021 to 2022, the age-adjusted death rate decreased among Hispanics/Latinos by 6.0%, among non-Hispanic/Latino Blacks by 4.5%, among non-Hispanic/Latino Whites by 3.1%, and among Asians and Pacific Islanders by 9.6%.

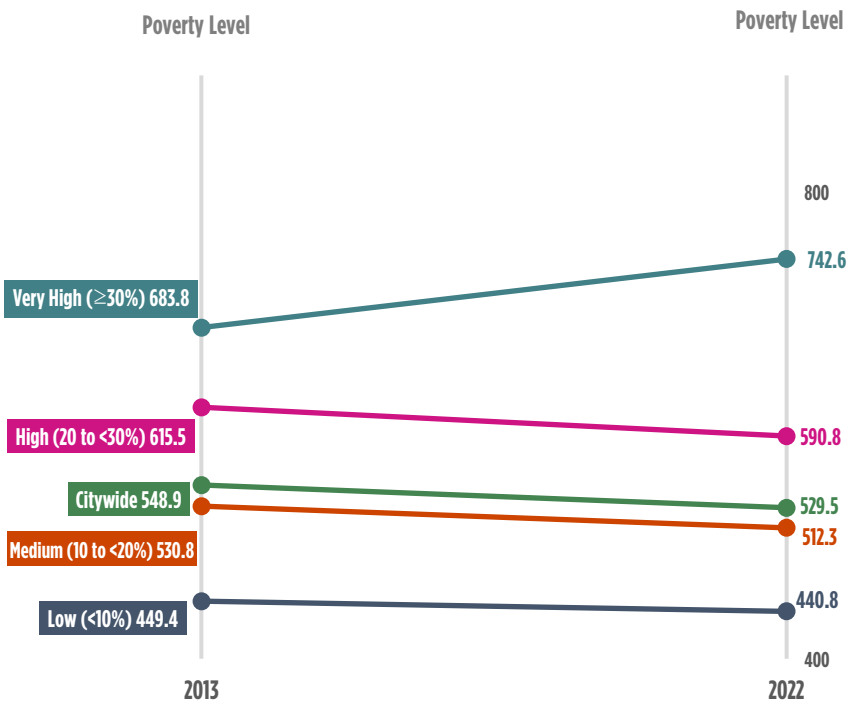


In 2022, the death rate for non-Hispanic/Latino Blacks was 29.7% higher than the rate for non-Hispanic/Latino Whites. The death rate has continued to be higher among non-Hispanic/Latino Blacks compared to non-Hispanic/Latino Whites over time. The gap has decreased since 2021 (the death rate for non-Hispanic/Latino Blacks was 31.7% higher than the rate for non-Hispanic/Latino Whites in 2021).

CITYWIDE MORTALITY

Figure 7. Age-Adjusted Death Rates by Neighborhood Poverty*†, New York City Residents, 2013 and 2022

From 2013 to 2022, age-adjusted death rates decreased across all categories of neighborhood poverty except for very high poverty level. Over that period, the rate increased by 8.6% in very high poverty areas; decreased by 4.0% in high poverty areas, by 3.5% in medium poverty areas, and by 1.9% 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 2022, an increase in disparity since 2013 (1.5 times the rate in 2013).

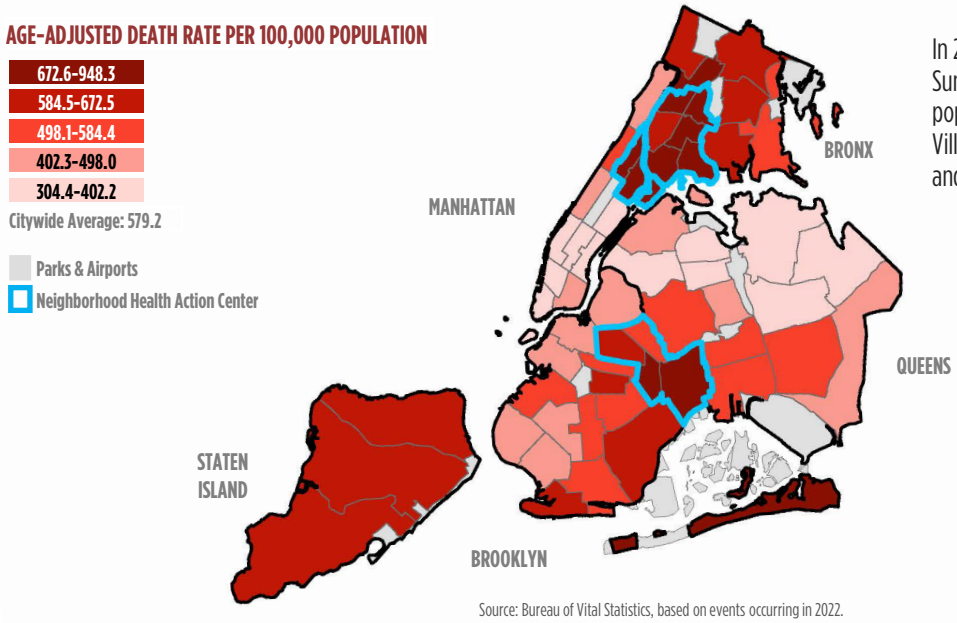
*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2013 data and per ACS 2017-2021 for 2022 data.

†The citywide estimate is restricted to NYC residents.

NEIGHBORHOOD MORTALITY

Figure 8. Age-Adjusted Death Rates by Community District of Residence, New York City, 2022

In 2022, Brownsville had the highest age-adjusted death rate, at 948.3 deaths per 100,000 population, followed by 888.8 in East Tremont, 837.0 in Morrisania, 835.2 in the Rockaways, and 834.5 in Central Harlem.



In 2022, age-adjusted death rates were lowest in Sunnyside/Woodside at 304.4 deaths per 100,000 population, followed by 329.4 in Greenwich Village/SOHO, 330.7 in Murray Hill, 335.6 in Bayside, and 361.6 in Midtown Business District.

Source: Bureau of Vital Statistics, based on events occurring in 2022.
See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	Age-adjusted Death Rates
Central Harlem	MN10	834.5
East Harlem	MN11	788.2
Manhattanville	MN09	535.7
Washington Heights	MN12	498.0
Lower East Side	MN03	487.1
Upper West Side	MN07	422.8
Chelsea, Clinton	MN04	390.5
Upper East Side	MN08	388.1
Battery Park, Tribeca	MN01	368.0
Midtown Business District	MN05	361.6
Murray Hill	MN06	330.7
Greenwich Village, SOHO	MN02	329.4

BRONX	CD	Age-adjusted Death Rates
East Tremont	BX06	888.8
Morrisania	BX03	837.0
Mott Haven	BX01	789.2
University/Morris Heights	BX05	780.3
Hunts Point	BX02	764.0
Fordham	BX07	693.6
Concourse, Highbridge	BX04	672.5
Pelham Parkway	BX11	642.8
Williamsbridge	BX12	632.4
Unionport, Soundview	BX09	624.7
Riverdale	BX08	610.7
Throgs Neck	BX10	570.4

STATEN ISLAND	CD	Age-adjusted Death Rates
Port Richmond	SI01	664.2
Tottenville	SI03	640.3
Willowbrook, South Beach	SI02	592.6

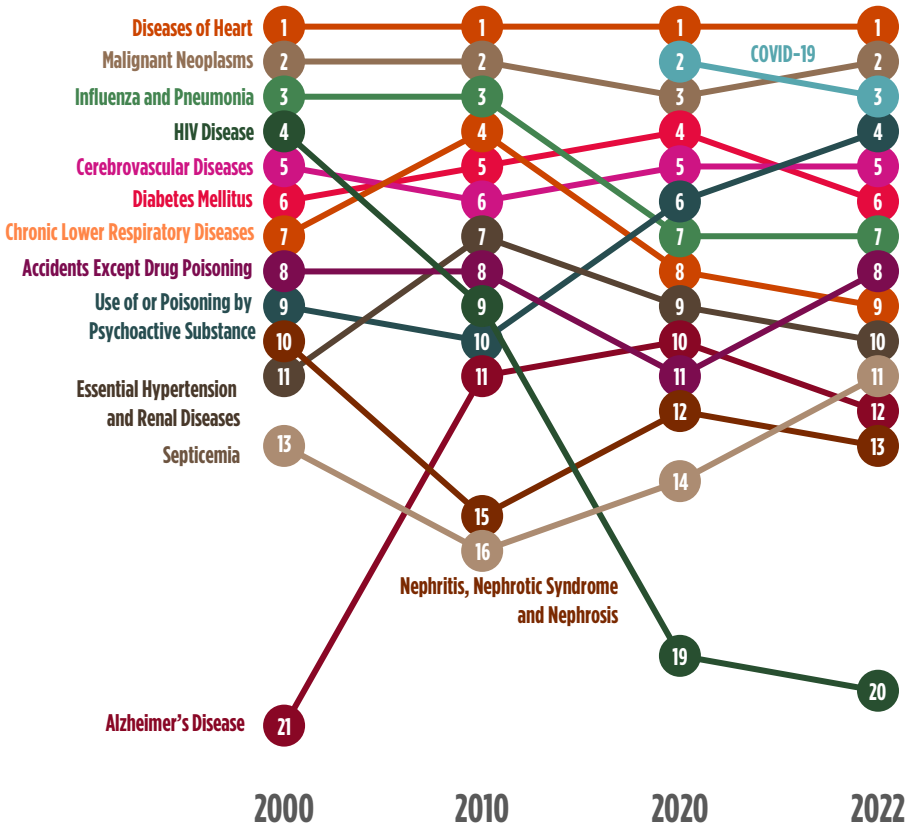
BROOKLYN	CD	Age-adjusted Death Rates
Brownsville	BK16	948.3
East New York	BK05	739.4
Coney Island	BK13	668.6
Bedford Stuyvesant	BK03	623.7
Canarsie	BK18	601.2
Crown Heights South	BK09	588.7
East Flatbush	BK17	584.4
Crown Heights North	BK08	566.1
Flatbush, Midwood	BK14	537.2
Sunset Park	BK07	531.4
Bushwick	BK04	530.9
Sheepshead Bay	BK15	498.1
Park Slope	BK06	494.4
Bay Ridge	BK10	486.9
Bensonhurst	BK11	452.7
Williamsburg, Greenpoint	BK01	442.5
Borough Park	BK12	438.3
Fort Greene, Brooklyn Heights	BK02	429.0

QUEENS	CD	Age-adjusted Death Rates
The Rockaways	QN14	835.2
Ridgewood, Glendale	QN05	535.1
Howard Beach	QN10	521.7
Woodhaven	QN09	516.7
Jamaica, St. Albans	QN12	510.2
Astoria, Long Island City	QN01	479.7
Queens Village	QN13	420.8
Rego Park, Forest Hills	QN06	407.5
Fresh Meadows, Briarwood	QN08	402.2
Jackson Heights	QN03	396.5
Flushing	QN07	392.5
Elmhurst, Corona	QN04	377.1
Bayside	QN11	335.6
Sunnyside, Woodside	QN02	304.4

LEADING CAUSES OF DEATH

Figure 9. Leading Causes of Death, New York City, 2000, 2010, 2020, and 2022

Heart disease* and malignant neoplasms ranked as the top two leading causes of death in 2022.



COVID-19 dropped from the 2nd leading cause in 2020 to the 3rd in 2022.

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 2022.

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 12th in 2022. 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 2022.

* 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, 2022*

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	Use of or Poisoning by Psychoactive Substance	COVID-19
4	COVID-19	Cerebrovascular Diseases
5	Diabetes Mellitus	Diabetes Mellitus
6	Accidents Except Poisoning by Psychoactive Substance	Influenza and Pneumonia
7	Cerebrovascular Diseases	Chronic Lower Respiratory Diseases
8	Influenza and Pneumonia	Alzheimer's Disease
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 4th leading cause of death among males and 3rd leading cause of death among females.

Use of or poisoning by psychoactive substance is the 3rd 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 (6th).

Alzheimer's disease is ranked as a leading cause of death among females only (8th).

*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, 2022†

Heart disease and malignant neoplasms are the top 2 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	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms
3	COVID-19	Use of or Poisoning by Psychoactive Substance	COVID-19	COVID-19	Use of or Poisoning by Psychoactive Substance
4	Use of or Poisoning by Psychoactive Substance	COVID-19	Cerebrovascular Diseases	Use of or Poisoning by Psychoactive Substance	COVID-19
5	Diabetes Mellitus	Cerebrovascular Diseases	Diabetes Mellitus	Cerebrovascular Diseases	Diabetes Mellitus
6	Cerebrovascular Diseases	Accidents Except Poisoning by Psychoactive Substance	Influenza and Pneumonia	Chronic Lower Respiratory Diseases	Cerebrovascular Diseases
7	Influenza and Pneumonia	Diabetes Mellitus	Accidents Except Poisoning by Psychoactive Substance	Influenza and Pneumonia	Influenza and Pneumonia
8	Chronic Lower Respiratory Diseases	Influenza and Pneumonia	Essential Hypertension and Hypertensive Renal Disease	Accidents Except Poisoning by Psychoactive Substance	Essential Hypertension and Hypertensive Renal Disease
9	Alzheimer's Disease	Chronic Liver Disease and Cirrhosis	Chronic Lower Respiratory Diseases	Alzheimer's Disease	Septicemia
10	Essential Hypertension and Hypertensive Renal Disease	Septicemia	Septicemia	Essential Hypertension and Hypertensive Renal Disease	Accidents Except Poisoning by Psychoactive Substance

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

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 rank 8th among Puerto Ricans, 9th among Asians and Pacific Islanders, and 6th among non-Hispanic/Latino Whites. Chronic lower respiratory diseases was not a leading cause of death among Hispanics/Latinos not of Puerto Rican ancestry and non-Hispanic/Latino Blacks.

Essential hypertension and hypertensive renal disease ranks 10th among Puerto Rican, 8th among Asians and Pacific Islanders and non-Hispanic/Latino Blacks, and 10th among non-Hispanic Whites.

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

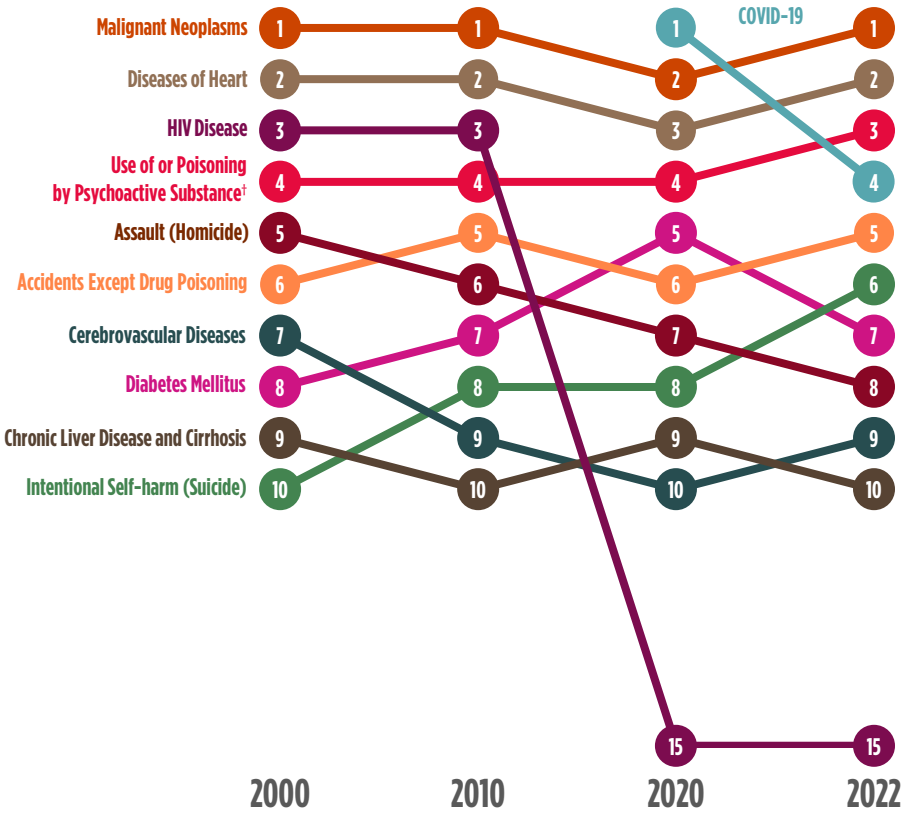
*** Decedents of other or multiple races, or with unknown ethnicities are not shown.**

† 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 2022

Malignant neoplasms (cancer) and heart disease* ranked as the top two leading causes of premature death in 2022.



HIV disease dropped from the 3rd leading cause of premature death in 2000 and 2010, to the 15th in 2020, and kept at the 15th in 2022.

COVID-19 dropped from the 1st leading cause of premature death in 2020 to the 4th in 2022.

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 2022.

Intentional self-harm (suicide) rose from the 10th leading cause of premature death in 2000 to the 8th leading cause in 2010 and 2020, and rose further to 6th in 2022.

* 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, 2022*

Heart disease was the 1st leading cause of premature death for males in 2022, 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	Use of or Poisoning by Psychoactive Substance
4	Accidents Except Poisoning by Psychoactive Substance	COVID-19
5	COVID-19	Diabetes Mellitus
6	Intentional Self-harm (Suicide)	Cerebrovascular Diseases
7	Assault (Homicide)	Accidents Except Poisoning by Psychoactive Substance
8	Chronic Liver Disease and Cirrhosis	Intentional Self-harm (Suicide)
9	Diabetes Mellitus	Influenza and Pneumonia
10	Mental Disorders due to use of alcohol	Chronic Lower Respiratory Diseases

Use of or poisoning by psychoactive substance was the 2nd leading cause of premature death among males, and the 3th 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 (7th and 10th, respectively). Cerebrovascular diseases and chronic lower respiratory diseases ranked as leading causes among females only (6th and 10th, 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, 2022†

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	Diseases of Heart	Diseases of Heart	Malignant Neoplasms
3	Malignant Neoplasms	Diseases of Heart	Intentional Self-harm (Suicide)	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance
4	COVID-19	Accidents Except Poisoning by Psychoactive Substance	COVID-19	Intentional Self-harm (Suicide)	COVID-19
5	Diabetes Mellitus	Chronic Liver Disease and Cirrhosis	Cerebrovascular Diseases	COVID-19	Assault (Homicide)
6	Accidents Except Poisoning by Psychoactive Substance	COVID-19	Use of or Poisoning by Psychoactive Substance	Accidents Except Poisoning by Psychoactive Substance	Accidents Except Poisoning by Psychoactive Substance
7	Chronic Liver Disease and Cirrhosis	Mental Disorders due to use of alcohol	Accidents Except Poisoning by Psychoactive Substance	Chronic Liver Disease and Cirrhosis	Diabetes Mellitus
8	Chronic Lower Respiratory Diseases	Intentional Self-harm (Suicide)	Diabetes Mellitus	Mental Disorders Due to Use of Alcohol	Cerebrovascular Diseases
9	Assault (Homicide)	Assault (Homicide)	Chronic Liver Disease and Cirrhosis	Diabetes Mellitus	Human Immunodeficiency Virus (HIV) Disease
10	Influenza and Pneumonia** Cerebrovascular Diseases**	Cerebrovascular Diseases	Mental Disorders due to use of alcohol	Cerebrovascular Diseases	Influenza and Pneumonia

COVID-19 is the 4th leading cause of premature death for Puerto Ricans, Asians and Pacific Islanders, and non-Hispanic/Latino Blacks, the 5th leading cause for non-Hispanic/Latino Whites, and the 6th leading cause for Hispanics/Latinos not of Puerto Rican ancestry.

Intentional self-harm (suicide) is a leading cause of premature death among Hispanics/Latinos not of Puerto Rican ancestry (8th), Asians and Pacific Islanders (3rd), and non-Hispanic/Latino Whites (4th). 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 non-Hispanic/Latino Blacks (9th).

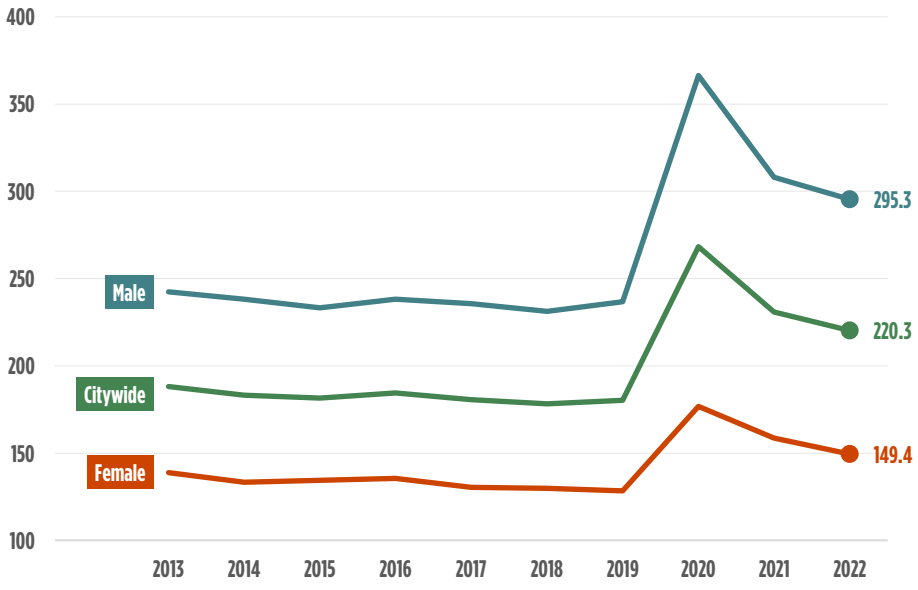
Assault (Homicide) is a leading cause of premature death among Puerto Ricans (9th), Hispanic/Latino not of Puerto Rican ancestry (9th), and non-Hispanic/Latino Blacks (5th).

*** 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, 2013–2022

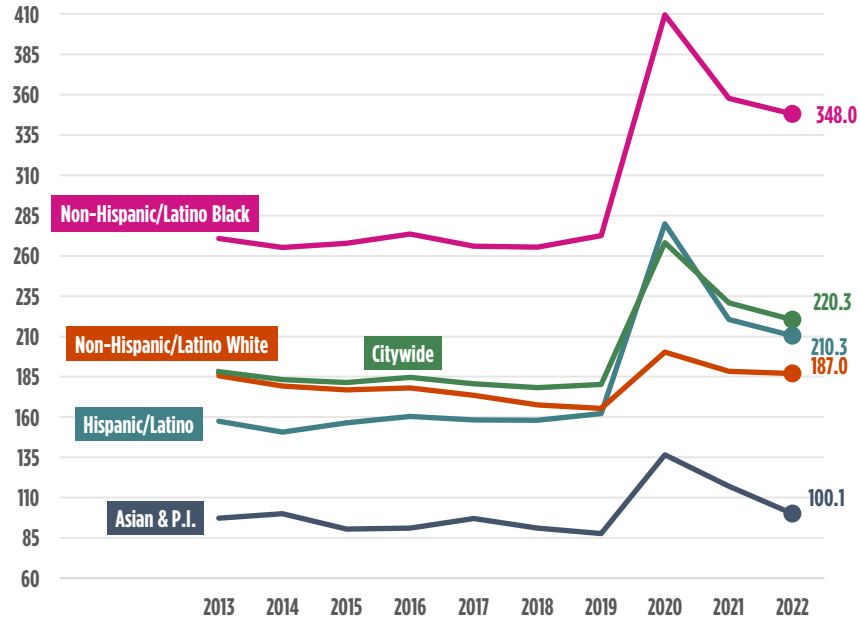
New York City's age-adjusted premature death rate (age <65 years) increased by 48.8% from 2019 to 2020. In contrast, the citywide age-adjusted premature death rate decreased by 13.9% from 2020 (268.2 per 100,000 population) to 2021 (230.8 per 100,000 population), and further declined by 4.5% from 2021 to 220.3 per 100,000 population in 2022.



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, 2013–2022

From 2021 to 2022, the age-adjusted premature mortality rate decreased among Hispanics/Latinos by 4.7%, among non-Hispanic/Latino Blacks by 2.7%, among non-Hispanic/Latino Whites by 0.7%, and among Asians and Pacific Islanders by 14.5%.

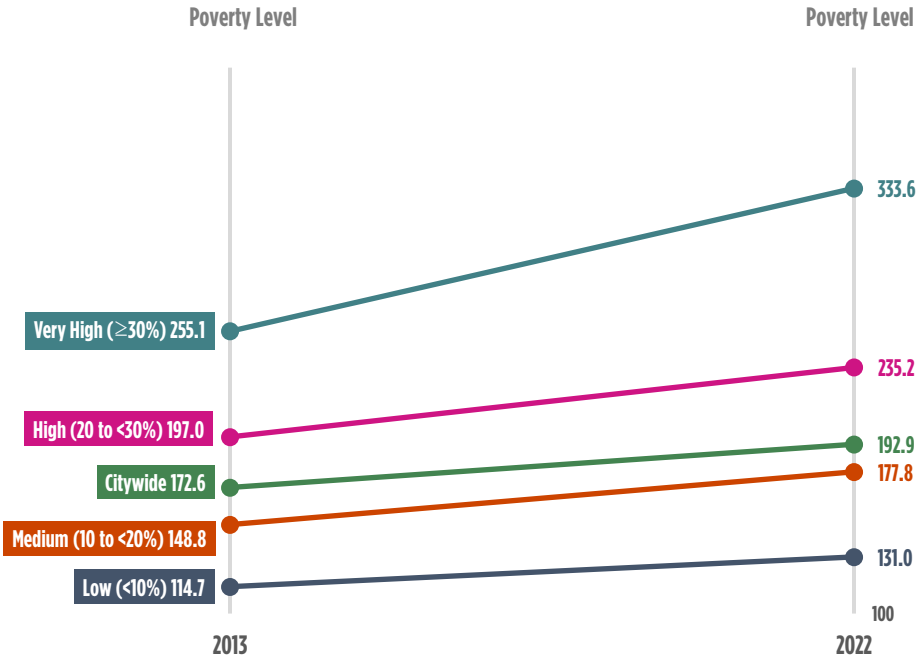


Non-Hispanic/Latino Blacks had the highest age-adjusted premature death rate (86.1% higher than non-Hispanic/Latino Whites). Only non-Hispanic/Latino Blacks had a rate above the citywide average in 2022.

PREMATURE DEATH

Figure 13. Age-Adjusted Premature Death (Age <65 Years) Rates by Neighborhood Poverty*†, New York City Residents, 2013 and 2022

Between 2013 and 2022, the age-adjusted premature mortality rate increased across all neighborhood poverty categories.



Over that time, the rate increased by 14.2% in low poverty neighborhoods, by 19.5% in medium poverty neighborhoods, by 19.4% in high poverty neighborhoods, and by 30.8% 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 2.5 times that of low poverty neighborhoods in 2022, a slight decrease in disparity from 2021 (2.6 in 2021).

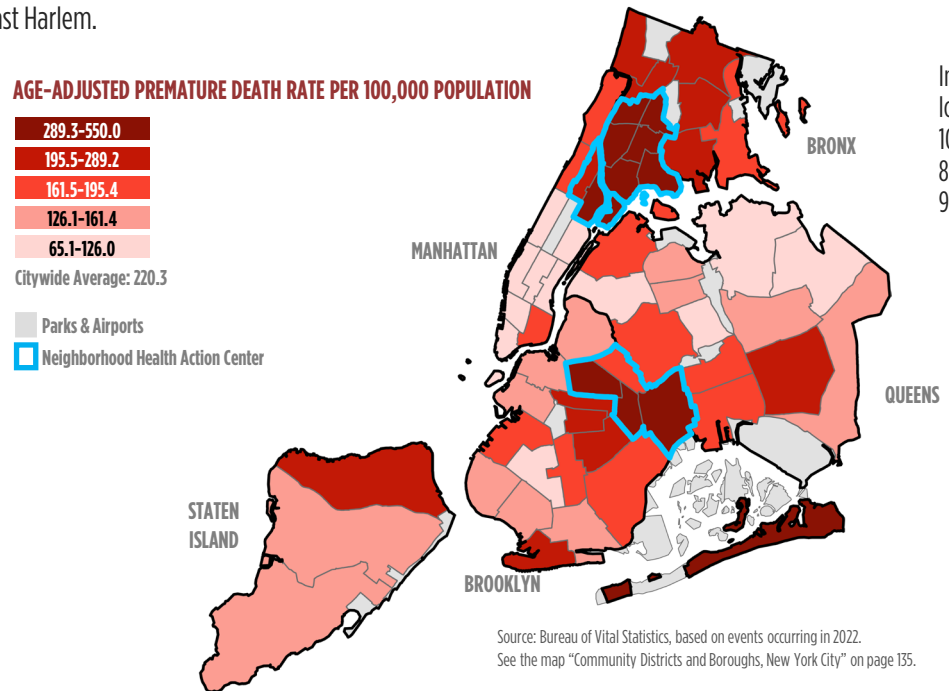
*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2013 data and per ACS 2017-2021 for 2022 data.

†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, 2022

In 2022, New York City age-adjusted premature death rates were highest in Brownsville at 550.0 deaths per 100,000 population, followed by 449.3 in East Tremont, 405.3 in Mott Haven, 388.0 in Morrisania, and 373.4 in East Harlem.



In 2022, age-adjusted premature death rates were lowest in Greenwich Village/SOHO at 65.1 deaths per 100,000 population, followed by 77.1 in Murray Hill, 85.3 in Sunnyside/Woodside, 92.4 in Bayside, and 93.1 in Battery Park/Tribeca.

Source: Bureau of Vital Statistics, based on events occurring in 2022.
See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	Premature Death Rates
East Harlem	MN11	373.4
Central Harlem	MN10	289.2
Manhattanville	MN09	189.4
Washington Heights	MN12	175.7
Lower East Side	MN03	166.5
Midtown Business District	MN05	124.3
Chelsea, Clinton	MN04	120.5
Upper West Side	MN07	104.9
Upper East Side	MN08	97.6
Battery Park, Tribeca	MN01	93.1
Murray Hill	MN06	77.1
Greenwich Village, SOHO	MN02	65.1

BRONX	CD	Premature Death Rates
East Tremont	BX06	449.3
Mott Haven	BX01	405.3
Morrisania	BX03	388.0
Hunts Point	BX02	371.6
University, Morris Heights	BX05	336.3
Concourse, Highbridge	BX04	312.2
Fordham	BX07	289.2
Williamsbridge	BX12	282.9
Pelham Parkway	BX11	263.9
Unionport, Soundview	BX09	255.3
Riverdale	BX08	197.9
Throgs Neck	BX10	195.4

STATEN ISLAND	CD	Premature Death Rates
Port Richmond	SI01	221.8
Willowbrook, South Beach	SI02	161.4
Tottenville	SI03	157.1

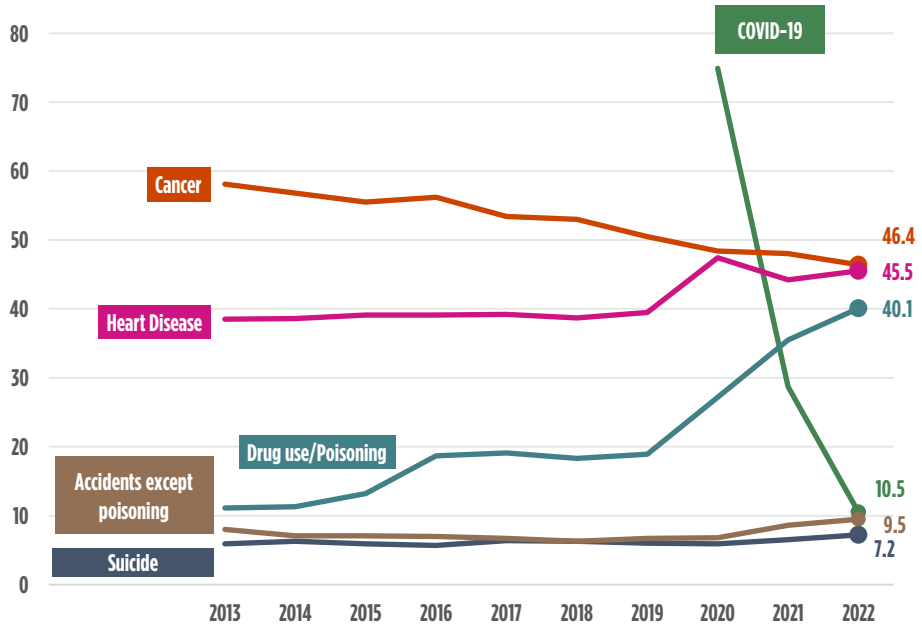
BROOKLYN	CD	Premature Death Rates
Brownsville	BK16	550.0
Bedford Stuyvesant	BK03	303.9
East New York	BK05	299.3
Coney Island	BK13	265.1
Crown Heights South	BK09	253.4
Crown Heights North	BK08	244.1
East Flatbush	BK17	236.6
Canarsie	BK18	195.0
Bushwick	BK04	186.6
Flatbush, Midwood	BK14	180.3
Sunset Park	BK07	165.9
Sheepshead Bay	BK15	145.7
Bay Ridge	BK10	137.4
Bensonhurst	BK11	137.3
Park Slope	BK06	136.8
Williamsburg, Greenpoint	BK01	136.4
Fort Greene, Brooklyn Heights	BK02	126.5
Borough Park	BK12	122.7

QUEENS	CD	Premature Death Rates
The Rockaways	QN14	352.4
Jamaica, St. Albans	QN12	224.2
Howard Beach	QN10	183.2
Astoria, Long Island City	QN01	172.0
Woodhaven	QN09	171.7
Ridgewood, Glendale	QN05	161.7
Elmhurst, Corona	QN04	136.4
Fresh Meadows, Briarwood	QN08	136.4
Queens Village	QN13	135.8
Jackson Heights	QN03	133.4
Flushing	QN07	126.0
Rego Park, Forest Hills	QN06	103.2
Bayside	QN11	92.4
Sunnyside, Woodside	QN02	85.3

PREMATURE DEATH

Figure 15. Leading Causes of Premature Death (Age <65 Years), New York City, 2013–2022

In 2022, cancer had the highest premature death rate at 46.4 deaths per 100,000 population, followed by heart disease at 45.5. Over the past ten years, the premature death rate for cancer declined by 20.1%, and the rate for heart disease increased by 18.2%.



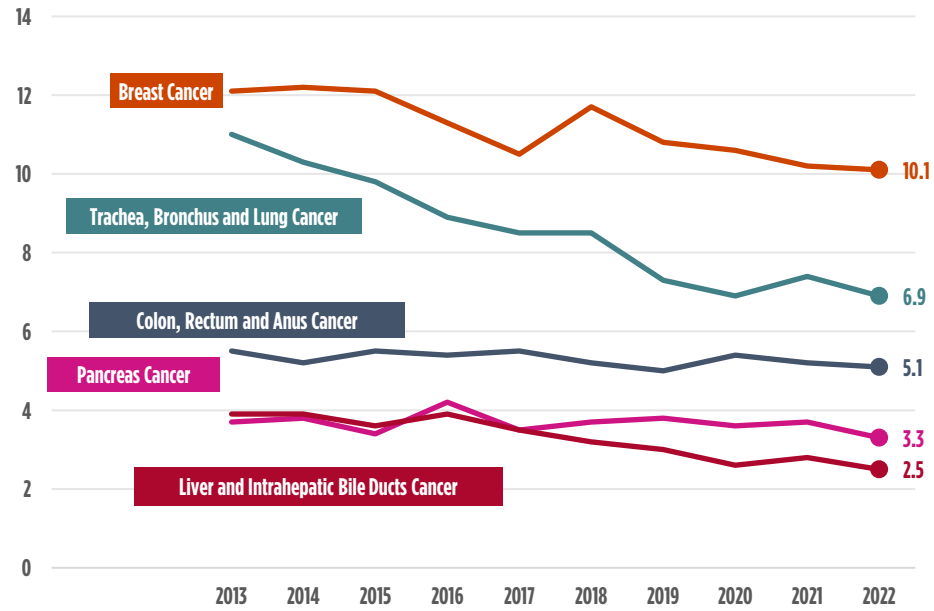
Use of or poisoning by psychoactive substance, COVID-19, accidents except poisoning, and suicide accounted for the 3rd, 4th, 5th, and 6th leading causes of premature death, respectively, in 2022.

The rate of premature drug-related deaths (use of or poisoning by psychoactive substance) increased by 13.0% from 2021 to 2022 and increased by 261.3% since 2013.

The rate of COVID-19 deaths decreased by another 63.4% from 2021 to 2022 after a 61.7% decline from 2020 to 2021.

Figure 16. Leading Causes of Premature Cancer Deaths (Age <65 Years), New York City, 2013–2022

Breast (female) and lung cancer death rates were the highest in New York City, at 10.1 and 6.9 deaths per 100,000 population, respectively.



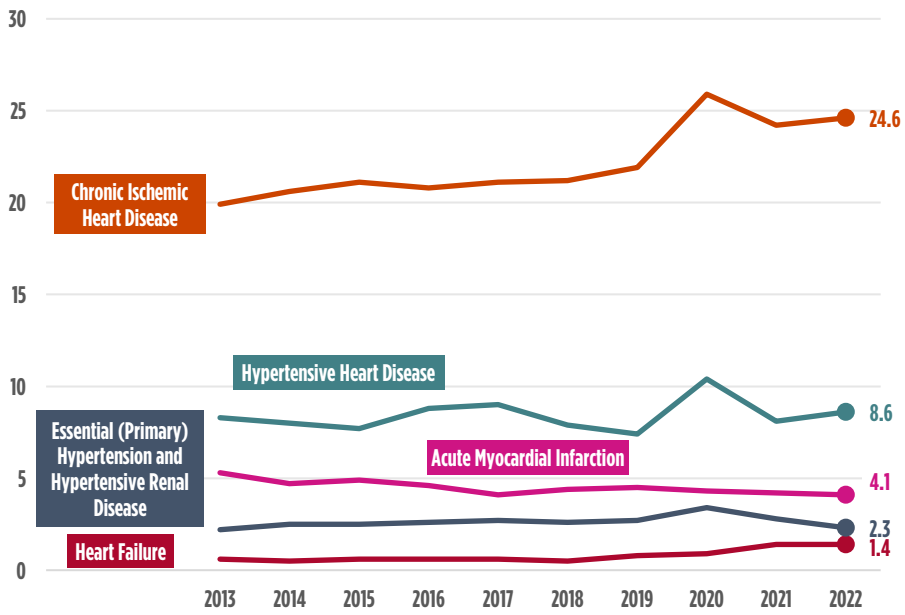
Premature breast (female) cancer and lung cancer death rates declined by 16.5% and 37.3%, respectively, since 2013. The breast (female) cancer rate declined by 3.8% from 2021 to 2022, and the lung cancer rate declined by 6.8% from 2021 to 2022.

Premature colon, pancreas, and liver cancers account for the 3rd, 4th, and 5th highest rates of cancer deaths, at 5.1, 3.3, and 2.5 deaths per 100,000 population, respectively, in 2022. Death rates for all these cancers have declined since 2013.

PREMATURE DEATH

Figure 17. Leading Causes of Premature Heart Disease Deaths (Age <65 Years), New York City, 2013–2022

The crude rate of the leading cause of premature heart disease deaths, chronic ischemic heart disease, has increased by 23.6% since 2013.

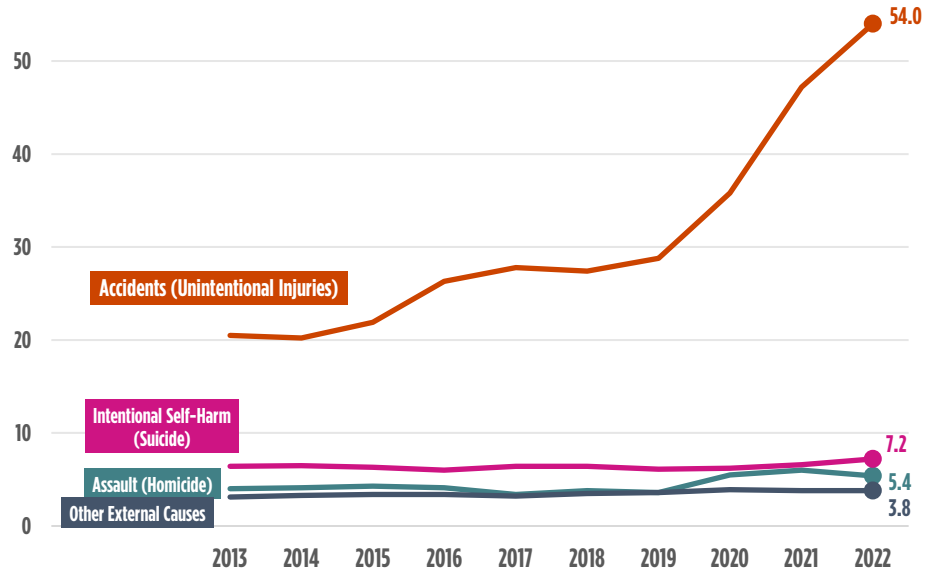


Since 2013, hypertensive heart disease increased by 3.6%, essential hypertension and hypertensive renal disease increased by 4.5%, acute myocardial infarction decreased by 22.6%, and heart failure increased by 133.3%.

EXTERNAL CAUSES OF DEATH

Figure 18. Crude Death Rates for External Causes of Death*, New York City, 2013–2022

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



In 2022, the accident death rate increased by 163.4% from ten years ago (54.0 per 100,000 population in 2022 vs. 20.5 per 100,000 population in 2013), primarily due to the increase of drug-related deaths.

The rate of deaths due to assault (homicide) increased over the past ten years by 35.0%.

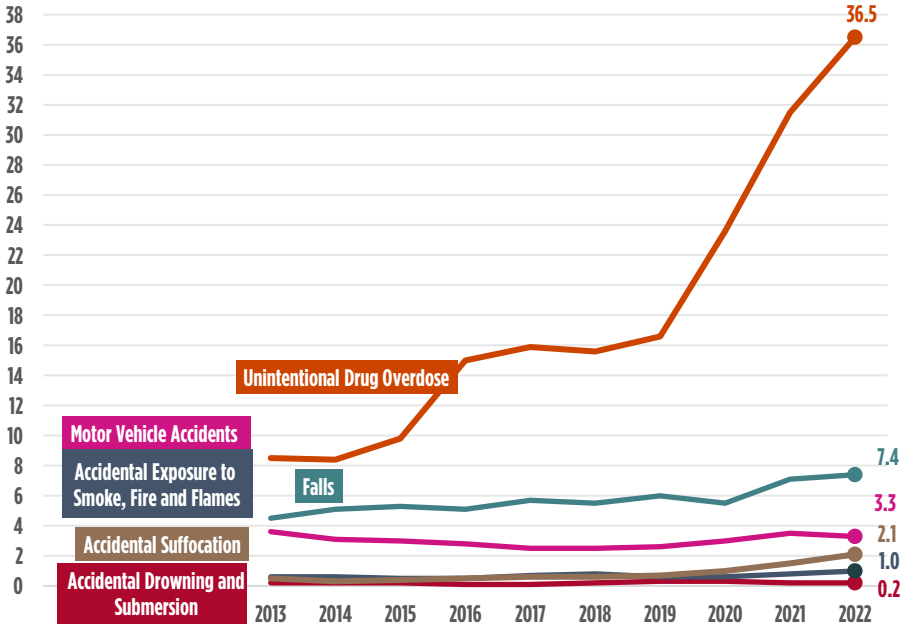
The suicide rate was 7.2 per 100,000 population in 2022, increased from 6.4 per 100,000 population in 2013.

The death rate due to all other external causes combined was higher in 2022 (3.8 per 100,000 population) compared to ten years ago (3.1 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, 2013-2022

The unintentional drug overdose* rate increased by 15.9% from 2021 (31.5 per 100,000 population in 2021 vs. 36.5 per 100,000 population in 2022) and by 329.4% from 2013 (8.5 per 100,000 population in 2013).



Unintentional drug overdose exceeds all other causes, with a crude rate in 2022 that was 11.1 times that of motor vehicle accidents, and 4.9 times that of fall-related deaths.

The crude death rate due to motor vehicle accidents declined over the past ten years, from 3.6 deaths per 100,000 population in 2013, to 3.3 per 100,000 population in 2022, a decrease of 8.3%, and decreased by 5.7% from 2021 to 2022. The falls-related crude death rate has increased by 64.4% since 2013 (7.4 per 100,000 population in 2022 vs. 4.5 per 100,000 population in 2013).

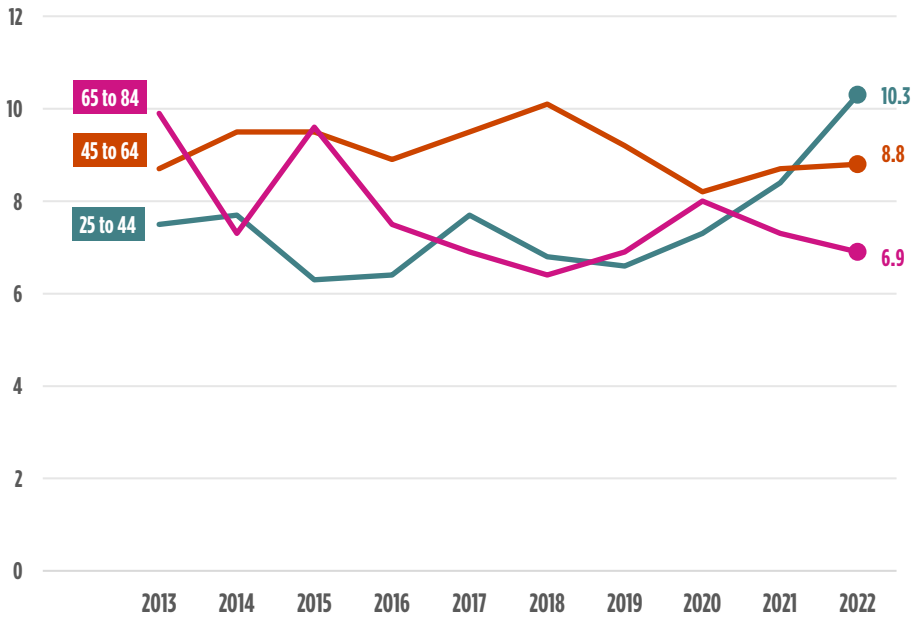
The death rate due to accidental suffocation increased over the past ten years by 320.0%, and the death rate due to accidental exposure to smoke, fire, and flames increased by 66.7%. The death rate due to accidental drowning and submersion in 2022 was the same as it was in 2013.

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

EXTERNAL CAUSES OF DEATH

Figure 20. Age-Specific Suicide Death Rates, New York City, 2013–2022

Death rates due to suicide were highest among the age group 25 to 44, at 10.3 deaths per 100,000 population in 2022.

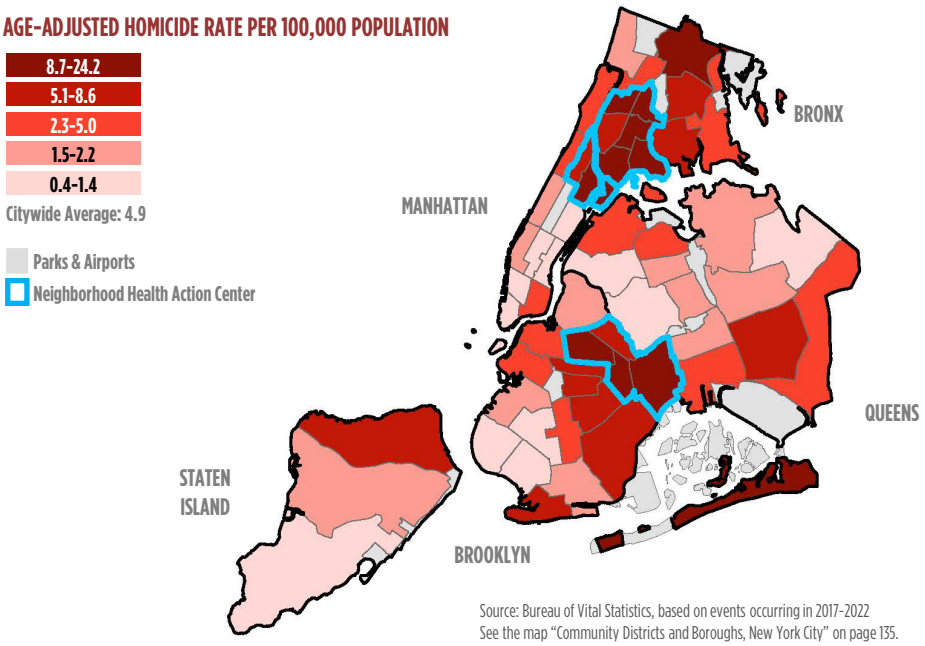


The rate of suicide deaths among adults aged 65-84 was 6.9 per 100,000 population in 2022, 30.3% lower than the rate in 2013. Compared to 2013, rates increased by 37.3% among the age group 25-44, and increased by 1.1% among the age group 45-64.

EXTERNAL CAUSES OF DEATH

Figure 21. Age-Adjusted Homicide Death Rates (Five-Year Averages) by Community District of Residence, New York City, 2018-2022

The five-year average age-adjusted homicide rate was highest in Brownsville with 24.2 deaths per 100,000 population, followed by Morrisania at 13.7, East Tremont at 13.5, Mott Haven at 11.2, and Bedford Stuyvesant at 10.9.



Source: Bureau of Vital Statistics, based on events occurring in 2017-2022

See the map "Community Districts and Boroughs, New York City" on page 135.

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, Bay Ridge, Sunnyside/Woodside, and Bayside.

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

MANHATTAN	CD	Homicide Death Rates
East Harlem	MN11	9.3
Central Harlem	MN10	7.4
Manhattanville	MN09	3.9
Lower East Side	MN03	3.7
Washington Heights	MN12	3.3
Chelsea, Clinton	MN04	2.0
Upper West Side	MN07	1.7
Midtown Business District	MN05	0.8
Murray Hill	MN06	0.7
Upper East Side	MN08	0.6
Battery Park, Tribeca	MN01	0.4
Greenwich Village, SOHO	MN02	0.4

BRONX	CD	Homicide Death Rates
Morrisania	BX03	13.7
East Tremont	BX06	13.5
Mott Haven	BX01	11.2
Hunts Point	BX02	10.1
University, Morris Heights	BX05	9.2
Williamsbridge	BX12	8.7
Concourse, Highbridge	BX04	7.8
Pelham Parkway	BX11	7.5
Unionport, Soundview	BX09	7.0
Fordham	BX07	4.9
Throgs Neck	BX10	3.4
Riverdale	BX08	2.1

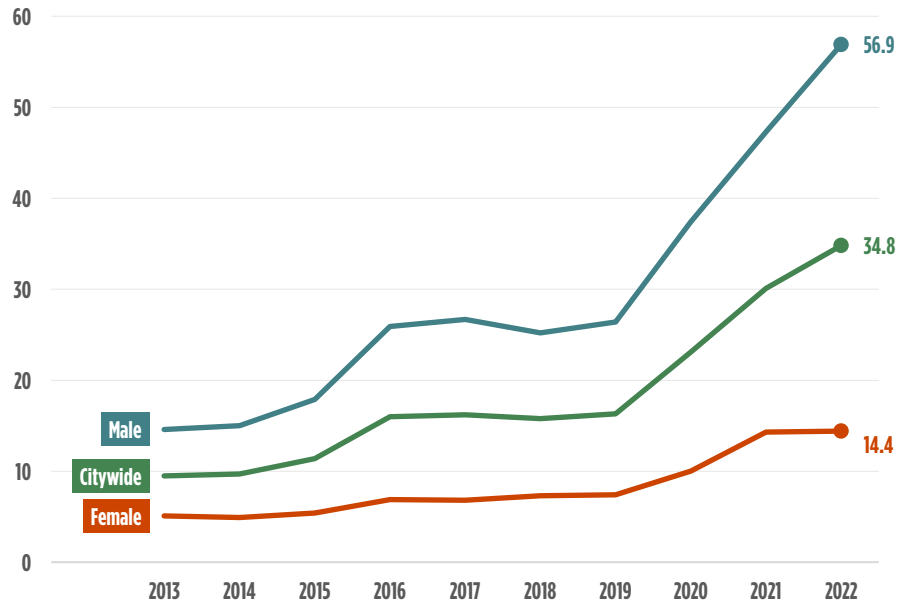
STATEN ISLAND	CD	Homicide Death Rates
Port Richmond	SI01	5.6
Willowbrook, South Beach	SI02	2.1
Tottenville	SI03	1.4

BROOKLYN	CD	Homicide Death Rates
Brownsville	BK16	24.2
Bedford Stuyvesant	BK03	10.9
East New York	BK05	10.8
Crown Heights North	BK08	8.6
East Flatbush	BK17	7.0
Crown Heights South	BK09	6.8
Canarsie	BK18	5.3
Bushwick	BK04	5.1
Coney Island	BK13	5.1
Park Slope	BK06	3.7
Flatbush, Midwood	BK14	3.4
Fort Greene, Brooklyn Heights	BK02	2.6
Williamsburg, Greenpoint	BK01	2.0
Sunset Park	BK07	1.5
Sheepshead Bay	BK15	1.5
Bensonhurst	BK11	1.3
Bay Ridge	BK10	0.9
Borough Park	BK12	0.6

QUEENS	CD	Homicide Death Rates
The Rockaways	QN14	8.7
Jamaica, St. Albans	QN12	7.4
Queens Village	QN13	5.0
Jackson Heights	QN03	3.2
Howard Beach	QN10	2.6
Astoria, Long Island City	QN01	2.4
Elmhurst, Corona	QN04	2.2
Fresh Meadows, Briarwood	QN08	2.2
Woodhaven	QN09	2.2
Flushing	QN07	1.7
Rego Park, Forest Hills	QN06	1.5
Ridgewood, Glendale	QN05	1.2
Sunnyside, Woodside	QN02	0.9
Bayside	QN11	0.9

DRUG-RELATED MORTALITY

Figure S1. Age-Adjusted Drug-related Death Rates, Overall and by Sex, New York City, 2013-2022



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 97.3% of drug-related deaths in 2022.

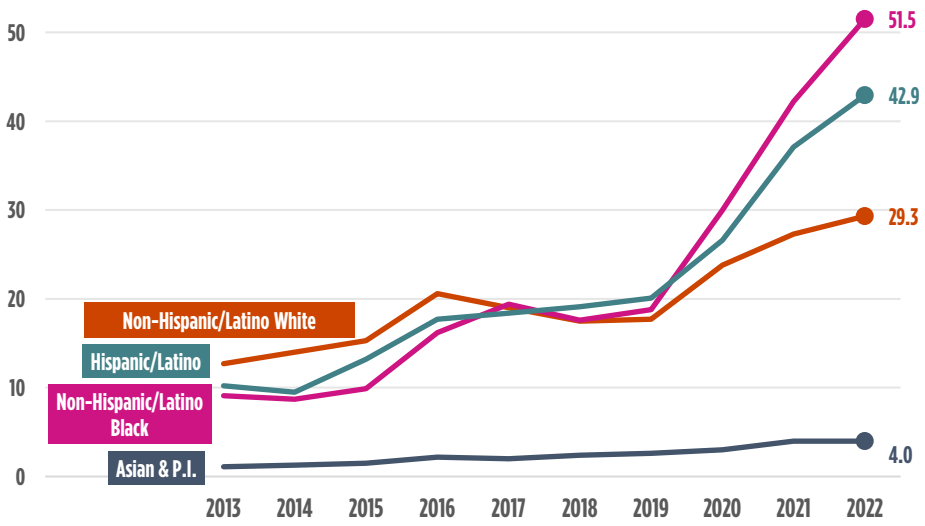
The age-adjusted drug-related death rate was 34.8 per 100,000 population in 2022, a 15.6% increase since 2021, and a 266.3% increase since 2013.

The age-adjusted drug-related death rate for males increased to 56.9 per 100,000 population in 2022, a 20.3% increase since 2021, and a 289.7% increase since 2013. The age-adjusted drug-related death rate for females increased to 14.4 per 100,000 population in 2022, a 0.7% increase since 2021 and a 182.4% increase since 2013.

DRUG-RELATED MORTALITY

Figure S2. Age-Adjusted Drug-related Death Rates by Racial/Ethnic Group, New York City, 2013-2022

Between 2013 and 2022, age-adjusted drug-related death rates increased by 465.9% among non-Hispanic/Latino Blacks, by 320.6% among Hispanics/Latinos, by 130.7% among non-Hispanic/Latino Whites, and by 263.6% among Asians and Pacific Islanders.

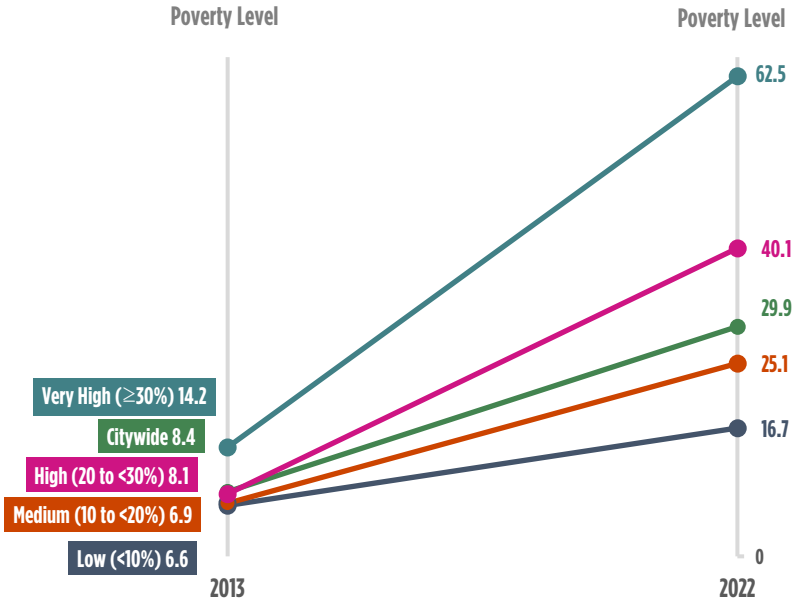


The drug-related death rate increased for all racial/ethnic groups from 2021 to 2022 except for Asian and Pacific Islanders.

In 2022, the drug-related death rate among non-Hispanic/Latino Blacks was 1.8 times the rate for non-Hispanic/Latino Whites, a change from 2021, in which the death rate for non-Hispanic/Latino Blacks was 1.5 times the rate for non-Hispanic/Latino Whites.

Figure S3. Age-Adjusted Drug-related Death Rates by Neighborhood Poverty*†, New York City, 2013 and 2022

Since 2013, age-adjusted drug-related death rates increased across all categories of neighborhood poverty. Over that period, the rate increased by 340.1% in very high poverty areas, by 395.1% in high poverty areas, by 263.8% in medium poverty areas, and by 153.0% in low poverty areas.



The age-adjusted drug-related death rate in areas with very high poverty was 3.7 times the rate in areas with low poverty in 2022. In 2013, the rate in areas with very high poverty was 2.2 times the rate of areas with low poverty.

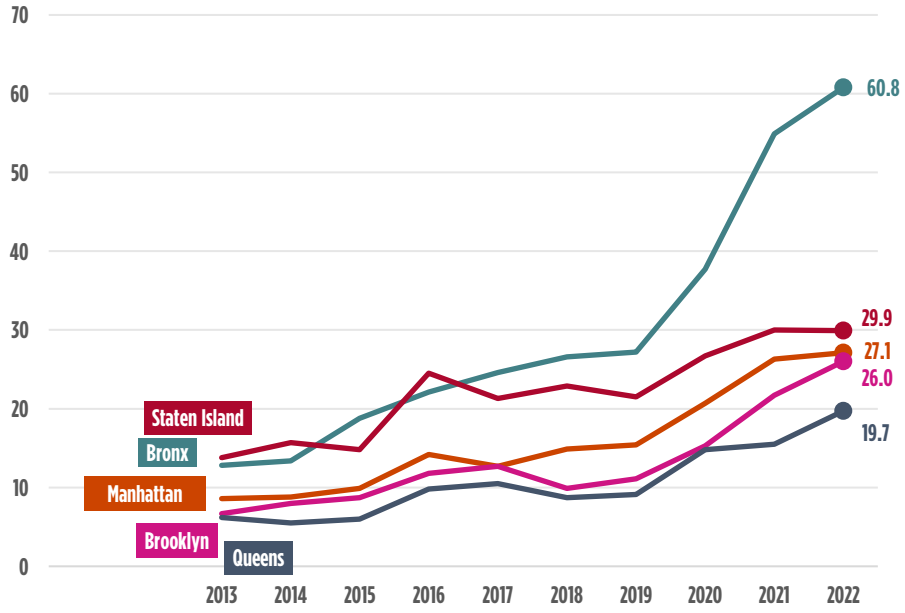
*Neighborhood poverty (based on decedent residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2013 data and per ACS 2017-2021 for 2022 data.

†The citywide estimate is restricted to NYC residents.

DRUG-RELATED MORTALITY

Figure S4. Age-Adjusted Drug-related Death Rates by Borough of Residence, New York City, 2013-2022

Since 2013, age-adjusted drug-related death rates have increased across all boroughs.

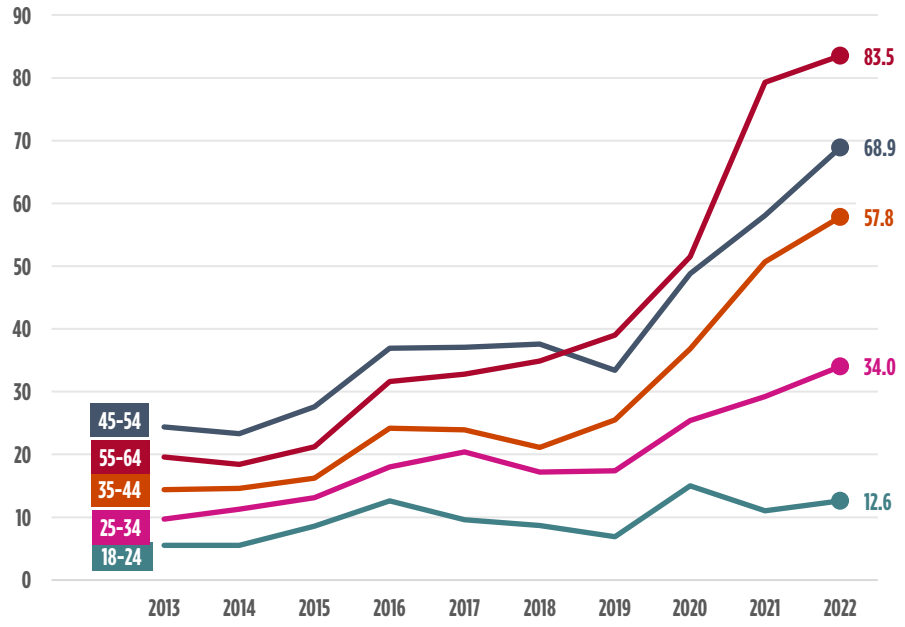


Over that period, age-adjusted drug-related death rates increased by 215.1% in Manhattan, by 375.0% in the Bronx, by 288.1% in Brooklyn, by 217.7% in Queens, and by 116.7% in Staten Island.

From 2013 to 2022, 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, 2013-2022

Between 2013 and 2022, age-specific drug-related death rates increased for all age groups.



Over that period, age-specific drug-related death rates increased by 129.1% for 18-24 year-olds, by 250.5% for 25-34 year-olds, by 301.4% for 35-44 year-olds, by 182.4% for 45-54 year-olds, and by 326.0% for 55-64 year-olds.

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

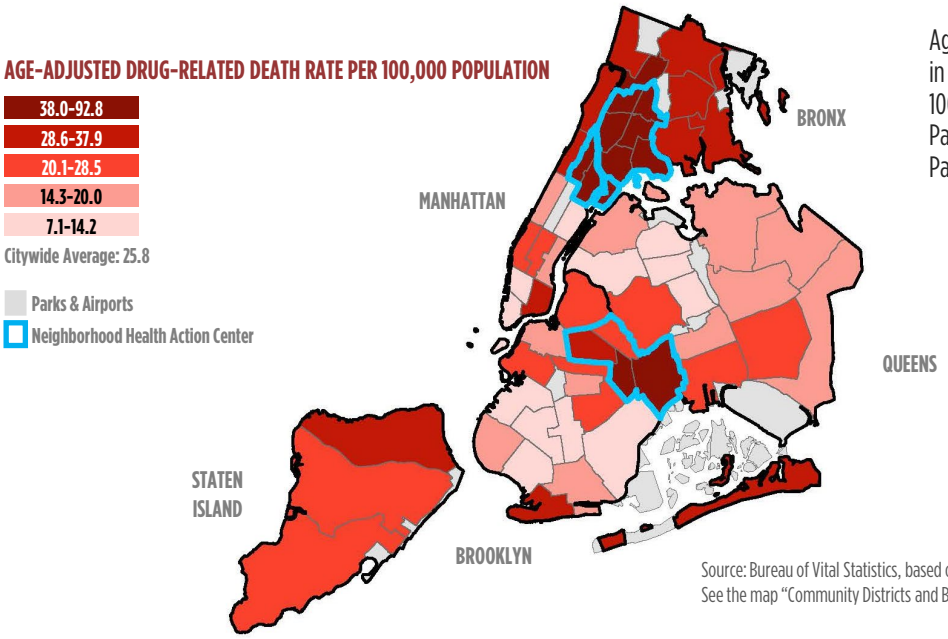
89.1% of drug-related deaths were premature (<65 year olds) in 2022.

DRUG-RELATED MORTALITY

Special Section

Figure S6. Age-Adjusted Drug-related Death Rates (Three-Year Averages) by Community District of Residence, New York City, 2020-2022

The three-year average age-adjusted drug-related death rate was highest in Morrisania with 92.8 deaths per 100,000 population, followed by East Tremont at 89.9, Mott Haven at 77.0, Hunts Point at 76.0, and University/Morris Heights at 67.4. Those CDs are all in the Bronx.



Age-adjusted drug-related death rates were lowest in Greenwich Village/SOHO at 7.1 deaths per 100,000 population, followed by 7.6 in Borough Park, 7.8 in Elmhurst/Corona, 8.9 in Battery Park/Tribeca, and 9.9 in Upper East Side.

Source: Bureau of Vital Statistics, based on events occurring in 2020-2022.

See the map "Community Districts and Boroughs, New York City" on page 135.

MANHATTAN	CD	Drug-Related Death Rate
East Harlem	MN11	55.4
Central Harlem	MN10	51.9
Lower East Side	MN03	32.4
Manhattanville	MN09	31.5
Washington Heights	MN12	29.5
Midtown Business District	MN05	28.0
Chelsea, Clinton	MN04	23.4
Upper West Side	MN07	17.4
Murray Hill	MN06	14.6
Upper East Side	MN08	9.9
Battery Park, Tribeca	MN01	8.9
Greenwich Village, SOHO	MN02	7.1

BRONX	CD	Drug-Related Death Rate
Morrisania	BX03	92.8
East Tremont	BX06	89.9
Mott Haven	BX01	77.0
Hunts Point	BX02	76.0
University/Morris Heights	BX05	67.4
Fordham	BX07	54.8
Concourse, Highbridge	BX04	53.9
Unionport, Soundview	BX09	37.8
Williamsbridge	BX12	34.4
Riverdale	BX08	31.0
Throgs Neck	BX10	30.6
Pelham Parkway	BX11	30.3

STATEN ISLAND	CD	Drug-Related Death Rate
Port Richmond	SI01	35.6
Tottenville	SI03	28.5
Willowbrook, South Beach	SI02	23.1

BROOKLYN	CD	Drug-Related Death Rate
Brownsville	BK16	64.1
East New York	BK05	41.9
Coney Island	BK13	35.7
Bedford Stuyvesant	BK03	35.0
Crown Heights North	BK08	26.3
Williamsburg, Greenpoint	BK01	23.9
Bushwick	BK04	23.4
Park Slope	BK06	20.7
East Flatbush	BK17	20.7
Crown Heights South	BK09	18.6
Fort Greene, Brooklyn Heights	BK02	18.6
Sheepshead Bay	BK15	18.4
Bay Ridge	BK10	16.6
Sunset Park	BK07	14.2
Flatbush, Midwood	BK14	13.5
Canarsie	BK18	12.8
Bensonhurst	BK11	12.4
Borough Park	BK12	7.6

QUEENS	CD	Drug-Related Death Rate
The Rockaways	QN14	37.9
Jamaica, St. Albans	QN12	25.3
Ridgewood, Glendale	QN05	21.6
Howard Beach	QN10	21.1
Astoria, Long Island City	QN01	20.0
Woodhaven	QN09	15.4
Queens Village	QN13	15.1
Fresh Meadows, Briarwood	QN08	14.8
Flushing	QN07	14.6
Bayside	QN11	14.3
Jackson Heights	QN03	13.3
Rego Park, Forest Hills	QN06	12.1
Sunnyside, Woodside	QN02	10.0
Elmhurst, Corona	QN04	7.8

POPULATION CHARACTERISTICS

Table PC1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2022

		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
1976-1980	7,236,000	108,058	14.9			56,010	7.7	74,867	10.3	1,875	17.4
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
2022	8,335,897	99,459	11.9	56.1	1569.4	60,615	7.3	60,596	7.3	427	4.3

*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, 2022

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	8,335,897	4,007,108	4,328,789	2,423,203	1,176,450	1,246,753	2,618,297	1,289,184	1,329,113	1,812,467	832,098	980,369	1,300,527	622,344	678,183	181,403	87,032	94,371
Under 5	473,064	241,891	231,173	155,147	78,949	76,198	138,614	70,971	67,643	95,324	48,333	46,991	64,689	33,761	30,928	19,290	9,877	9,413
5-9	470,347	240,340	230,007	158,965	80,867	78,098	125,482	64,476	61,006	93,844	47,269	46,575	72,829	37,846	34,983	19,227	9,882	9,345
10-14	461,482	236,670	224,812	166,027	84,979	81,048	117,977	60,663	57,314	101,706	51,611	50,095	60,062	31,388	28,674	15,710	8,029	7,681
15-19	449,149	227,460	221,689	160,864	81,895	78,969	117,666	59,637	58,029	99,696	49,894	49,802	58,285	29,809	28,476	12,638	6,225	6,413
20-24	518,708	250,745	267,963	172,942	86,262	86,680	142,420	67,397	75,023	115,344	55,283	60,061	74,286	35,342	38,944	13,716	6,461	7,255
25-29	669,710	323,422	346,288	186,361	92,379	93,982	226,554	108,541	118,013	135,134	65,166	69,968	105,250	49,591	55,659	16,411	7,745	8,666
30-34	710,655	354,112	356,543	195,916	100,639	95,277	235,656	118,521	117,135	147,526	72,555	74,971	116,263	54,960	61,303	15,294	7,437	7,857
35-39	609,239	304,085	305,154	174,667	89,476	85,191	198,563	102,056	96,507	122,583	58,794	63,789	102,021	48,356	53,665	11,405	5,403	6,002
40-44	539,635	265,077	274,558	162,007	81,355	80,652	163,812	84,751	79,061	113,816	52,819	60,997	90,811	41,943	48,868	9,189	4,209	4,980
45-49	499,564	241,674	257,890	149,601	73,285	76,316	146,751	75,712	71,039	108,162	48,998	59,164	86,957	40,037	46,920	8,093	3,642	4,451
50-54	520,587	252,475	268,112	150,971	73,328	77,643	153,708	80,233	73,475	119,368	53,657	65,711	88,401	41,549	46,852	8,139	3,708	4,431
55-59	522,095	250,886	271,209	146,104	68,662	77,442	151,566	79,290	72,276	129,808	57,867	71,941	86,653	41,289	45,364	7,964	3,778	4,186
60-64	498,374	235,479	262,895	128,198	58,636	69,562	156,059	78,824	77,235	124,639	55,027	69,612	82,046	39,590	42,456	7,432	3,402	4,030
65-69	433,064	197,884	235,180	103,405	45,097	58,308	149,553	72,157	77,396	100,739	42,616	58,123	73,457	35,267	38,190	5,910	2,747	3,163
70-74	354,267	154,863	199,404	79,586	33,148	46,438	137,322	62,669	74,653	76,706	30,645	46,061	56,358	26,508	29,850	4,295	1,893	2,402
75-79	252,555	104,249	148,306	57,224	22,352	34,872	104,035	45,430	58,605	54,477	19,620	34,857	34,041	15,682	18,359	2,778	1,165	1,613
80-84	169,209	64,877	104,332	38,354	13,873	24,481	69,590	28,462	41,128	36,490	11,924	24,566	22,933	9,863	13,070	1,842	755	1,087
85 & Over	184,193	60,919	123,274	36,864	11,268	25,596	82,969	29,394	53,575	37,105	10,020	27,085	25,185	9,563	15,622	2,070	674	1,396

Data Source: US Census Bureau, Census 2022 population estimates as of July 1, 2022.

Table PC3. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2022

Months	Number				Average Per Day			
	Marriages*	Births	Deaths	Infant Deaths	Marriages	Births	Deaths	Infant Deaths
January	3,571	8,096	7,936	36	115	261	256	1.2
February	3,634	7,483	5,037	30	130	267	180	1.1
March	4,398	8,152	4,680	35	142	263	151	1.1
April	4,490	7,909	4,258	29	150	264	142	1.0
May	4,858	8,159	4,618	39	157	263	149	1.3
June	4,872	8,389	4,376	31	162	280	146	1.0
July	5,987	8,680	4,709	44	193	280	152	1.4
August	7,032	8,636	4,774	38	227	279	154	1.2
September	6,010	8,060	4,518	34	200	269	151	1.1
October	5,846	8,650	4,978	37	189	279	161	1.2
November	4,998	8,462	5,049	38	167	282	168	1.3
December	4,919	8,783	5,663	36	159	283	183	1.2
Total	60,615	99,459	60,596	427	166	272	166	1.2

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

PREGNANCY OUTCOMES

Table PO1. Live Births by Borough of Birth* and Institution, New York City, 2022

Borough and Institution	Births
Manhattan	
Bellevue Hospital Center	1,333
Harlem Hospital Center	681
Lenox Hill Hospital	3,887
Metropolitan Hospital Center	976
Mount Sinai Beth Israel	1
Mount Sinai Hospital	6,736
Mount Sinai St. Luke's	1
Mount Sinai West	4,296
New York-Presbyterian/Columbia University Medical Center	4,276
New York Weill Cornell Medical Center	7,801
New York-Presbyterian/Lower Manhattan Hospital	1,813
New York-Presbyterian/The Allen Hospital	2,244
NYU Langone - Tisch Hospital	5,139
Home†	110
Places other than a hospital or home‡	26
Bronx	
Bronxcare Health Systems	1,541
Jack D. Weiler Hospital	3,178
Jacobi Medical Center	1,783
Lincoln Medical and Mental Health Center	1,515
Montefiore Medical Center - Henry & Lucy Moses Division	3
Montefiore Medical Center - Wakefield Division	1,201
Montefiore Medical Center – Westchester Square	1
North Central Bronx Hospital	1,009
St. Barnabas Hospital	691
Home†	102
Places other than a hospital or home‡	24
Brooklyn	
Brookdale University Hospital and Medical Center	662
Brooklyn Birthing Center	114
Brooklyn Hospital Center	1,340
Coney Island Hospital	1,417
Kings County Hospital Center	1,336
Maimonides Medical Center	6,280
New York-Presbyterian/Brooklyn Methodist Hospital	4,459
NYU Lutheran Medical Center	4,099
The Birthing Center of NY§	1
University Hospital of Brooklyn	737
Woodhull Medical and Mental Health Center	1,335
Wyckoff Heights Medical Center	963
Home†	517
Places other than a hospital or home‡	58
Queens	
Elmhurst Hospital Center	2,206
Flushing Hospital Medical Center	2,358
Jamaica Hospital Medical Center	1,565
Long Island Jewish Forest Hills	2,037
Long Island Jewish Medical Center	7,460
New York-Presbyterian/Queens Medical Center	2,581
Queens Hospital Center	1,335
St. John's Episcopal Hospital South Shore	411
Home†	136
Places other than a hospital or home‡	20
Staten Island	
Richmond University Medical Center	2,883
Staten Island University Hospital	2,748
Home†	28
Places other than a hospital or home‡	5
New York City Total	**99,459**

* 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.

PREGNANCY OUTCOMES

Table PO2. Live Births by Mother's Ancestry* and Borough of Residence, New York City, 2022

		Borough of Residence						
Mother's Ancestry	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Unknown
Total	**99,459**	**13,089**	**15,606**	**32,804**	**20,363**	**4,886**	**12,708**	**3**
Hispanic/Latino								
Colombian	1,084	83	62	155	617	39	128	-
Cuban	258	42	42	72	42	16	44	-
Dominican	8,795	1,368	4,384	1,085	1,135	119	704	-
Ecuadorian	3,222	118	384	613	1,897	58	152	-
Mexican	4,287	412	1,025	1,233	1,106	358	153	-
Puerto Rican	4,426	527	1,716	855	588	357	382	1
Other Hispanic/Latino	7,192	831	1,616	1,823	1,979	247	695	1
North American and the Caribbean								
African-American	10,423	952	2,664	4,049	1,506	367	884	1
American	11,288	2,418	199	4,252	1,210	1,004	2,205	-
Guyanese	1,281	8	76	293	785	8	111	-
Haitian	1,069	37	40	587	241	11	153	-
Jamaican	1,277	32	260	408	380	17	180	-
Trinidadian	375	10	11	173	141	9	31	-
Other North American and Caribbean	1,026	150	80	426	207	23	140	-
African								
Egyptian	409	37	11	97	141	88	35	-
Ghanaian	419	15	304	36	17	18	29	-
Nigerian	418	20	96	111	91	54	46	-
Other African	1,699	302	756	305	195	52	89	-
European								
English	711	203	25	190	46	10	237	-
German	368	114	8	117	48	12	69	-
Irish	878	238	32	209	113	60	226	-
Italian	1,880	276	50	318	234	445	557	-
Polish	517	82	8	135	173	37	82	-
Russian	773	128	9	372	106	65	93	-
Other European	3,301	519	167	1,327	523	297	468	-
Asian								
Asian Indian	1,589	276	43	176	567	45	482	-
Bangladeshi	2,567	51	530	515	1,363	9	99	-
Chinese	4,990	615	47	1,640	1,790	343	555	-
Filipino	700	79	24	92	302	42	161	-
Korean	664	230	7	101	175	14	137	-
Pakistani	1,421	57	89	592	327	121	235	-
Other Asian	5,560	698	425	2,301	1,401	291	444	-
Other								
Jewish or Hebrew	4,342	296	24	3,258	213	74	477	-
Other or not stated	10,250	1,865	392	4,888	704	176	2,225	-

*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, 2022

		Age of Mother (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**99,459**	**499**	**1,527**	**13,240**	**22,022**	**31,458**	**23,328**	**7,385**
Puerto Rican	4,426	53	158	791	1,266	1,230	737	191
Hispanic/Latino not of Puerto Rican ancestry	24,838	276	738	4,388	6,497	6,930	4,556	1,453
Asian and Pacific Islander	15,012	9	41	886	3,177	5,645	4,058	1,196
Non-Hispanic/Latino White	35,768	28	229	4,477	6,420	11,919	9,673	3,022
Non-Hispanic/Latino Black	17,307	123	334	2,442	4,215	5,060	3,786	1,347
Non-Hispanic/Latino Other	560	-	9	78	140	162	128	43
Non-Hispanic/Latino of two or more races	935	4	13	87	164	327	250	90
Not stated	613	6	5	91	143	185	140	43

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2022

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	**99,459**	**499**	**1,527**	**13,240**	**22,022**	**31,458**	**23,328**	**7,385**
Sex								
Male	50,595	259	803	6,733	11,153	16,109	11,797	3,741
Female	48,864	240	724	6,507	10,869	15,349	11,531	3,644
First Live Birth								
Yes	41,452	473	1,344	8,206	9,213	12,856	7,230	2,130
No	57,854	22	180	5,004	12,776	18,562	16,067	5,243
Unknown	153	4	3	30	33	40	31	12
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI<18.5)	4,223	54	111	835	995	1,282	766	180
Normal weight (18.5≤BMI<25)	46,894	251	805	6,486	9,554	15,101	11,287	3,410
Overweight (25≤BMI<30)	26,533	117	354	3,273	6,240	8,268	6,174	2,107
Obese (BMI≥30)	21,103	65	243	2,519	5,065	6,623	4,948	1,640
Unknown	706	12	14	127	168	184	153	48
Birthweight at Delivery (Grams)								
<1500	1,345	5	24	159	286	432	320	119
1500-2499	7,767	56	134	1,065	1,625	2,409	1,818	660
2500-3999	85,023	426	1,336	11,461	18,955	26,828	19,833	6,184
≥4000	5,307	11	33	554	1,154	1,781	1,354	420
Not Stated	17	1	-	1	2	8	3	2
Gestational Age (Weeks)*								
<32	1,428	7	33	183	286	449	339	131
32-36	8,080	42	121	916	1,600	2,512	2,104	785
≥37	89,933	449	1,373	12,140	20,132	28,492	20,880	6,467
Unknown	18	1	-	1	4	5	5	2
Plurality								
Single	96,279	491	1,510	12,926	21,371	30,367	22,497	7,117
Twin	3,114	8	17	305	633	1,076	813	262
Triplet	66	-	-	9	18	15	18	6
Apgar Score at 5 Minutes								
≤6	1,033	5	22	146	179	315	265	101
7	1,028	6	15	137	205	336	254	75
8	5,648	23	93	629	1,055	1,792	1,491	565
9	91,026	458	1,384	12,234	20,430	28,780	21,153	6,587
10	494	1	5	64	107	168	115	34
Not Stated	230	6	8	30	46	67	50	23

Table is continued on following page

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2022 [CONTINUED]

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	**99,459**	**499**	**1,527**	**13,240**	**22,022**	**31,458**	**23,328**	**7,385**
Method of Delivery								
Vaginal	64,159	412	1,253	10,290	15,279	20,157	13,245	3,523
Vaginal after any prior C-section	2,858	1	3	207	635	944	801	267
Primary C-section	19,078	84	247	2,112	3,829	6,066	4,782	1,958
Low Risk†	10,215	59	170	1,356	2,198	3,150	2,327	955
Other	8,863	25	77	756	1,631	2,916	2,455	1,003
Repeat C-section	13,350	1	24	630	2,277	4,286	4,497	1,635
Unknown	14	1	-	1	2	5	3	2
Attendant								
Physician	90,791	429	1,291	11,484	19,762	29,149	21,741	6,935
Certified nurse midwife	8,116	61	223	1,665	2,119	2,160	1,479	409
Other	552	9	13	91	141	149	108	41
Primary Payer for this Birth‡								
Medicaid	56,434	443	1,352	11,029	15,957	15,193	9,427	3,033
Private	41,020	26	117	1,940	5,563	15,690	13,464	4,220
Self-pay	591	10	19	99	142	165	117	39
Other	1,195	14	35	144	309	352	264	77
Not Stated	219	6	4	28	51	58	56	16
First Visit for Prenatal Care								
First trimester (1-3 months)	69,894	195	728	7,960	14,791	23,270	17,630	5,320
Second trimester (4-6 months)	18,924	157	464	3,187	4,523	5,345	3,796	1,452
Third trimester (7-9 months)	6,022	86	200	1,198	1,480	1,633	1,071	354
No care	1,371	29	47	301	366	343	215	70
Not Stated	3,248	32	88	594	862	867	616	189
Marital Status§								
Not married	36,766	485	1,211	7,209	9,682	9,569	6,368	2,242
Married	62,693	14	316	6,031	12,340	21,889	16,960	5,143
Education Level								
11th grade or less/12th grade, no diploma	13,237	434	600	2,582	3,113	3,216	2,375	917
High school graduate or GED	23,828	50	694	5,828	6,677	5,854	3,514	1,211
Some college/associate degree	19,546	9	211	3,302	5,569	5,842	3,534	1,079
Bachelor's degree	22,516	-	4	1,088	4,377	8,607	6,606	1,834
Master's degree or higher	19,536	-	-	282	2,107	7,716	7,159	2,272
Not Stated	796	6	18	158	179	223	140	72
Birthplace‖								
United States, including its territories	51,640	323	927	7,958	11,176	16,231	11,579	3,446
Foreign-born	47,721	173	596	5,265	10,821	15,202	11,730	3,934
Not Stated	98	3	4	17	25	25	19	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, 2022

		Racial/Ethnic Group*							
	Total	Puerto Rican	Hispanic/ Latino not of Puerto Rican ancestry	Non-Hispanic/ Latino 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	**99,459**	**4,426**	**24,838**	**15,012**	**35,768**	**17,307**	**560**	**935**	**613**
Sex									
Male	50,595	2,244	12,669	7,641	18,167	8,800	290	468	316
Female	48,864	2,182	12,169	7,371	17,601	8,507	270	467	297
First Live Birth									
Yes	41,452	1,759	9,541	7,155	15,004	7,029	240	518	206
No	57,854	2,663	15,283	7,848	20,691	10,245	319	417	388
Unknown	153	4	14	9	73	33	1	-	19
Pre-pregnancy Body Mass Index									
Underweight (BMI<18.5)	4,223	157	498	1,076	1,944	467	23	32	26
Normal weight (18.5≤BMI<25)	46,894	1,422	8,727	8,892	21,712	5,194	216	496	235
Overweight (25≤BMI<30)	26,533	1,193	8,414	3,495	7,628	5,245	180	234	144
Obese (BMI≥30)	21,103	1,634	6,999	1,523	4,269	6,272	133	169	104
Unknown	706	20	200	26	215	129	8	4	104
Birthweight at Delivery (Grams)									
<1500	1,345	97	330	168	255	467	10	8	10
1500-2499	7,767	436	1,855	1,371	2,009	1,910	55	75	56
2500-3999	85,023	3,699	21,292	13,019	31,055	14,189	469	796	504
≥4000	5,307	194	1,360	454	2,448	740	26	56	29
Not stated	17	.	1	.	1	1	-	-	14
Gestational Age (Weeks)†									
<32	1,428	102	360	169	290	471	12	14	10
32-36	8,080	489	2,177	1,175	2,259	1,811	52	67	50
≥37	89,933	3,834	22,301	13,667	33,218	15,024	496	854	539
Unknown	18	1	-	1	1	1	-	-	14
Plurality									
Single	96,279	4,261	24,202	14,585	34,595	16,585	551	910	590
Twin	3,114	165	621	424	1,144	703	9	25	23
Triplet	66	-	15	3	29	19	-	-	-
Apgar Score at 5 Minutes									
≤6	1,033	65	225	91	300	317	6	15	14
7	1,028	47	226	107	332	293	10	8	5
8	5,648	260	1,268	793	1,827	1,353	39	69	39
9	91,026	4,008	22,945	13,963	33,061	15,193	498	830	528
10	494	26	129	47	195	75	5	10	7
Not stated	230	20	45	11	53	76	2	3	20
Method of Delivery									
Vaginal	64,159	2,747	15,379	9,398	25,139	10,162	350	586	398
Vaginal after any prior C-section	2,858	149	756	332	1,088	450	27	27	29
Primary C-section	19,078	874	4,555	3,147	6,105	3,985	105	223	84
Low Risk‡	10,215	430	2,391	1,849	3,352	1,952	58	135	48
Other	8,863	444	2,164	1,298	2,753	2,033	47	88	36
Repeat C-section	13,350	656	4,148	2,135	3,436	2,710	78	99	88
Unknown	14	-	-	-	-	-	-	-	14

Table is continued on following page

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2022 [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	90,791	4,018	22,356	14,396	32,453	15,662	512	858	536
Certified nurse midwife	8,116	379	2,340	564	3,154	1,508	43	74	54
Other	552	29	142	52	161	137	5	3	23
Primary Payer for this Birth§									
Medicaid	56,434	2,974	19,315	7,665	13,970	11,503	328	298	381
Private	41,020	1,326	5,068	7,113	21,223	5,258	217	616	199
Self-pay	591	31	138	70	167	165	8	9	3
Other	1,195	89	250	148	372	310	7	11	8
Not stated	219	6	67	16	36	71	-	1	22
First Visit for Prenatal Care									
First trimester (1-3 months)	69,894	2,961	15,651	11,465	28,085	10,260	417	690	365
Second trimester (4-6 months)	18,924	973	5,893	2,474	5,059	4,168	99	154	104
Third trimester (7-9 months)	6,022	249	1,998	666	1,276	1,734	19	38	42
No care	1,371	85	402	95	391	347	10	14	27
Not stated	3,248	158	894	312	957	798	15	39	75
Marital Status‖									
Not married	36,766	3,291	15,252	2,117	3,899	11,470	208	312	217
Married	62,693	1,135	9,586	12,895	31,869	5,837	352	623	396
Education Level									
11th grade or less/12th grade, no diploma	13,237	761	6,200	1,674	2,348	2,087	49	46	72
High school graduate or GED	23,828	1,328	6,935	2,546	7,642	4,986	179	121	91
Some college/associate degree	19,546	1,361	6,137	2,308	4,135	5,216	137	179	73
Bachelor's degree	22,516	595	3,521	4,518	10,287	3,103	100	296	96
Master's degree or higher	19,536	372	1,831	3,915	11,160	1,808	84	291	75
Not stated	796	9	214	51	196	107	11	2	206
Birthplace¶									
United States, including territories	51,640	4,398	8,392	2,564	25,258	9,765	252	678	333
Foreign-born	47,721	23	16,427	12,447	10,501	7,520	306	256	241
Not stated	98	5	19	1	9	22	2	1	39

* 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, 2022

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	**99,459**	**48.0**	**41.7**	**9.2**	**9.6**	**7.7**	**37.0**	**56.9**	**21.4**	**2.0**	**40.4**
Hispanic/Latino											
Colombian	1,084	73.3	51.8	8.0	9.1	10.8	51.8	63.6	17.9	2.1	49.0
Cuban	258	14.7	53.1	10.5	14.0	5.5	38.0	33.9	25.6	1.9	43.8
Dominican	8,795	70.2	40.9	9.8	10.6	10.5	61.1	79.0	29.0	3.8	26.2
Ecuadorian	3,222	83.4	35.0	7.1	8.8	11.4	56.5	84.7	23.1	5.1	44.3
Mexican	4,287	63.3	33.1	7.2	9.5	7.6	65.9	85.5	31.1	4.5	38.4
Puerto Rican	4,426	0.5	39.8	12.0	13.4	7.8	74.4	67.3	37.1	4.8	33.2
Other Hispanic/Latino	7,192	56.1	37.6	9.3	10.8	10.3	63.7	72.9	30.2	4.1	36.1
North America and the Caribbean											
African-American	10,423	19.0	43.0	14.4	13.6	9.2	75.1	66.5	38.0	3.6	35.0
American	11,288	4.9	45.9	6.7	7.4	2.2	15.1	27.3	13.2	0.5	54.4
Guyanese	1,281	88.3	42.7	16.1	13.8	14.1	45.7	66.1	25.9	1.9	35.2
Haitian	1,069	83.1	40.0	11.4	12.4	17.5	47.6	63.0	30.9	0.8	30.0
Jamaican	1,277	92.2	37.7	12.5	12.6	20.4	65.5	70.1	39.6	1.6	34.5
Trinidadian	375	88.5	41.2	14.9	14.4	18.1	51.2	55.0	33.7	2.4	35.7
Other North America and the Caribbean	1,026	85.7	48.4	11.3	12.3	14.2	42.4	48.4	23.2	0.7	47.9
African											
Egyptian	409	87.0	34.5	9.5	9.3	18.7	4.9	66.9	27.7	1.0	45.5
Ghanaian	419	95.9	35.1	11.9	11.9	21.0	45.3	69.7	36.3	0.0	31.7
Nigerian	418	91.1	34.7	11.2	11.5	12.3	30.4	53.1	33.5	0.0	36.3
Other African	1,699	95.9	31.6	10.3	8.9	18.2	30.3	76.0	25.8	0.9	47.3
European											
English	711	30.3	51.7	12.8	14.2	9.8	11.0	9.6	9.7	0.3	60.0
German	368	31.8	62.0	5.4	6.5	3.0	13.9	7.4	8.4	0.0	64.7
Irish	878	10.9	55.6	6.5	7.5	2.0	13.3	6.5	13.7	0.0	58.8
Italian	1,880	10.2	54.3	7.3	8.7	2.4	16.4	12.2	18.0	0.2	47.5
Polish	517	60.2	49.5	5.8	5.4	1.8	16.6	25.2	9.9	0.0	53.2
Russian	773	84.0	50.5	5.3	7.1	8.6	20.4	38.7	6.9	0.3	58.5
Other European	3,301	75.3	49.6	5.5	7.1	7.1	16.7	38.3	11.2	0.3	52.8
Asian											
Asian Indian	1,589	77.1	50.9	13.1	9.0	4.5	8.1	32.2	12.4	0.3	48.9
Bangladeshi	2,567	97.2	36.2	12.9	9.9	7.1	3.2	78.5	14.9	0.1	38.7
Chinese	4,990	83.0	50.6	6.8	6.6	2.9	21.3	51.2	3.7	0.2	31.2
Filipino	700	68.1	54.9	10.9	12.3	5.8	22.3	28.9	12.4	0.4	44.9
Korean	664	64.2	63.8	7.4	6.8	3.0	6.9	9.0	2.9	0.0	54.4
Pakistani	1,421	88.9	35.1	13.1	11.0	6.9	3.5	74.3	21.7	0.5	27.5
Other Asian	5,560	86.8	39.6	7.7	7.7	11.6	11.5	62.8	10.9	2.0	40.4
Other											
Jewish or Hebrew	4,342	11.7	28.3	5.6	5.7	3.6	4.8	64.8	12.1	0.9	37.9
Other or Not Stated	10,250	21.0	39.7	7.4	8.1	4.3	15.1	41.3	13.5	0.8	42.0

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, 2022

			Percent of Total Live Births With Specified Characteristics							
Community District of Residence	Live Births	Rate*	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	**99,459**	**11.9**	**48.0**	**41.7**	**9.2**	**9.6**	**7.7**	**56.9**	**21.4**	**40.4**
MANHATTAN	**13,013**	**8.2**	**38.2**	**53.0**	**8.9**	**9.1**	**6.7**	**30.3**	**14.7**	**53.7**
Battery Park, Tribeca (01)	794	13.5	38.1	56.0	5.7	6.7	3.5	3.5	4.3	61.8
Greenwich Village, SOHO (02)	512	6.0	33.4	58.2	8.0	9.4	3.6	7.0	3.1	70.3
Lower East Side (03)	794	4.7	35.2	47.2	11.8	11.8	6.7	45.8	20.1	51.6
Chelsea, Clinton (04)	793	5.7	45.7	66.8	8.2	7.1	6.3	20.6	9.9	58.9
Midtown Business District (05)	474	8.2	45.0	63.1	8.0	9.5	8.8	15.9	5.2	60.5
Murray Hill (06)	971	7.2	40.7	63.2	9.3	8.1	5.0	8.1	7.2	62.9
Upper West Side (07)	1,848	9.1	32.4	54.7	5.5	6.5	2.9	12.2	8.0	60.6
Upper East Side (08)	2,143	10.1	28.9	57.6	7.8	8.0	3.0	5.0	5.8	66.1
Manhattanville (09)	788	7.5	44.1	47.0	11.3	10.4	12.0	57.4	26.4	41.9
Central Harlem (10)	1,146	10.2	40.2	41.7	11.4	10.8	13.4	55.5	28.6	50.5
East Harlem (11)	1,153	9.6	36.3	43.2	12.1	11.4	9.3	62.7	29.0	36.5
Washington Heights (12)	1,597	8.5	50.1	46.4	10.2	11.3	10.4	65.9	24.6	30.8
BRONX	**15,681**	**11.3**	**56.7**	**36.7**	**11.0**	**11.1**	**12.7**	**80.9**	**32.7**	**28.7**
Mott Haven (01)	1,238	13.2	46.7	34.1	11.4	11.3	12.5	81.4	38.0	37.8
Hunts Point (02)	628	11.7	49.5	33.6	11.6	11.1	16.3	82.3	37.8	32.6
Morrisania (03)	1,148	13.3	47.0	31.5	11.2	10.6	15.4	84.3	38.3	30.2
Concourse, Highbridge (04)	1,811	12.2	61.8	36.7	9.3	9.9	13.8	83.6	32.8	26.6
University/Morris Heights (05)	1,596	12.4	62.1	37.9	10.0	10.8	14.3	87.8	30.2	22.6
East Tremont (06)	1,099	13.3	47.4	30.1	13.8	13.5	13.2	88.6	36.4	23.6
Fordham (07)	1,696	12.1	65.5	37.5	10.5	11.1	11.7	83.7	31.6	24.8
Riverdale (08)	895	9.2	47.5	41.8	9.2	7.8	8.1	56.4	23.2	29.7
Unionport, Soundview (09)	2,068	11.6	61.3	37.5	12.6	11.8	12.0	82.0	32.0	29.4
Throgs Neck (10)	897	7.7	55.5	41.5	10.9	12.4	10.6	70.2	27.5	33.3
Pelham Parkway (11)	1,221	11.1	64.0	38.7	11.0	11.4	11.0	77.2	28.8	28.4
Williamsbridge (12)	1,384	9.4	54.7	38.7	10.3	10.8	14.1	79.9	35.7	31.7
BROOKLYN	**32,804**	**12.7**	**42.4**	**39.1**	**7.9**	**8.4**	**6.9**	**63.2**	**19.4**	**38.9**
Williamsburg, Greenpoint (01)	3,349	17.0	16.6	34.9	5.0	5.6	3.8	60.5	11.8	41.2
Fort Greene, Brooklyn Heights (02)	1,542	11.6	28.1	60.4	9.1	9.3	2.6	15.5	10.1	60.7
Bedford Stuyvesant (03)	2,134	14.7	23.5	39.7	6.4	6.9	5.2	64.7	19.4	39.4
Bushwick (04)	976	9.1	56.5	40.1	7.2	9.5	8.8	74.3	25.9	39.8
East New York (05)	2,057	12.0	53.3	37.4	11.8	11.3	9.6	78.2	33.9	33.2
Park Slope (06)	1,338	12.3	25.7	54.2	6.6	7.2	2.0	15.0	9.9	66.6
Sunset Park (07)	1,355	10.4	61.1	41.7	7.4	8.4	3.9	68.5	19.2	32.4
Crown Heights North (08)	1,011	10.8	35.2	52.3	8.8	10.0	6.2	44.9	19.9	52.1
Crown Heights South (09)	1,196	12.5	39.9	42.6	10.2	10.3	7.1	59.7	22.4	55.7
Bay Ridge (10)	1,386	9.7	60.3	43.7	7.4	7.6	6.3	56.9	20.2	37.5
Bensonhurst (11)	2,200	10.6	76.3	39.5	8.2	9.2	8.9	77.5	19.1	30.7
Borough Park (12)	4,733	23.6	23.6	27.2	5.3	5.6	3.5	77.6	12.9	33.0
Coney Island (13)	1,047	9.7	65.3	40.6	8.0	10.7	14.2	73.4	19.5	34.1
Flatbush, Midwood (14)	2,139	13.2	52.1	35.7	8.2	7.9	8.7	64.6	20.0	35.0
Sheepshead Bay (15)	2,134	12.2	59.1	36.2	7.3	7.4	9.1	61.6	12.9	36.4
Brownsville (16)	976	12.3	40.1	38.6	13.0	12.8	12.9	78.3	35.8	28.8
East Flatbush (17)	1,395	9.4	57.2	41.7	11.8	13.0	13.3	68.5	32.8	33.6
Canarsie (18)	1,836	9.8	48.5	37.8	10.4	10.2	9.8	59.3	30.5	33.4
QUEENS	**20,363**	**8.9**	**66.5**	**43.3**	**9.8**	**9.9**	**8.6**	**64.4**	**21.9**	**44.2**
Astoria, Long Island City (01)	1,637	8.7	51.0	54.8	8.4	9.1	8.8	43.7	20.0	53.0
Sunnyside, Woodside (02)	1,459	9.7	62.8	53.9	7.4	7.6	7.4	41.2	14.3	54.9
Jackson Heights (03)	1,785	10.2	75.4	37.9	8.6	8.9	12.1	78.4	21.5	47.6
Elmhurst, Corona (04)	1,776	9.7	81.8	40.0	7.7	8.3	10.6	84.3	21.6	42.4
Ridgewood, Glendale (05)	1,605	10.3	61.4	41.6	8.2	10.0	6.9	62.0	22.1	43.3
Rego Park, Forest Hills (06)	1,156	10.4	58.7	49.0	7.5	8.5	4.1	37.2	13.4	46.8
Flushing (07)	1,841	7.0	81.1	44.4	8.2	9.3	4.8	75.3	13.9	37.2
Fresh Meadows, Briarwood (08)	1,338	8.8	65.6	37.8	8.8	8.8	6.9	64.0	20.2	41.9
Woodhaven (09)	1,513	10.6	71.9	40.3	11.6	11.7	8.2	72.8	24.3	46.5
Howard Beach (10)	1,092	9.0	65.9	42.3	12.5	12.8	8.3	62.1	22.8	40.4
Bayside (11)	465	4.0	66.9	48.0	9.9	9.0	3.3	47.4	16.1	40.9
Jamaica, St. Albans (12)	2,489	11.0	67.0	40.9	13.2	12.1	11.9	71.3	30.7	45.2
Queens Village (13)	1,259	6.7	64.4	44.7	11.7	10.7	9.3	62.7	32.0	39.3
The Rockaways (14)	948	8.7	37.9	33.8	13.7	12.2	11.9	69.5	28.6	31.6
STATEN ISLAND	**4,886**	**9.9**	**39.3**	**38.0**	**8.6**	**9.6**	**2.8**	**48.2**	**23.3**	**26.2**
Port Richmond (01)	1,995	10.5	42.1	35.0	10.2	10.6	3.5	61.2	28.1	23.4
Willowbrook, South Beach (02)	1,351	9.5	47.9	38.2	8.2	9.5	2.7	52.0	18.3	27.2
Tottenville (03)	1,530	9.7	28.4	41.7	7.0	8.2	1.9	28.4	21.6	28.6
NEW YORK CITY RESIDENTS	**86,747**	**10.4**	**49.9**	**41.7**	**9.1**	**9.4**	**8.1**	**60.9**	**21.9**	**39.8**
NON-RESIDENTS	**12,708**	**.**	**35.6**	**42.2**	**9.7**	**10.6**	**5.1**	**29.6**	**17.6**	**44.1**
RESIDENCE UNKNOWN	**4**	**.**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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.

Table PO8. Live Births by Mother's Birthplace and Borough of Residence, New York City, 2022

		Borough of Residence						
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
United States	51,645	8,078	6,733	18,872	6,817	2,962	8,181	2
United States (excluding Puerto Rico)	51,109	8,022	6,464	18,799	6,747	2,938	8,137	2
Puerto Rico	536	56	269	73	70	24	44	-
Dominican Republic	6,312	867	3,416	766	768	61	434	-
China	4,144	430	39	1,336	1,564	306	469	-
Mexico	2,790	278	699	780	727	227	79	-
Ecuador	2,734	85	344	538	1,615	42	110	-
Bangladesh	2,558	51	531	518	1,353	11	94	-
Jamaica	1,754	39	397	567	481	18	252	-
Guyana	1,431	10	78	401	815	9	118	-
Uzbekistan	1,319	16	1	933	277	47	45	-
Pakistan	1,267	45	79	530	303	106	204	-
India	1,197	201	31	76	469	32	388	-
Yemen	1,110	86	311	468	175	36	34	-
Haiti	1,078	27	25	644	231	7	144	-
Guatemala	1,052	14	142	457	344	40	55	-
Honduras	876	47	365	169	206	37	52	-
Colombia	813	57	49	130	479	20	78	-
Russia	700	131	10	348	86	54	71	-
El Salvador	665	21	76	134	336	13	85	-
Israel	649	121	4	322	70	21	111	-
Ukraine	647	58	1	397	57	68	66	-
Canada	603	155	13	285	41	8	101	-
Ghana	597	20	441	50	23	20	43	-
Trinidad and Tobago	515	16	20	252	174	11	42	-
Phillippines	503	43	22	62	248	27	101	-
Other or Not Stated	12,500	2,193	1,779	3,769	2,704	703	1,351	1
Total	**99,459**	**13,089**	**15,606**	**32,804**	**20,363**	**4,886**	**12,708**	**3**

Table PO9. Live Births by Mother's Birthplace and Age, New York City, 2022

		Age Group (Years)						
Birthplace	Total	<20	20-24	25-29	30-34	35-39	≥40	Not Stated
United States	51,645	1,250	7,958	11,179	16,233	11,579	3,446	-
United States (excluding Puerto Rico)	51,109	1,234	7,881	11,034	16,082	11,469	3,409	-
Puerto Rico	536	16	77	145	151	110	37	-
Dominican Republic	6,312	219	1,150	1,692	1,814	1,075	362	-
China	4,144	4	139	849	1,831	1,033	288	-
Mexico	2,790	46	305	593	820	756	270	-
Ecuador	2,734	114	488	688	735	508	201	-
Bangladesh	2,558	1	334	867	837	409	110	-
Jamaica	1,754	21	215	376	517	471	154	-
Guyana	1,431	24	179	435	400	278	115	-
Uzbekistan	1,319	37	262	428	334	214	44	-
Pakistan	1,267	6	113	403	455	238	52	-
India	1,197	3	35	211	481	381	86	-
Yemen	1,110	60	279	282	279	155	55	-
Haiti	1,078	4	86	201	352	308	127	-
Guatemala	1,052	71	237	262	275	166	41	-
Honduras	876	42	196	224	203	164	47	-
Colombia	813	20	107	199	233	184	70	-
Russia	700	2	24	83	255	265	71	-
El Salvador	665	21	125	169	178	130	42	-
Israel	649	2	100	116	161	191	79	-
Ukraine	647	0	29	113	261	195	49	-
Canada	603	3	40	95	191	210	64	-
Ghana	597	-	27	112	216	177	65	-
Trinidad and Tobago	515	6	23	91	147	186	62	-
Phillippines	503	-	13	70	160	192	68	-
Other or Not Stated	12,500	70	776	2,284	4,090	3,863	1,417	-
Total	**99,459**	**2,026**	**13,240**	**22,022**	**31,458**	**23,328**	**7,385**	**-**

Table PO10. Live Births and Pregnancy Rates* to Teenagers (Age 15-19 Years) by Racial/Ethnic Group and Borough of Residence, New York City, 2022

	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	499	36	1,134	1,669	127,432	3.9	13.1
	18-19	1,527	105	2,420	4,052	94,257	16.2	43.0
	15-19	2,026	141	3,554	5,721	221,689	9.1	25.8
Racial/Ethnic Group‡								
Hispanic/Latino	15-17	329	14	433	776	46,049	7.1	16.9
	18-19	896	36	934	1,866	32,920	27.2	56.7
	15-19	1,225	50	1,367	2,642	78,969	15.5	33.5
Asian and Pacific Islander	15-17	9	-	29	38	16,027	0.6	2.4
	18-19	41	5	69	115	12,449	3.3	9.2
	15-19	50	5	98	153	28,476	1.8	5.4
Non-Hisp./Lat. White	15-17	28	2	62	92	32,665	0.9	2.8
	18-19	229	8	137	374	25,364	9.0	14.7
	15-19	257	10	199	466	58,029	4.4	8.0
Non-Hisp./Lat. Black	15-17	123	12	422	557	29,108	4.2	19.1
	18-19	334	31	853	1,218	20,694	16.1	58.9
	15-19	457	43	1,275	1,775	49,802	9.2	35.6
Racial/Ethnic Group§								
Hispanic/Latino	15-17	324	12	384	720	46,049	7.0	15.6
	18-19	859	35	873	1,767	32,920	26.1	53.7
	15-19	1,183	47	1,257	2,487	78,969	15.0	31.5
Asian and Pacific Islander	15-17	7	-	24	31	16,027	0.4	1.9
	18-19	36	5	61	102	12,449	2.9	8.2
	15-19	43	5	85	133	28,476	1.5	4.7
Non-Hisp./Lat. White	15-17	26	2	52	80	32,665	0.8	2.4
	18-19	190	8	121	319	25,364	7.5	12.6
	15-19	216	10	173	399	58,029	3.7	6.9
Non-Hisp./Lat. Black	15-17	123	12	391	526	29,108	4.2	18.1
	18-19	316	29	793	1,138	20,694	15.3	55.0
	15-19	439	41	1,184	1,664	49,802	8.8	33.4
Borough of Residence								
Manhattan	15-17	42	8	147	197	17,334	2.4	11.4
	18-19	131	16	275	422	20,236	6.5	20.9
	15-19	173	24	422	619	37,570	4.6	16.5
Bronx	15-17	157	6	268	431	26,238	6.0	16.4
	18-19	419	18	600	1,037	18,550	22.6	55.9
	15-19	576	24	868	1,468	44,788	12.9	32.8
Brooklyn	15-17	152	6	335	493	41,379	3.7	11.9
	18-19	485	19	725	1,229	26,939	18.0	45.6
	15-19	637	25	1,060	1,722	68,318	9.3	25.2
Queens	15-17	114	11	217	342	33,470	3.4	10.2
	18-19	333	39	554	926	22,861	14.6	40.5
	15-19	447	50	771	1,268	56,331	7.9	22.5
Staten Island	15-17	24	3	43	70	9,011	2.7	7.8
	18-19	60	9	74	143	5,671	10.6	25.2
	15-19	84	12	117	213	14,682	5.7	14.5
NYC Events to NYC Residents	15-17	489	34	1,010	1,533	127,432	3.8	12.0
	18-19	1,428	101	2,228	3,757	94,257	15.2	39.9
	15-19	1,917	135	3,238	5,290	221,689	8.6	23.9
NYC Events to Non-NYC Residents	15-17	10	2	124	136	-	N.A.	N.A.
	18-19	99	4	192	295	-	N.A.	N.A.
	15-19	109	6	316	431	-	N.A.	N.A.

*Population data used to calculate rates are 2022 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.

Table PO11. Live Births to Teenagers (Age <20 Years), Overall and by Selected Characteristics, New York City, 2018-2022

	2018	2019	2020	2021	2022
Total Live Births	**114,296**	**110,442**	**100,022**	**99,262**	99,459
Percent to Teenagers (Age <20)	2.5	2.4	2.3	2.1	2.0
Population* (Females Age 15-19)	220,948	218,164	233,966	227,558	221,689
Birth Rate† (Age 15-19)	13.1	12.3	9.6	9.4	9.1
Births to Teenagers	2,892	2,676	2,256	2,131	2,026
Percent of Births with Specified Characteristics:					
Hispanic/Latino	59.3	59.1	59.2	62.2	63.0
Foreign-born‡	34.2	35.2	34.0	36.7	38.1
First Live Birth	87.7	88.5	89.1	88.8	90.0
<2,500 grams	9.5	10.1	11.2	10.4	10.8
Preterm§	9.3	10.4	10.0	11.1	10.0
Prenatal Care in First or Second Trimester of Pregnancy	84.4	82.6	84.7	82.5	81.0
Not Married	86.9	86.1	85.5	87.9	83.7
On Medicaid‖	90.2	89.2	87.9	88.2	89.0
Pre-pregnancy Obesity	15.2	15.7	15.7	16.4	15.4
Infant Mortality Rate¶	**4.1**	**6.7**	**5.8**	**7.5**	**6.4**

* For denominator information, see Technical Notes: Population.
† Births to women age <20 years per 1,000 female population ages 15 to 19. See Technical Notes: Vital Event Rates.
‡ See Technical Notes: Geographical Units, Birthplace Presentation
§ Clinical gestational age <37 completed weeks.
‖ See Technical Notes: Births, Birth Reporting.
¶ Infant mortality rate per 1,000 live births to teenagers.

PREGNANCY OUTCOMES

Table PO12. Live Births to Teenagers (Age <20 Years) by Selected Characteristics and by Community District of Residence, New York City, 2020-2022*

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	**6,413**	**2.1**	**36.2**	**89.3**	**10.8**	**10.4**	**17.2**	**85.8**	**88.0**	**28.1**
MANHATTAN	**569**	**1.4**	**29.8**	**91.7**	**13.0**	**12.0**	**19.3**	**92.6**	**85.3**	**27.3**
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)	3	0.2	0.0	33.3	0.0	0.0	0.0	100.0	100.0	33.3
Lower East Side (03)	54	2.1	14.8	92.6	13.0	11.1	13.3	98.1	84.6	46.3
Chelsea, Clinton (04)	18	0.7	22.2	94.4	22.2	16.7	20.0	94.4	83.3	22.2
Midtown Business District (05)	11	0.8	45.5	81.8	9.1	18.2	14.3	90.9	90.9	27.3
Murray Hill (06)	9	0.3	33.3	100.0	22.2	22.2	25.0	100.0	75.0	55.6
Upper West Side (07)	28	0.5	22.2	85.7	17.9	21.4	8.3	96.4	92.6	25.0
Upper East Side (08)	10	0.2	30.0	100.0	30.0	20.0	22.2	90.0	77.8	11.1
Manhattanville (09)	89	3.7	34.8	93.3	7.9	7.9	35.0	84.3	88.4	34.8
Central Harlem (10)	92	2.5	17.4	92.4	12.0	9.8	18.6	91.3	71.7	34.8
East Harlem (11)	115	3.3	11.3	93.0	13.9	13.0	13.0	97.4	82.3	25.2
Washington Heights (12)	137	2.8	58.1	91.2	12.4	11.7	19.8	92.0	94.9	11.8
BRONX	**1,955**	**4.1**	**37.7**	**89.2**	**10.4**	**9.8**	**19.0**	**92.8**	**90.0**	**23.9**
Mott Haven (01)	187	5.0	28.0	89.8	8.6	9.1	14.9	95.2	81.1	46.2
Hunts Point (02)	119	5.9	27.1	88.2	11.8	9.2	17.4	92.4	92.4	26.9
Morrisania (03)	158	4.5	20.9	88.6	9.5	10.8	19.9	96.8	88.5	24.1
Concourse, Highbridge (04)	244	4.4	45.7	91.8	9.4	11.5	24.3	93.0	92.5	21.3
University/Morris Heights (05)	235	4.8	47.2	87.2	9.4	7.7	21.4	94.9	92.8	18.7
East Tremont (06)	163	4.9	34.4	85.3	14.1	11.0	13.6	94.5	87.7	19.8
Fordham (07)	188	3.7	44.1	93.1	10.1	7.4	16.5	92.0	93.0	19.7
Riverdale (08)	51	1.9	58.8	92.2	5.9	3.9	19.6	92.2	100.0	17.6
Unionport, Soundview (09)	292	4.6	42.5	88.7	11.0	11.3	20.1	91.8	90.7	24.7
Throgs Neck (10)	69	2.6	33.3	88.4	4.3	5.8	17.6	92.8	84.1	20.3
Pelham Parkway (11)	86	2.4	40.7	87.2	14.0	16.3	19.0	75.6	88.4	19.8
Williamsbridge (12)	163	3.8	28.2	90.2	13.5	9.8	18.9	93.9	90.2	20.9
BROOKLYN	**2,010**	**2.0**	**30.6**	**88.8**	**10.3**	**9.7**	**14.6**	**77.3**	**87.8**	**24.7**
Williamsburg, Greenpoint (01)	127	1.2	12.6	94.4	7.9	7.1	12.9	44.9	85.0	36.2
Fort Greene, Brooklyn Heights (02)	23	0.5	17.4	87.0	21.7	21.7	8.7	95.7	87.0	17.4
Bedford Stuyvesant (03)	159	2.5	19.9	89.3	6.9	8.2	10.4	83.6	85.2	22.8
Bushwick (04)	159	5.4	42.6	85.5	10.1	13.8	21.7	92.5	85.4	29.6
East New York (05)	259	4.1	35.3	89.6	8.9	10.8	17.8	92.7	90.7	24.4
Park Slope (06)	24	0.6	16.7	95.7	12.5	8.3	8.3	79.2	95.8	33.3
Sunset Park (07)	108	2.5	50.9	83.3	9.3	8.3	7.8	88.9	96.3	25.5
Crown Heights North (08)	70	2.2	15.9	85.7	18.6	15.7	16.1	98.6	92.8	21.4
Crown Heights South (09)	44	1.2	27.3	86.4	20.5	20.5	9.5	84.1	79.1	34.1
Bay Ridge (10)	49	1.2	45.8	89.6	6.1	4.1	13.0	75.5	93.9	20.4
Bensonhurst (11)	121	1.9	64.5	83.5	9.9	9.9	10.0	71.1	93.4	26.4
Borough Park (12)	200	1.4	18.0	95.5	7.0	5.5	6.1	33.5	85.0	29.5
Coney Island (13)	85	2.8	29.8	89.4	10.6	10.6	26.5	81.2	92.7	24.7
Flatbush, Midwood (14)	93	1.5	38.7	86.0	10.8	11.8	11.8	72.0	89.2	26.9
Sheepshead Bay (15)	89	1.4	34.8	90.9	10.1	7.9	12.6	40.4	77.5	31.8
Brownsville (16)	190	6.1	18.4	87.4	13.2	10.0	21.9	97.9	89.3	12.7
East Flatbush (17)	114	2.6	33.3	87.7	12.3	9.6	18.8	91.2	84.8	14.3
Canarsie (18)	96	1.7	21.1	89.5	12.5	5.2	15.8	84.4	81.7	12.0
QUEENS	**1,307**	**2.1**	**50.2**	**89.4**	**9.9**	**10.6**	**20.2**	**88.7**	**89.4**	**43.6**
Astoria, Long Island City (01)	61	1.2	29.5	90.2	6.6	14.8	18.6	83.6	90.2	32.8
Sunnyside, Woodside (02)	32	0.8	53.1	90.6	6.3	6.3	9.7	93.8	96.9	43.8
Jackson Heights (03)	187	3.5	59.9	86.1	9.6	11.8	27.9	92.5	95.7	41.8
Elmhurst, Corona (04)	174	3.2	54.6	89.1	7.5	11.5	18.1	93.1	91.9	52.9
Ridgewood, Glendale (05)	97	2.1	54.6	94.8	4.1	3.1	21.5	89.7	87.4	35.1
Rego Park, Forest Hills (06)	21	0.6	71.4	95.2	0.0	4.8	10.0	61.9	90.5	42.9
Flushing (07)	82	1.5	65.9	89.0	6.1	4.9	14.8	90.2	90.2	53.7
Fresh Meadows, Briarwood (08)	39	1.0	48.7	92.3	15.4	10.3	13.5	82.1	87.2	38.5
Woodhaven (09)	134	2.9	53.7	86.6	8.2	12.7	17.3	79.9	90.9	55.2
Howard Beach (10)	57	1.7	64.9	96.5	10.5	7.0	18.5	71.9	80.7	45.6
Bayside (11)	8	0.6	50.0	75.0	0.0	0.0	12.5	87.5	100.0	37.5
Jamaica, St. Albans (12)	227	3.1	41.9	87.2	13.7	11.0	23.6	90.7	83.7	46.3
Queens Village (13)	80	2.0	47.5	90.0	16.3	15.0	17.7	88.8	80.0	41.3
The Rockaways (14)	108	3.7	25.0	93.5	15.0	14.0	21.1	97.2	94.3	20.4
STATEN ISLAND	**265**	**1.8**	**20.2**	**86.4**	**14.0**	**11.7**	**5.8**	**92.5**	**82.6**	**16.7**
Port Richmond (01)	198	3.3	18.8	85.4	14.6	13.1	5.7	97.0	87.4	15.2
Willowbrook, South Beach (02)	47	1.2	26.1	85.1	10.6	4.3	2.2	78.7	76.6	23.4
Tottenville (03)	19	0.4	21.1	100.0	15.8	15.8	15.8	84.2	52.6	11.1
NEW YORK CITY RESIDENTS	**6,106**	**2.3**	**36.6**	**89.3**	**10.7**	**10.2**	**17.2**	**86.8**	**88.4**	**28.4**
NON-RESIDENTS	**307**	**0.8**	**29.1**	**89.9**	**13.4**	**13.4**	**16.1**	**65.5**	**80.1**	**22.8**
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.

PREGNANCY OUTCOMES

Table PO13. Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy, Overall and by Borough Of Residence and Woman's Age, New York City, 2022*

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	**151,072**	**1,669**	**4,052**	**25,524**	**36,025**	**43,076**	**30,472**	**10,254**	**-**
Live Births	99,459	499	1,527	13,240	22,022	31,458	23,328	7,385	-
Spontaneous Terminations	5,240	36	105	536	936	1,478	1,411	738	-
Induced Terminations	46,373	1,134	2,420	11,748	13,067	10,140	5,733	2,131	-
MANHATTAN	**20,595**	**197**	**422**	**2,597**	**4,026**	**6,510**	**5,057**	**1,786**	**-**
Live Births	13,089	42	131	886	1,913	4,763	3,995	1,359	-
Spontaneous Terminations	863	8	16	59	121	273	247	139	-
Induced Terminations	6,643	147	275	1,652	1,992	1,474	815	288	-
BRONX	**26,577**	**431**	**1,037**	**5,524**	**7,245**	**6,831**	**4,173**	**1,336**	**-**
Live Births	15,606	157	419	2,750	4,250	4,439	2,756	835	-
Spontaneous Terminations	1,008	6	18	128	214	258	253	131	-
Induced Terminations	9,963	268	600	2,646	2,781	2,134	1,164	370	-
BROOKLYN	**47,853**	**493**	**1,229**	**9,138**	**11,758**	**12,705**	**9,395**	**3,135**	**-**
Live Births	32,804	152	485	5,557	7,518	9,346	7,379	2,367	-
Spontaneous Terminations	1,118	6	19	129	204	288	312	160	-
Induced Terminations	13,931	335	725	3,452	4,036	3,071	1,704	608	-
QUEENS	**31,732**	**342**	**926**	**5,216**	**8,056**	**9,056**	**6,010**	**2,126**	**-**
Live Births	20,363	114	333	2,490	5,031	6,535	4,442	1,418	-
Spontaneous Terminations	1,325	11	39	158	253	369	316	179	-
Induced Terminations	10,044	217	554	2,568	2,772	2,152	1,252	529	-
STATEN ISLAND	**6,452**	**70**	**143**	**831**	**1,526**	**2,175**	**1,322**	**385**	**-**
Live Births	4,886	24	60	463	1,156	1,800	1,087	296	-
Spontaneous Terminations	237	3	9	19	37	82	58	29	-
Induced Terminations	1,329	43	74	349	333	293	177	60	-
NON-RESIDENTS	**17,859**	**136**	**295**	**2,218**	**3,411**	**5,799**	**4,515**	**1,485**	**-**
Live Births	12,708	10	99	1,094	2,152	4,575	3,669	1,109	-
Spontaneous Terminations	688	2	4	43	106	208	225	100	-
Induced Terminations	4,463	124	192	1,081	1,153	1,016	621	276	-
RESIDENCE UNKNOWN	**4**	**-**	**-**	**-**	**3**	**-**	**-**	**1**	**-**
Live Births	3	-	-	-	2	-	-	1	-
Spontaneous Terminations	1	-	-	-	1	-	-	-	-
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, 2022

		Age Group (Years)						
Gestational Age (Weeks)	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**5,240**	**36**	**105**	**536**	**936**	**1,478**	**1,411**	**738**
<13	3,749	24	80	375	627	1,019	1,051	573
13-15	364	4	2	28	69	110	102	49
16-19	424	3	8	32	96	138	103	44
20-27	418	4	11	57	89	116	98	43
≥28	285	1	4	44	55	95	57	29

*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, 2022

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**285**	**1**	**4**	**44**	**55**	**95**	**57**	**29**
Sex								
Male	152	-	2	24	36	53	23	14
Female	125	1	2	19	18	42	31	12
Undetermined	8	-	-	1	1	-	3	3
Weight at Delivery (Grams)								
<500	3	-	-	1	-	-	1	1
500-999	15	-	-	1	3	4	4	3
1,000-1,499	48	-	1	6	12	15	8	6
1,500-1,999	40	-	2	8	10	10	6	4
2,000-2,499	53	-	-	8	4	21	14	6
≥2,500	111	-	1	17	24	42	21	6
Not stated	15	1	-	3	2	3	3	3

*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, 2022

		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	**285**	**8**	**60**	**30**	**75**	**80**	**4**	**28**
Sex								
Male	152	2	36	16	42	41	2	13
Female	125	6	21	14	31	38	2	13
Undetermined	8	-	3	-	2	1	-	2
Weight at Delivery (Grams)								
<500	3	-	-	-	2	-	-	1
500-999	15	.	5	1	2	7	-	.
1,000-1,499	48	1	7	8	13	15	2	2
1,500-1,999	40	1	11	2	7	15	-	4
2,000-2,499	53	1	11	3	20	12	1	5
≥2,500	111	3	22	16	26	28	1	15
Not stated	15	2	4	-	5	3	-	1

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

PREGNANCY OUTCOMES

Table PO17. Live Births, Spontaneous Terminations of ≥ 28 Weeks Gestation*, and Induced Terminations of Pregnancy* by Borough of Residence and Occurrence, New York City, 2022

Borough of Residence/ Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	**146,117**	**57,502**	**18,271**	**33,134**	**31,198**	**6,012**
Live Births	99,459	39,320	11,048	23,318	20,109	5,664
Spontaneous Terminations	285	101	50	71	47	16
Induced Terminations	46,373	18,081	7,173	9,745	11,042	332
MANHATTAN	**19,763**	**17,485**	**1,019**	**687**	**551**	**21**
Live Births	13,089	12,539	255	166	116	13
Spontaneous Terminations	31	29	2	-	-	-
Induced Terminations	6,643	4,917	762	521	435	8
BRONX	**25,639**	**8,563**	**15,667**	**680**	**702**	**27**
Live Births	15,606	5,273	9,918	158	237	20
Spontaneous Terminations	70	22	45	2	-	1
Induced Terminations	9,963	3,268	5,704	520	465	6
BROOKLYN	**46,826**	**14,334**	**299**	**27,562**	**3,250**	**1,381**
Live Births	32,804	9,512	103	20,492	1,361	1,336
Spontaneous Terminations	91	22	-	64	1	4
Induced Terminations	13,931	4,800	196	7,006	1,888	41
QUEENS	**30,461**	**6,333**	**268**	**1,995**	**21,769**	**96**
Live Births	20,363	4,167	104	1,186	14,827	79
Spontaneous Terminations	54	6	1	5	41	1
Induced Terminations	10,044	2,160	163	804	6,901	16
STATEN ISLAND	**6,224**	**911**	**23**	**1,173**	**114**	**4,003**
Live Births	4,886	342	9	747	40	3,748
Spontaneous Terminations	9	-	-	-	-	9
Induced Terminations	1,329	569	14	426	74	246
NON-RESIDENTS	**17,201**	**9,876**	**993**	**1,037**	**4,811**	**484**
Live Births	12,708	7,487	657	569	3,527	468
Spontaneous Terminations	30	22	2	-	5	1
Induced Terminations	4,463	2,367	334	468	1,279	15
RESIDENCE UNKNOWN	**3**	**-**	**2**	**-**	**1**	**-**
Live Births	3	-	2	-	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, 2022

	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Induced Termination of Pregnancy, All	**46,373**	**1,134**	**2,420**	**11,748**	**13,067**	**10,140**	**5,733**	**2,131**	**-**
Racial/Ethnic Group									
Hispanic/Latino	13,255	433	934	3,861	3,540	2,585	1,443	459	-
Asian and Pacific Islander	2,358	29	69	482	631	575	395	177	-
Non-Hispanic/Latino White	4,645	62	137	886	1,334	1,135	748	343	-
Non-Hispanic/Latino Black	16,878	422	853	4,276	4,927	3,773	1,922	705	-
Other	2,242	63	131	606	678	455	229	80	-
Unknown	6,995	125	296	1,637	1,957	1,617	996	367	-
Marital Status									
Married	5,459	18	43	473	1,180	1,643	1,417	685	-
Not married	27,726	809	1,718	7,987	8,149	5,581	2,655	827	-
Other/Unknown	13,188	307	659	3,288	3,738	2,916	1,661	619	-
Gestational Age (Weeks)									
≤6	19,371	363	917	4,742	5,696	4,366	2,327	960	-
7 - 8	13,793	325	726	3,588	3,944	2,983	1,672	555	-
9 - 10	5,793	168	340	1,538	1,587	1,217	722	221	-
11 - 12	2,463	74	129	670	670	509	311	100	-
13 - 15	2,151	71	128	516	552	428	327	129	-
16 - 20	1,726	71	124	437	373	389	221	111	-
≥21	1,054	62	55	250	241	243	150	53	-
Unknown	22	-	1	7	4	5	3	2	-
Type of Primary Termination Procedure									
Suction curettage	21,530	468	1,000	5,131	6,149	4,888	2,782	1,112	-
Sharp curettage / D+C	842	24	35	177	212	188	150	56	-
Dilation and evacuation	4,616	178	258	1,173	1,159	993	612	243	-
Intrauterine instillation	98	5	6	15	23	26	15	8	-
Hysterotomy / hysterectomy	16	0	2	5	4	2	2	1	-
Medication (not procedural)	19,228	458	1,117	5,242	5,511	4,030	2,161	709	-
Other	43	1	2	5	9	13	11	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, 2018-2022*

	2018	2019	2020	2021	2022
Marital Status (Percent)					
Married	15.9	16.6	15.1	13.4	11.8
Not married	70.2	73.4	72.3	65.8	59.8
Other/Unknown	13.9	10.0	12.6	20.8	28.4
Age Group (Years)					
<20	4,092	4,161	2,989	2,901	3,554
20 - 24	12,833	12,471	9,339	9,522	11,748
25 - 29	14,259	14,159	10,729	10,433	13,067
30 - 34	10,238	10,414	8,114	8,385	10,140
35 - 39	6,047	6,260	4,562	4,821	5,733
≥40	2,288	2,318	1,790	1,751	2,131
Unknown	2	1	-	-	-
Racial/Ethnic Group					
Hispanic/Latino	14,114	13,112	9,719	10,753	13,255
Asian and Pacific Islander	2,998	3,188	1,626	1,876	2,358
Non-Hispanic/Latino White	6,593	6,414	3,941	3,652	4,645
Non-Hispanic/Latino Black	17,252	17,665	14,043	14,959	16,878
Other	949	1,926	997	1,913	2,242
Unknown	7,853	7,479	7,197	4,660	6,995
Total	**49,759**	**49,784**	**37,523**	**37,813**	**46,373**

*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, 2013 and 2022

	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
Birth Characteristics	2022	2013	Change 2013 to 2022 (%)	2022	2013	Change 2013 to 2022 (%)	2022	2013	Change 2013 to 2022 (%)	2022	2013	Change 2013 to 2022 (%)
Births	26,922	24,305	10.8	27,506	29,619	-7.1	13,989	25,800	-45.8	18,306	30,828	-40.6
Population	2,974,999	2,411,507	23.4	2,751,192	2,437,532	12.9	1,285,011	1,742,735	-26.3	1,316,023	1,814,063	-27.5
Birth Rate (per 1,000 pop.)	9.0	10.1	-10.2	10.0	12.2	-17.7	10.9	14.8	-26.5	13.9	17.0	-18.1
Preterm Live Births (%)	9.1	8.5	7.1	9.3	8.8	5.7	10.0	8.7	14.9	9.5	9.2	3.3
Low Birth Weight (%)	8.7	8.1	7.4	9.0	8.1	11.1	9.7	8.4	15.5	9.3	8.7	6.9
Body Mass Indicator												
Normal (%)	53.6	64.1	-16.4	46.9	55.7	-15.8	40.6	49.9	-18.6	41.0	46.6	-12.0
Overweight/Obese (%)	41.7	29.8	39.9	49.1	38.5	27.5	55.4	45.0	23.1	54.6	48.2	13.3
C-section (%)	34.1	35.1	-2.8	32.9	33.7	-2.4	33.4	32.4	3.1	27.8	29.5	-5.8
Multiple Births (%)	3.1	5.1	-39.2	3.0	3.5	-14.3	3.2	3.1	3.2	3.0	3.2	-6.3
Breastfed Exclusively (%)	48.1	41.0	17.3	41.0	33.3	23.1	33.9	28.3	19.8	30.4	24.8	22.6
Late or No Prenatal Care (%)	5.9	4.3	37.2	8.1	7.5	8.0	10.2	9.2	10.9	9.7	9.3	4.3
Foreign-born (%)‡	48.2	43.6	10.6	56.3	60.0	-6.2	56.2	59.6	-5.7	37.7	46.3	-18.6

*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, 2022

	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	2,026	9.1	141	0.6	3,554	16.0	5,721	25.8
	20-29	35,262	57.4	1,472	2.4	24,815	40.4	61,549	100.2
	30-39	54,786	82.8	2,889	4.4	15,873	24.0	73,548	111.2
	40-49	7,385	13.9	738	1.4	2,131	4.0	10,254	19.3
	Total	**99,459**	**11.9**	**5,240**	**3.0**	**46,373**	**26.2**	**151,072**	**85.2**
Racial/Ethnic Group§‖									
Hispanic/Latino	15-19	1,225	15.5	50	0.6	1,367	17.3	2,642	33.5
	20-29	12,942	71.6	458	2.5	7,401	41.0	20,801	115.1
	30-39	13,453	74.5	561	3.1	4,028	22.3	18,042	100.0
	40-49	1,644	10.5	172	1.1	459	2.9	2,275	14.5
	Total	**29,264**	**12.1**	**1,241**	**2.4**	**13,255**	**25.5**	**43,760**	**84.0**
Asian and Pacific Islander	15-19	50	1.8	5	0.2	98	3.4	153	5.4
	20-29	4,063	42.9	97	1.0	1,113	11.8	5,273	55.7
	30-39	9,703	84.4	270	2.3	970	8.4	10,943	95.2
	40-49	1,196	12.5	66	0.7	177	1.8	1,439	15.0
	Total	**15,012**	**11.5**	**438**	**1.5**	**2,358**	**8.2**	**17,808**	**62.1**
Non-Hispanic/Latino White	15-19	257	4.4	10	0.2	199	3.4	466	8.0
	20-29	10,897	56.5	271	1.4	2,220	11.5	13,388	69.4
	30-39	21,592	101.1	782	3.7	1,883	8.8	24,257	113.5
	40-49	3,022	20.1	172	1.1	343	2.3	3,537	23.6
	Total	**35,768**	**13.7**	**1,235**	**2.3**	**4,645**	**8.5**	**41,648**	**76.6**
Non-Hispanic/Latino Black	15-19	457	9.2	43	0.9	1,275	25.6	1,775	35.6
	20-29	6,657	51.2	340	2.6	9,203	70.8	16,200	124.6
	30-39	8,846	63.8	599	4.3	5,695	41.0	15,140	109.1
	40-49	1,347	11.2	166	1.4	705	5.9	2,218	18.5
	Total	**17,307**	**9.5**	**1,148**	**3.0**	**16,878**	**44.5**	**35,333**	**93.1**
Borough of Residence¶									
Manhattan	15-19	173	4.6	24	0.6	422	11.2	619	16.5
	20-29	2,799	18.8	180	1.2	3,644	24.4	6,623	44.4
	30-39	8,758	62.1	520	3.7	2,289	16.2	11,567	82.0
	40-49	1,359	13.8	139	1.4	288	2.9	1,786	18.1
	Total	**13,089**	**8.2**	**863**	**2.3**	**6,643**	**17.5**	**20,595**	**54.3**
Bronx	15-19	576	12.9	24	0.5	868	19.4	1,468	32.8
	20-29	7,000	70.1	342	3.4	5,427	54.3	12,769	127.8
	30-39	7,195	70.4	511	5.0	3,298	32.3	11,004	107.7
	40-49	835	9.4	131	1.5	370	4.2	1,336	15.1
	Total	**15,606**	**11.3**	**1,008**	**3.4**	**9,963**	**34.1**	**26,577**	**90.9**
Brooklyn	15-19	637	9.3	25	0.4	1,060	15.5	1,722	25.2
	20-29	13,075	68.6	333	1.7	7,488	39.3	20,896	109.6
	30-39	16,725	75.9	600	2.7	4,775	21.7	22,100	100.3
	40-49	2,367	14.2	160	1.0	608	3.6	3,135	18.8
	Total	**32,804**	**12.7**	**1,118**	**2.0**	**13,931**	**24.6**	**47,853**	**84.4**
Queens	15-19	447	7.9	50	0.9	771	13.7	1,268	22.5
	20-29	7,521	52.0	411	2.8	5,340	36.9	13,272	91.7
	30-39	10,977	66.3	685	4.1	3,404	20.6	15,066	91.0
	40-49	1,418	9.6	179	1.2	529	3.6	2,126	14.5
	Total	**20,363**	**8.9**	**1,325**	**3.0**	**10,044**	**22.8**	**31,732**	**71.9**
Staten Island	15-19	84	5.7	12	0.8	117	8.0	213	14.5
	20-29	1,619	54.2	56	1.9	682	22.8	2,357	78.9
	30-39	2,887	88.7	140	4.3	470	14.4	3,497	107.5
	40-49	296	9.5	29	0.9	60	1.9	385	12.4
	Total	**4,886**	**9.9**	**237**	**2.6**	**1,329**	**14.3**	**6,452**	**69.7**

Population data used to calculate rates are 2022 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	2018	2019	2020	2021	2022
1	Mary	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Isabella	Emma	Emma	Emma	Emma	Emma
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Sophia	Isabella	Olivia	Sophia	Olivia	Mia
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Olivia	Sophia	Sophia	Mia	Mia	Olivia
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Emily	Mia	Mia	Olivia	Sophia	Sophia
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Madison	Olivia	Isabella	Isabella	Leah	Leah
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Mia	Ava	Leah	Ava	Ava	Ava
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Emma	Leah	Ava	Leah	Isabella	Esther
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Leah	Sarah	Chloe	Sarah	Amelia	Isabella
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Sarah	Amelia	Amelia	Chloe	Luna	Luna
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Chloe	Chloe	Charlotte	Amelia	Sofia	Amelia

Boys

Rank	1898	1928	1948	1980	1990	2000	2005	2010	2018	2019	2020	2021	2022
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	Ethan	Ethan	Jacob	Ethan	Ethan
4	George	James	Michael	Joseph	Anthony	Matthew	David	Jacob	Jacob	Jacob	Ethan	Lucas	Lucas
5	Joseph	Richard	William	Christopher	David	Daniel	Justin	David	Aiden	Lucas	Lucas	Jacob	David
6	Edward	Edward	Richard	Anthony	Daniel	Anthony	Matthew	Justin	David	Aiden	Joseph	Joseph	Jacob
7	James	Robert	Joseph	John	Joseph	Joshua	Anthony	Michael	Lucas	Daniel	David	David	Aiden
8	Louis	Thomas	Thomas	Daniel	Matthew	David	Christopher	Matthew	Matthew	Michael	Aiden	Daniel	Joseph
9	Francis	George	Stephen	Robert	John	Joseph	Joseph	Joseph	Daniel	David	Alexander	Aiden	Daniel
10	Samuel	Louis	David	James	Andrew	Kevin	Nicholas	Joshua	Alexander	Matthew	Daniel	Benjamin	Alexander

Table PO23. Most Popular Baby Names by Sex and Mother's Racial/Ethnic Group, New York City, 2022

	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	Olivia	Liam	Liam	Noah	Moshe	Muhammad
2	Mia	Camila*	Zuri	Leah	Chloe	Noah	Noah	Amir	David	Lucas
3	Olivia	Mia*	Nova	Rachel	Mia	Ethan	Ethan	Liam	Joseph	Ethan
4	Sophia	Luna	Amelia*	Chaya	Emma	Lucas	Sebastian	Elijah	Chaim	Aiden
5	Leah	Sophia	Fatoumata*	Miriam	Aria*	David	Lucas	Kairo	Jacob	Liam
6	Ava	Emma	Madison*	Olivia	Ava*	Jacob	Jacob	Zion	Jack	Ryan
7	Esther	Sofia**	Mia*	Emma	Evelyn	Aiden	Mateo	Josiah	Noah	Jasper
8	Isabella	Valentina**	Olivia*	Sarah	Charlotte	Joseph	Dylan	Aiden	James	Noah
9	Luna	Alaia	Serenity*	Charlotte	Amelia**	Daniel	Jayden	Jayden	Leo	Oliver
10	Amelia	Emily	Autumn	Sara	Sophia**	Alexander	Matthew	Ethan	Theodore	Jayden

* 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, 2018-2022

	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
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
2022	99,669	235	2.4	205	2.1	89	0.9	112	1.1	641	6.4
Woman's Racial/Ethnic Group, 2018-2022											
Puerto Rican	25,889	62	2.4	27	1.0	31	1.2	45	1.7	165	6.4
Hispanic/Latino (not Puerto Rican)	122,646	266	2.2	203	1.7	117	1.0	112	0.9	698	5.7
Asian and Pacific Islander	83,468	144	1.7	121	1.4	50	0.6	43	0.5	358	4.3
Non-Hispanic/Latino White	187,601	283	1.5	320	1.7	117	0.6	84	0.4	804	4.3
Non-Hispanic/Latino Black	94,644	499	5.3	326	3.4	99	1.0	205	2.2	1,129	11.9
Other or Unknown	10,524	95	-	123	-	9	-	12	-	239	-
NEW YORK CITY	**524,772**	**1,349**	**2.6**	**1,120**	**2.1**	**423**	**0.8**	**501**	**1.0**	**3,393**	**6.5**

*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, 2018-2022

	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	**73,121**	**135**	**1.8**	**127**	**1.7**	**33**	**0.5**	**43**	**0.6**	**338**	**4.6**
Battery Park, Tribeca (01)	4,725	6	1.3	7	1.5	1	0.2	-	0.0	14	3.0
Greenwich Village, SOHO (02)	3,059	3	1.0	1	0.3	-	0.0	-	-	4	1.3
Lower East Side (03)	4,766	5	1.0	9	1.9	4	0.8	6	1.3	24	5.0
Chelsea, Clinton (04)	4,485	9	2.0	8	1.8	-	0.0	2	0.4	19	4.2
Midtown Business District (05)	2,660	4	1.5	8	3.0	1	0.4	2	0.8	15	5.6
Murray Hill (06)	5,744	7	1.2	8	1.4	3	0.5	1	0.2	19	3.3
Upper West Side (07)	10,420	12	1.2	19	1.8	4	0.4	2	0.2	37	3.6
Upper East Side (08)	11,527	9	0.8	21	1.8	3	0.3	3	0.3	36	3.1
Manhattanville (09)	4,263	14	3.3	6	1.4	1	0.2	2	0.5	23	5.4
Central Harlem (10)	6,524	20	3.1	13	2.0	8	1.2	11	1.7	52	8.0
East Harlem (11)	6,327	25	4.0	12	1.9	6	0.9	10	1.6	53	8.4
Washington Heights (12)	8,621	21	2.4	15	1.7	2	0.2	4	0.5	42	4.9
BRONX	**84,367**	**306**	**3.6**	**223**	**2.6**	**91**	**1.1**	**120**	**1.4**	**740**	**8.8**
Mott Haven (01)	6,549	28	4.3	14	2.1	9	1.4	11	1.7	62	9.5
Hunts Point (02)	3,584	12	3.3	7	2.0	6	1.7	5	-	30	8.4
Morrisania (03)	6,355	18	2.8	19	3.0	8	1.3	13	2.0	58	9.1
Concourse, Highbridge (04)	9,969	39	3.9	36	3.6	6	0.6	20	2.0	101	10.1
University/Morris Heights (05)	9,030	25	2.8	21	2.3	6	0.7	15	1.7	67	7.4
East Tremont (06)	5,707	28	4.9	18	3.2	5	0.9	10	1.8	61	10.7
Fordham (07)	9,103	32	3.5	22	2.4	6	0.7	7	0.8	67	7.4
Riverdale (08)	4,774	13	2.7	9	1.9	6	1.3	3	0.6	31	6.5
Unionport, Soundview (09)	10,994	31	2.8	26	2.4	14	1.3	14	1.3	85	7.7
Throgs Neck (10)	4,558	18	3.9	9	2.0	6	1.3	2	0.4	35	7.7
Pelham Parkway (11)	6,185	20	3.2	17	2.7	9	1.5	8	1.3	54	8.7
Williamsbridge (12)	7,559	42	5.6	25	3.3	10	1.3	12	1.6	89	11.8
BROOKLYN	**173,818**	**428**	**2.5**	**392**	**2.3**	**128**	**0.7**	**160**	**0.9**	**1108**	**6.4**
Williamsburg, Greenpoint (01)	17,630	23	1.3	36	2.0	7	0.4	11	0.6	77	4.4
Fort Greene, Brooklyn Heights (02)	8,128	12	1.5	20	2.5	1	0.1	5	0.6	38	4.7
Bedford Stuyvesant (03)	10,608	25	2.4	32	3.0	7	0.7	15	1.4	79	7.4
Bushwick (04)	5,064	12	2.4	8	1.6	7	1.4	5	1.0	32	6.3
East New York (05)	11,375	58	5.1	27	2.4	13	1.1	20	1.8	118	10.4
Park Slope (06)	7,409	14	1.9	15	2.0	3	0.4	4	0.5	36	4.9
Sunset Park (07)	8,149	17	2.1	7	0.9	3	0.4	4	0.5	31	3.8
Crown Heights North (08)	5,643	26	4.6	10	1.8	1	0.2	5	0.9	42	7.4
Crown Heights South (09)	6,562	21	3.2	23	3.5	10	1.5	10	1.5	64	9.8
Bay Ridge (10)	7,380	14	1.9	13	1.8	5	0.7	3	0.4	35	4.7
Bensonhurst (11)	11,369	13	1.1	17	1.5	11	1.0	5	0.4	46	4.0
Borough Park (12)	24,124	33	1.4	52	2.2	14	0.6	11	0.5	110	4.6
Coney Island (13)	5,448	16	2.9	12	2.2	4	0.7	9	1.7	41	7.5
Flatbush, Midwood (14)	11,042	23	2.1	19	1.7	7	0.6	8	0.7	57	5.2
Sheepshead Bay (15)	10,663	32	3.0	21	2.0	9	0.8	5	0.5	67	6.3
Brownsville (16)	5,572	26	4.7	18	3.2	8	1.4	13	2.3	65	11.7
East Flatbush (17)	7,836	35	4.5	32	4.1	6	0.8	11	1.4	84	10.7
Canarsie (18)	9,816	28	2.9	30	3.1	12	1.2	16	1.6	86	8.8
QUEENS	**108,806**	**245**	**2.3**	**222**	**2.0**	**71**	**0.7**	**106**	**1.0**	**644**	**5.9**
Astoria, Long Island City (01)	8,750	7	0.8	16	1.8	7	0.8	10	1.1	40	4.6
Sunnyside, Woodside (02)	7,404	6	0.8	18	2.4	2	0.3	3	0.4	29	3.9
Jackson Heights (03)	9,462	15	1.6	20	2.1	6	0.6	8	0.8	49	5.2
Elmhurst, Corona (04)	9,573	16	1.7	10	1.0	9	0.9	10	1.0	45	4.7
Ridgewood, Glendale (05)	7,903	18	2.3	14	1.8	4	0.5	8	1.0	44	5.6
Rego Park, Forest Hills (06)	5,894	6	1.0	5	0.8	5	0.8	4	0.7	20	3.4
Flushing (07)	10,362	27	2.6	14	1.4	1	0.1	7	0.7	49	4.7
Fresh Meadows, Briarwood (08)	7,420	13	1.8	8	1.1	4	0.5	6	0.8	31	4.2
Woodhaven (09)	8,127	18	2.2	22	2.7	1	0.1	8	1.0	49	6.0
Howard Beach (10)	5,864	19	3.2	12	2.0	4	0.7	5	0.9	40	6.8
Bayside (11)	2,532	6	2.4	4	1.6	1	0	1	0.4	12	4.7
Jamaica, St. Albans (12)	13,022	46	3.5	40	3.1	16	1.2	19	1.5	121	9.3
Queens Village (13)	7,038	27	3.8	23	3.3	7	1.0	10	1.4	67	9.5
The Rockaways (14)	5,455	21	3.8	16	2.9	4	0.7	7	1.3	48	8.8
STATEN ISLAND	**24,988**	**55**	**2.2**	**51**	**2.0**	**22**	**0.9**	**27**	**1.1**	**155**	**6.2**
Port Richmond (01)	10,505	36	3.4	25	2.4	9	0.9	13	1.2	83	7.9
Willowbrook, South Beach (02)	6,853	11	1.6	13	1.9	8	1.2	8	1.2	40	5.8
Tottenville (03)	7,564	8	1.1	13	1.7	5	0.7	6	0.8	32	4.2
NEW YORK CITY RESIDENTS	**465,100**	**1,169**	**2.5**	**1,015**	**2.2**	**345**	**0.7**	**456**	**1.0**	**2,985**	**6.4**
NON-RESIDENTS	**59,635**	**173**	**2.9**	**105**	**1.8**	**76**	**1.3**	**44**	**0.7**	**398**	**6.7**
RESIDENCE UNKNOWN	**37**	**7**	**-**	**-**	**-**	**2**	**-**	**1**	**-**	**10**	**-**

*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, 2022

	Cause of Death (ICD-10 Codes)	Total	Male		Female	
			Neonatal (<28 days)	Post-Neonatal (≥28 days)	Neonatal (<28 days)	Post-Neonatal (≥28 days)
	Total	**427**	**154**	**79**	**108**	**86**
1	HIV Infection (B20-B24)*	-	-	-	-	-
2	Diseases of the Circulatory System (I00-I99)*	13	3	4	-	6
3	Influenza and Pneumonia (J10-J18)*	6	-	3	-	3
4	Newborn Affected by Maternal Complications of Pregnancy (P01)*	8	4	-	4	-
5	Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)*	2	-	-	2	-
6	Short Gestation and Low Birthweight (P07)*	48	27	2	18	1
7	Intrauterine Hypoxia and Birth Asphyxia (P20-P21)*	4	1	-	3	-
8	Respiratory Distress of Newborn (P22)*	11	7	-	4	-
9	Pulmonary Hemorrhage Originating in the Perinatal Period (P26)*	6	5	-	1	-
10	Atelectasis (P28.0-P28.1)*	-	-	-	-	-
11	Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)†	8	5	1	2	-
12	Cardiovascular Disorders Originating in the Perinatal Period (P29)†	56	32	-	24	-
13	Infections Specific to the Perinatal Period (P35-P39)†	9	5	-	4	-
	Bacterial sepsis of newborn (P36)	8	4	-	4	-
14	Neonatal Hemorrhage (P50-P52, P54)*	7	4	-	3	-
15	Necrotizing Enterocolitis of Newborn (P77)*	7	6	1	-	-
16	Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)	18	8	2	7	1
17	Congenital Malformations, Deformations (Q00-Q99)*	119	39	22	27	31
	Congenital malformations of heart (Q20-Q24)	32	6	14	5	7
18	Sudden Infant Death Syndrome (R95)*	21	-	10	3	8
19	COVID-19	4	-	1	-	3
20	All Other Diseases (Rest of A00-R99)	48	7	17	3	21
21	External Causes (V01-Y89)†	32	1	16	3	12

*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, 2022

	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	**99,459**	**29,264**	**35,768**	**17,307**	**15,012**	**427**	**143**	**96**	**132**	**29**	**199**	**64**	**56**	**49**	**14**	**262**	**86**	**70**	**69**	**19**	**165**	**57**	**26**	**63**	**10**
Sex of Child																									
Male	50,595	14,913	18,167	8,800	7,641	233	78	51	67	20	116	40	31	24	11	154	53	39	37	14	79	25	12	30	6
Female	48,864	14,351	17,601	8,507	7,371	194	65	45	65	9	83	24	25	25	3	108	33	31	32	5	86	32	14	33	4
Birthweight at Delivery (Grams)																									
Low birthweight (<2,500)	9,112	2,718	2,264	2,377	1,539	265	87	61	83	15	160	50	46	43	9	203	67	53	58	11	62	20	8	25	4
Very low birthweight (<1,500)	1,345	427	255	467	168	189	65	42	62	11	135	44	36	40	7	160	56	40	49	7	29	9	2	13	4
2,500-4,000	85,133	25,015	31,112	14,205	13,030	119	45	19	42	9	30	12	6	5	4	45	16	10	9	7	74	29	9	33	2
Above 4,000	5,197	1,530	2,391	724	443	6	1	2	2	1	1	-	-	-	1	1	-	-	-	1	5	1	2	2	-
Not stated	17	1	1	1	-	1	-	-	1	-	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-
Unmatched*	-	-	-	-	-	36	10	14	4	4	7	2	4	-	-	12	3	7	1	-	24	7	7	3	4
Gestational Age (Weeks)																									
Preterm (<37)	9,508	3,128	2,549	2,282	1,344	250	84	54	80	15	156	50	43	42	10	195	65	50	56	11	55	19	4	24	4
Very preterm (<32)	1,428	462	290	471	169	189	65	42	61	12	133	45	34	39	8	161	57	39	50	8	28	8	3	11	4
Full-term	89,933	26,135	33,218	15,024	13,667	139	49	27	47	10	34	12	8	6	4	53	18	12	11	8	86	31	15	36	2
Not stated	18	1	1	1	1	2	-	1	1	-	2	-	1	1	-	2	-	1	1	-	-	-	-	-	-
Unmatched*	-	-	-	-	-	36	10	14	4	4	7	2	4	-	-	12	3	7	1	-	24	7	7	3	4
Plurality																									
Singletons	96,279	28,463	34,595	16,585	14,585	345	117	72	111	24	158	49	44	39	13	212	69	55	55	18	133	48	17	56	6
Multiples	3,180	801	1,173	722	427	46	16	10	17	1	34	13	8	10	1	38	14	8	13	1	8	2	2	4	-
Unmatched*	-	-	-	-	-	36	10	14	4	4	7	2	4	-	-	12	3	7	1	-	24	7	7	3	4
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, 2022

	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	**4.3**	**4.9**	**2.7**	**7.6**	**1.9**	**2.0**	**2.2**	**1.6**	**2.8**	**0.9**	**2.6**	**2.9**	**2.0**	**4.0**	**1.3**	**1.7**	**1.9**	**0.7**	**3.6**	**0.7**
Sex of Child																				
Male	4.6	5.2	2.8	7.6	2.6	2.3	2.7	1.7	2.7	1.4	3.0	3.6	2.1	4.2	1.8	1.6	1.7	0.7	3.4	0.8
Female	4.0	4.5	2.6	7.6	1.2	1.7	1.7	1.4	2.9	0.4	2.2	2.3	1.8	3.8	0.7	1.8	2.2	0.8	3.9	0.5
Birthweight at Delivery (Grams)																				
Low birthweight (<2,500)	29.1	32.0	26.9	34.9	9.7	17.6	18.4	20.3	18.1	5.8	22.3	24.7	23.4	24.4	7.1	6.8	7.4	3.5	10.5	2.6
Very low birthweight (<1,500)	140.5	152.2	164.7	132.8	65.5	100.4	103.0	141.2	85.7	41.7	119.0	131.1	156.9	104.9	41.7	21.6	21.1	7.8	27.8	23.8
2,500-4,000	1.4	1.8	0.6	3.0	0.7	0.4	0.5	0.2	0.4	0.3	0.5	0.6	0.3	0.6	0.5	0.9	1.2	0.3	2.3	0.2
Above 4,000	1.2	0.7	0.8	2.8	2.3	0.2	-	-	-	2.3	0.2	-	-	-	2.3	1.0	0.7	0.8	2.8	-
Gestational Age (Weeks)																				
Preterm (<37)	26.3	26.9	21.2	35.1	11.2	16.4	16.0	16.9	18.4	7.4	20.5	20.8	19.6	24.5	8.2	5.8	6.1	1.6	10.5	3.0
Very preterm (<32)	132.4	140.7	144.8	129.5	71.0	93.1	97.4	117.2	82.8	47.3	112.7	123.4	134.5	106.2	47.3	19.6	17.3	10.3	23.4	23.7
Full-term	1.5	1.9	0.8	3.1	0.7	0.4	0.5	0.2	0.4	0.3	0.6	0.7	0.4	0.7	0.6	1.0	1.2	0.5	2.4	0.1
Plurality																				
Singletons	3.6	4.1	2.1	6.7	1.6	1.6	1.7	1.3	2.4	0.9	2.2	2.4	1.6	3.3	1.2	1.4	1.7	0.5	3.4	0.4
Multiples	14.5	20.0	8.5	23.5	2.3	10.7	16.2	6.8	13.9	2.3	11.9	17.5	6.8	18.0	2.3	2.5	2.5	1.7	5.5	0.0

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Table IM4. Live Births and Infant Mortality, Overall and by Mother's Racial/Ethnic Group, New York City, 2018-2022

Mother's Racial/Ethnic Group	2018	2019	2020	2021	2022
Live Births, Total	**114,296**	**110,442**	**100,022**	**99,262**	**99,459**
Puerto Rican	5,995	5,422	5,198	4,826	4,426
Hispanic/Latino (not Puerto Rican)	25,711	24,796	23,236	23,836	24,838
Asian and Pacific Islander	19,024	18,725	15,633	14,927	15,012
Non-Hispanic/Latino White	40,327	39,278	35,812	36,023	35,768
Non-Hispanic/Latino Black	21,145	20,053	18,162	17,608	17,307
Other or Unknown	2,094	2,168	1,981	2,042	2,108
Infant Deaths (< 1 year), Total	**446**	**464**	**388**	**400**	**427**
Puerto Rican	32	28	30	21	27
Hispanic/Latino (not Puerto Rican)	87	97	99	91	116
Asian and Pacific Islander	51	46	44	41	29
Non-Hispanic/Latino White	94	104	77	66	96
Non-Hispanic/Latino Black	166	173	126	162	132
Other or Unknown	16	16	12	19	27
Infant Mortality Rate, Total	**3.9**	**4.2**	**3.9**	**4.0**	**4.3**
Puerto Rican	5.3	5.2	5.8	4.4	6.1
Hispanic/Latino (not Puerto Rican)	3.4	3.9	4.3	3.8	4.7
Asian and Pacific Islander	2.7	2.5	2.8	2.7	1.9
Non-Hispanic/Latino White	2.3	2.6	2.2	1.8	2.7
Non-Hispanic/Latino Black	7.9	8.6	6.9	9.2	7.6
Neonatal Deaths (< 28 days), Total	**278**	**305**	**244**	**246**	**262**
Puerto Rican	21	15	18	14	15
Hispanic/Latino (not Puerto Rican)	47	71	65	50	71
Asian and Pacific Islander	33	30	30	29	19
Non-Hispanic/Latino White	69	73	52	39	70
Non-Hispanic/Latino Black	95	106	69	99	69
Neonatal Mortality Rate, Total	**2.4**	**2.8**	**2.4**	**2.5**	**2.6**
Puerto Rican	3.5	2.8	3.5	2.9	3.4
Hispanic/Latino (not Puerto Rican)	1.8	2.9	2.8	2.1	2.9
Asian and Pacific Islander	1.7	1.6	1.9	1.9	1.3
Non-Hispanic/Latino White	1.7	1.9	1.5	1.1	2.0
Non-Hispanic/Latino Black	4.5	5.3	3.8	5.6	4.0

Table IM5. Infant Mortality Rate by Mother's Birthplace*, New York City, 2016-2022

Birthplace†	2016-2018	2017-2019	2018-2020	2019-2021	2020-2022
New York City	**4.1**	**4.1**	**4.0**	**4.0**	**4.1**
United States‡	**4.2**	**4.3**	**4.0**	**4.1**	**3.8**
United States (excluding Puerto Rico)	4.1	4.3	4.1	4.1	3.9
Puerto Rico	5.2	3.8	1.8	2.5	3.4
El Salvador	6.0	6.9	8.9	10.6	9.1
Haiti	7.3	7.8	7.8	8.6	9.0
Trinidad and Tobago	3.6	3.6	5.0	5.9	8.4
Jamaica	7.6	7.0	6.1	6.0	7.0
Guyana	4.5	4.5	5.7	5.8	6.9
Pakistan	5.1	4.2	4.0	4.3	4.8
Canada	1.5	1.0	2.7	2.8	4.6
Yemen Arab Republic	4.9	5.1	4.4	4.5	4.6
Ghana	5.9	5.5	3.8	6.0	4.3
Guatemala	3.1	3.4	4.4	4.3	4.3
Colombia	3.9	2.3	1.5	2.0	4.2
Phillipines	4.5	4.8	4.0	3.1	4.0
Ecuador	3.0	3.4	3.6	3.8	3.9
United Kingdom	0.7	1.4	2.8	2.9	3.8
Bangladesh	4.2	4.3	3.1	3.7	3.7
Honduras	2.2	3.4	3.4	4.5	3.6
Nigeria	3.1	4.6	5.6	3.1	3.5
Dominican Republic	2.9	2.8	3.0	3.3	3.3
Israel	2.8	3.7	4.7	3.2	2.9
India	2.6	2.7	3.1	2.8	2.7
Mexico	3.1	3.5	2.8	2.7	2.6
Egypt	2.6	2.9	1.7	2.7	2.3
Russia	2.8	1.8	2.3	1.7	1.9
Ukraine	2.0	1.3	1.4	0.5	1.6
Uzbekistan	2.2	2.2	1.5	1.3	1.4
China	1.8	1.9	1.5	1.5	1.1
Korea	1.6	1.2	0.0	0.0	0.0
Poland	1.1	1.9	1.4	1.7	0.0

*The infant mortality rate is listed only for countries with 500 or more live births in any year from 2016-2022.
†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.

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Table IM6. Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2018–2022

CD		2018–2020*		2019–2021*		2020–2022*	
		Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate
CD	**NEW YORK CITY**	**4.0**	**2.5**	**4.0**	**2.6**	**4.1**	**2.5**
	MANHATTAN	**2.5**	**1.7**	**2.7**	**1.8**	**2.4**	**1.5**
101	Battery Park, Tribeca	1.3	1.3	1.4	1.1	0.4	0.0
102	Greenwich Village, SOHO	0.0	0.0	0.0	0.0	0.6	0.6
103	Lower East Side	2.2	1.3	1.4	0.7	2.8	1.2
104	Chelsea, Clinton	2.4	1.7	2.6	1.9	0.4	0.4
105	Midtown Business District	3.5	1.8	2.5	0.6	1.4	0.7
106	Murray Hill	1.6	1.3	0.9	0.9	1.0	1.0
107	Upper West Side	2.0	1.5	1.9	1.4	1.7	1.6
108	Upper East Side	0.8	0.8	0.9	0.7	0.8	0.3
109	Manhattanville	2.6	1.5	3.5	2.4	3.7	2.5
110	Central Harlem	5.5	3.6	7.2	4.9	5.5	2.8
111	East Harlem	5.6	3.5	6.1	4.0	5.7	3.4
112	Washington Heights	2.8	1.5	3.2	1.8	3.7	2.5
	BRONX	**5.1**	**3.1**	**5.3**	**3.5**	**5.4**	**3.5**
201	Mott Haven	5.4	3.2	7.0	5.2	7.2	5.1
202	Hunts Point	4	2.2	3.3	1.9	3.9	2.5
203	Morrisania	6.5	3.7	5.9	3.8	6.5	3.9
204	Concourse, Highbridge	5.3	2.9	5.3	3.1	5.8	3.1
205	University/Morris Heights	4	2.2	4.5	2.2	5.5	2.4
206	East Tremont	6.2	2.8	6.2	3.2	5.4	3.6
207	Fordham	4.2	3	4.1	2.8	3.9	2.4
208	Riverdale	3.8	2.7	3.5	2.8	3.3	2.2
209	Unionport, Soundview	4.3	2.2	4.4	2.9	4.1	3.0
210	Throgs Neck	2.9	2.5	4.5	3.4	6.0	4.9
211	Pelham Parkway	6	3.1	7.0	4.2	6.0	4.6
212	Williamsbridge	8.1	6.4	8.1	6.1	7.5	4.7
	BROOKLYN	**3.3**	**2.0**	**3.2**	**1.9**	**3.0**	**1.8**
301	Williamsburg, Greenpoint	1.2	0.6	2.0	0.9	2.1	1.2
302	Fort Greene, Brooklyn Heights	2.2	1.8	2.9	1.9	2.4	1.3
303	Bedford Stuyvesant	4.9	3.0	3.7	1.9	3.7	2.1
304	Bushwick	3.2	1.9	3.4	2.4	2.7	1.7
305	East New York	6.9	4.3	6.1	3.9	4.6	2.4
306	Park Slope	1.7	1.5	1.8	0.9	2.4	1.4
307	Sunset Park	2.0	1.5	1.7	1.5	2.1	1.2
308	Crown Heights North	3.4	1.7	3.6	1.8	3.8	1.9
309	Crown Heights South	6.1	3.9	3.9	2.6	4.6	3.2
310	Bay Ridge	2.6	1.5	2.1	1.2	2.0	1.5
311	Bensonhurst	2.4	2.1	2.3	1.8	2.8	1.9
312	Borough Park	2.0	1.2	2.2	1.2	1.3	0.8
313	Coney Island	4.7	2.6	4.6	2.2	4.9	2.3
314	Flatbush, Midwood	2.4	1.5	2.2	1.1	2.1	1.1
315	Sheepshead Bay	2.6	1.8	1.9	1.4	1.3	1.0
316	Brownsville	6.2	3.4	8.4	5.4	7.7	5.5
317	East Flatbush	5.9	3.4	6.9	4.3	5.9	3.4
318	Canarsie	3.6	1.6	3.3	2.1	5.1	2.9
	QUEENS	**3.9**	**2.5**	**3.9**	**2.5**	**4.2**	**2.6**
401	Astoria, Long Island City	3.1	1.7	2.7	1.6	2.2	1.4
402	Sunnyside, Woodside	2.4	1.9	2.1	1.6	2.2	1.7
403	Jackson Heights	2.5	1.5	2.7	1.8	3.4	2.3
404	Elmhurst, Corona	3.3	2.8	3.7	2.3	4.8	2.6
405	Ridgewood, Glendale	2.9	1.0	3.0	1.5	2.8	1.5
406	Rego Park, Forest Hills	3.5	2.4	3.8	2.6	3.0	2.1
407	Flushing	2.8	1.8	2.5	1.5	1.8	1.1
408	Fresh Meadows, Briarwood	3.8	2.5	3.4	2.1	3.4	2.5
409	Woodhaven	3.9	2.6	4.2	2.5	5.4	3.7
410	Howard Beach	3.9	2.5	5.2	3.7	5.7	4.2
411	Bayside	5.1	2.6	4.7	3.3	4.9	2.8
412	Jamaica, St. Albans	5.5	3.6	5.8	3.7	7.3	4.5
413	Queens Village	7.7	5.2	6.7	4.3	6.1	3.6
414	The Rockaways	5.0	2.5	5.7	2.8	4.8	3.1
	STATEN ISLAND	**3.4**	**2.4**	**4.2**	**2.7**	**4.6**	**2.9**
501	Port Richmond	4.8	2.8	5.4	3.7	5.4	3.4
502	Willowbrook, South Beach	2.7	2.7	3.9	2.2	5.1	3.2
503	Tottenville	2.2	1.6	2.9	2.0	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, 2022

			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	**99,459**	**100.0**	**427**	**4.3**	**262**	**2.6**	**165**	**1.7**
Race/Ethnicity								
Puerto Rican	4,426	4.5	27	6.1	15	3.4	12	2.7
Hispanic/Latino not of Puerto Rican ancestry	24,838	25.0	116	4.7	71	2.9	45	1.8
Asian and Pacific Islander	15,012	15.1	29	1.9	19	1.3	10	0.7
Non-Hispanic/Latino White	35,768	36.0	96	2.7	70	2.0	26	0.7
Non-Hispanic/Latino Black	17,307	17.4	132	7.6	69	4.0	63	3.6
Other and Unknown	2,108	2.1	27	-	18	-	9	-
Borough of Residence								
Manhattan	13,089	13.2	32	2.4	20	1.5	12	0.9
Bronx	15,606	15.7	90	5.8	52	3.3	38	2.4
Brooklyn	32,804	33.0	109	3.3	64	2.0	45	1.4
Queens	20,363	20.5	80	3.9	56	2.8	24	1.2
Staten Island	4,886	4.9	22	4.5	15	3.1	7	1.4
Non-NYC residents	12,708	12.8	92	7.2	53	4.2	39	3.1
Unknown	3	0.0	2	-	2	-	0	-
Age of Mother								
Age <18	499	0.5	3	6.0	0	0.0	3	6.0
Age 18-19	1,527	1.5	10	6.5	3	2.0	7	4.6
Age 20-29	35,262	35.5	136	3.9	84	2.4	52	1.5
Age 30-39	54,786	55.1	204	3.7	142	2.6	62	1.1
Age ≥40	7,385	7.4	38	5.1	21	2.8	17	2.3
Age unknown	-	-	-	-	-	-	-	-
Unmatched†	-	-	36	-	12	-	24	-
Mother's Education								
11th grade or less/12th grade, no diploma	13,237	13.3	66	5.0	42	3.2	24	1.8
High school graduate or GED	23,828	24.0	118	5.0	75	3.1	43	1.8
Some college/associate degree	19,546	19.7	77	3.9	46	2.4	31	1.6
Bachelor's degree	22,516	22.6	61	2.7	36	1.6	25	1.1
Master's degree or higher	19,536	19.6	45	2.3	31	1.6	14	0.7
Mother's education unknown	796	0.8	24	-	20	-	4	-
Unmatched†	-	-	36	-	12	-	24	-
Marital Status of Mother‡								
Not married	36,766	37.0	206	5.6	126	3.4	80	2.2
Married	62,693	63.0	185	3.0	124	2.0	61	1.0
Unmatched†	-	-	36	-	12	-	24	-
Mother's Birthplace§								
US born, including territories	51,640	51.9	196	3.8	123	2.4	73	1.4
Foreign-born	47,721	48.0	186	3.9	118	2.5	68	1.4
Birthplace unknown	98	0.1	9	-	9	-	-	-
Unmatched†	-	-	36	-	12	-	24	-
Primary Payer for This Birth								
Medicaid	56,434	56.7	252	4.5	151	2.7	101	1.8
Private	41,020	41.2	124	3.0	89	2.2	35	0.9
Other	1,786	1.8	12	6.7	7	3.9	5	2.8
Coverage unknown	219	0.2	3	-	3	-	-	-
Unmatched†	-	-	36	-	12	-	24	-
Plurality								
Singletons	96,279	96.8	345	3.6	212	2.2	133	1.4
Multiples	3,180	3.2	46	14.5	38	11.9	8	2.5
Unmatched†	-	-	36	-	12	-	24	-
First Prenatal Care Visit								
No prenatal care	1,371	1.4	25	18.2	21	15.3	4	2.9
First Trimester (1-3 months)	69,894	70.3	199	2.8	136	1.9	63	0.9
Second Trimester (4-6 months)	18,924	19.0	89	4.7	54	2.9	35	1.8
Third Trimester (7-9 months)	6,022	6.1	46	7.6	22	3.7	24	4.0
Prenatal care unknown	3,248	3.3	32	-	17	-	15	-
Unmatched†	-	-	36	-	12	-	24	-
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI<18.5)	4,223	4.2	12	2.8	8	1.9	4	0.9
Normal weight (18.5≤BMI<25)	46,894	47.1	128	2.7	74	1.6	54	1.2
Overweight (25≤BMI<30)	26,533	26.7	115	4.3	75	2.8	40	1.5
Obese (BMI≥30)	21,103	21.2	125	5.9	86	4.1	39	1.8
Pre-pregnancy BMI unknown	706	0.7	11	-	7	-	4	-
Unmatched†	-	-	36	-	12	-	24	-
Birthweight								
Very low birthweight	1,345	1.4	189	140.5	160	119.0	29	21.6
Low birthweight	7,767	7.8	76	9.8	43	5.5	33	4.2
Normal birthweight	90,330	90.8	125	1.4	46	0.5	79	0.9
Birthweight unknown	17	0.0	1	-	1	-	-	-
Unmatched†	-	-	36	-	12	-	24	-

*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, 2022

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	**60,596**	**10,456**	**10,523**	**16,995**	**13,733**	**3,953**	**4,662**	**274**	**31,634**	**28,962**	
Natural Causes	**54,720**	**9,487**	**9,162**	**15,592**	**12,650**	**3,656**	**4,064**	**109**	**27,287**	**27,433**	
1.* **Tuberculosis (A16-A19)**	**27**	**5**	**3**	**5**	**13**	**-**	**1**	**-**	**20**	**7**	**0.88**
Respiratory tuberculosis (A16)	21	3	2	4	11	-	1	-	16	5	0.94
2.* **Septicemia (A40-A41)**	**1,031**	**174**	**215**	**351**	**205**	**23**	**62**	**1**	**519**	**512**	**1.19**
3.* **Viral Hepatitis (B15-B19)**	**76**	**13**	**18**	**16**	**19**	**3**	**7**	**-**	**47**	**29**	**0.71**
4.* **Human Immunodeficiency Virus (HIV) Disease (B20-B24)**	**301**	**53**	**112**	**78**	**24**	**9**	**23**	**2**	**219**	**82**	**1.08**
5. **All Other Infective and Parasitic Diseases (Rest of A01-B99)**	478	94	87	111	97	26	61	2	244	234	
6.* **Malignant Neoplasms (C00-C97)**	**11,368**	**2,056**	**1,680**	**2,971**	**2,492**	**779**	**1,383**	**7**	**5,711**	**5,657**	**1.01**
Lip, oral cavity, and pharynx (C00-C14)	222	38	33	58	50	16	27	-	144	78	0.96
Esophagus (C15)	233	50	32	54	51	18	27	1	169	64	0.99
Stomach (C16)	357	55	63	102	88	16	33	-	231	126	1.01
Colon, rectum, and anus (C18-C21)	1,047	203	158	266	250	77	92	1	540	507	1.00
Liver and intrahepatic bile ducts (C22)	608	101	108	159	132	40	66	2	399	209	0.96
Pancreas (C25)	982	195	146	273	207	58	103	-	486	496	1.00
Larynx (C32)	74	13	17	20	15	4	5	-	59	15	1.01
Trachea, bronchus, and lung (C33-C34)	2,009	331	312	508	467	188	203	-	1,095	914	0.98
Melanoma of skin (C43)	93	25	7	20	15	5	21	-	53	40	0.95
Mesothelioma (C45)	32	7	1	8	8	2	6	-	23	9	
Breast (C50)	841	136	117	247	184	65	92	-	15	826	1.01
Cervix uteri (C53)	93	11	17	33	15	7	10	-	-	93	1.00
Corpus uteri and uterus, part unspecified (C54-C55)	416	71	69	135	79	21	41	-	-	416	1.02
Ovary (C56)	264	48	31	75	56	23	31	-	-	264	0.99
Prostate (C61)	606	127	110	168	123	27	50	1	606	-	1.01
Kidney and renal pelvis (C64-C65)	191	23	26	44	58	14	26	-	137	54	1.00
Bladder (C67)	269	54	31	72	60	20	32	-	193	76	1.00
Meninges, brain, and other parts of central nervous system (C70-C72)	288	65	43	56	61	24	39	-	150	138	0.98
Lymphoid, hematopoietic and related tissues (C81-C96)	1,208	198	140	287	227	77	277	2	667	541	1.00
Hodgkin's disease (C81)	22	3	3	4	4	3	5	-	14	8	1.00
Non-Hodgkin's lymphoma (C82-C85)	442	79	37	95	90	26	114	1	251	191	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90)	264	43	37	77	58	13	36	-	141	123	1.04
Leukemia (C91-C95)	476	72	63	109	75	35	122	-	258	218	1.01
7.* **In Situ or Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior (D00-D48)**	**235**	**45**	**35**	**58**	**45**	**11**	**40**	**1**	**123**	**112**	**1.63**
8.* **Anemias (D50-D64)**	**63**	**7**	**11**	**19**	**17**	**2**	**7**	**-**	**25**	**38**	**0.94**
9.* **Diabetes Mellitus (E10-E14)**	**1,766**	**252**	**354**	**518**	**392**	**168**	**77**	**5**	**963**	**803**	**1.02**
10.† **Mental and Behavioral Disorders Due to Use of Alcohol (F10)**	**389**	**50**	**62**	**141**	**94**	**19**	**14**	**9**	**320**	**69**	
11. **Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco (F11-F16, F18-F19) ‡**	**84**	**19**	**17**	**20**	**11**	**1**	**11**	**5**	**70**	**14**	
12. **Diseases of Nervous System (G00-G98)**	**2,692**	**645**	**383**	**586**	**699**	**239**	**140**	**-**	**1,054**	**1,638**	
* Meningitis (G00,G03)	19	2	3	9	3	1	1	-	12	7	1.01
* Parkinson's disease (G20-G21)	427	123	62	76	113	23	30	-	251	176	1.01
* Alzheimer's disease (G30)	979	264	155	197	246	82	35	-	267	712	1.58
13. **Major Cardiovascular Diseases (I00-I78)**	**20,587**	**3,306**	**3,518**	**6,088**	**5,081**	**1,385**	**1,161**	**48**	**10,351**	**10,236**	**1.00**
* **Diseases of heart (I00-I09, I11, I13, I20-I51)**	**16,806**	**2,604**	**2,816**	**5,090**	**4,190**	**1,170**	**892**	**44**	**8,705**	**8,101**	**0.99**
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	45	9	6	12	9	3	6	-	15	30	0.88
Hypertensive heart disease (I11)	2,316	412	445	719	472	187	72	9	1,120	1,196	0.80
Hypertensive heart and renal disease (I13)	190	28	32	70	28	25	7	-	106	84	1.13
Chronic ischemic heart disease (I20, I25)	10,417	1,539	1,625	3,117	2,886	729	492	29	5,530	4,887	1.01
Acute myocardial infarction (I21-I22)	1,494	178	303	471	302	135	104	1	780	714	0.99
Cardiomyopathy (I42)	120	16	21	30	22	7	24	-	77	43	

Table is 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, 2022 [CONTINUED]

		Borough of Residence							Sex		
	Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Un-known	Male	Female	ICD-10/ICD-9 Com-para-bility Ratio
	Heart failure (I50)	657	122	113	234	133	14	40	1	320	337	1.04
*	Essential hypertension and hypertensive renal disease (I10, I12, I15)	1,241	194	271	311	310	97	58	-	533	708	1.12
*	Cerebrovascular diseases (I60-I69)	2,175	422	375	584	516	98	176	4	915	1,260	1.05
*	Atherosclerosis (I70)	114	16	18	40	22	10	8	-	48	66	0.97
*	Aortic aneurysm and dissection (I71)	132	31	19	37	23	5	17	-	89	43	1.00
14.*	**Influenza and Pneumonia (J09-J18)**	**1,575**	**240**	**295**	**564**	**323**	**73**	**78**	**2**	**803**	**772**	**0.70**
	H1N1 Flu (J09)	0	-	-	-	-	-	-	-	-	-	
15.*	**Chronic Lower Respiratory Diseases (J40-J47)**	**1,419**	**255**	**272**	**340**	**295**	**180**	**75**	**2**	**669**	**750**	**1.04**
	Emphysema (J43)	64	13	10	16	13	7	4	1	30	34	0.96
	Asthma (J45-J46)	149	21	57	39	21	4	6	1	55	94	0.89
16.	**Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)**	**1**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	
17.*	**Pneumonitis Due to Solids and Liquids (J69)**	**361**	**87**	**45**	**89**	**114**	**10**	**15**	**1**	**194**	**167**	**1.10**
18.*	**Peptic Ulcer (K25-K28)**	**67**	**10**	**11**	**20**	**17**	**3**	**6**	**.**	**37**	**30**	**0.97**
19.*	**Chronic Liver Disease and Cirrhosis (K70, K73-K74)**	**594**	**79**	**121**	**145**	**146**	**19**	**78**	**6**	**416**	**178**	**1.03**
	Alcoholic liver disease (K70)	369	49	64	83	99	14	55	5	288	81	1.00
20.*	**Cholelithiasis and Other Disorders of Gallbladder (K80-K82)**	**63**	**10**	**11**	**15**	**19**	**4**	**3**	**1**	**33**	**30**	**0.96**
21.*	**Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)**	**716**	**111**	**130**	**238**	**145**	**32**	**59**	**1**	**369**	**347**	**1.26**
	Renal failure (N17-N19)	685	106	126	227	136	30	59	1	356	329	1.33
22.*	**Pregnancy, Childbirth, and the Puerperium (O00-O99)**	**27**	**5**	**8**	**3**	**5**	**3**	**3**	**-**	**-**	**27**	**1.14**
	Maternal causes (A34, O00-O95, O98-O99)§	23	5	7	3	3	3	2	-	-	23	
23.*	**Certain Conditions Originating in the Perinatal Period (P00-P96)**	**189**	**19**	**42**	**42**	**44**	**11**	**30**	**1**	**112**	**77**	**1.08**
24.*	**Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)**	**217**	**19**	**27**	**55**	**36**	**11**	**68**	**1**	**109**	**108**	**0.90**
25.	**Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)**	**669**	**184**	**102**	**167**	**156**	**16**	**44**	**-**	**264**	**405**	**0.98**
26.	**Sudden Infant Death Syndrome (R95)**	**22**	**3**	**7**	**8**	**3**	**-**	**1**	**-**	**10**	**12**	**1.06**
	Pending final determination (R99)	0	-	-	-	-	-	-	-	-	-	
27.	**Covid-19**	**4,394**	**641**	**687**	**1,423**	**1,069**	**346**	**221**	**7**	**2,256**	**2,138**	
28.	**All Other Natural Causes (Rest of A00-R99)**	**5,309**	**1,105**	**908**	**1,521**	**1,089**	**283**	**396**	**7**	**2,348**	**2,961**	
External Causes		**5,876**	**969**	**1,361**	**1,403**	**1,083**	**297**	**598**	**165**	**4,347**	**1,529**	
28.	**Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)**	**324**	**42**	**93**	**99**	**48**	**13**	**29**	**.**	**290**	**34**	**1.00**
29.	**Accidents (V01-X59,Y85-Y86)**	**4,502**	**740**	**1,097**	**1,027**	**807**	**241**	**444**	**146**	**3,325**	**1,177**	**1.03**
	Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) ‡	3,041	464	848	691	471	153	301	113	2,390	651	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) ‡**	**3,125**	**483**	**865**	**711**	**482**	**154**	**312**	**118**	**2,460**	**665**	
†	**Accidents except poisoning by psychoactive substance use**	**1,461**	**276**	**249**	**336**	**336**	**88**	**143**	**33**	**935**	**526**	
	Motor vehicle accidents ||	271	37	55	71	57	14	33	4	196	75	0.95
	Accidental falls (W00-W19)	619	122	76	138	173	54	48	8	372	247	0.77
30.*	**Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)**	**601**	**127**	**90**	**152**	**130**	**34**	**62**	**6**	**438**	**163**	**1.00**
31.*	**Assault (Homicide) (U01-U02, X85-Y09, Y87.1)**	**454**	**52**	**127**	**136**	**78**	**14**	**43**	**4**	**367**	**87**	**1.00**
32.*	**Legal Intervention (Y35, Y89.0)**	**11**	**3**	**4**	**3**	**-**	**-**	**1**	**-**	**11**	**-**	**0.94**
33.	**Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)**	**223**	**29**	**29**	**68**	**55**	**7**	**26**	**9**	**160**	**63**	**0.99**
34.*	**Complications of Medical and Surgical Care (Y40-Y84, Y88)**	**85**	**18**	**14**	**17**	**13**	**1**	**22**	**.**	**46**	**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, 2022

	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	**60,596**	**7.3**	**31,634**	**7.9**	**28,962**	**6.7**	**13,305**	**5.5**	**7,263**	**6.2**	**6,042**	**4.8**	**23,175**	**8.9**	**11,889**	**9.2**	**11,286**	**8.5**	**16,536**	**9.1**	**8,304**	**10.0**	**8,232**	**8.4**	**5,906**	**4.5**	**3,167**	**5.1**	**2,739**	**4.0**	**1,674**	**1,011**	**663**
Age-Adjusted		**5.8**		**7.4**		**4.6**		**5.5**		**7.2**		**4.1**		**5.6**		**6.9**		**4.5**		**7.3**		**9.5**		**5.9**		**3.8**		**4.7**		**3.1**			
Under 5	503	1.1	270	1.1	233	1.0	139	0.9	70	0.9	69	0.9	119	0.9	65	0.9	54	0.8	153	1.6	78	1.6	75	1.6	36	0.6	24	0.7	12	0.4	56	33	23
5-9	63	0.1	33	0.1	30	0.1	18	0.1	9	0.1	9	0.1	14	0.1	7	0.1	7	0.1	23	0.2	12	0.3	11	0.2	6	0.1	3	0.1	3	0	2	2	-
10-14	80	0.2	55	0.2	25	0.1	16	0.1	13	0.2	3	0.0	18	0.2	11	0.2	7	0.1	36	0.4	25	0.5	11	0.2	7	0.1	3	0.1	4	0.1	3	3	-
15-19	154	0.3	101	0.4	53	0.2	42	0.3	25	0.3	17	0.2	30	0.3	19	0.3	11	0.2	64	0.6	46	0.9	18	0.4	12	0.2	6	0.2	6	0.2	6	5	1
20-24	341	0.7	260	1.0	81	0.3	109	0.6	91	1.1	18	0.2	72	0.5	52	0.8	20	0.3	115	1.0	87	1.6	28	0.5	35	0.5	23	0.7	12	0.3	10	7	3
25-29	597	0.9	423	1.3	174	0.5	195	1.0	154	1.7	41	0.4	178	0.8	124	1.1	54	0.5	171	1.3	112	1.7	59	0.8	38	0.4	26	0.5	12	0.2	15	7	8
30-34	829	1.2	606	1.7	223	0.6	287	1.5	232	2.3	55	0.6	193	0.8	142	1.2	51	0.4	277	1.9	188	2.6	89	1.2	49	0.4	29	0.5	20	0.3	23	15	8
35-39	1,081	1.8	759	2.5	322	1.1	332	1.9	261	2.9	71	0.8	269	1.4	186	1.8	83	0.9	365	3.0	237	4.0	128	2.0	77	0.8	48	1.0	29	0.5	38	27	11
40-44	1,266	2.3	862	3.3	404	1.5	417	2.6	305	3.7	112	1.4	294	1.8	204	2.4	90	1.1	417	3.7	260	4.9	157	2.6	90	1.0	59	1.4	31	0.6	48	34	14
45-49	1,576	3.2	1,045	4.3	531	2.1	486	3.2	344	4.7	142	1.9	370	2.5	263	3.5	107	1.5	552	5.1	328	6.7	224	3.8	104	1.2	68	1.7	36	0.8	64	42	22
50-54	2,304	4.4	1,489	5.9	815	3.0	676	4.5	465	6.3	211	2.7	558	3.6	385	4.8	173	2.4	818	6.9	485	9.0	333	5.1	170	1.9	97	2.3	73	1.6	82	57	25
55-59	3,485	6.7	2,208	8.8	1,277	4.7	860	5.9	580	8.4	280	3.6	905	6.0	590	7.4	315	4.4	1,350	10.4	798	13.8	552	7.7	254	2.9	154	3.7	100	2.2	116	86	30
60-64	4,670	9.4	2,914	12.4	1,756	6.7	1,048	8.2	675	11.5	373	5.4	1,335	8.6	866	11.0	469	6.1	1,752	14.1	1028	18.7	724	10.4	385	4.7	249	6.3	136	3.2	150	96	54
65-69	5,487	12.7	3,266	16.5	2,221	9.4	1,152	11.1	681	15.1	471	8.1	1,762	11.8	1,082	15.0	680	8.8	1,847	18.3	1061	24.9	786	13.5	533	7.3	311	8.8	222	5.8	193	131	62
70-74	6,196	17.5	3,565	23.0	2,631	13.2	1,292	16.2	765	23.1	527	11.3	2,332	17.0	1,341	21.4	991	13.3	1,766	23.0	945	30.8	821	17.8	605	10.7	376	14.2	229	7.7	201	138	63
75-79	6,728	26.6	3,554	34.1	3,174	21.4	1,455	25.4	741	33.2	714	20.5	2,703	26.0	1,470	32.4	1,233	21.0	1,747	32.1	842	42.9	905	26.0	640	18.8	379	24.2	261	14.2	183	122	61
80-84	7,249	42.8	3,502	54.0	3,747	35.9	1,504	39.2	723	52.1	781	31.9	3,045	43.8	1,525	53.6	1,520	37.0	1,764	48.3	750	62.9	1014	41.3	759	33.1	408	41.4	351	26.9	177	96	81
≥85	17,987	97.7	6,722	110.3	11,265	91.4	3,277	88.9	1,129	100.2	2,148	83.9	8,978	108.2	3,557	121.0	5,421	101.2	3,319	89.4	1,022	102.0	2,297	84.8	2,106	83.6	904	94.5	1202	76.9	307	110	197
Mean age at death	**72.7**		**69.0**		**76.7**		**69.5**		**64.8**		**75.0**		**77.1**		**73.7**		**80.7**		**68.7**		**65.0**		**72.4**		**75.4**		**73.1**		**78.1**		**66.9**	**64.4**	**70.7**
Median age at death	**76**		**72**		**80**		**73**		**67**		**79**		**80**		**77**		**84**		**70**		**67**		**75**		**79**		**76**		**83**		**70**	**68**	**75**

* Population data are from the US Census Bureau 2022 population estimates as of July 1, 2022, released in the 2022 vintage file. See Table PC2 on page 55.

Table M3. Deaths by Ancestry* and Borough of Residence, New York City, 2022

Ancestry	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Residence Unknown
Total	**60,596**	**10,456**	**10,523**	**16,995**	**13,733**	**3,953**	**4,662**	**274**
Hispanic/Latino								
Colombian	458	42	32	46	293	8	36	1
Cuban	368	103	84	50	88	12	28	3
Dominican	2,896	910	1,145	360	348	20	111	2
Ecuadorian	677	93	101	99	329	13	42	-
Mexican	5,352	1,026	2,098	1,256	524	211	226	11
Puerto Rican	714	78	171	202	166	30	59	8
Other Hisp./Latino	2,840	429	866	631	626	70	182	36
North American and the Caribbean								
African-American	11,258	1,964	2,721	3,742	1,889	268	612	62
American	10,466	2,824	759	2,081	2,224	945	1,629	4
Guyanese	1,146	19	112	341	622	5	46	1
Haitian	967	36	33	631	200	5	61	1
Jamaican	1,355	40	367	579	277	8	84	-
Trinidadian	644	29	43	373	155	11	33	-
Other North American and the Caribbean	977	88	171	497	133	17	71	-
African								
Egyptian	114	11	3	24	26	38	11	1
Ghanaian	129	4	81	19	12	2	10	1
Nigerian	110	2	29	30	27	12	9	1
Other African	284	55	94	48	40	21	25	1
European								
English	215	49	16	34	51	33	32	-
German	429	78	34	44	181	55	37	-
Irish	1,074	91	165	103	336	241	138	-
Italian	3,077	93	311	753	698	999	223	-
Polish	556	55	16	180	203	67	35	-
Russian	490	49	18	284	83	39	16	1
Other European	2,619	306	138	994	832	207	141	1
Asian								
Asian Indian	407	37	13	18	229	30	77	3
Bangladeshi	357	8	57	62	214	2	14	-
Chinese	3,398	762	46	1,143	1,217	136	93	1
Filipino	342	54	18	30	162	37	41	-
Korean	425	43	18	18	293	15	37	1
Pakistani	227	6	8	92	68	20	33	-
Other Asian	908	160	59	235	300	57	92	5
Other								
Jewish or Hebrew	2,436	235	88	1,477	367	115	154	-
Other or Not Stated	2,881	677	608	519	520	204	224	129

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

Table M4. Deaths by Place of Death*, New York City, 2018-2022

	2018		2019		2020		2021		2022	
Place of Death	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	**55,081**	**100.0**	**54,559**	**100.0**	**82,143**	**100.0**	**63,551**	**100.0**	**60,596**	**100.0**
Hospital Inpatient	24,964	45.3	25,097	46.0	39,209	47.7	31,077	48.9	27,842	45.9
Emergency/Outpatient	4,997	9.1	4,996	9.2	6,637	8.1	5,292	8.3	5,467	9.0
Dead on Arrival (DOA)	668	1.2	573	1.1	452	0.6	372	0.6	322	0.5
Nursing Home/Long Term Care Facility	7,945	14.4	7,974	14.6	12,158	14.8	7,105	11.2	7,886	13.0
Hospice Facility	1,387	2.5	949	1.7	671	0.8	441	0.7	424	0.7
Decedents' Residence	14,326	26.0	14,186	26.0	21,927	26.7	18,133	28.5	17,514	28.9
Other	794	1.4	784	1.4	1,089	1.3	1,131	1.8	1,141	1.9
Unknown or Not Stated	-	-	-	-	-	-	-	-	-	-

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

Table M5. Deaths by Birthplace and Borough of Residence, New York City, 2022*

		Borough of Residence						
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	**60,596**	**10,456**	**10,523**	**16,995**	**13,733**	**3,953**	**4,662**	**274**
United States	33,959	6,663	6,767	8,313	6,059	2,884	3,214	59
United States (excluding Puerto Rico)	29,820	5,842	5,086	7,341	5,676	2,749	3,074	52
Puerto Rico	4,139	821	1,681	972	383	135	140	7
China	3,029	683	40	1,057	1,047	125	76	1
Dominican Republic	2,705	852	1,072	348	322	17	93	1
Jamaica	1,596	54	455	627	337	11	112	-
Guyana	1,192	21	113	370	630	8	49	1
Ukraine	1,172	42	19	938	98	57	18	-
Italy	1,027	40	114	344	289	168	72	-
Haiti	996	44	36	645	205	5	60	1
Trinidad and Tobago	727	43	52	410	169	13	39	1
Ecuador	653	89	99	95	320	12	38	-
Mexico	643	70	163	185	153	28	38	6
Russia	571	49	19	351	96	37	18	1
Poland	501	65	14	191	173	30	28	-
Colombia	446	45	28	45	288	9	30	1
India	417	38	13	20	232	32	80	2
Greece	381	24	17	66	242	16	16	-
Korea	368	36	11	15	257	15	34	-
Bangladesh	350	8	56	61	210	2	13	-
Cuba	341	97	80	49	85	9	21	-
Philippines	329	51	17	30	154	37	40	-
Germany	318	94	23	50	114	10	27	-
Barbados	285	14	21	209	33	2	6	-
Panama	242	16	19	161	35	3	7	1
Honduras	237	30	98	52	33	11	10	3
Belarus	225	5	2	182	22	13	1	-
Uzbekistan	224	3	1	86	124	8	1	1
Ireland	214	31	48	27	73	14	21	-
Pakistan	203	6	6	87	63	14	27	-
Other or Not Stated	7,245	1,243	1,120	1,981	1,870	363	473	195

*See Technical Notes: Geographical Units, Birthplace Presentation.

Table M6. Deaths by Birthplace and Age Group, New York City, 2022*

		Age Group (Years)								
Birthplace	Total	<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	**60,596**	**646**	**495**	**1,426**	**2,347**	**3,880**	**8,155**	**11,683**	**13,977**	**17,987**
United States	33,959	623	374	1007	1,453	2,322	4,976	6,592	7,554	9,058
United States (excluding Puerto Rico)	29,820	623	371	984	1,389	2,211	4,618	5,827	6,190	7,607
Puerto Rico	4,139	-	3	23	64	111	358	765	1,364	1,451
China	3,029	2	4	16	46	95	245	475	699	1447
Dominican Republic	2,705	1	16	60	94	197	333	583	683	738
Jamaica	1,596	-	9	21	48	94	216	359	422	427
Guyana	1,192	-	5	10	27	96	172	257	300	325
Ukraine	1,172	-	2	5	16	23	58	148	279	641
Italy	1,027	-	-	1	2	8	35	122	270	589
Haiti	996	-	1	7	19	42	129	240	255	303
Trinidad and Tobago	727	-	3	5	24	42	122	158	215	158
Ecuador	653	2	8	13	31	48	88	102	155	206
Mexico	643	-	11	59	149	178	105	65	49	27
Russia	571	2	3	6	16	18	47	63	188	228
Poland	501	-	-	3	16	25	62	84	99	212
Colombia	446	1	-	8	13	17	48	80	127	152
India	417	-	6	14	17	19	49	89	114	109
Greece	381	-	-	-	1	5	19	51	115	190
Korea	368	-	2	6	8	14	28	75	96	139
Bangladesh	350	-	3	5	12	29	66	104	92	39
Cuba	341	-	-	-	2	4	27	54	72	182
Philippines	329	-	-	4	8	16	39	73	112	77
Germany	318	-	-	-	6	4	7	42	51	208
Barbados	285	-	-	-	2	9	25	54	80	115
Panama	242	-	1	-	2	3	24	55	66	91
Honduras	237	-	4	10	14	27	35	60	40	47
Belarus	225	-	-	1	3	4	9	22	49	137
Uzbekistan	224	-	-	7	9	10	17	40	77	64
Ireland	214	-	-	-	2	4	8	12	74	114
Pakistan	203	-	1	3	10	16	38	65	40	30
Other or Not Stated	7,245	15	42	155	297	511	1128	1559	1604	1934

*See Technical Notes: Geographical Units, Birthplace Presentation.

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2022

		All		Male		Female	
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	16,806	27.7	8,705	27.5	8,101	28.0
2	Malignant Neoplasms	11,368	18.8	5,711	18.1	5,657	19.5
3	Covid-19	4,394	7.3	2,256	7.1	2,138	7.4
4	Use of or Poisoning by Psychoactive Substance	3,125	5.2	2,460	7.8	665	2.3
5	Cerebrovascular Diseases	2,175	3.6	915	2.9	1,260	4.4
6	Diabetes Mellitus	1,766	2.9	963	3.0	803	2.8
7	Influenza and Pneumonia	1,575	2.6	803	2.5	772	2.7
8	Accidents Except Poisoning by Psychoactive Substance	1,461	2.4	935	3.0	526	1.8
9	Chronic Lower Respiratory Diseases	1,419	2.3	669	2.1	750	2.6
10	Essential Hypertension and Renal Diseases	1,241	2.0	533	1.7	708	2.4
	All Other Causes	15,266	25.2	7,684	24.3	7,582	26.2
	Total	**60,596**	**100.0**	**31,634**	**100.0**	**28,962**	**100.0**
Rank	< 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	119	27.9	61	26.2	58	29.9
2	Cardiovascular Disorders Originating in the Perinatal Period	56	13.1	32	13.7	24	12.4
3	Short Gestation and Low Birthweight	48	11.2	29	12.4	19	9.8
4	External Causes	32	7.5	17	7.3	15	7.7
5	Sudden Infant Death Syndrome	21	4.9	10	4.3	11	5.7
6	Respiratory Distress of Newborn	11	2.6	7	3.0	4	2.1
7	Bacterial Sepsis of Newborn	8	1.9	4	1.7	4	2.1
7	Newborn Affected by Complications of Pregnancy	8	1.9	4	1.7	4	2.1
7	Other Respiratory Conditions in Perinatal Period	8	1.9	6	2.6	2	1.0
7	Diseases of Heart	8	1.9	5	2.1	3	1.5
	All Other Causes	108	25.3	58	24.9	50	25.8
	Total	**427**	**100.0**	**233**	**100.0**	**194**	**100.0**
Rank	1 - 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	37	16.9	24	19.2	13	13.8
2	Accidents Except Poisoning by Psychoactive Substance	32	14.6	20	16.0	12	12.8
3	Congenital Malformations, Deformations	26	11.9	13	10.4	13	13.8
4	Assault (Homicide)	17	7.8	12	9.6	5	5.3
5	Diseases of Heart	11	5.0	6	4.8	5	5.3
6	Chronic Lower Respiratory Diseases	8	3.7	5	4.0	3	3.2
7	Complications of Medical and Surgical Care	7	3.2	3	2.4	4	4.3
	All Other Causes	81	37.0	42	33.6	39	41.5
	Total	**219**	**100.0**	**125**	**100.0**	**94**	**100.0**
Rank	15 - 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	97	19.6	78	21.6	19	14.2
2	Use of or Poisoning by Psychoactive Substance	93	18.8	69	19.1	24	17.9
3	Accidents Except Poisoning by Psychoactive Substance	67	13.5	46	12.7	21	15.7
4	Intentional Self-harm (Suicide)	55	11.1	42	11.6	13	9.7
5	Malignant Neoplasms	52	10.5	37	10.2	15	11.2
6	Diseases of Heart	12	2.4	9	2.5	3	2.2
7	Covid-19	11	2.2	6	1.7	5	3.7
8	Congenital Malformations, Deformations	8	1.6	4	1.1	4	3.0
9	Diabetes Mellitus	6	1.2	1	0.3	5	3.7
	All Other Causes	94	19.0	69	19.1	25	18.7
	Total	**495**	**100.0**	**361**	**100.0**	**134**	**100.0**
Rank	25 - 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	470	33.0	369	35.9	101	25.4
2	Intentional Self-harm (Suicide)	140	9.8	99	9.6	41	10.3
3	Assault (Homicide)	122	8.6	110	10.7	12	3.0
4	Accidents Except Poisoning by Psychoactive Substance	117	8.2	89	8.6	28	7.1
5	Malignant Neoplasms	101	7.1	59	5.7	42	10.6
6	Diseases of Heart	72	5.0	54	5.2	18	4.5
7	Human Immunodeficiency Virus (HIV) Disease	33	2.3	26	2.5	7	1.8
7	Mental Disorders Due to Use of Alcohol	33	2.3	24	2.3	9	2.3
9	Covid-19	28	2.0	18	1.7	10	2.5
10	Diabetes Mellitus	24	1.7	14	1.4	10	2.5
	All Other Causes	286	20.1	167	16.2	119	30.0
	Total	**1,426**	**100.0**	**1,029**	**100.0**	**397**	**100.0**
Rank	35-44 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	664	28.3	511	31.5	153	21.1
2	Malignant Neoplasms	277	11.8	138	8.5	139	19.1
3	Diseases of Heart	275	11.7	186	11.5	89	12.3
4	Intentional Self-harm (Suicide)	121	5.2	87	5.4	34	4.7
5	Accidents Except Poisoning by Psychoactive Substance	109	4.6	88	5.4	21	2.9
6	Assault (Homicide)	95	4.0	79	4.9	16	2.2
7	Chronic Liver Disease and Cirrhosis	85	3.6	64	3.9	21	2.9
8	Mental Disorder Due to Use of Alcohol	75	3.2	64	3.9	11	1.5
9	Covid-19	63	2.7	38	2.3	25	3.4
10	Diabetes Mellitus	49	2.1	32	2.0	17	2.3
	All Other Causes	534	22.8	334	20.6	200	27.5
	Total	**2,347**	**100.0**	**1,621**	**100.0**	**726**	**100.0**

Table is continued on following page

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2022 [CONTINUED]

		All		Male		Female	
Rank	45 - 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	750	19.3	343	13.5	407	30.2
2	Diseases of Heart	735	18.9	525	20.7	210	15.6
3	Use of or Poisoning by Psychoactive Substance	703	18.1	550	21.7	153	11.4
4	Covid-19	179	4.6	110	4.3	69	5.1
5	Accidents Except Poisoning by Psychoactive Substance	128	3.3	102	4.0	26	1.9
6	Cerebrovascular Diseases	123	3.2	74	2.9	49	3.6
7	Chronic Liver Disease and Cirrhosis	122	3.1	88	3.5	34	2.5
8	Diabetes Mellitus	119	3.1	80	3.2	39	2.9
9	Mental Disorder Due to Use of Alcohol	104	2.7	89	3.5	15	1.1
10	Intentional Self-harm (Suicide)	80	2.1	63	2.5	17	1.3
	All Other Causes	837	21.6	510	20.1	327	24.3
	Total	**3,880**	**100.0**	**2,534**	**100.0**	**1,346**	**100.0**
Rank	55 - 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	2,044	25.1	1,411	27.5	633	20.9
2	Malignant Neoplasms	2,000	24.5	1,009	19.7	991	32.7
3	Use of or Poisoning by Psychoactive Substance	852	10.4	678	13.2	174	5.7
4	Covid-19	440	5.4	252	4.9	188	6.2
5	Diabetes Mellitus	265	3.2	157	3.1	108	3.6
6	Cerebrovascular Diseases	222	2.7	137	2.7	85	2.8
7	Accidents Except Poisoning by Psychoactive Substance	198	2.4	157	3.1	41	1.4
8	Influenza and Pneumonia	164	2.0	88	1.7	76	2.5
9	Chronic Liver Disease and Cirrhosis	162	2.0	123	2.4	39	1.3
10	Chronic Lower Respiratory Diseases	138	1.7	83	1.6	55	1.8
	All Other Causes	1,670	20.5	1,027	20.1	643	21.2
	Total	**8,155**	**100.0**	**5,122**	**100.0**	**3,033**	**100.0**
Rank	65 - 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,207	27.5	1,700	24.9	1,507	31.1
2	Diseases of Heart	3,113	26.6	1,983	29.0	1,130	23.3
3	Covid-19	811	6.9	467	6.8	344	7.1
4	Diabetes Mellitus	394	3.4	240	3.5	154	3.2
5	Cerebrovascular Diseases	373	3.2	198	2.9	175	3.6
6	Use of or Poisoning by Psychoactive Substance	314	2.7	257	3.8	57	1.2
7	Influenza and Pneumonia	308	2.6	190	2.8	118	2.4
8	Chronic Lower Respiratory Diseases	280	2.4	139	2.0	141	2.9
9	Septicemia	252	2.2	145	2.1	107	2.2
10	Accidents Except Poisoning by Psychoactive Substance	230	2.0	151	2.2	79	1.6
	All Other Causes	2,401	20.6	1,361	19.9	1,040	21.4
	Total	**11,683**	**100.0**	**6,831**	**100.0**	**4,852**	**100.0**
Rank	75 - 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,127	29.5	2,160	30.6	1,967	28.4
2	Malignant Neoplasms	2,974	21.3	1,515	21.5	1,459	21.1
3	Covid-19	1,197	8.6	627	8.9	570	8.2
4	Cerebrovascular Disease	540	3.9	238	3.4	302	4.4
5	Chronic Lower Respiratory Diseases	491	3.5	231	3.3	260	3.8
6	Diabetes Mellitus	486	3.5	274	3.9	212	3.1
7	Influenza and Pneumonia	413	3.0	219	3.1	194	2.8
8	Essential Hypertension and Hypertensive Renal Disease	311	2.2	137	1.9	174	2.5
9	Septicemia	284	2.0	136	1.9	148	2.1
10	Accidents Except Poisoning by Psychoactive Substance	264	1.9	142	2.0	122	1.8
	All Other Causes	2,890	20.7	1,377	19.5	1,513	21.9
	Total	**13,977**	**100.0**	**7,056**	**100.0**	**6,921**	**100.0**
Rank	≥85 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	6,409	35.6	2,366	35.2	4,043	35.9
2	Malignant Neoplasms	1,969	10.9	886	13.2	1,083	9.6
3	Covid-19	1,657	9.2	734	10.9	923	8.2
4	Cerebrovascular Diseases	847	4.7	226	3.4	621	5.5
5	Alzheimer's Disease	690	3.8	160	2.4	530	4.7
6	Influenza and Pneumonia	572	3.2	233	3.5	339	3.0
7	Essential Hypertension and Hypertensive Renal Disease	563	3.1	184	2.7	379	3.4
8	Diabetes Mellitus	420	2.3	165	2.5	255	2.3
9	Chronic Lower Respiratory Diseases	418	2.3	175	2.6	243	2.2
10	Accidents Except Poisoning by Psychoactive Substance	305	1.7	133	2.0	172	1.5
	All Other Causes	4,137	23.0	1,460	21.7	2,677	23.8
	Total	**17,987**	**100.0**	**6,722**	**100.0**	**11,265**	**100.0**

Table M8. Leading Causes of Death by Racial/Ethnic Group* and Sex, New York City, 2022

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,366	25.5	721	26.2	645	24.8
2	Malignant Neoplasms	829	15.5	434	15.8	395	15.2
3	Covid-19	436	8.1	210	7.6	226	8.7
4	Use of or Poisoning by Psychoactive Substance	377	7.0	304	11.1	73	2.8
5	Diabetes Mellitus	217	4.1	118	4.3	99	3.8
6	Cerebrovascular Diseases	192	3.6	76	2.8	116	4.5
7	Influenza and Pneumonia	153	2.9	76	2.8	77	3.0
8	Chronic Lower Respiratory Diseases	151	2.8	71	2.6	80	3.1
9	Alzheimer's Disease	124	2.3	33	1.2	91	3.5
10	Essential Hypertension and Hypertensive Renal Disease	107	2.0	46	1.7	61	2.3
	All Other Causes	1,400	26.2	660	24.0	740	28.4
	Total	**5,352**	**100.0**	**2,749**	**100.0**	**2,603**	**100.0**
Rank	Hispanic/Latino not of Puerto Rican ancestry	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,790	22.5	982	21.8	808	23.5
2	Malignant Neoplasms	1,379	17.3	712	15.8	667	19.4
3	Use of or Poisoning by Psychoactive Substance	694	8.7	585	13.0	109	3.2
4	Covid-19	535	6.7	275	6.1	260	7.6
5	Cerebrovascular Diseases	285	3.6	135	3.0	150	4.4
6	Accidents Except Poisoning by Psychoactive Substance	275	3.5	219	4.9	56	1.6
7	Diabetes Mellitus	238	3.0	138	3.1	100	2.9
8	Influenza and Pneumonia	201	2.5	100	2.2	101	2.9
9	Chronic Liver Disease and Cirrhosis	166	2.1	139	3.1	27	0.8
10	Septicemia	144	1.8	73	1.6	71	2.1
	All Other Causes	2,246	28.2	1,156	25.6	1,090	31.7
	Total	**7,953**	**100.0**	**4,514**	**100.0**	**3,439**	**100.0**
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,577	26.7	822	26.0	755	27.6
2	Malignant Neoplasms	1,341	22.7	728	23.0	613	22.4
3	Covid-19	510	8.6	284	9.0	226	8.3
4	Cerebrovascular Diseases	259	4.4	121	3.8	138	5.0
5	Diabetes Mellitus	187	3.2	102	3.2	85	3.1
6	Influenza and Pneumonia	184	3.1	107	3.4	77	2.8
7	Accidents Except Poisoning by Psychoactive Substance	170	2.9	94	3.0	76	2.8
8	Essential Hypertension and Hypertensive Renal Disease	133	2.3	62	2.0	71	2.6
9	Chronic Lower Respiratory Diseases	107	1.8	71	2.2	36	1.3
10	Septicemia	99	1.7	54	1.7	45	1.6
	All Other Causes	1,339	22.7	722	22.8	617	22.5
	Total	**5,906**	**100.0**	**3,167**	**100.0**	**2,739**	**100.0**
Rank	Non-Hispanic/Latino White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	6,947	30.0	3,544	29.8	3,403	30.2
2	Malignant Neoplasms	4,657	20.1	2,394	20.1	2,263	20.1
3	Covid-19	1,739	7.5	929	7.8	810	7.2
4	Use of or Poisoning by Psychoactive Substance	808	3.5	628	5.3	180	1.6
5	Cerebrovascular Diseases	771	3.3	296	2.5	475	4.2
6	Chronic Lower Respiratory Diseases	644	2.8	285	2.4	359	3.2
7	Influenza and Pneumonia	620	2.7	320	2.7	300	2.7
8	Accidents Except Poisoning by Psychoactive Substance	497	2.1	288	2.4	209	1.9
9	Alzheimer's Disease	469	2.0	131	1.1	338	3.0
10	Essential Hypertension and Hypertensive Renal Disease	461	2.0	202	1.7	259	2.3
	All Other Causes	5,562	24.0	2,872	24.2	2,690	23.8
	Total	**23,175**	**100.0**	**11,889**	**100.0**	**11,286**	**100.0**
Rank	Non-Hispanic/Latino Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,653	28.1	2,344	28.2	2,309	28.0
2	Malignant Neoplasms	2,916	17.6	1,308	15.8	1,608	19.5
3	Use of or Poisoning by Psychoactive Substance	1,071	6.5	808	9.7	263	3.2
4	Covid-19	1,069	6.5	496	6.0	573	7.0
5	Diabetes Mellitus	636	3.8	307	3.7	329	4.0
6	Cerebrovascular Diseases	600	3.6	251	3.0	349	4.2
7	Influenza and Pneumonia	383	2.3	176	2.1	207	2.5
8	Essential Hypertension and Hypertensive Renal Disease	368	2.2	149	1.8	219	2.7
9	Septicemia	358	2.2	174	2.1	184	2.2
10	Accidents Except Poisoning by Psychoactive Substance	354	2.1	233	2.8	121	1.5
	All Other Causes	4,128	25.0	2,058	24.8	2,070	25.1
	Total	**16,536**	**100.0**	**8,304**	**100.0**	**8,232**	**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, 2022

		All		Male		Female	
Rank	Cause of Death	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,218	19.0	1,610	14.6	1,608	27.1
	Trachea, bronchus, and lung	477	2.8	283	2.6	194	3.3
	Breast	359	2.1	2	0.0	357	6.0
	Colon, rectum, and anus	353	2.1	194	1.8	159	2.7
	Pancreas	232	1.4	121	1.1	111	1.9
	Liver and intrahepatic bile ducts	174	1.0	122	1.1	52	0.9
2	Diseases of Heart	3,157	18.6	2,196	19.9	961	16.2
3	Use of or Poisoning by Psychoactive Substance	2,783	16.4	2,178	19.8	605	10.2
4	Covid-19	729	4.3	428	3.9	301	5.1
5	Accidents Except Poisoning by Psychoactive Substance	662	3.9	509	4.6	153	2.6
6	Intentional Self-harm (Suicide)	500	3.0	363	3.3	137	2.3
7	Diabetes Mellitus	466	2.7	284	2.6	182	3.1
8	Assault (Homicide)	429	2.5	352	3.2	77	1.3
9	Cerebrovascular Diseases	415	2.4	253	2.3	162	2.7
10	Chronic Liver Disease and Cirrhosis	390	2.3	289	2.6	101	1.7
	All Other Causes	4,200	24.8	2,563	23.2	1,637	27.6
	Total	**16,949**	**100.0**	**11,025**	**100.0**	**5,924**	**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, 2022

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	336	23.8	268	28.2	68	14.8
2	Diseases of Heart	255	18.1	174	18.3	81	17.6
3	Malignant Neoplasms	207	14.7	112	11.8	95	20.7
4	Covid-19	67	4.8	40	4.2	27	5.9
5	Diabetes Mellitus	53	3.8	33	3.5	20	4.3
6	Accidents Except Poisoning by Psychoactive Substance	45	3.2	35	3.7	10	2.2
7	Chronic Liver Disease and Cirrhosis	37	2.6	29	3.1	8	1.7
8	Chronic Lower Respiratory Diseases	33	2.3	22	2.3	11	2.4
9	Assault (Homicide)	30	2.1	24	2.5	6	1.3
10	Influenza and Pneumonia	27	1.9	17	1.8	10	2.2
10	Cerebrovascular Diseases	27	1.9	15	1.6	12	2.6
	All Other Causes	292	20.7	180	19.0	112	24.3
	Total	**1,409**	**100.0**	**949**	**100.0**	**460**	**100.0**
Rank	**Hispanic/Latino not of Puerto Rican ancestry**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Use of or Poisoning by Psychoactive Substance	654	20.3	553	24.3	101	10.7
2	Malignant Neoplasms	526	16.4	271	11.9	255	27.1
3	Diseases of Heart	494	15.4	348	15.3	146	15.5
4	Accidents Except Poisoning by Psychoactive Substance	187	5.8	161	7.1	26	2.8
5	Chronic Liver Disease and Cirrhosis	128	4.0	111	4.9	17	1.8
6	Covid-19	127	3.9	84	3.7	43	4.6
7	Mental Disorders Due to Use of Alcohol	95	3.0	87	3.8	8	0.9
8	Intentional Self-harm (Suicide)	90	2.8	72	3.2	18	1.9
9	Assault (Homicide)	82	2.5	67	2.9	15	1.6
10	Cerebrovascular Diseases	77	2.4	56	2.5	21	2.2
	All Other Causes	756	23.5	465	20.4	291	30.9
	Total	**3,216**	**100.0**	**2,275**	**100.0**	**941**	**100.0**
Rank	**Asian and Pacific Islander**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Malignant Neoplasms	394	31.2	198	25.1	196	41.4
2	Diseases of Heart	217	17.2	169	21.4	48	10.1
3	Intentional Self-harm (Suicide)	72	5.7	36	4.6	36	7.6
4	Covid-19	61	4.8	38	4.8	23	4.9
5	Cerebrovascular Diseases	52	4.1	30	3.8	22	4.6
6	Use of or Poisoning by Psychoactive Substance	52	4.1	39	4.9	13	2.7
7	Accidents Except Poisoning by Psychoactive Substance	47	3.7	32	4.1	15	3.2
8	Diabetes Mellitus	33	2.6	19	2.4	14	3.0
9	Chronic Liver Disease and Cirrhosis	28	2.2	23	2.9	5	1.1
10	Mental Disorders Due to Use of Alcohol	23	1.8	21	2.7	2	0.4
	All Other Causes	284	22.5	184	23.3	100	21.1
	Total	**1,263**	**100.0**	**789**	**100.0**	**474**	**100.0**
Rank	**Non-Hispanic/Latino White**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Malignant Neoplasms	1,017	23.4	546	18.7	471	32.7
2	Diseases of Heart	769	17.7	587	20.1	182	12.6
3	Use of or Poisoning by Psychoactive Substance	756	17.4	589	20.2	167	11.6
4	Intentional Self-harm (Suicide)	208	4.8	156	5.4	52	3.6
5	Covid-19	172	3.9	109	3.7	63	4.4
6	Accidents Except Poisoning by Psychoactive Substance	134	3.1	102	3.5	32	2.2
7	Chronic Liver Disease and Cirrhosis	113	2.6	68	2.3	45	3.1
8	Mental Disorders Due to Use of Alcohol	99	2.3	81	2.8	18	1.2
9	Diabetes Mellitus	90	2.1	61	2.1	29	2.0
10	Cerebrovascular Diseases	78	1.8	44	1.5	34	2.4
	All Other Causes	919	21.1	571	19.6	348	24.1
	Total	**4,355**	**100.0**	**2,914**	**100.0**	**1,441**	**100.0**
Rank	**Non-Hispanic/Latino Black**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Diseases of Heart	1,324	21.7	847	23.0	477	19.8
2	Malignant Neoplasms	988	16.2	441	12.0	547	22.7
3	Use of or Poisoning by Psychoactive Substance	883	14.5	649	17.6	234	9.7
4	Covid-19	272	4.5	137	3.7	135	5.6
5	Assault (Homicide)	260	4.3	218	5.9	42	1.7
6	Accidents Except Poisoning by Psychoactive Substance	213	3.5	150	4.1	63	2.6
7	Diabetes Mellitus	205	3.4	111	3.0	94	3.9
8	Cerebrovascular Diseases	162	2.7	98	2.7	64	2.7
9	Human Immunodeficiency Virus (HIV) Disease	129	2.1	90	2.4	39	1.6
10	Influenza and Pneumonia	122	2.0	61	1.7	61	2.5
	All Other Causes	1,535	25.2	882	23.9	653	27.1
	Total	**6,093**	**100.0**	**3,684**	**100.0**	**2,409**	**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, 2022

				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†	**60,596**	**7.3**	**5.8**	**13,305**	**5.5**	**5.4**	**23,175**	**8.9**	**5.7**	**16,536**	**9.1**	**7.4**	**5,906**	**4.5**	**3.7**	**1,674**	**31,634**	**7.3**	**5.5**	**28,962**	**6.7**	**4.6**
Natural Causes	**54,720**	**656.4**	**514.4**	**11,558**	**477.0**	**466.2**	**21,476**	**820.2**	**512.4**	**14,683**	**810.1**	**643.6**	**5,559**	**427.4**	**343.8**	**1,444**	**27,287**	**681.0**	**622.3**	**27,433**	**633.7**	**431.2**
Human Immunodeficiency Virus (HIV) Disease	301	3.6	3.2	81	3.3	3.2	28	1.1	0.9	175	9.7	8.5	1	0.1	0.1	16	219	5.5	5.0	82	1.9	1.6
Malignant Neoplasms	11,368	136.4	109.0	2,208	91.1	88.2	4,657	177.9	119.9	2,916	160.9	127.1	1,341	103.1	82.9	246	5,711	142.5	128.0	5,657	130.7	95.8
Malignant neoplasm of stomach	357	4.3	3.5	108	4.5	4.3	96	3.7	2.6	77	4.2	3.3	71	5.5	4.4	5	231	5.8	5.2	126	2.9	2.1
Malignant neoplasms of colon, rectum, and anus	1,047	12.6	10.1	198	8.2	7.9	403	15.4	10.6	292	16.1	12.9	133	10.2	8.2	21	540	13.5	12.1	507	11.7	8.6
Malignant neoplasm of pancreas	982	11.8	9.3	181	7.5	7.2	422	16.1	10.7	270	14.9	11.6	91	7.0	5.5	18	486	12.1	10.8	496	11.5	8.2
Malignant neoplasms of trachea, bronchus, and lung (male)	1,095	27.3	24.2	180	15.3	17.7	462	35.8	26.2	244	29.3	26.4	188	30.2	24.1	21	1,095	27.3	24.2	-	-	-
Malignant neoplasms of trachea, bronchus, and lung (female)	914	21.1	15.1	130	10.4	8.9	434	32.7	19.7	210	21.4	14.9	116	17.1	13.1	24	-	-	-	914	21.1	15.1
Malignant neoplasm of breast (female)	826	19.1	14.7	146	11.7	10.3	312	23.5	15.7	269	27.4	20.4	73	10.8	8.6	26	-	-	-	826	19.1	14.7
Malignant neoplasm of cervix uteri (female)	93	2.1	1.7	25	2.0	1.9	28	2.1	1.6	29	3.0	2.1	9	1.3	1.0	2	-	-	-	93	2.1	1.7
Malignant neoplasm of ovary (female)	264	6.1	4.6	45	3.6	3.1	108	8.1	5.3	73	7.4	5.5	34	5.0	4.0	4	-	-	-	264	6.1	4.6
Malignant neoplasm of prostate (male)	606	15.1	13.7	114	9.7	12.3	203	15.7	10.9	231	27.8	26.6	38	6.1	5.4	20	606	15.1	13.7	-	-	-
Leukemia	476	5.7	4.6	98	4.0	4.0	252	9.6	6.5	73	4.0	3.4	44	3.4	2.9	9	258	6.4	5.9	218	5.0	3.7
Diabetes Mellitus	1,766	21.2	16.8	455	18.8	18.3	445	17.0	11.3	636	35.1	27.9	187	14.4	11.5	43	963	24.0	21.6	803	18.6	13.1
Parkinson's Disease	427	5.1	3.8	90	3.7	3.7	237	9.1	5.1	58	3.2	2.4	35	2.7	2.1	7	251	6.3	5.8	176	4.1	2.5
Alzheimer's Disease	979	11.7	8.5	267	11.0	11.0	469	17.9	9.4	149	8.2	6.2	78	6.0	4.8	16	267	6.7	6.4	712	16.4	9.6
Diseases of Heart	16,806	201.6	155.1	3,156	130.2	127.4	6,947	265.3	158.9	4,653	256.7	201.2	1,577	121.3	96.7	473	8,705	217.2	198.4	8,101	187.1	121.3
Hypertensive heart disease	2,316	27.8	21.7	486	20.1	19.6	810	30.9	18.9	771	42.5	33.8	191	14.7	11.8	58	1,120	28.0	25.7	1,196	27.6	18.1
Chronic ischemic heart diseases	10,417	125.0	95.6	1,839	75.9	74.2	4,471	170.8	101.8	2,761	152.3	118.2	1,026	78.9	62.7	320	5,530	138.0	125.6	4,887	112.9	72.3
Acute myocardial infarction	1,494	17.9	13.8	305	12.6	12.3	660	25.2	15.4	342	18.9	14.7	156	12.0	9.6	31	780	19.5	17.7	714	16.5	10.7
Essential (Primary) Hypertension and Hypertensive Renal Disease	1,241	14.9	11.2	244	10.1	9.9	461	17.6	10.2	368	20.3	15.8	133	10.2	8.1	35	533	13.3	12.2	708	16.4	10.4
Cerebrovascular Diseases	2,175	26.1	20.1	477	19.7	19.3	771	29.4	17.4	600	33.1	26.0	259	19.9	16.0	68	915	22.8	20.8	1,260	29.1	19.0
Influenza and Pneumonia	1,575	18.9	14.6	354	14.6	14.3	620	23.7	14.2	383	21.1	16.8	184	14.1	11.3	34	803	20.0	18.4	772	17.8	11.9
Chronic Lower Respiratory Diseases	1,419	17.0	13.2	293	12.1	11.8	644	24.6	15.0	342	18.9	14.9	107	8.2	6.6	33	669	16.7	15.2	750	17.3	11.8
Asthma	149	1.8	1.6	47	1.9	1.9	16	0.6	0.5	68	3.8	3.3	12	0.9	0.8	6	55	1.4	1.3	94	2.2	1.8
Chronic Liver Disease and Cirrhosis	594	7.1	6.2	250	10.3	9.9	174	6.6	5.5	94	5.2	4.3	45	3.5	2.9	31	416	10.4	9.4	178	4.1	3.4
COVID-19	4,394	52.7	40.5	971	40.1	39.2	1,739	66.4	39.6	1,069	59.0	46.3	510	39.2	31.1	105	2,256	56.3	51.8	2,138	49.4	32.8
External Causes	**5,876**	**70.5**	**64.8**	**1,747**	**72.1**	**70.4**	**1,699**	**64.9**	**55.8**	**1,853**	**102.2**	**93.4**	**347**	**26.7**	**23.9**	**230**	**4,347**	**108.5**	**101.9**	**1,529**	**35.3**	**31.0**
Motor Vehicle Accidents	271	3.3	3.1	95	3.9	3.9	61	2.3	2.1	84	4.6	4.4	26	2.0	1.8	5	196	4.9	4.7	75	1.7	1.6
Falls	619	7.4	5.8	134	5.5	5.4	285	10.9	6.6	86	4.7	3.8	90	6.9	5.6	24	372	9.3	8.6	247	5.7	3.6
Intentional Self-harm (Suicide)	601	7.2	6.8	133	5.5	5.4	260	9.9	9.1	102	5.6	5.6	86	6.6	6.2	20	438	10.9	10.4	163	3.8	3.6
Assault (Homicide)	454	5.4	5.6	117	4.8	4.8	39	1.5	1.3	270	14.9	15.8	18	1.4	1.4	10	367	9.2	9.2	87	2.0	2.1
Events of Undetermined Intent	223	2.7	2.5	48	2.0	2.0	81	3.1	2.7	59	3.3	3.1	16	1.2	1.1	19	160	4.0	3.8	63	1.5	1.4
Mental and Behavioral Disorders Due to Use of or Accidental Poisoning by Psychoactive Substances, Excluding Alcohol	3,125	37.5	34.8	1,071	44.2	42.9	808	30.9	29.3	1,071	59.1	51.5	53	4.1	4.0	122	2,460	61.4	56.9	665	15.4	14.4
Accidents Except Drug Poisoning	1,461	17.5	14.9	379	15.6	15.3	497	19.0	13.0	354	19.5	17.4	170	13.1	11.1	61	935	23.3	21.9	526	12.2	9.1

* 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 2022 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, 2022

Community District of Residence	2022 Pop. Est.	All Causes (Rate per 1,000) No.	All Causes (Rate per 1,000) Crude Rate	All Causes (Rate per 1,000) Age-Adj. Rate	Heart Diseases No.	Heart Diseases Crude Rate	Malignant Neoplasms No.	Malignant Neoplasms Crude Rate	HIV Disease No.	HIV Disease Crude Rate	Influenza and Pneumonia No.	Influenza and Pneumonia Crude Rate	Cerebro-vascular Diseases No.	Cerebro-vascular Diseases Crude Rate	Chronic Lower Respiratory Diseases No.	Chronic Lower Respiratory Diseases Crude Rate	Chronic Liver Disease & Cirrhosis No.	Chronic Liver Disease & Cirrhosis Crude Rate	Diabetes Mellitus No.	Diabetes Mellitus Crude Rate	Mental Disorders due to Substance Use & Accidental Poisoning No.	Mental Disorders due to Substance Use & Accidental Poisoning Crude Rate	Accidents Except Drug Poisoning No.	Accidents Except Drug Poisoning Crude Rate	Intentional Self-harm (Suicide) No.	Intentional Self-harm (Suicide) Crude Rate	Assault (Homicide)† No.	Assault (Homicide)† Crude Rate	Events of Undeter-mined Intent No.	Events of Undeter-mined Intent Crude Rate
ALL DEATH EVENTS	**8,335,897**	**60,596**	**7.3**	**5.8**	**16,806**	**201.6**	**11,368**	**136.4**	**301**	**3.6**	**1,575**	**18.9**	**2,175**	**26.1**	**1,419**	**17.0**	**594**	**7.1**	**1,766**	**21.2**	**3,125**	**37.5**	**1,461**	**17.5**	**601**	**7.2**	**454**	**5.4**	**223**	**2.7**
MANHATTAN‡	**1,585,177**	**10,382**	**6.5**	**4.7**	**2,588**	**163.3**	**2,047**	**129.1**	**52**	**3.3**	**238**	**15.0**	**421**	**26.6**	**254**	**16.0**	**78**	**4.9**	**249**	**15.7**	**469**	**29.6**	**270**	**17.0**	**126**	**7.9**	**52**	**3.3**	**29**	**1.8**
Battery Park, Tribeca (01)	58,778	181	3.1	3.7	35	59.5	47	80.0	-	-	4	6.8	9	15.3	9	15.3	1	1.7	-	-	6	10.2	4	6.8	2	3.4	-	-	-	-
Greenwich Village, SOHO (02)	85,069	398	4.7	3.3	101	118.7	101	118.7	2	2.4	8	9.4	15	17.6	11	12.9	3	3.5	5	5.9	7	8.2	7	8.2	3	3.5	-	-	2	2.4
Lower East Side (03)	167,882	1,287	7.7	4.9	316	188.2	244	145.3	7	4.2	28	16.7	56	33.4	25	14.9	10	6.0	38	22.6	66	39.3	42	25.0	16	9.5	10	6.0	2	1.2
Chelsea, Clinton (04)	139,369	677	4.9	3.9	164	117.7	119	85.4	4	2.9	21	15.1	23	16.5	21	15.1	8	5.7	11	7.9	41	29.4	22	15.8	13	9.3	7	5.0	2	1.4
Midtown Business District (05)	58,093	254	4.4	3.6	69	118.8	54	93.0	2	3.4	6	10.3	11	18.9	6	10.3	1	1.7	4	6.9	18	31.0	6	10.3	5	8.6	1	1.7	-	-
Murray Hill (06)	135,274	743	5.5	3.3	181	133.8	176	130.1	1	0.7	22	16.3	37	27.4	15	11.1	7	5.2	10	7.4	21	15.5	18	13.3	10	7.4	1	0.7	2	1.5
Upper West Side (07)	203,026	1,470	7.2	4.2	370	182.2	302	148.7	5	2.5	48	23.6	59	29.1	37	18.2	4	2.0	19	9.4	38	18.7	41	20.2	15	7.4	4	2.0	9	4.4
Upper East Side (08)	212,722	1,449	6.8	3.9	386	181.5	312	146.7	3	1.4	23	10.8	66	31.0	27	12.7	10	4.7	24	11.3	27	12.7	33	15.5	16	7.5	3	1.4	3	1.4
Manhattanville (09)	105,715	644	6.1	5.4	161	152.3	119	112.6	4	3.8	12	11.4	28	26.5	15	14.2	5	4.7	16	15.1	35	33.1	12	11.4	7	6.6	3	2.8	-	-
Central Harlem (10)	112,206	948	8.4	8.3	251	223.7	168	149.7	6	5.3	14	12.5	26	23.2	30	26.7	8	7.1	32	28.5	61	54.4	15	13.4	8	7.1	7	6.2	2	1.8
East Harlem (11)	119,794	1,128	9.4	7.9	259	216.2	189	157.8	7	5.8	36	30.1	44	36.7	28	23.4	10	8.3	53	44.2	84	70.1	36	30.1	12	10.0	9	7.5	5	4.2
Washington Heights (12)	187,222	1,203	6.4	5.0	295	157.6	216	115.4	11	5.9	16	8.5	47	25.1	30	16.0	11	5.9	37	19.8	65	34.7	34	18.2	19	10.1	7	3.7	2	1.1
BRONX‡	**1,384,735**	**10,560**	**7.6**	**6.8**	**2,828**	**204.2**	**1,688**	**121.9**	**111**	**8.0**	**297**	**21.4**	**376**	**27.2**	**272**	**19.6**	**122**	**8.8**	**357**	**25.8**	**860**	**62.1**	**251**	**18.1**	**90**	**6.5**	**127**	**9.2**	**27**	**1.9**
Mott Haven (01)	93,818	740	7.9	7.9	191	203.6	111	118.3	9	9.6	19	20.3	32	34.1	16	17.1	13	13.9	22	23.4	77	82.1	14	14.9	8	8.5	11	11.7	3	3.2
Hunts Point (02)	53,508	403	7.5	7.6	93	173.8	60	112.1	4	7.5	17	31.8	8	15.0	9	16.8	4	7.5	18	33.6	41	76.6	16	29.9	2	3.7	7	13.1	2	3.7
Morrisania (03)	86,505	671	7.8	8.4	164	189.6	86	99.4	11	12.7	19	22.0	22	25.4	22	25.4	10	11.6	22	25.4	100	115.6	15	17.3	8	9.2	8	9.2	-	-
Concourse, Highbridge (04)	148,445	986	6.6	6.7	264	177.8	158	106.4	21	14.1	40	26.9	30	20.2	22	14.8	5	3.4	34	22.9	92	62.0	24	16.2	9	6.1	12	8.1	1	0.7
University/Morris Heights (05)	128,534	868	6.8	7.8	213	165.7	138	107.4	18	14.0	23	17.9	24	18.7	18	14.0	14	10.9	24	18.7	98	76.2	30	23.3	14	10.9	20	15.6	3	2.3
East Tremont (06)	82,612	674	8.2	8.9	169	204.6	93	112.6	14	16.9	16	19.4	18	21.8	27	32.7	11	13.3	29	35.1	70	84.7	18	21.8	4	4.8	13	15.7	4	4.8
Fordham (07)	140,508	948	6.7	6.9	235	167.3	149	106.0	5	3.6	20	14.2	41	29.2	29	20.6	13	9.3	29	20.6	93	66.2	27	19.2	13	9.3	8	5.7	2	1.4
Riverdale (08)	97,357	969	10.0	6.1	293	301.0	160	164.3	3	3.1	20	20.5	43	44.2	20	20.5	9	9.2	27	27.7	46	47.2	17	17.5	2	2.1	2	2.1	2	2.1
Unionport, Soundview (09)	177,763	1,243	7.0	6.2	328	184.5	191	107.4	7	3.9	34	19.1	39	21.9	29	16.3	17	9.6	46	25.9	96	54.0	27	15.2	9	5.1	10	5.6	3	1.7
Throgs Neck (10)	115,936	1,033	8.9	5.7	317	273.4	190	163.9	2	1.7	32	27.6	40	34.5	29	25.0	8	6.9	35	30.2	36	31.1	20	17.3	4	3.5	7	6.0	1	0.9
Pelham Parkway (11)	109,936	918	8.4	6.4	254	231.0	156	141.9	4	3.6	29	26.4	39	35.5	30	27.3	5	4.5	32	29.1	44	40.0	21	19.1	5	4.5	10	9.1	2	1.8
Williamsbridge (12)	148,003	1,107	7.5	6.3	307	207.4	196	132.4	13	8.8	28	18.9	40	27.0	21	14.2	13	8.8	39	26.4	67	45.3	22	14.9	12	8.1	19	12.8	4	2.7
BROOKLYN	**2,590,516**	**16,977**	**6.6**	**5.5**	**5,089**	**196.4**	**2,971**	**114.7**	**78**	**3.0**	**564**	**21.8**	**583**	**22.5**	**340**	**13.1**	**144**	**5.6**	**516**	**19.9**	**703**	**27.1**	**333**	**12.9**	**152**	**5.9**	**136**	**5.2**	**68**	**2.6**
Williamsburg, Greenpoint (01)	196,469	775	3.9	4.4	203	103.3	134	68.2	5	2.5	30	15.3	31	15.8	14	7.1	10	5.1	23	11.7	45	22.9	17	8.7	12	6.1	2	1.0	-	-
Fort Greene, Brooklyn Heights (02)	132,962	655	4.9	4.3	193	145.2	115	86.5	3	2.3	17	12.8	20	15.0	15	11.3	7	5.3	31	23.3	28	21.1	10	7.5	8	6.0	2	1.5	1	0.8
Bedford Stuyvesant (03)	145,283	956	6.6	6.2	251	172.8	144	99.1	9	6.2	29	20.0	34	23.4	28	19.3	9	6.2	30	20.6	76	52.3	27	18.6	7	4.8	15	10.3	5	3.4
Bushwick (04)	107,582	515	4.8	5.3	134	124.6	69	64.1	4	3.7	16	14.9	17	15.8	7	6.5	5	4.6	25	23.2	34	31.6	8	7.4	10	9.3	5	4.6	2	1.9
East New York (05)	171,491	1,385	8.1	7.4	415	242.0	224	130.6	10	5.8	31	18.1	55	32.1	30	17.5	13	7.6	71	41.4	81	47.2	18	10.5	4	2.3	25	14.6	7	4.1
Park Slope (06)	108,815	511	4.7	4.9	129	118.5	109	100.2	2	1.8	14	12.9	18	16.5	10	9.2	3	2.8	19	17.5	27	24.8	11	10.1	5	4.6	4	3.7	1	0.9
Sunset Park (07)	129,773	645	5.0	5.3	157	121.0	115	88.6	1	0.8	13	10.0	29	22.3	18	13.9	9	6.9	12	9.2	23	17.7	19	14.6	8	6.2	4	3.1	2	1.5
Crown Heights North (08)	93,586	607	6.5	5.7	166	177.4	98	104.7	3	3.2	18	19.2	27	28.9	15	16.0	6	6.4	24	25.6	32	34.2	21	22.4	1	1.1	8	8.5	2	2.1
Crown Heights South (09)	95,710	721	7.5	5.9	207	216.3	139	145.2	6	6.3	12	12.5	22	23.0	13	13.6	6	6.3	24	25.1	27	28.2	11	11.5	17	17.8	9	9.4	3	3.1
Bay Ridge (10)	142,158	930	6.5	4.9	249	175.2	191	134.4	-	-	39	27.4	35	24.6	23	16.2	11	7.7	15	10.6	27	19.0	26	18.3	11	7.7	1	0.7	3	2.1
Bensonhurst (11)	206,900	1,313	6.3	4.5	408	197.2	235	113.6	-	-	58	28.0	35	16.9	35	16.9	10	4.8	33	15.9	35	16.9	37	17.9	6	2.9	6	2.9	4	1.9
Borough Park (12)	200,441	920	4.6	4.4	287	143.2	162	80.8	-	-	65	32.4	27	13.5	13	6.5	5	2.5	24	12.0	21	10.5	9	4.5	7	3.5	-	-	5	2.5
Coney Island (13)	107,723	1,295	12.0	6.7	471	437.2	198	183.8	4	3.7	43	39.9	41	38.1	22	20.4	8	7.4	18	16.7	37	34.3	20	18.6	5	4.6	6	5.6	6	5.6
Flatbush, Midwood (14)	162,170	1,018	6.3	5.4	323	199.2	181	111.6	2	1.2	54	33.3	41	25.3	12	7.4	6	3.7	26	16.0	29	17.9	16	9.9	13	8.0	5	3.1	4	2.5
Sheepshead Bay (15)	175,177	1,347	7.7	5.0	481	274.6	256	146.1	1	0.6	39	22.3	30	17.1	22	12.6	12	6.9	26	14.8	43	24.5	20	11.4	15	8.6	2	1.1	8	4.6
Brownsville (16)	79,608	816	10.3	9.5	219	275.1	127	159.5	12	15.1	21	26.4	20	25.1	11	13.8	8	10.0	30	37.7	71	89.2	17	21.4	6	7.5	19	23.9	5	6.3
East Flatbush (17)	148,006	1,166	7.9	5.8	327	220.9	234	158.1	11	7.4	33	22.3	46	31.1	18	12.2	6	4.1	41	27.7	34	23.0	18	12.2	9	6.1	11	7.4	4	2.7
Canarsie (18)	186,565	1,402	7.5	6.0	469	251.4	240	128.6	5	2.7	32	17.2	55	29.5	34	18.2	10	5.4	44	23.6	33	17.7	28	15.0	8	4.3	12	6.4	6	3.2
QUEENS	**2,284,336**	**13,720**	**6.0**	**4.5**	**4,188**	**183.3**	**2,492**	**109.1**	**24**	**1.1**	**323**	**14.1**	**516**	**22.6**	**295**	**12.9**	**146**	**6.4**	**392**	**17.2**	**475**	**20.8**	**336**	**14.7**	**128**	**5.6**	**78**	**3.4**	**54**	**2.4**
Astoria, Long Island City (01)	188,036	1,044	5.6	4.8	333	177.1	171	90.9	3	1.6	26	13.8	39	20.7	26	13.8	13	6.9	24	12.8	47	25.0	29	15.4	18	9.6	2	1.1	5	2.7
Sunnyside, Woodside (02)	150,010	548	3.7	3.0	164	109.3	111	74.0	-	-	17	11.3	23	15.3	11	7.3	8	5.3	13	8.7	20	13.3	12	8.0	10	6.7	-	-	1	0.7
Jackson Heights (03)	174,256	813	4.7	4.0	203	116.5	164	94.1	2	1.1	19	10.9	30	17.2	14	8.0	13	7.5	23	13.2	29	16.6	36	20.7	8	4.6	3	1.7	2	1.1
Elmhurst, Corona (04)	183,567	801	4.4	3.8	222	120.9	156	85.0	1	0.5	19	10.4	43	23.4	11	6.0	26	14.2	23	12.5	19	10.4	25	13.6	7	3.8	9	4.9	4	2.2
Ridgewood, Glendale (05)	156,183	989	6.3	5.4	308	197.2	181	115.9	-	-	20	12.8	35	22.4	23	14.7	5	3.2	18	11.5	36	23.0	27	17.3	8	5.1	3	1.9	2	1.3
Rego Park, Forest Hills (06)	111,263	818	7.4	4.1	276	248.1	149	133.9	-	-	19	17.1	29	26.1	14	12.6	8	7.2	19	17.1	19	17.1	9	8.1	7	6.3	2	1.8	3	2.7
Flushing (07)	261,718	1,804	6.9	3.9	587	224.3	378	144.4	2	0.8	51	19.5	69	26.4	44	16.8	10	3.8	36	13.8	37	14.1	40	15.3	16	6.1	6	2.3	5	1.9
Fresh Meadows, Briarwood (08)	152,101	898	5.9	4.0	277	182.1	171	112.4	-	-	28	18.4	35	23.0	28	18.4	8	5.3	28	18.4	35	23.0	16	10.5	11	7.2	3	2.0	5	3.3
Woodhaven (09)	143,151	805	5.6	5.2	226	157.9	146	102.0	1	0.7	14	9.8	31	21.7	20	14.0	10	7.0	26	18.2	20	14.0	28	19.6	6	4.2	2	1.4	3	2.1
Howard Beach (10)	121,686	768	6.3	5.2	224	184.1	120	98.6	1	0.8	15	12.3	33	27.1	14	11.5	12	9.9	22	18.1	33	27.1	21	17.3	4	3.3	5	4.1	4	3.3
Bayside (11)	116,627	658	5.6	3.4	213	182.6	125	107.2	8	3.5	16	13.7	21	18.0	9	7.7	2	1.7	15	12.9	19	16.3	16	13.7	11	9.4	2	1.7	2	1.7
Jamaica, St. Albans (12)	226,641	1,480	6.5	5.1	446	196.8	245	108.1	-	-	29	12.8	49	21.6	20	8.8	16	7.1	55	24.3	75	33.1	34	15.0	8	3.5	21	9.3	8	3.5
Queens Village (13)	189,248	1,148	6.1	4.2	340	179.7	229	121.0	2	1.1	15	7.9	44	23.2	24	12.7	6	3.2	42	22.2	37	19.6	24	12.7	4	2.1	11	5.8	4	2.1
The Rockaways (14)	109,076	1,146	10.5	8.4	369	338.3	146	133.9	4	3.7	35	32.1	35	32.1	37	33.9	9	8.3	48	44.0	49	44.9	19	17.4	10	9.2	9	8.3	6	5.5
STATEN ISLAND	**491,133**	**3,950**	**8.0**	**6.3**	**1,169**	**238.0**	**779**	**158.6**	**9**	**1.8**	**73**	**14.9**	**98**	**20.0**	**180**	**36.6**	**19**	**3.9**	**168**	**34.2**	**154**	**31.4**	**88**	**17.9**	**34**	**6.9**	**14**	**2.9**	**5**	**1.0**
Port Richmond (01)	190,384	1,431	7.5	6.6	407	213.8	256	134.5	6	3.2	30	15.8	43	22.6	46	24.2	9	4.7	61	32.0	84	44.1	31	16.3	14	7.4	9	4.7	2	1.1
Willowbrook, South Beach (02)	142,634	1,264	8.9	5.9	398	279	247	173.2	2	1.4	26	18.2	29	20.3	68	47.7	4	2.8	53	37.2	31	21.7	25	17.5	14	9.8	1	0.7	1	0.7
Tottenville (03)	157,410	1,255	8.0	6.4	364	231.2	276	175.3	1	0.6	17	10.8	26	16.5	66	41.9	6	3.8	54	34.3	39	24.8	32	20.3	6	3.8	4	2.5	2	1.3
NONRESIDENTS	-	**4,662**	-	-	**892**	-	**1,383**	-	**23**	-	**78**	-	**176**	-	**75**	-	**78**	-	**77**	-	**312**	-	**143**	-	**62**	-	**43**	-	**26**	-
RESIDENCE UNKNOWN	-	**274**	-	-	**44**	-	**7**	-	**2**	-	**2**	-	**4**	-	**2**	-	**6**	-	**5**	-	**118**	-	**33**	-	**6**	-	**4**	-	**9**	-

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 2022 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.

MORTALITY

Population for Selected Causes, New York City, 1901-2022

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	2022
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	427
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	4.3
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	262
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	2.6
2,351	1,480	1,131	927	972	753	478	394	335	293	301	283	254	242	230	250	219	233	198	181	199
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	2.0
1,885	1,288	835	719	698	686	518	431	388	368	379	371	401	345	388	347	378	311	325	277	285
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	2.9
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	4.9
§§	§§	§§	§§	§§	§§	30	32	39	37	29	30	27	39	24	43	32	43	22	23	27
						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	27.1
73	36	28	33	29	26	22	29	32	30	23	25	23	35	18	25	23	21	19	22	23
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	23.1
432	235	141	125	174	135	39	25	16	27	13	13	22	17	16	13	17	19	19	20	21
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	0.3
39	32	22	35	55	34	14	5	5	5	3	4	9	3	5	2	3	5	3	4	6
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	‖	‖	0
§§	§§	§§	768§	3,703	6,257	2,716	1,603	1,032	766	609	579	523	483	432	369	331	340	340	319	301
			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	3.6
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	11,368
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	136.4
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	1,095
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	27.3
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	914
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	21.1
§§	§§	§§	§§	§§	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	1,047
					24.0	22.6	19.2	17.4	16.6	16.6	15.8	14.9	14.9	15.4	15.1	14.0	13.5	12.9	12.7	12.6
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	826
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	19.1
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	1,766
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	21.2
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	20,587
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	247.0
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	2,175
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	26.1
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	1,575
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	18.9
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	2,550
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	30.6
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	594
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	7.1
447	372	381	383	816	311	564	654	429	453	461	464	486	437	416	388	459	538	681	691	716
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	8.6
551	677	414	573	787	947	875	866	262	158	152	148	170	195	172	134	125	90	100	78	84
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	1.0
§§	§§	§§	1	143	49	26	41	353	600	660	724	723	856	1,320	1,398	1,375	1,466	2,071	2,666	3,041
			‖	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	36.5
887	834	606	477	624	554	419	386	315	283	315	305	271	258	245	221	219	233	264	294	271
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	3.3
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	1,190
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	14.3
680	641	711	603	600	599	514	483	477	509	557	550	565	552	525	565	562	541	547	563	601
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	7.2
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	454
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	5.4
946	1,062	699	696	504	161	151	232	212	247	241	227	253	265	259	245	296	313	255	243	223
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	2.7
§§	§§	§§	§§	§§	84	115	232	400	626	696	740	789	1,079	1,100	1,116	1,195	1,141	1,129	1,120	979
					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	11.7
§§	§§	§§	§§	§§	269	243	196	154	171	166	180	182	167	157	161	174	172	204	133	149
					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	1.8

Table M14. Alcohol-Attributable Deaths Due to Excessive Alcohol Use, Age ≥20 Years*, New York City, 2022

Cause	Total* 2,719	Male 1,788	Female 930
Alcohol abuse	191	162	29
Alcohol cardiomyopathy	-	-	-
Alcohol dependence syndrome	10	-	-
Alcoholic gastritis	-	-	-
Alcoholic liver disease	369	288	81
Alcoholic myopathy	-	-	-
Alcoholic psychosis	188	151	37
Alcohol-induced acute pancreatitis	-	-	-
Alcohol-induced chronic pancreatitis	-	-	-
Cancer, breast (females only)	38	x	38
Cancer, colorectal	17	-	-
Cancer, esophageal*	-	-	-
Cancer, laryngeal	-	-	-
Cancer, liver	23	-	-
Cancer, oral cavity and pharyngeal	18	-	-
Cancer, pancreatic†	-	-	-
Cancer, prostate (males only)	-	-	x
Cancer, stomach†	-	-	-
Atrial fibrillation	-	-	-
Coronary heart disease	127	83	44
Hypertension	371	58	313
Stroke, hemorrhagic	30	-	-
Stroke, ischemic	13	-	-
Esophageal varices	-	-	-
Gastroesophageal hemorrhage	-	-	-
Liver cirrhosis, unspecified	122	69	52
Pancreatitis, acute	-	-	-
Pancreatitis, chronic	-	-	-
Portal hypertension	-	-	-
Chronic hepatitis	-	-	-
Infant death, low birth weight**	-	-	-
Infant death, preterm birth**	-	-	-
Pneumonia‡	13	-	-
Unprovoked seizures, epilepsy, or seizure disorder	-	-	-
Alcohol poisoning	25	-	-
Poisoning (not alcohol)	615	481	134
Motor vehicle traffic crashes¶	98	73	24
Suicide	125	91	34
Suicide by and exposure to alcohol	-	-	-
Air-space transport	-	-	-
Aspiration	-	-	-
Child maltreatment§	-	-	-
Drowning	-	-	-
Fall injuries||	71	57	14
Fire injuries	22	11	11
Firearm injuries	-	-	-
Homicide	125	102	23
Hypothermia	15	-	-
Motor vehicle nontraffic crashes	-	-	-
Occupational and machine injuries	-	-	-
Other road vehicle crashes	20	-	-
Water Transport	-	-	-

- To protect confidentiality, data are suppressed in cells with an estimate of fewer than 10 deaths or in which presenting data would provide information to derive the suppressed cells.
x Data only pertain to one sex.
* Total may not equal sum of males and females due to rounding.
† Cancer, pancreatic and stomach: Deaths among people consuming high levels of alcohol only.
‡ Pneumonia: Deaths among adults aged 20 to 64 years.
§ Child maltreatment: Deaths among children aged 0 to 14 years.
|| Fall injuries: Deaths among people aged 15 to 69 years.
¶ Motor vehicle traffic crashes: Deaths among people of all ages. A blood alcohol concentration level of 0.08 g/dL or greater is used for defining alcohol attribution for this condition.
** Infant deaths: Alcohol consumption prevalence estimates calculated among women aged 18 to 44 years only.

Table M15. Smoking-Attributable Deaths and Age-adjusted Death Rates, Age ≥ 35 Years, New York City, 2019 - 2022

	2019						2020						2021						2022					
	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	**4,494**	**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**	**3,833**	**2,415**	**6,248**	**168.4**	**77.8**	**116.6**
Cerebrovascular disease	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	64	52	116	2.8	1.6	2.1
Chronic obstructive pulmonary disease (ages ≥ 65)	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	416	411	827	19.7	12.7	15.4
Coronary heart disease	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	1,359	804	2,163	59.8	26.0	40.8
Diabetes mellitus	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	56	22	78	2.2	0.7	1.3
Influenza, pneumonia, tuberculosis, and COPD (ages 35-64)	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	147	91	238	5.8	3.3	4.5
Influenza, pneumonia, and tuberculosis (ages ≥ 65)	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	130	47	177	5.9	1.4	3.3
Lung cancer	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	858	620	1,478	37.1	19.7	27.0
Other cancers	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	481	176	657	21.0	5.7	12.1
Other cardiovascular diseases (ages 35-64)*	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	176	62	238	7.5	2.5	4.9
Other heart disease (ages ≥ 65)†	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	93	91	184	4.1	2.8	3.4
Other vascular diseases (ages ≥ 65)‡	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	53	39	92	2.4	1.2	1.7

Note: Smoking prevalence rates are from the New York City Community Health Survey and calculated by the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene.
Beginning in 2014, the calculation of smoking-attributable deaths uses the updated CDC method. As a result, the number of smoking-attributable deaths are much higher than in prior years. See Technical Notes: Deaths, Alcohol- and Smoking-attributable Mortality for methodology.
Total may differ from sum of male and female numbers due to rounding.
* Other cardiovascular diseases are comprised of other heart diseases, cerebrovascular diseases, other vascular diseases and diabetes mellitus.
† Other heart diseases are comprised of rheumatic heart disease, pulmonary heart disease, and other forms of heart disease.
‡ Other vascular diseases are comprised of atherosclerosis, aortic aneurysm, and other arterial diseases.

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

	Age and Racial/Ethnic Groups	All															Male			
		1983-2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	1983-2008	2009	2010	2011
ALL AGES	**Total**	**77,830**	**933**	**832**	**766**	**609**	**579**	**523**	**483**	**432**	**369**	**331**	**340**	**340**	**319**	**301**	**59,119**	**603**	**574**	**528**
	Puerto Rican (PR)	14,579	187	196	186	115	138	88	102	70	63	44	50	55	59	38	10,663	125	135	123
	Hisp./Latino (not PR)	6,956	105	72	46	37	34	43	29	54	43	42	52	49	36	43	5,647	71	54	39
	Asian & Pacific Islander	502	3	6	4	5	8	2	5	6	5	3	3	5	8	1	441	2	3	2
	Non-Hisp./Lat. White	19,132	90	100	94	80	73	62	50	45	45	48	30	27	28	28	16,608	68	76	75
	Non-Hisp./Lat. Black	32,801	537	449	421	359	311	298	277	231	201	180	195	182	166	175	22,673	329	297	277
	Other or Unknown	3,860	11	9	15	13	15	30	20	26	12	14	10	22	22	16	3,087	8	9	12
0-24	**Total**	**2,434**	**15**	**8**	**16**	**13**	**8**	**9**	**8**	**7**	**2**	**2**	**4**	**3**	**1**	**1**	**1,332**	**6**	**4**	**13**
	Puerto Rican	462	2	1	4	2	-	-	2	-	-	1	-	-	1	-	256	-	-	2
	Hisp./Latino (not PR)	269	3	-	-	2	-	-	1	-	1	-	1	1	-	-	166	-	-	-
	Asian & Pacific Islander	14	-	1	-	-	-	-	-	-	-	-	-	-	-	-	9	-	1	-
	Non-Hisp./Lat. White	362	3	-	-	-	1	2	1	-	-	-	-	-	-	-	222	2	-	-
	Non-Hisp./Lat. Black	1,195	7	6	12	9	7	7	4	7	1	1	3	2	-	1	613	4	3	11
	Other or Unknown	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-
25-34	**Total**	**17,238**	**49**	**37**	**40**	**34**	**29**	**28**	**28**	**31**	**33**	**21**	**27**	**27**	**22**	**33**	**12,406**	**32**	**27**	**29**
	Puerto Rican	3,551	7	11	2	3	5	4	5	3	2	-	2	2	4	1	2,474	6	7	2
	Hisp./Latino (not PR)	1,823	3	8	8	6	4	3	2	3	5	3	7	6	2	4	1,453	2	6	7
	Asian & Pacific Islander	93	1	-	2	1	-	-	1	1	2	1	2	-	1	-	78	-	-	1
	Non-Hisp./Lat. White	4,072	5	1	3	1	2	1	1	-	2	2	1	3	2	-	3,389	5	1	2
	Non-Hisp./Lat. Black	6,802	33	17	25	23	17	19	18	24	21	14	14	15	12	26	4,338	19	13	17
	Other or Unknown	897	-	-	-	-	1	1	1	-	1	1	1	1	1	2	674	-	-	-
35-44	**Total**	**32,188**	**190**	**142**	**125**	**90**	**73**	**60**	**64**	**54**	**46**	**33**	**33**	**37**	**32**	**48**	**24,563**	**111**	**94**	**77**
	Puerto Rican	5,890	45	34	28	17	22	12	8	7	4	6	6	2	5	1	4,364	26	20	17
	Hisp./Latino (not PR)	2,728	28	19	8	4	3	7	5	10	5	6	2	5	5	8	2,219	16	14	8
	Asian & Pacific Islander	200	1	-	1	2	3	1	3	1	2	-	-	1	1	-	185	1	-	-
	Non-Hisp./Lat. White	8,387	18	16	12	15	7	10	4	5	5	-	2	2	1	3	7,291	12	11	10
	Non-Hisp./Lat. Black	13,384	98	71	76	49	37	28	40	30	30	18	22	23	19	30	9,224	56	47	42
	Other or Unknown	1,599	-	2	-	3	1	2	4	1	-	3	1	4	1	6	1,280	-	2	-
45-54	**Total**	**18,237**	**352**	**330**	**287**	**217**	**215**	**167**	**143**	**106**	**96**	**83**	**71**	**66**	**66**	**51**	**14,485**	**225**	**219**	**183**
	Puerto Rican	3,383	65	85	75	46	55	34	38	16	13	13	10	12	10	6	2,577	51	62	43
	Hisp./Latino (not PR)	1,450	46	29	15	14	14	16	9	13	17	9	11	8	10	7	1,230	35	20	12
	Asian & Pacific Islander	127	-	3	-	-	1	1	1	1	-	-	1	1	3	-	115	-	1	-
	Non-Hisp./Lat. White	4,446	35	37	41	28	28	16	15	11	14	9	6	1	6	6	4,008	25	28	30
	Non-Hisp./Lat. Black	7,946	200	173	150	123	111	87	76	58	45	48	40	40	32	28	5,791	111	105	95
	Other or Unknown	885	6	3	6	6	6	13	4	7	7	4	3	4	5	4	764	3	3	3
55-64	**Total**	**5,975**	**241**	**239**	**213**	**169**	**172**	**174**	**141**	**150**	**117**	**116**	**117**	**106**	**110**	**78**	**4,948**	**164**	**179**	**159**
	Puerto Rican	1,048	49	51	54	34	42	24	33	25	25	10	19	18	26	12	807	30	38	41
	Hisp./Latino (not PR)	521	18	11	9	5	11	13	4	21	11	16	18	15	9	13	442	12	10	7
	Asian & Pacific Islander	47	-	2	-	2	3	-	-	1	-	1	-	2	3	-	39	-	1	-
	Non-Hisp./Lat. White	1,432	21	36	30	24	21	20	16	15	17	27	9	6	4	7	1,320	17	28	25
	Non-Hisp./Lat. Black	2,656	150	136	112	101	92	106	80	78	61	58	67	56	58	44	2,103	102	99	78
	Other or Unknown	271	3	3	8	3	3	11	8	10	3	4	4	9	10	2	237	3	3	8
≥65	**Total**	**1,757**	**86**	**76**	**85**	**86**	**82**	**85**	**99**	**84**	**75**	**76**	**88**	**101**	**88**	**90**	**1,384**	**65**	**51**	**67**
	Puerto Rican	245	19	14	23	13	14	14	16	19	19	14	13	21	13	18	185	12	8	18
	Hisp./Latino (not PR)	165	7	5	6	6	2	4	8	7	4	8	13	14	10	11	137	6	4	5
	Asian & Pacific Islander	21	1	-	1	-	1	-	-	2	1	1	-	1	-	1	15	1	-	1
	Non-Hisp./Lat. White	433	8	10	8	12	14	13	13	14	7	10	12	15	15	12	378	7	8	8
	Non-Hisp./Lat. Black	818	49	46	46	54	47	51	59	34	43	41	49	46	45	46	604	37	30	34
	Other or Unknown	75	2	1	1	1	4	3	3	8	1	2	1	4	5	2	65	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, 1983-2022

											Female														
2012	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**1983-2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	2022
402	**398**	**359**	**332**	**296**	**249**	**230**	**225**	**229**	**229**	**219**	**18,711**	**330**	**258**	**238**	**207**	**181**	**164**	**151**	**136**	**120**	**101**	**115**	**111**	**90**	82
75	94	56	68	50	44	31	37	39	44	17	3,916	62	61	63	40	44	32	34	20	19	13	13	16	15	21
28	28	36	19	44	34	30	34	36	27	34	1,309	34	18	7	9	6	7	10	10	9	12	18	13	9	9
4	5	1	3	6	4	3	3	4	5	1	61	1	3	2	1	3	1	2	-	1	-	-	1	3	-
63	53	50	40	36	34	33	22	24	25	28	2,524	22	24	19	17	20	12	10	9	11	15	8	3	3	-
223	204	196	185	140	124	122	122	111	114	125	10,128	208	152	144	136	107	102	92	91	77	58	73	71	52	50
9	14	20	17	20	9	11	7	15	14	14	773	3	-	3	4	1	10	3	6	3	3	3	7	8	2
6	**6**	**7**	**5**	**2**	**1**	**2**	**4**	**2**	**-**	**1**	**1,102**	**9**	**4**	**3**	**7**	**2**	**2**	**3**	**5**	**1**	**-**	**-**	**1**	**1**	-
-	-	-	2	-	-	1	-	-	-	-	206	2	1	2	2	-	-	-	-	-	-	-	-	1	-
1	-	-	-	-	1	-	1	1	-	-	103	3	-	-	1	-	-	1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	2	1	-	-	-	-	-	-	-	140	1	-	-	-	1	-	-	-	-	-	-	-	-	-
5	6	5	2	2	-	1	3	1	-	1	582	3	3	1	4	1	2	2	5	1	-	-	1	-	-
-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	**27**	**17**	**21**	**24**	**22**	**15**	**23**	**19**	**18**	**26**	**4,832**	**17**	**10**	**11**	**10**	**2**	**11**	**7**	**7**	**11**	**6**	**4**	**8**	**4**	7
2	5	-	2	2	1	-	2	2	4	1	1,077	1	4	-	1	-	4	3	1	1	-	-	-	-	-
5	4	3	2	3	4	2	7	4	2	4	370	1	2	1	1	-	-	-	-	1	1	-	2	-	-
1	-	-	1	1	2	1	2	-	1	-	15	1	-	1	-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	-	1	2	1	3	2	-	683	-	-	1	-	1	-	-	-	1	-	-	-	-	-
15	16	12	14	18	14	9	10	9	9	19	2,464	14	4	8	8	1	7	4	6	7	5	4	6	3	7
-	1	1	1	-	-	1	1	1	-	2	223	-	-	-	-	-	-	-	-	1	-	-	-	1	-
54	**45**	**33**	**32**	**31**	**29**	**19**	**22**	**26**	**24**	**36**	7,625	**79**	**48**	**48**	**36**	**28**	**27**	**32**	**23**	**17**	**14**	**11**	**11**	**8**	12
10	10	4	6	6	3	4	6	2	5	1	1,526	19	14	11	7	12	8	2	1	1	2	-	-	-	-
1	3	5	2	8	4	4	2	5	4	7	509	12	5	-	3	-	2	3	2	1	2	-	-	1	1
1	1	-	1	1	2	-	-	1	-	-	15	-	-	1	1	2	1	2	-	-	-	-	-	1	-
13	3	7	1	4	5	-	1	2	1	3	1,096	6	5	2	2	4	3	3	1	-	-	1	8	-	-
28	27	16	20	12	15	9	12	15	14	20	4,160	42	24	34	21	10	12	20	18	15	9	10	3	5	10
1	1	1	2	-	-	2	1	1	-	5	319	-	-	-	2	-	1	2	1	-	1	-	-	1	1
136	**140**	**115**	**97**	**63**	**62**	**52**	**41**	**37**	**44**	**36**	**3,752**	**127**	**111**	**104**	**81**	**75**	**52**	**46**	**43**	**34**	**31**	**30**	**29**	**22**	15
29	38	22	25	10	9	5	5	7	6	4	806	14	23	32	17	17	12	13	6	4	8	5	5	4	2
12	10	13	7	11	13	7	5	6	5	3	220	11	9	3	2	4	3	2	2	4	2	6	2	5	4
-	1	1	1	1	-	-	1	1	2	-	12	-	2	-	-	-	-	-	-	-	-	-	-	1	-
22	20	13	11	8	11	7	4	1	6	6	438	10	9	11	6	8	3	4	3	3	2	2	-	-	-
69	65	55	50	28	24	30	24	20	22	19	2,155	89	68	55	54	46	32	26	30	21	18	16	20	10	9
4	6	11	3	5	5	3	2	2	3	4	121	3	-	3	2	-	2	1	2	2	1	1	2	2	-
120	**118**	**130**	**103**	**109**	**84**	**88**	**70**	**72**	**76**	**55**	**1,027**	**77**	**60**	**54**	**49**	**54**	**44**	**38**	**41**	**33**	**28**	**47**	**34**	**34**	23
25	33	21	20	19	19	9	15	11	19	5	241	19	13	13	9	9	3	13	6	6	1	4	7	7	7
4	10	11	1	16	8	13	11	11	8	10	79	6	1	2	1	1	2	3	5	3	3	7	4	1	3
2	2	-	-	1	-	1	-	2	2	-	8	-	1	-	-	1	-	-	-	-	-	-	-	1	-
19	16	18	15	12	12	17	7	3	3	7	112	4	8	5	5	5	2	1	3	5	10	2	3	1	-
67	54	75	59	54	42	44	35	37	37	31	553	48	37	34	34	38	31	21	24	19	14	32	19	21	13
3	3	5	8	7	3	4	2	8	7	2	34	-	-	-	-	-	6	-	3	-	-	2	1	3	-
62	**62**	**57**	**74**	**67**	**51**	**54**	**65**	**73**	**67**	**65**	**373**	**21**	**25**	**18**	**24**	**20**	**28**	**25**	**17**	**24**	**22**	**23**	**28**	**21**	25
9	8	9	13	13	12	12	9	17	10	6	60	7	6	5	4	6	5	3	6	7	2	4	4	3	12
5	1	4	7	6	4	4	8	9	8	10	28	1	1	1	1	1	-	1	1	-	4	5	5	2	1
-	1	-	-	2	-	1	-	-	-	1	6	-	-	-	-	-	-	-	-	1	-	-	1	-	-
8	13	9	11	12	5	7	9	15	13	12	55	1	2	-	4	1	4	2	2	2	3	3	-	2	-
39	36	33	40	26	29	29	38	29	32	35	214	12	16	12	15	11	18	19	8	14	12	11	17	13	11
1	3	2	3	8	1	1	1	3	4	1	10	-	-	-	-	1	1	-	-	-	1	-	1	1	1

Table M17. Selected Characteristics of Deaths Due to Fatal Occupational Injuries*, New York City, 2022

		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	83	27	9		21	19	6
Selected Industries							
Government (Federal, State, Local)§		5					
Local government	8	5					
Private industry§	74	22	9		20	17	6
Goods producing							
Construction	23				15	3	
Manufacturing	3						
Service providing							
Trade, transportation, and utilities	21		6			6	
Information	3						
Professional and business services	6				3		
Leisure and hospitality	3						
Accommodation and food services	8	4					
Sex							
Female	4	4					
Male	79	23	9		21	19	6
Race or ethnic origin‖							
Non-Hispanic/Latino White	23	7			6	7	
Non-Hispanic/Latino Black	15	6	3				3
Hispanic/Latino	33	10			12	6	
Asian	8	3					
Age Group							
<25 years							
25-34 years	17	9					
35-44 years	13				7	4	
45-54 years	22	7	4		6		
55-64 years	19	4			4	8	
>65 years	7						

*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-2022.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, 2022

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	**4,502**	**13**	**6**	**7**	**8**	**8**	**2**	**20**	**19**	**95**	**26**	**451**	**125**	**588**	**171**	**628**	**175**	**815**	**213**	**401**	**135**	**299**	**297**
Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist	34	-	-	-	-	-	-	2	2	3	-	5	4	5	-	4	1	4	-	-	-	3	1
Injury to Pedestrians	176	1	1	3	-	-	1	4	3	9	2	20	4	12	7	23	6	23	7	18	5	12	15
Collision with motor vehicle	133	1	1	3	-	-	1	3	3	6	-	11	2	4	6	16	6	17	7	16	4	12	14
Collision with railway transportation	41	-	-	-	-	-	-	1	-	3	2	9	2	7	1	7	-	6	-	1	1	-	1
Other collision	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-
Injury to Pedal Cyclist	16	-	-	-	-	-	-	1	-	-	-	2	1	2	2	1	1	-	-	4	-	2	-
Collision with motor vehicle	10	-	-	-	-	-	-	-	-	-	-	1	1	2	2	1	1	-	-	1	-	1	-
Other collision	6	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	3	-	1	-
Injury to Motorcyclist	54	-	-	-	-	-	-	2	1	2	-	13	2	14	-	6	1	8	1	3	1	-	-
Water Transport Accidents	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Air and Space Transport Accidents	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Transport Accidents	45	-	-	-	-	-	-	4	4	6	2	8	3	3	1	4	-	3	1	2	2	1	1
Sequelae (Late Effects) of Transport Accidents	19	-	-	-	-	-	-	-	-	-	-	-	3	5	-	3	-	1	1	1	3	1	1
Fall	619	2	-	-	-	-	-	1	-	2	-	12	1	18	2	28	8	48	6	73	36	188	194
Firearm Discharge	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	16	1	-	-	-	2	-	-	1	2	1	2	-	-	-	2	-	2	-	2	1	-	-
Smoke, Fire, and Flames	80	1	2	3	5	5	1	-	1	2	3	2	3	3	2	6	3	10	5	3	9	5	6
Poisoning by Noxious Substances	3,081	-	-	-	-	1	-	4	7	67	17	368	99	502	153	534	149	666	175	251	56	27	5
Poisoning by psychoactive substances*	3,041	-	-	-	-	1	-	4	7	65	17	362	97	500	150	526	149	658	172	250	56	24	3
Poisoning by other noxious substances	40	-	-	-	-	-	-	-	-	2	-	6	2	2	3	8	-	8	3	1	-	3	2
Exposure to Excessive Natural Heat	8	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	3	-	-	1
Exposure to Excessive Natural Cold	52	-	-	-	-	-	-	-	-	-	-	4	1	7	-	6	2	13	3	9	2	3	2
Suffocation	174	7	3	-	1	-	-	-	-	-	-	4	3	5	1	3	1	19	6	17	17	40	47
Contact with Machinery	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-
Other Nontransport Accidents	89	1	-	-	2	-	-	1	-	2	1	8	-	9	2	4	-	9	4	9	3	12	22
Sequelae (Late Effects) of Nontransport Accidents	32	-	-	-	-	-	-	-	-	-	-	1	1	2	1	3	2	6	3	6	-	5	2

*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, 2022

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	**601**	**0**	**0**	**0**	**0**	**3**	**1**	**14**	**4**	**28**	**9**	**99**	**41**	**87**	**34**	**63**	**17**	**69**	**31**	**44**	**15**	**31**	**11**
Poisoning by Drug and Medicinal Substances	80	-	-	-	-	-	-	1	-	3	4	8	11	7	10	6	3	9	6	5	2	3	2
Poisoning by Other Substances	8	-	-	-	-	1	-	-	-	-	-	3	-	-	-	-	-	2	1	-	1	-	-
Hanging, Strangulation, and Suffocation	209	-	-	-	-	2	-	8	2	9	3	33	9	24	12	29	6	26	13	15	6	9	3
Drowning and Submersion	32	-	-	-	-	-	-	1	-	2	-	10	3	7	2	-	-	2	1	1	1	2	-
Firearm Discharge	56	-	-	-	-	-	-	2	-	2	1	8	1	11	1	9	-	9	-	2	1	8	1
Sharp Object	22	-	-	-	-	-	-	-	-	2	-	5	-	4	-	2	-	5	-	1	1	2	-
Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jumping From High Place	141	-	-	-	-	-	-	2	1	4	1	21	13	24	6	14	5	15	10	13	3	5	4
Jumping or Lying Before Moving Object	41	-	-	-	-	-	1	-	1	5	-	7	4	8	2	2	3	-	-	6	-	1	1
Other and Unspecified Means	12	-	-	-	-	-	-	-	-	1	-	4	-	2	1	1	-	1	-	1	-	1	-
Sequelae (Late Effects)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table M20. Deaths Due to Assault (Homicide) and Legal Intervention, Overall and by Age and Sex, New York City, 2022

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	**465**	**8**	**3**	**1**	**2**	**7**	**1**	**26**	**11**	**54**	**8**	**114**	**12**	**81**	**16**	**46**	**11**	**26**	**13**	**15**	**6**	**0**	**4**
Poisoning by Noxious Substances	10	1	-	-	-	1	-	-	-	-	-	6	-	-	1	1	-	-	-	-	-	-	-
Hanging, Strangulation, and Suffocation	8	1	-	-	-	-	-	-	-	-	-	2	1	-	1	-	1	-	-	-	2	-	-
Drowning and Submersion	4	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Firearm Discharge	256	-	-	-	-	5	1	21	8	42	4	80	3	51	8	19	2	5	3	4	-	-	-
Smoke, Fire, and Flames	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
Sharp Object	106	2	-	-	1	1	-	3	2	10	2	17	6	22	2	10	7	9	6	4	1	-	1
Blunt Object	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Pushing From High Place	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bodily Force	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neglect, Abandonment, and Other Maltreatment	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and Unspecified Means	50	1	1	-	1	-	-	1	1	1	1	4	2	4	3	6	1	8	4	5	3	-	3
Sequelae (Late Effects)	15	-	-	-	-	-	-	-	-	-	1	1	-	2	-	7	-	3	-	1	-	-	-
Legal Intervention, All*	11	-	-	-	-	-	-	1	-	1	-	4	-	2	-	3	-	-	-	-	-	-	-

*All 11 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, 2022

		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	**223**	**6**	**11**	**0**	**0**	**0**	**0**	**1**	**0**	**6**	**3**	**27**	**10**	**40**	**9**	**29**	**7**	**23**	**9**	**21**	**7**	**7**	**7**
Poisoning by Noxious Substances	21	-	1	-	-	-	-	-	-	-	-	2	4	2	2	2	-	3	2	1	-	-	2
Hanging, Strangulation, and Suffocation	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	16	-	-	-	-	-	-	-	-	1	-	3	-	2	3	2	-	4	-	-	1	-	-
Firearm Discharge	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Smoke, Fire, and Flames	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sharp or Blunt Object	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Falling From High Place	7	-	-	-	-	-	-	1	-	1	2	1	-	2	-	-	-	-	-	-	-	-	-
Other and Unspecified Means	171	6	10	-	-	-	-	-	-	4	1	19	6	33	4	24	6	15	7	19	5	7	5
Sequelae (Late Effects)	6	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	-	1	1	-	-

Table M22. Deaths Due to Complications of Medical and Surgical Care, Overall and by Age and Sex, New York City, 2022

		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	**85**	**0**	**3**	**2**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**2**	**2**	**1**	**1**	**2**	**3**	**8**	**7**	**18**	**10**	**12**	**10**
Adverse Effects From Drugs, Medicaments, and Biological Substances for Therapeutic Use	7	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	-	3	1
Medical Misadventures to Patients During Surgical and Medical Care	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adverse Effects from Medical Devices for Therapeutic Use	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Other and Unspecified Means	77	-	3	2	1	1	1	-	1	-	-	1	2	1	1	2	2	7	6	18	10	9	9
Sequelae (Late Effects)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table M23. Deaths Due to Firearms (All Causes), Overall and by Age and Sex, New York City, 2022

		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)	**324**	**-**	**-**	**-**	**-**	**5**	**1**	**25**	**8**	**45**	**5**	**92**	**4**	**64**	**9**	**31**	**2**	**14**	**3**	**6**	**1**	**8**	**1**

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

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

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

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

Table M25. Life Expectancy at Specified Ages, Overall and by Sex, New York City, 2013 - 2022

Total

Exact Age in Years	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
0	81.5	81.8	81.9	82.0	82.2	82.4	82.6	78.0	80.7	81.5
1	80.8	81.2	81.2	81.3	81.6	81.7	81.9	77.3	80.0	80.8
5	76.9	77.2	77.3	77.4	77.6	77.7	78.0	73.3	76.1	76.9
10	71.9	72.3	72.3	72.4	72.7	72.8	73.0	68.3	71.1	71.9
15	67.0	67.3	67.4	67.4	67.7	67.8	68.0	63.4	66.2	67.0
20	62.1	62.4	62.4	62.5	62.8	62.9	63.1	58.5	61.3	62.1
25	57.2	57.6	57.6	57.7	57.9	58.0	58.3	53.7	56.5	57.3
30	52.4	52.7	52.8	52.9	53.1	53.2	53.5	48.9	51.7	52.5
35	47.6	47.9	48.0	48.1	48.3	48.4	48.7	44.1	47.0	47.8
40	42.8	43.1	43.2	43.3	43.6	43.6	43.9	39.5	42.3	43.1
45	38.1	38.4	38.5	38.7	38.9	38.9	39.2	35.0	37.8	38.6
50	33.6	33.9	34.0	34.1	34.3	34.4	34.6	30.6	33.3	34.1
55	29.2	29.5	29.6	29.8	29.9	30.0	30.2	26.4	29.0	29.8
60	25.1	25.4	25.4	25.6	25.7	25.8	26.0	22.4	25.0	25.7
65	21.1	21.4	21.4	21.6	21.7	21.7	22.0	18.7	21.1	21.8
70	17.3	17.6	17.6	17.8	17.9	17.9	18.1	15.3	17.4	18.0
75	13.7	13.9	13.9	14.1	14.2	14.2	14.4	12.0	13.9	14.4
80	10.5	10.6	10.6	10.8	10.8	10.8	11.0	9.2	10.8	11.1
85	7.5	7.6	7.6	7.7	7.8	7.8	8.0	6.7	7.9	8.2

Male

Exact Age in Years	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
0	78.9	79.2	79.4	79.5	79.7	79.9	80.0	74.5	77.8	78.4
1	78.2	78.6	78.8	78.8	79.0	79.2	79.3	73.8	77.1	77.7
5	74.3	74.6	74.8	74.8	75.1	75.3	75.4	69.8	73.2	73.8
10	69.3	69.7	69.9	69.9	70.1	70.3	70.4	64.9	68.2	68.8
15	64.4	64.7	64.9	64.9	65.2	65.4	65.5	59.9	63.2	63.9
20	59.5	59.8	60.0	60.0	60.3	60.5	60.6	55.0	58.4	59.0
25	54.7	55.1	55.3	55.3	55.5	55.7	55.8	50.4	53.7	54.3
30	50.0	50.3	50.5	50.5	50.8	50.9	51.0	45.7	49.0	49.6
35	45.2	45.5	45.7	45.8	46.0	46.2	46.3	41.0	44.4	45.0
40	40.5	40.8	41.0	41.1	41.4	41.5	41.6	36.5	39.8	40.5
45	35.8	36.2	36.4	36.5	36.7	36.9	37.1	32.1	35.4	36.1
50	31.4	31.8	31.9	32.0	32.3	32.4	32.5	27.9	31.1	31.8
55	27.2	27.6	27.7	27.8	28.0	28.1	28.3	23.9	27.0	27.6
60	23.2	23.6	23.7	23.8	24.0	24.1	24.2	20.2	23.1	23.7
65	19.4	19.8	19.8	20.0	20.2	20.3	20.4	16.7	19.5	20.0
70	15.9	16.3	16.3	16.4	16.5	16.6	16.7	13.5	16.1	16.4
75	12.5	12.8	12.8	12.9	13.0	13.1	13.3	10.6	12.8	13.1
80	9.6	9.7	9.8	9.9	9.9	9.9	10.1	8.1	9.9	10.1
85	6.9	6.9	7.0	7.0	7.1	7.1	7.3	6.0	7.2	7.4

Female

Exact Age in Years	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
0	83.8	84.1	84.1	84.2	84.5	84.5	84.9	81.4	83.5	84.4
1	83.1	83.4	83.4	83.6	83.8	83.8	84.2	80.7	82.8	83.7
5	79.1	79.4	79.4	79.6	79.9	79.8	80.2	76.7	78.8	79.7
10	74.2	74.5	74.5	74.6	74.9	74.9	75.3	71.7	73.9	74.8
15	69.2	69.5	69.5	69.7	69.9	69.9	70.3	66.8	68.9	69.8
20	64.3	64.6	64.5	64.7	65.0	65.0	65.4	61.8	63.9	64.9
25	59.4	59.7	59.7	59.8	60.0	60.1	60.5	56.9	59.0	60.0
30	54.5	54.8	54.7	54.9	55.1	55.1	55.6	52.0	54.1	55.1
35	49.6	49.9	49.9	50.1	50.3	50.3	50.7	47.2	49.3	50.3
40	44.7	45.0	45.0	45.2	45.4	45.4	45.9	42.4	44.6	45.5
45	40.0	40.3	40.3	40.5	40.6	40.7	41.1	37.7	39.8	40.8
50	35.3	35.6	35.7	35.8	36.0	36.0	36.4	33.1	35.2	36.2
55	30.9	31.1	31.2	31.4	31.5	31.5	31.9	28.7	30.8	31.7
60	26.5	26.8	26.8	27.0	27.1	27.1	27.4	24.5	26.5	27.3
65	22.4	22.6	22.6	22.8	22.9	22.9	23.2	20.5	22.4	23.2
70	18.3	18.5	18.6	18.8	18.8	18.8	19.1	16.7	18.4	19.1
75	14.5	14.7	14.7	14.9	15.0	14.9	15.2	13.1	14.7	15.3
80	11.0	11.2	11.2	11.4	11.4	11.4	11.6	9.9	11.3	11.8
85	7.8	7.9	7.9	8.1	8.1	8.1	8.3	7.1	8.2	8.7

Note: Population data from 2020 are based on 2020 Census counts. Citywide population estimates for 2013-2019 are from "2021 County and Economic Development Regions Population Estimates" by the Cornell Jeb E. Brooks School of Public Policy. Population estimates for 2022 are from the Census Bureau, 2023 Vintage. Single year of age population estimates by demographics for 2013-2019 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, 2022

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	**501,749**	**100.0**	**325,803**	**100.0**	**175,946**	**100.0**
Malignant Neoplasms	85,171	17.0	43,601	13.4	41,570	23.6
Trachea, bronchus, and lung	11,615	2.3	6,784	2.1	4,831	2.7
Colon, rectum, and anus	9,163	1.8	5,138	1.6	4,025	2.3
Breast	8,803	1.8	60	0.0	8,743	5.0
Pancreas	5,711	1.1	3,102	1.0	2,609	1.5
Liver & intrahepatic bile ducts	4,545	0.9	3,275	1.0	1,270	0.7
Use of or Poisoning by Psychoactive Substance	83,029	16.5	64,668	19.8	18,361	10.4
Heart Disease	79,428	15.8	54,524	16.7	24,904	14.2
Accidents Except Poisoning by Psychoactive Substance	23,639	4.7	17,517	5.4	6,122	3.5
Motor vehicle	7,957	1.6	5,832	1.8	2,125	1.2
COVID-19	19,550	3.9	11,529	3.5	8,021	4.6
Intentional Self-harm (Suicide)	18,068	3.6	13,141	4.0	4,927	2.8
Assault (Homicide)	17,974	3.6	14,821	4.5	3,153	1.8
Diabetes Mellitus	12,252	2.4	7,342	2.3	4,910	2.8
Cerebrovascular Diseases	11,055	2.2	6,589	2.0	4,466	2.5
Chronic Liver Disease and Cirrhosis	10,112	2.0	7,442	2.3	2,670	1.5
Mental and Behavioral Disorders Due to Use of Alcohol	8,800	1.8	7,224	2.2	1,576	0.9
Influenza and Pneumonia	7,934	1.6	4,727	1.5	3,207	1.8
Chronic Lower Respiratory Diseases	6,509	1.3	3,403	1.0	3,106	1.8
HIV Disease	6,196	1.2	4,606	1.4	1,590	0.9
Essential Hypertension and Hypertensive Renal Diseases	4,002	0.8	2,412	0.7	1,590	0.9
All Other Causes	108,030	21.5	62,257	19.1	45,773	26.0

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

Table M27. Death Rates by Poverty Level Indicator, New York City, 2013 and 2022

Age-adjusted Death Rates	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
	2022	2013	Change 2013 to 2022	2022	2013	Change 2013 to 2022	2022	2013	Change 2013 to 2022	2022	2013	Change 2013 to 2022
All Causes	440.8	449.4	-1.9%	512.3	530.8	-3.5%	590.8	615.5	-4.0%	742.6	683.8	8.6%
Premature Deaths	131.0	114.7	14.2%	177.8	148.8	19.5%	235.2	197.0	19.4%	333.6	255.1	30.8%
10 Leading Causes												
Diseases of Heart	124.2	147.6	-15.9%	147.7	173.0	-14.6%	153.4	197.7	-22.4%	196.3	199.2	-1.5%
Malignant Neoplasms	88.3	117.2	-24.7%	92.9	131.9	-29.6%	100.7	143.8	-30.0%	113.9	156.5	-27.2%
COVID-19	30.7			38.4			45.7			52.3		
Use of or Poisoning by Psychoactive Substances	16.7	6.6	153.0%	25.1	6.9	263.8%	40.1	8.1	395.1%	62.5	14.2	340.1%
Cerebrovascular Diseases	16.1	12.5	28.8%	17.4	17.8	-2.2%	21.0	21.4	-1.9%	24.6	23.3	5.6%
Diabetes Mellitus	12.4	11.2	10.7%	14.3	19.8	-27.8%	18.9	25.6	-26.2%	27.4	31.8	-13.8%
Influenza and Pneumonia	10.1	19.7	-48.7%	13.3	25.1	-47.0%	17.5	30.8	-43.2%	21.9	33.6	-34.8%
Accidents Except Drug Poisoning	11.0	9.0	22.2%	11.8	9.6	22.9%	14.3	12.0	19.2%	18.4	12.2	50.8%
Chronic Lower Respiratory Diseases	11.0	15.3	-28.1%	11.5	19.2	-40.1%	13.0	23.3	-44.2%	17.7	24.4	-27.5%
Essential Hypertension and Hypertensive Renal Diseases	9.8	7.9	24.1%	10.1	9.7	4.1%	11.4	13.4	-14.9%	14.0	17.1	-18.1%

Note: The 2013 poverty level is based on the 2009-2013 US Census Bureau American Community Survey, and the 2022 poverty level is based on the 2017-2021 US Census Bureau American Community Survey.

Table M28. Leading Causes of Death, New York City, 2013, 2021 and 2022

	2022		2021			2013		
Cause	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to 2022 (%)	Rank	Crude Death Rate	Change to 2022 (%)
Diseases of Heart*	1	201.6	1	195.7	3.0%	1	199.4	1.1%
Malignant Neoplasms	2	136.4	2	136.7	-0.2%	2	159.0	-14.2%
COVID-19	3	52.7	3	97.2	-45.8%			
Use of or Poisoning by Psychoactive Substance†	4	37.5	4	32.4	15.7%	9	10.4	260.6%
Cerebrovascular Diseases	5	26.1	5	25.4	2.8%	6	20.3	28.6%
Diabetes Mellitus	6	21.2	6	20.2	5.0%	4	21.9	-3.2%
Influenza and Pneumonia	7	18.9	7	19.2	-1.6%	3	29.4	-35.7%
Accidents Except Drug Poisoning	8	17.5	9	15.7	11.5%	8	12.3	42.3%
Chronic Lower Respiratory Diseases	9	17.0	8	16.9	0.6%	5	21.9	-22.4%
Essential Hypertension and Renal Diseases	10	14.9	10	15.2	-2.0%	7	12.6	18.3%

*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 NYC residents died in NYC 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 2022 NYC population data used in the tables and figures are based on the US Census Bureau 2022 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 2022 US Census population estimate for New York City (NYC) is 8,335,897. See Table PC2 for 2022 NYC population by age, mutually exclusive race and Hispanic origin, and sex. Population data used to compute rate trends (2013-2022) were estimated by DOHMH, Bureau of Epidemiology Services, using the methodology found below under Community District Population Estimates. Citywide population estimates for 2013-2021 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.

2022 Community District population

The 2022 Community District population data were calculated based on the Census 2022 released in June 2023 (see Historical Technical Notes for previous years' methods).

LIFE EXPECTANCY

For life expectancy computations in 2022, 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 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) was presented for the first time in the decennial life expectancy calculation using 2019-2021 combined population data (Table M24) in 2021. Life expectancy in 2015-2022 for Asians and Pacific Islanders is now being presented for the first time due to the growing API population in the City (Mortality Section Figure 2). 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 Ddistricts 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). Community District was added to the Summary beginning in 1998.

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 21% of deaths), the New York City Office of 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 2022, 99.7% of death certificates were filed electronically using eVital. Since the June 1993 revision of the death certificate, decedent race and ancestry information is 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 Cause of Death Quality (nyc.gov).

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.

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 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 NYC DOHMH Community Health Survey (CHS) and computed by the Bureau of Epidemiology Services. 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 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/w47j-r23n.

Beginning in 2014, substantial changes in SAM calculation were made based on a 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) 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 literature. We incorporated the same corrections beginning in the 2019 Summary of Vital Statistics. See the following link for details about the corrections and updates: https://www.cdc.gov/alcohol/ardi/methods.html

Further changes were made after we published 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 these changes starting with the 2020 Summary of Vital Statistics.

In 2022, alcohol-attributable deaths were calculated directly using CDC ARDI website: HTTPS://NCCD.CDC.GOV/DPH_ARDI/DEFAULT/DEFAULT.ASPX

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 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 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)

Data in Table M17 are from US Department of Labor's Bureau of Labor Statistics. These deaths, unlike other presentations of NYC vital statistics, are based on the location of the injury, regardless of the residence of the decedent 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.

TECHNICAL NOTES

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 (ICD-10), deaths due to HIV disease (B20-B24) are characterized by the resulting disease or condition, replacing AIDS/other HIV infections in the 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-defence 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, non-Hispanic/Latino Blacks, and Asian and Pacific Islanders (API) . 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 2019-2021 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 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 NYC 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.

TECHNICAL NOTES

Birth Rates

See Vital Event Rates.

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); 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 were from 2020 Census counts.

2013-2019

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

2010-2012

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

The population counts for years 1960, 1970, 1980, 1990, 2000, and 2010 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 the Bureau of Epidemiology Services. See the following description of 2012 data for details.

2012

Community District population estimates for the years 2010-2012 were 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 an 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, 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 an 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 were 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, the DOHMH Bureau of Epidemiology 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 was imputed. While the modified race summary file created by the Census used information from other members of the same household, 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 used 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 each 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 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

2008

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 8) by Community District 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 population 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

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

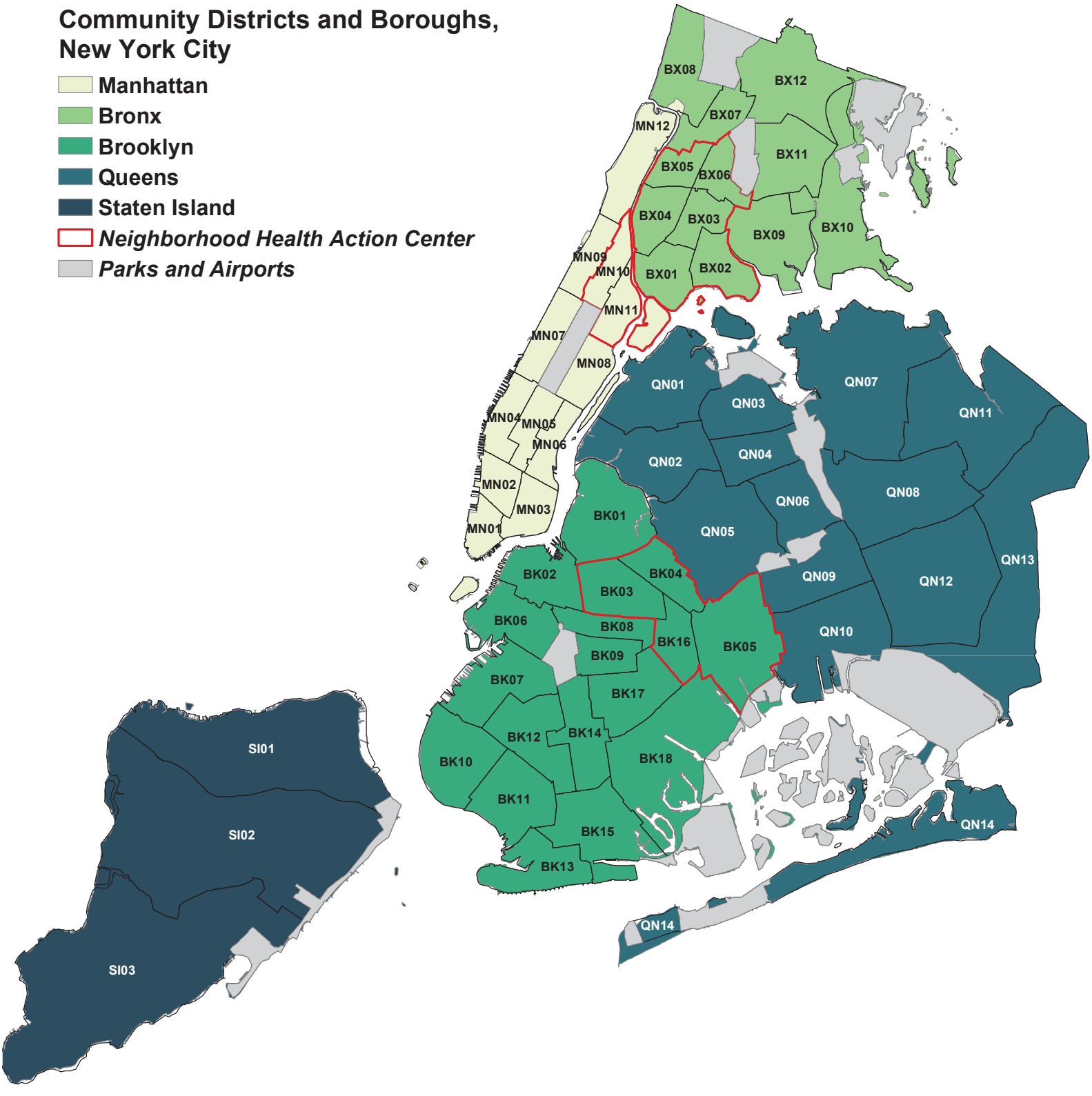
For comprehensive information on the 2008 revision of the NYC birth certificate, please see the Technical Notes from the 2008 Summary of Vital Statistics: http://www1.nyc.gov/assets/doh/downloads/pdf/vs/2008sum.pdf.

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
Manhattan
Bronx
Brooklyn
Queens
Staten Island
Neighborhood Health Action Center
Parks and Airports
BX08
BX12
BX07
MN12
BX11
BX05
BX06
BX04
BX03
BX09
BX10
MN09
MN10
BX01
BX02
MN11
MN07
MN08
QN01
QN07
QN03
QN11
MN04
MN05
MN06
QN02
QN04
QN08
MN02
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BK15
BK13
QN14
SI01
SI02
SI03

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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.

Place:

Died: Date:

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:

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 f... ...ress)

5c. TYPE OF PLACE ☐ Hospital ☐ Freestanding Birthing Center ☐ Clinic/Doctor's ...e ☐ Home Deli... : Planned to ...ver 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. M...HER/PAREN... D... OF BIRTH (Mo... (Day) (Ye... ...yy)

6c. MO...ER/PARENT'S BIRTHPLACE Ci... State or foreign country

7. MOTHER/PARENT'S USUAL RESIDENCE a. State b. County

7c. City or town

7d. Street and numb... Apt. 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. FAT...PARENT'S DATE ...IRTH (Month) ...Day) (Year - yyyy)

8c. FATHER/PARENT'S BIRTHPLACE City & State or foreign country

9a. NAME OF ATTENDANT AT DELIVERY ☐ M.D. ☐ D.O. ☐ Midwife ☐ ...-Specify ☐ RPA ☐ R.N.

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

Signed _____

Name of Signer _____ (Type or ...int)

Address _____

Date Signed _____, Year - yyyy _____

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

Address _____ Apt. _____

City _____ State _____ ZIP _____

VOID

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(Rev. 1/20)

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)

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

NAME OF CHILD _____ CHILD'S MEDICAL RECORD NO. _____ CERTIFICATE NO. _____

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

10. PARENT'S RACE

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

a. Mother/Parent		b. Father/Parent
☐	White	☐
☐	Black or African American	☐
☐	American Indian or Alaska Native	☐

Name of enrolled or principal tribe

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

☐	Asian Indian	☐
☐	Chinese	☐
☐	Filipino	☐
☐	Japanese	☐
☐	Korean	☐
☐	Vietnamese	☐
☐	Other Asian	☐

Specify

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

☐	Native Hawaiian	☐
☐	Guamanian or Chamorro	☐
☐	Samoan	☐
☐	Other Pacific Islander	☐

Specify

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

☐	Other	☐

Specify

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

11. PARENT'S ANCESTRY

(Check **one** box and specify what the parent considers her/himself to be)

a. Mother/Parent		b. Father/Parent
☐	Hispanic/Latino (Mexican, Puerto Rican, Cuban, Dominican, etc.)	☐

Specify

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

☐	NOT Hispanic/Latino (Italian, African American, Haitian, Pakistani, Ukrainian, 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 business 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	☐ No Provider
☐ C(N)M/NP/PA/Other Midwife	☐ No Information
☐ Clinic	☐ Other

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

- ☐ Pre-pregnancy diabetes
- ☐ Gestational diabetes
- ☐ Pre-pregnancy hypertension
- ☐ Gestational hypertension
- ☐ Cardiac disease:
  - ☐ Structural defect
  - ☐ Functional defect
- ☐ Other serious chronic illness
- ☐ Anemia (Hct.<30/Hgb.<10)
- ☐ Asthma/Acute or chronic lung disease
- ☐ Rh sensitization
- ☐ Polyhydramnios
- ☐ Oligohydramnios
- ☐ Hemoglobinopathy
- ☐ Abruptio placenta
- ☐ Eclampsia
- ☐ Other previous poor pregnancy outcome
- ☐ Prelabor referral for high risk care
- ☐ Other vaginal bleeding
- ☐ Previous cesarean section: Number _____
- ☐ Infertility treatment:
  - ☐ Fertility drugs, artificial/intrauterine insemination
  - ☐ Assisted reproductive technology (e.g., IVF, GIFT)
  - Number of embryos implanted (if applicable) _____
- ☐ Fetal reduction
- ☐ None of the above

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

☐ Gonorrhea	☐ Hepatitis C
☐ Syphilis	☐ Tuberculosis
☐ Herpes Simplex (HSV)	☐ Rubella
☐ Chlamydia	☐ Bacterial Vaginosis
☐ Hepatitis B	☐ None of the above

g. 1. Cigarette Smoking in the 3 Months Before or During Pregnancy?
☐ Yes ☐ No

If Yes, Average Number of Cigarettes or Packs/Day (enter 0 if None)

	Cigarettes **or** Packs/Day
2. 3 mo. before pregnancy	_____ **or** _____
3. First 3 mo. of pregnancy	_____ **or** _____
4. Second 3 mo. of pregnancy	_____ **or** _____
5. Third trimester of pregnancy	_____ **or** _____

h. Alcohol Use During This Pregnancy?
☐ Yes ☐ No

i. Illicit and other Drugs Used During This Pregnancy?
☐ Yes ☐ No

If yes, check **all** that apply

☐ Heroin	☐ Marijuana
☐ Cocaine	☐ Sedatives
☐ Methadone	☐ Tranquilizers
☐ Methamphetamine	☐ Anticonvulsants

j. Mother/Parent Pre-Pregnancy Weight _____ pounds

k. Mother/Parent Height _____ feet _____ inches

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

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

m. If mother/parent 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	☐ Other
☐ Private Insurance	☐ Self-pay
☐ Other govt/CHPlusB	☐ Unknown
☐ CHAMPUS/TRICARE	

b. Is the mother/parent enrolled in an HMO or other managed care plan?
☐ Yes ☐ No

c. Did mother/parent participate in WIC?
☐ Yes ☐ No

18. MATERNAL MORBIDITY

(Check **all** that apply)

- ☐ Maternal transfusion
- ☐ Perineal laceration (3rd or 4th degree)
- ☐ Ruptured uterus
- ☐ Unplanned hysterectomy
- ☐ Admit to ICU
- ☐ Unplanned operating room procedure following delivery
- ☐ Hemorrhage
- ☐ Postpartum transfer to a higher level of care
- ☐ None of the above

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(Rev. 10/19)

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.

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, Suffix)

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 CareFacility
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 Medical Certifier _____ (Type or Print) Signature _____ D.O. M.D. NP RPA

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 (prior to first marriage)(First, Middle, Last)

18. Father/Parent name (prior to first marriage) (First, Middle, Last)

19. Mother/Parent 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. 1/20)

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

CONFIDENTIAL MEDICAL REPORT

VR 15 (Rev. 1/20)

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/Latino (Mexican, Puerto Rican, Cuban, Dominican, etc.)
  Specify _____
- ❑ NOT HIspanic/Latino (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.

		APPROXIMATE INTERVAL: ONSET TO DEATH
PART I	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. N.P. M.D. R.P.A. 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, Suffix)

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 (prior to first marriage)(First, Middle, Last)
22. Father/Parent Name (prior to first marriage) (First, Middle, Last)
23. Mother/Parent 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. 1/20)

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

MEDICAL EXAMINER'S SUPPLEMENTARY REPORT

VR 16 (Rev. 1/20)

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/Latino (Mexican, Puerto Rican, Cuban, Dominican, etc.)
  Specify _____
- ❑ NOT Hispanic/Latino (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)

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

CERTIFICATE OF SPONTANEOUS TERMINATION OF PREGNANCY

WORKSHEET (1 of 3)

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(REV. 12/20)

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 ☐ Undetermined

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 ☐ X ☐ Female

Country

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

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

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 ☐ X ☐ Female

Country

ATTENDANT/CERTIFIER

20. ATTENDANT NAME AT DELIVERY:
☐ MD ☐ DO
☐ LIC. Midwife ☐ PA
☐ Other, (specify) ☐ NP

(First, Middle, Last, Suffix)

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)

VOID

VR-17
(REV. 12/20)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE (Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF SPONTANEOUS TERMINATION OF PREGNANCY

WORKSHEET (2 of 3)

Mother/Parent Medical Record 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/Latino (Mexican, Puerto Rican, *Cuban, Dominican, etc.)* ☐
Specify
_____ (Mother/Parent) _____ (Father/Parent)

☐ NOT Hispanic/Latino (Italian, African American, Haitian, Pakistani, Ukrainian, 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: 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 _____

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).	b. Other Significant Causes or Conditions (Select or specify all other conditions contributing to death).
☐ Maternal Conditions/Diseases (Specify) _____	☐ 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) _____	☐ 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) _____	☐ Other Obstetrical or Pregnancy Complications (Specify) _____
☐ Fetal Anomaly (Specify) _____	☐ Fetal Anomaly (Specify) _____
☐ Fetal Injury (Please consult with OCME) _____	☐ Fetal Injury (Please consult with OCME) _____
☐ Fetal Infection (Specify) _____	☐ Fetal Infection (Specify) _____
☐ Other Fetal Conditions/Disorders (Specify) _____	☐ Other Fetal Conditions/Disorders (Specify) _____
☐ Unknown	☐ 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 ☐ Sedatives
☐ Cocaine ☐ Tranquilizers
☐ Methadone ☐ Anticonvulsants
☐ Methamphetamine ☐ Other
☐ Marijuana ☐ Unknown

31. PREGNANCY FACTORS

a. Risk Factors in this Pregnancy
(Check all that apply)
☐ Pre-pregnancy diabetes
☐ Gestational diabetes
☐ Pre-pregnancy hypertension
☐ Gestational hypertension
☐ Eclampsia
☐ Previous Preterm Birth
☐ Other previous poor pregnancy outcome
☐ Infertility Treatment
Fertility drugs, artificial/intrauterine insemination
Assisted reproductive technology (e.g., IVF, GIFT)
☐ Infertility Treatment – Assisted Reproductive Technology
☐ Previous cesarean section: Number _____
☐ Other
☐ None
☐ Unknown

VR-17
(REV. 12/20)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE (Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF SPONTANEOUS TERMINATION OF PREGNANCY

WORKSHEET (3 of 3)

Mother/Parent Medical Record 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 _____|_____ Last Name _____|_____
(First two letters) (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)
☐ Hispanic/Latino (Mexican, Puerto Rican, Cuban, Dominican, etc.)
Specify _____
☐ NOT Hispanic/Latino *(Italian, African American, Haitian, Pakistani, Ukrainian, 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 ☐ PA ☐ 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 ☐ PA ☐ Lic. Midwife
Signature of Certifier
Name of Certifier
Address
License No. *Date*

VR-18
(REV. 11/20)