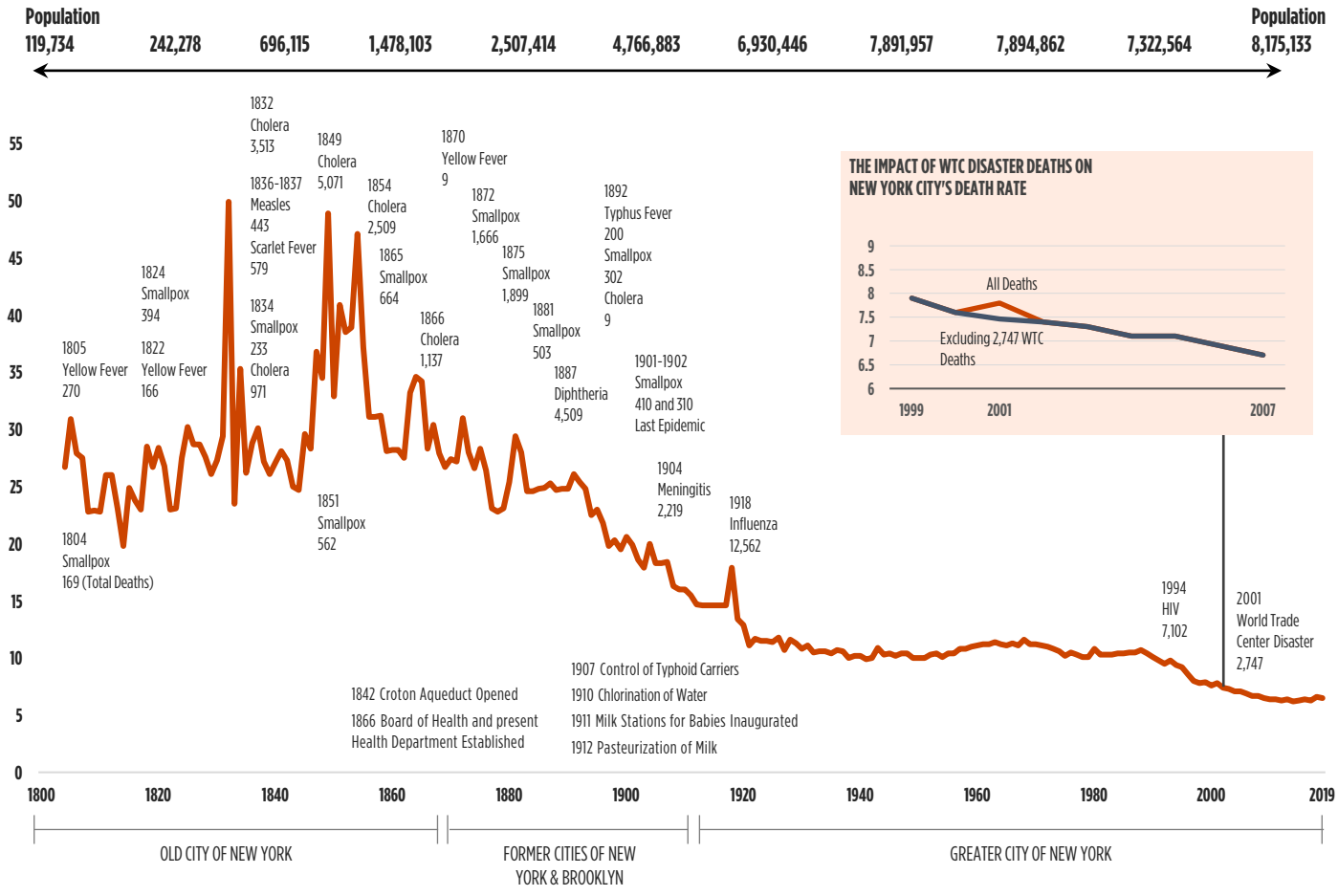
Summary of Vital Statistics 2019

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 2019

The City of New York

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NYC Health

TABLE OF CONTENTS

TABLE OF CONTENTS (cont.)

TABLE OF CONTENTS (cont.)

TABLE OF CONTENTS (cont.)

NEW YORK CITY DEPARTMENT OF
HEALTH AND MENTAL HYGIENE
Dave A. Chokshi, MD, MSc
Commissioner

Dear Fellow New Yorker:

The New York City Department of Health and Mental Hygiene's *Summary of Vital Statistics* highlights trends in the births and deaths that occur in New York City to inform our programs and policies. For our 2019 report, the data visualizations have been updated to make them easier to use and understand. These 2019 data and trends are important depictions of the state of public health in New York City prior to the COVID-19 pandemic.

Highlights from our 2019 report, which begins on the next page, include:

- Citywide, life expectancy was 81.3 years, remaining the same since 2018, and increasing by 0.4 years since 2010.
- Non-Hispanic Black New Yorkers had the lowest life expectancy among racial/ethnic groups at 77.1 years, while Hispanic New Yorkers had the highest at 82.3 years.
- From 2010 to 2019, the citywide age-adjusted mortality rate declined by 12.1%. From 2018 to 2019, the citywide age-adjusted mortality rate decreased from 555.1 per 100,000 population to 543.5 per 100,000 population.
- New York City's age-adjusted premature death rate (age <65 years) has declined by 5.0% from 2010 to 2019. Between 2018 and 2019, there was a slight increase in the age-adjusted premature death rate from 187.1 per 100,000 population to 190.7 per 100,000 population.
- Deaths due to unintentional drug overdose continued to rise, with a 7.3% increase from 2018. The 2019 drug-related death rate was highest among Hispanic New Yorkers. For the first time since 2010, the drug-related death rate for 55-64 year-olds was higher than all other age groups.
- The infant mortality rate was 4.2 deaths per 1,000 live births in 2019, a 7.7% increase from 2018, and the rate for non-Hispanic Black New Yorkers was 3.3 times the rate for non-Hispanic Whites. The rate may vary from year to year due to small numbers.
- The infant mortality rate in very high poverty areas was 2.0 times the infant mortality rate in low poverty areas in 2019.

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

Sincerely,

Dave A. Chokshi, MD, MSc
Commissioner

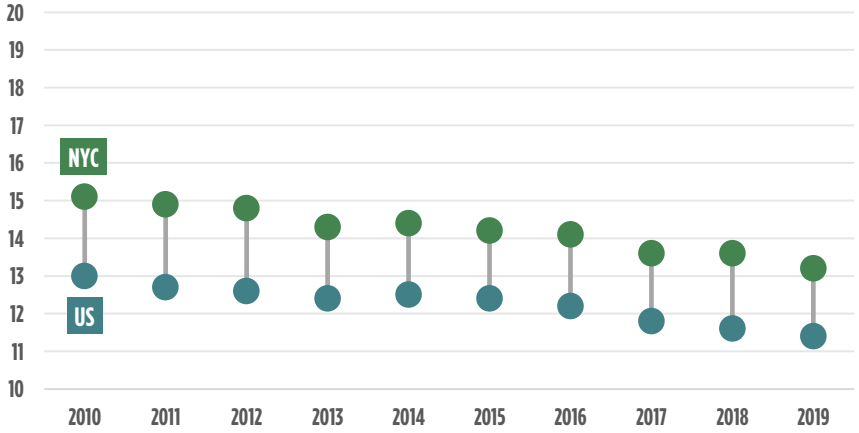
SUMMARY OF VITAL STATISTICS

EXECUTIVE SUMMARY, 2019

- In 2019, the birth rate was highest among Asians and Pacific Islanders at 15.2 births per 1,000 population, followed by 14.6 among non-Hispanic Whites, 12.5 among Hispanics, and 11.0 among non-Hispanic Blacks.
- For 2019, the community district with the highest crude birth rate was Borough Park with 25.1 births per 1,000 population; the community district with the lowest crude birth rate was Bayside with 4.7 births per 1,000 population.

Pregnancy Outcomes

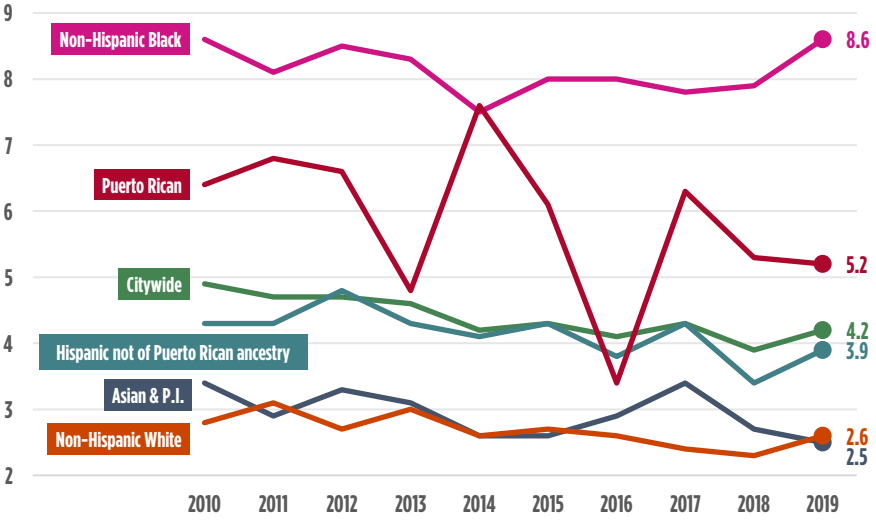
The 2019 citywide crude birth rate was 13.2 births per 1,000 population. New York City's birth rate has experienced a modest decrease for the past ten years, as has the United States' birth rate.



Infant Mortality

- In 2019, New York City had an infant mortality rate of 4.2 infant deaths per 1,000 live births. This represents an increase of 7.7% from 2018 (3.9 per 1,000 live births). Due to the small number of infant deaths, the rate may fluctuate from year to year.
- The infant mortality rate has declined by 14.3% since 2010.
- The infant mortality rate disparity between non-Hispanic Blacks and non-Hispanic Whites decreased slightly from 3.4 in 2018 to 3.3 in 2019. The disparity in infant mortality rates between Puerto Ricans and non-Hispanic Whites decreased from 2.3 in 2018 to 2.0 in 2019. These changes may be due to the small number of infant deaths from year to year.

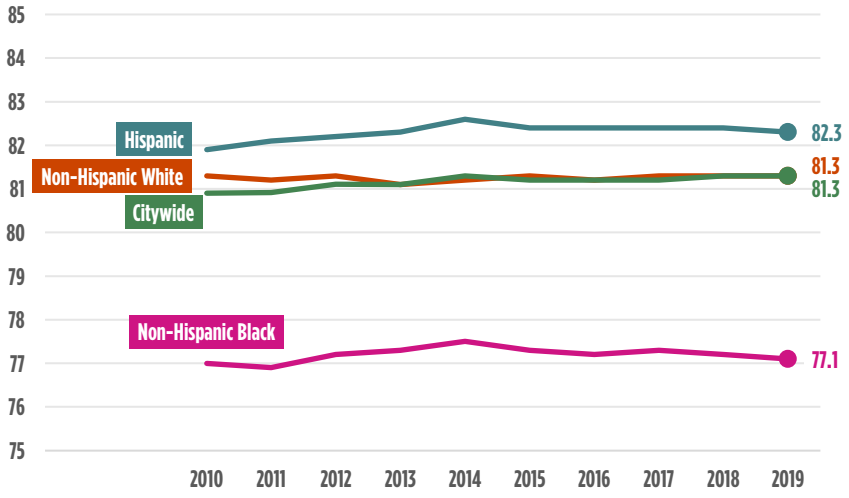
Infant mortality rates increased from 2018 to 2019 among Hispanics not of Puerto Rican ancestry, non-Hispanic Whites, and non-Hispanic Blacks by 14.7%, 13.0%, and 8.9%, respectively, while the rates decreased for Puerto Ricans and Asians and Pacific Islanders by 1.9% and 7.4%, respectively.



- New York City's life expectancy at birth in 2019 was 81.3 years, remaining the same since 2018, and increasing by 0.4 years since 2010.
- From 2010 to 2019, life expectancy increased among Hispanics by 0.4 years and among non-Hispanic Blacks by 0.1 years, yet remained the same for non-Hispanic Whites. From 2018 to 2019, life expectancy decreased by 0.1 years among non-Hispanic Blacks and Hispanics, and remained the same among non-Hispanic Whites.
- The life expectancy estimate for Asians and Pacific Islanders is not displayed due to small single-year age population denominators.

Life Expectancy at Birth

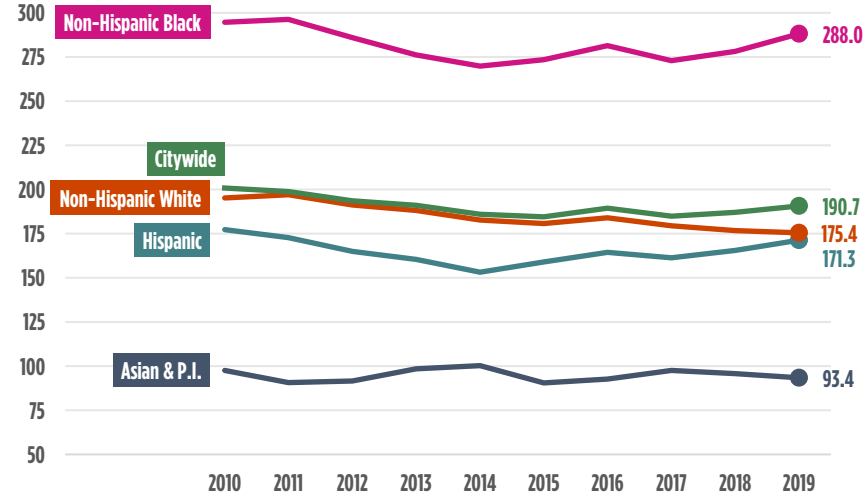
The New York City 2019 life expectancy at birth was 82.3 years among Hispanics, 81.3 years among non-Hispanic Whites, and 77.1 years among non-Hispanic Blacks.



Mortality

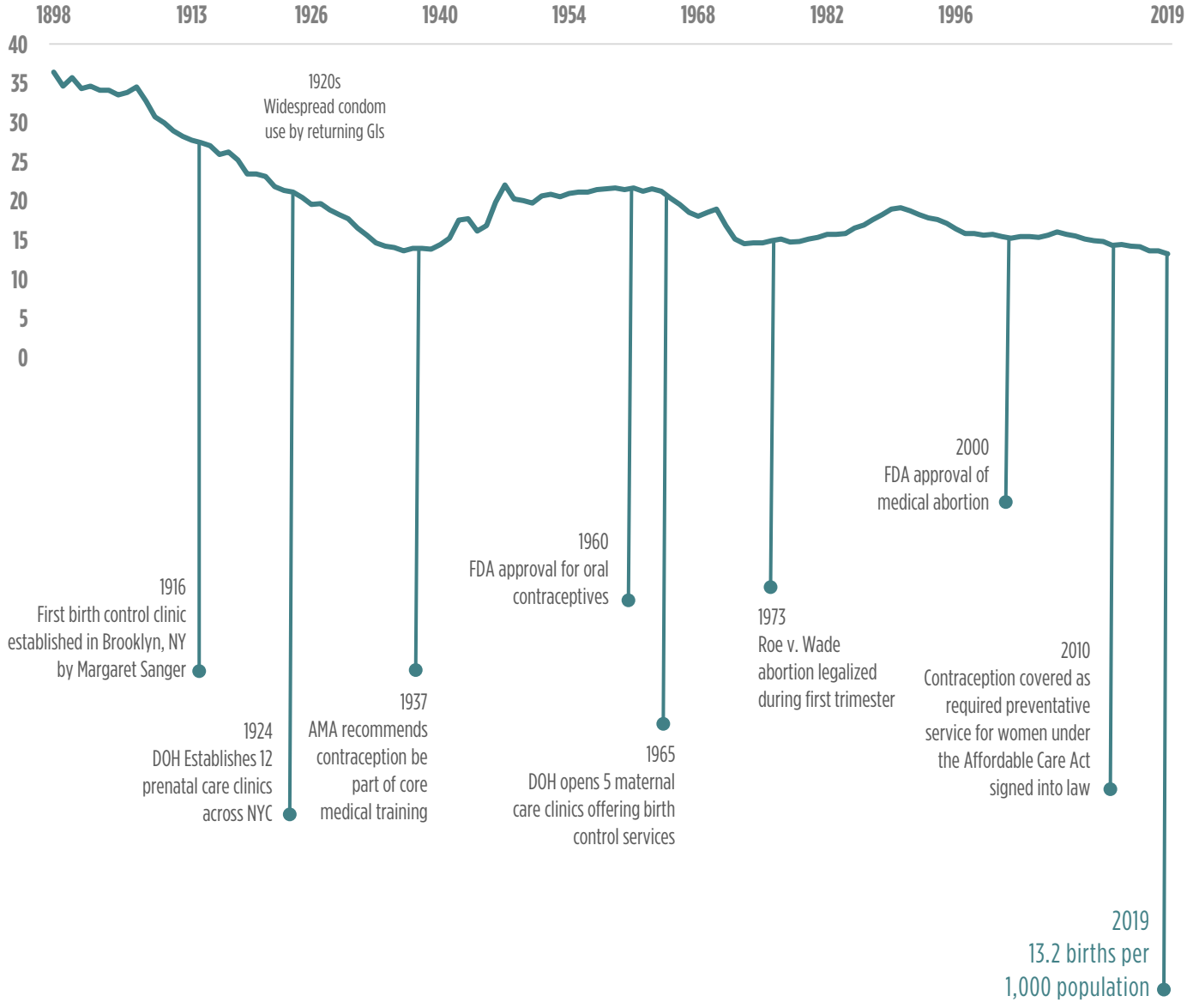
From 2010 to 2019, age-adjusted premature death rates declined by 2.3% among non-Hispanic Blacks, 3.3% among Hispanics, 10.1% among non-Hispanic Whites, and 4.3% among Asians and Pacific Islanders.

- The citywide age-adjusted death rate decreased over the past year, from 555.1 per 100,000 population in 2018, to 543.5 in 2019 (a 2.1% decrease).
- From 2018 to 2019, the age-adjusted death rate increased among Hispanics by 0.7%, yet decreased among non-Hispanic Blacks by 1.3%, among non-Hispanic Whites by 3.1%, and among Asians and Pacific Islanders by 5.6%.



PREGNANCY OUTCOMES

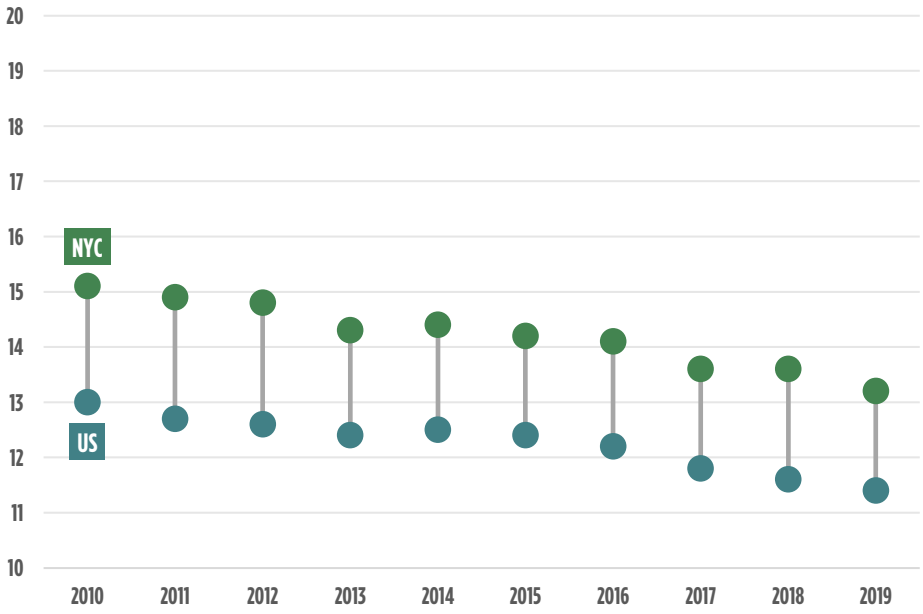
Birth Rate Per 1,000 Population Over Time



PREGNANCY OUTCOMES

Figure 1. Birth Rates, New York City and the United States, 2010–2019

The 2019 citywide crude birth rate was 13.2 births per 1,000 population. New York City's birth rate has experienced a modest decrease for the past ten years, as has the United States' birth rate.



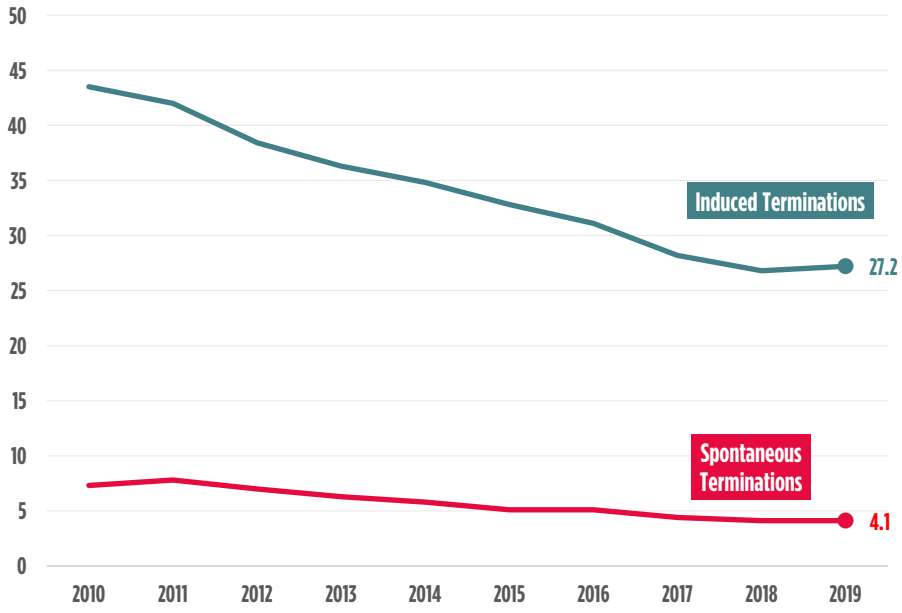
The 2019 citywide crude birth rate decreased by 2.9% from 2018, making it a historic low. It decreased by 12.6% since 2010.

In 2019, live births decreased by 3.4% from 2018, a fifth consecutive year decline. The population also decreased slightly from 2018 to 2019, by 0.7%.

New York City's 2019 crude birth rate was higher than the United States rate (13.2 vs. 11.4 nationwide), consistent with previous years.

Figure 2. Spontaneous and Induced Termination of Pregnancy Rates, New York City, 2010-2019

The 2019 citywide crude spontaneous termination of pregnancy (miscarriages and stillbirths) rate was 4.1 terminations per 1,000 females aged 15 to 44 years.



The spontaneous termination of pregnancy rate has remained the same since 2018, and between 4.1 and 7.8 terminations per 1,000 females aged 15 to 44 years since 2010.

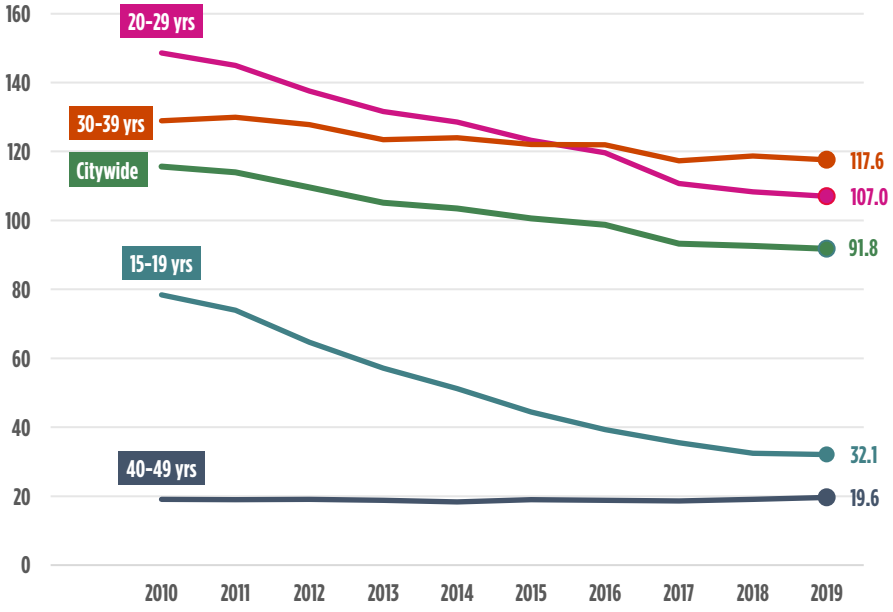
Changes in rates of spontaneous terminations of pregnancy may be due to variations in the reporting of these events by facilities rather than true changes in such events. For example, some facilities may fail to report very early gestational age spontaneous terminations. DOHMH continues to conduct outreach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

The 2019 citywide crude rate of induced terminations of pregnancy was 27.2 terminations per 1,000 females aged 15 to 44 years, increasing slightly by 1.5% since 2018. Since 2010, the rate has decreased by 37.5%, from 43.5 to 27.2 terminations per 1,000 females aged 15 to 44 years.

PREGNANCY OUTCOMES

Figure 3. Pregnancy Rates* by Woman's Age Group, New York City, 2010-2019

In 2019, women aged 30 to 39 years of age had the highest rate of pregnancy (live births, induced terminations, and spontaneous terminations) at 117.6 pregnancies per 1,000 females aged 30 to 39 years.



*See Technical Notes for the definition of pregnancy rate.

The second highest rate of pregnancy was for women aged 20 to 29 at 107.0, then women 15 to 19 years old and 40 to 49 years old, with pregnancy rates of 32.1 and 19.6, respectively.

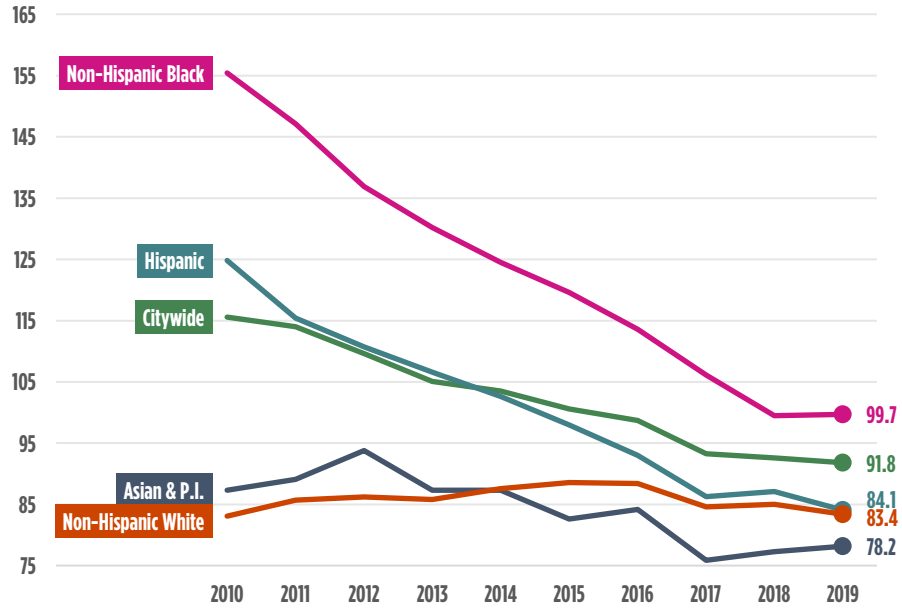
Since 2010, pregnancy rates have increased 2.6% among women aged 40-49 years old.

Since 2010, pregnancy rates have decreased by 28.0% among women aged 20-29 years old, and by 8.8% among women aged 30-39 years old.

The teen pregnancy rate (15-19 years of age) decreased by 59.1% since 2010, and 0.9% since 2018.

Figure 4. Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2010-2019

Since 2010, the citywide pregnancy rate has declined by 20.6%, from 115.6 pregnancies per 1,000 females aged 15-44 to 91.8.



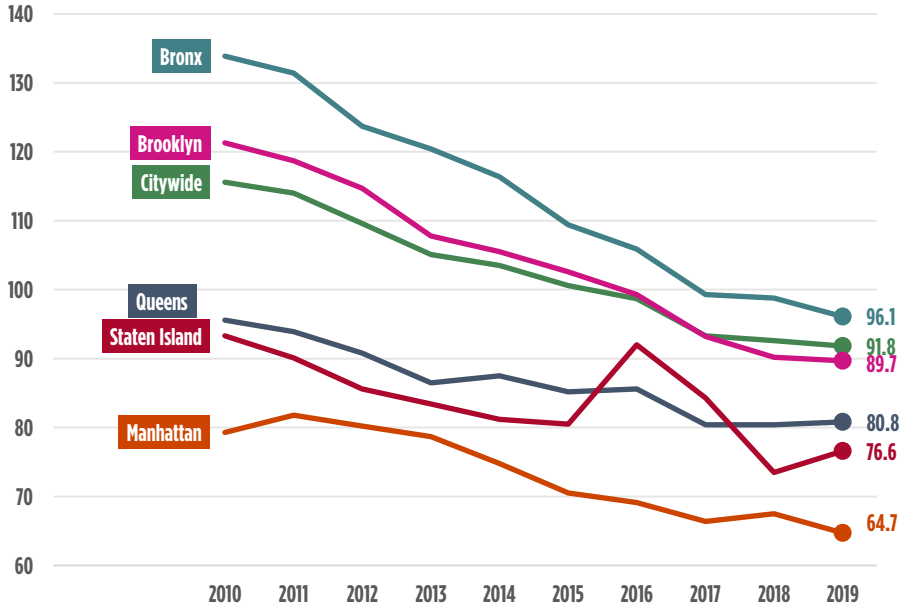
In 2019, the pregnancy rate was highest among non-Hispanic Blacks at 99.7 pregnancies per 1,000 females aged 15-44, followed by 84.1 among Hispanics, 83.4 among non-Hispanic Whites, and 78.2 among Asians and Pacific Islanders.

From 2010 to 2019, the pregnancy rate decreased among all groups, except for non-Hispanic Whites, for which the rate increased slightly by 0.4%. Over the ten-year period, non-Hispanic Blacks experienced a 35.8% decline; Hispanics, a 32.6% decline; and Asians and Pacific Islanders, a 10.4% decline.

PREGNANCY OUTCOMES

Figure 5. Pregnancy Rates by Woman's Borough of Residence, New York City, 2010-2019

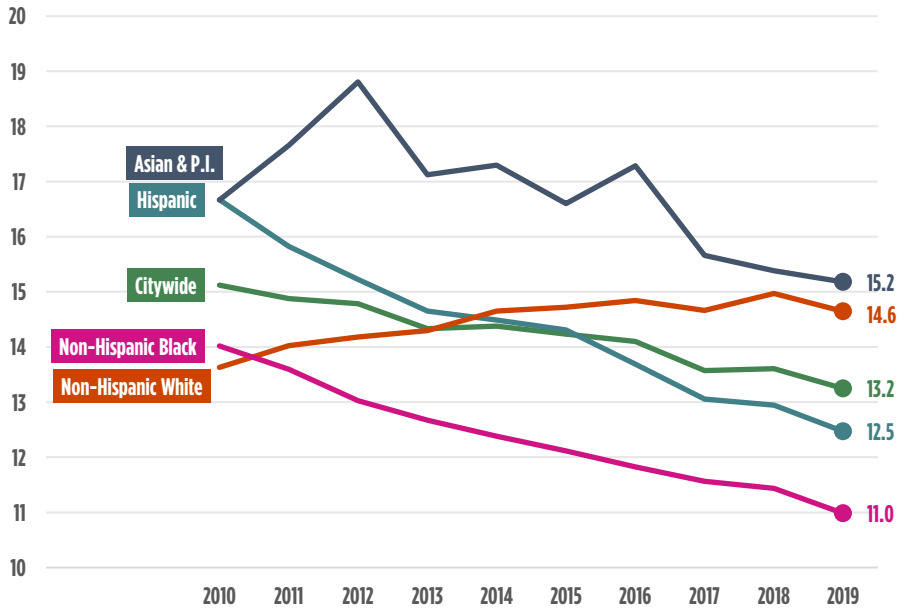
In 2019, the pregnancy rate in the Bronx continued to be the highest, at 96.1 pregnancies per 1,000 females aged 15-44, followed by Brooklyn at 89.7, Queens at 80.8, Staten Island at 76.6, and Manhattan at 64.7.



Since 2010, pregnancy rates have declined in all boroughs. Rates have decreased by 28.2% in the Bronx, by 26.1% in Brooklyn, by 18.4% in Manhattan, by 15.5% in Queens, and by 17.9% in Staten Island.

Figure 6. Birth Rates by Mother's Racial/Ethnic Group, New York City, 2010-2019

In 2019, the birth rate was highest among Asians and Pacific Islanders at 15.2 births per 1,000 population, followed by 14.6 among non-Hispanic Whites, 12.5 among Hispanics, and 11.0 among non-Hispanic Blacks.

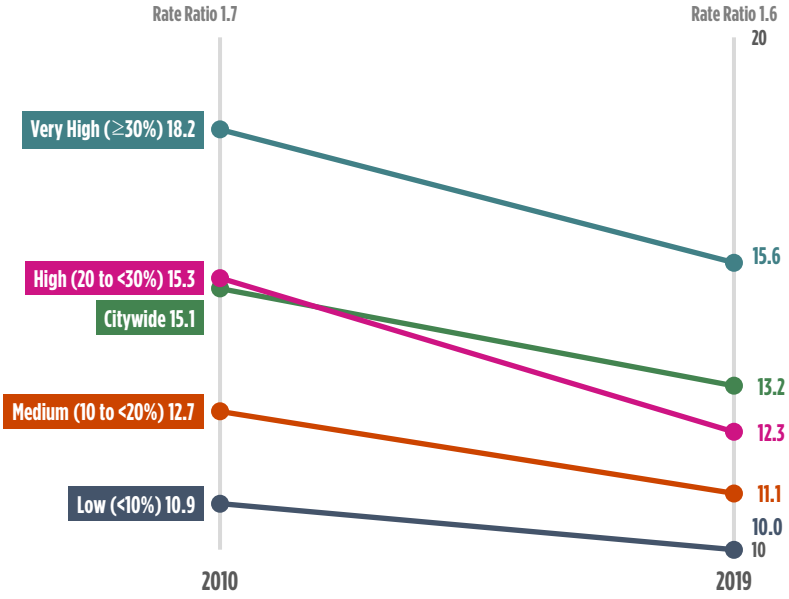


From 2010 to 2019, the birth rate increased among non-Hispanic Whites by 7.4% and decreased among all other groups. Over the ten-year period, non-Hispanic Blacks experienced a 21.4% decline; Hispanics, a 25.1% decline; and Asians and Pacific Islanders, a 9.0% decline.

PREGNANCY OUTCOMES

Figure 7. Birth Rates by Neighborhood Poverty*†, New York City, 2010 and 2019

In 2019, the birth rate was highest in the city's very high poverty neighborhoods, at 15.6 births per 1,000 population, compared to 10.0 for the low poverty neighborhoods.



In 2019, the birth rate in the city's very high poverty neighborhoods was 1.6 times the birth rate of the city's low poverty neighborhoods, compared to 1.7 in 2010.

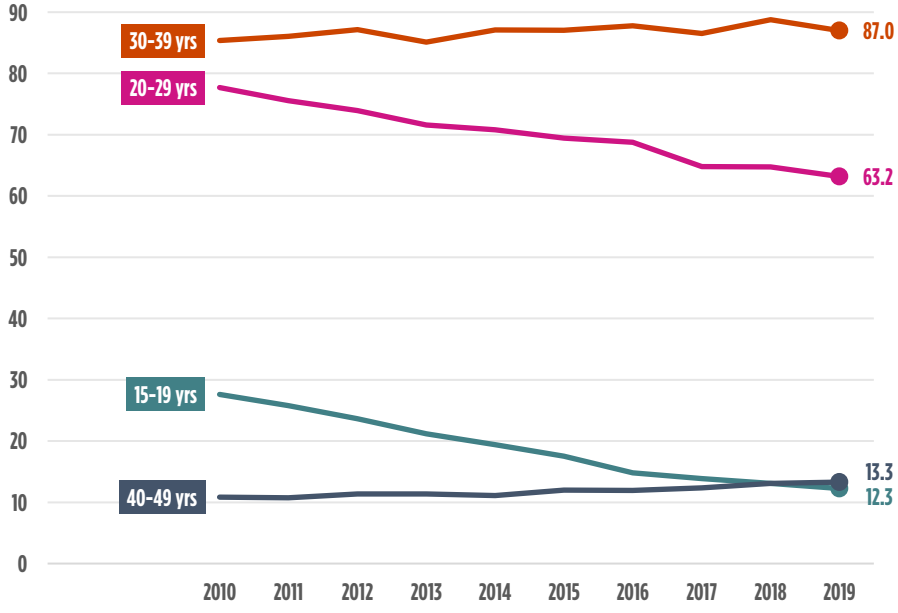
Since 2010, birth rates decreased across all categories of neighborhood poverty.

*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) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

†The citywide estimate is restricted to NYC residents.

Figure 8. Birth Rates by Mother's Age Group, New York City, 2010-2019

In 2019, the birth rate among women aged 30 to 39 years of age continued to be the highest, at 87.0 births per 1,000 female population, followed by women 20 to 29 at 63.2, then women 40 to 49 years old and 15 to 19 years old, with birth rates of 13.3 and 12.3, respectively. For the first time, the teen birth rate is the lowest birth rate among all age groups in 2019.



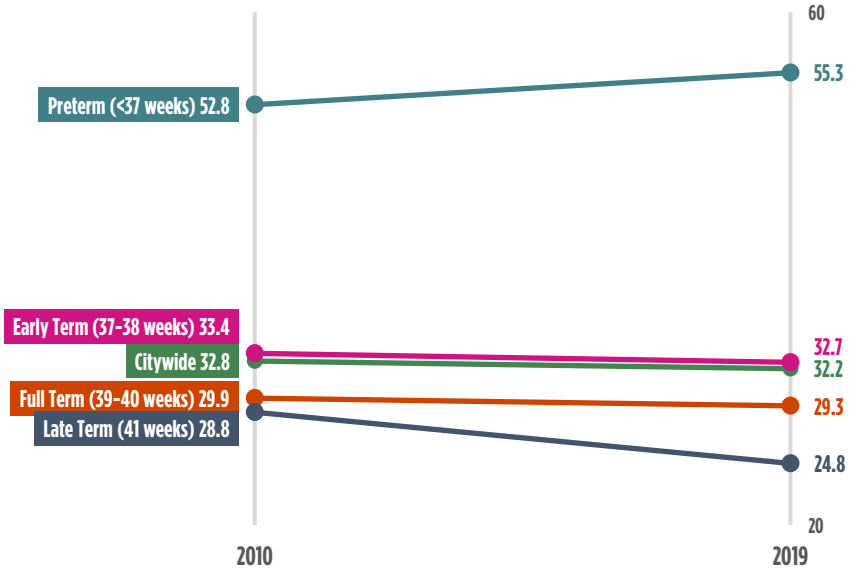
Since 2010, birth rates increased 1.9% among women aged 30-39 years old, and 22.0% among women aged 40-49 years old.

Among women 20-29 years old, the birth rate has declined by 18.7% since 2010, and 2.3% since 2018. The teen birth rate (15-19 years of age) has decreased by 55.4% since 2010, and 6.1% since 2018.

PREGNANCY OUTCOMES

Figure 9. Percent of Births via Cesarean Delivery by Gestational Age, New York City, 2010 and 2019

From 2010 to 2019, the percent of births delivered via Cesarean delivery increased for preterm infants (<37 weeks gestational age) but decreased among other gestational age categories.



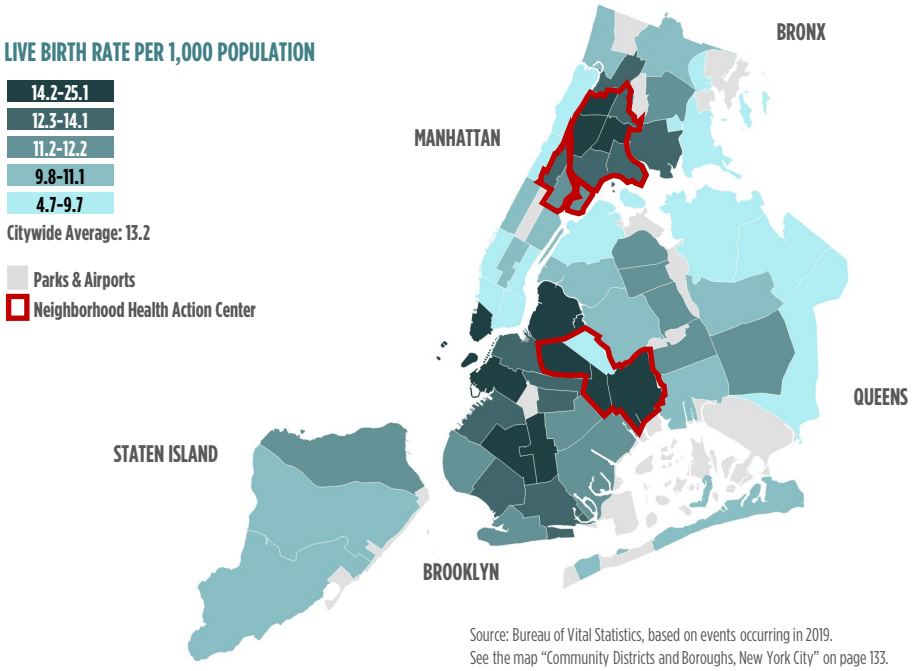
For both years, as gestational age increases, the percent of births delivered via Cesarean delivery decreases.

For 2010 and 2019, a majority of preterm infants were delivered by Cesarean section.

PREGNANCY OUTCOMES

Figure 10. Birth Rates by Community District of Residence, New York City, 2019

For 2019, the community district with the highest crude birth rate was Borough Park with 25.1 births per 1,000 population, followed by 18.4 in Williamsburg/Greenpoint, 17.5 in Battery Park/Tribeca, 15.2 in Brownsville, and 15.1 in University/Morris Heights.



Source: Bureau of Vital Statistics, based on events occurring in 2019.

See the map "Community Districts and Boroughs, New York City" on page 133.

The community district with the lowest crude birth rate was Bayside with 4.7 births per 1,000 population, then the Lower East Side with 6.4, Chelsea/Clinton and Throgs Neck with 7.5, Greenwich Village/SOHO with 7.9, and Queens Village with 8.1.

MANHATTAN	CD	Birth Rate
Battery Park, Tribeca	MN01	17.5
Central Harlem	MN10	12.5
East Harlem	MN11	11.4
Midtown Business District	MN05	11.1
Upper East Side	MN08	11.1
Upper West Side	MN07	10.9
Washington Heights	MN12	9.7
Murray Hill	MN06	9.2
Manhattanville	MN09	8.5
Greenwich Village, SOHO	MN02	7.9
Chelsea, Clinton	MN04	7.5
Lower East Side	MN03	6.4

BRONX	CD	Birth Rate
University, Morris Heights	BX05	15.1
Morrisania	BX03	14.8
Concourse, Highbridge	BX04	14.2
Mott Haven	BX01	14.0
East Tremont	BX06	13.9
Fordham	BX07	13.6
Hunts Point	BX02	13.6
Unionport, Soundview	BX09	12.7
Pelham Parkway	BX11	11.4
Williamsbridge	BX12	10.1
Riverdale	BX08	10.0
Throgs Neck	BX10	7.5

STATEN ISLAND	CD	Birth Rate
Port Richmond	SI01	11.9
Willowbrook, South Beach	SI02	10.2
Tottenville	SI03	10.2

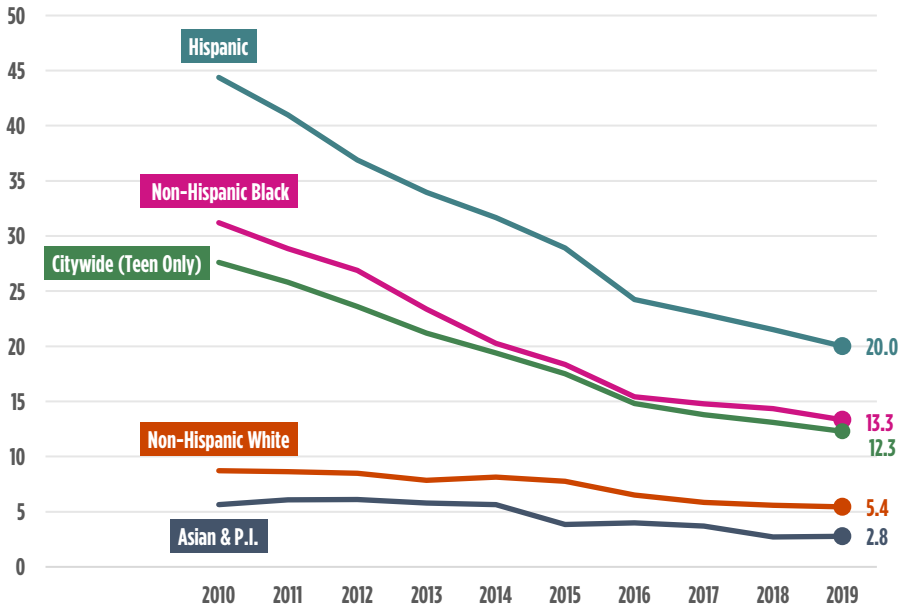
BROOKLYN	CD	Birth Rate
Borough Park	BK12	25.1
Williamsburg, Greenpoint	BK01	18.4
Brownsville	BK16	15.2
Park Slope	BK06	14.6
Bedford Stuyvesant	BK03	14.5
East New York	BK05	14.3
Flatbush, Midwood	BK14	14.3
Sunset Park	BK07	14.1
Crown Heights South	BK09	14.0
Fort Greene, Brooklyn Heights	BK02	13.2
Sheepshead Bay	BK15	12.8
Bensonhurst	BK11	12.5
Crown Heights North	BK08	12.5
Bay Ridge	BK10	11.9
Coney Island	BK13	11.5
Canarsie	BK18	11.3
East Flatbush	BK17	11.2
Bushwick	BK04	9.4

QUEENS	CD	Birth Rate
Jamaica, St. Albans	QN12	12.2
Jackson Heights	QN03	11.9
Woodhaven	QN09	11.8
Elmhurst, Corona	QN04	11.7
Rego Park, Forest Hills	QN06	11.5
The Rockaways	QN14	11.1
Fresh Meadows, Briarwood	QN08	10.8
Sunnyside, Woodside	QN02	10.7
Ridgewood, Glendale	QN05	10.4
Howard Beach	QN10	10.2
Astoria, Long Island City	QN01	9.6
Flushing	QN07	9.3
Queens Village	QN13	8.1
Bayside	QN11	4.7

PREGNANCY OUTCOMES

Figure 11. Teen Birth Rates by Mother's Racial/Ethnic Group, New York City, 2010-2019

From 2010 to 2019, the citywide teen birth rate declined by 55.4% overall.



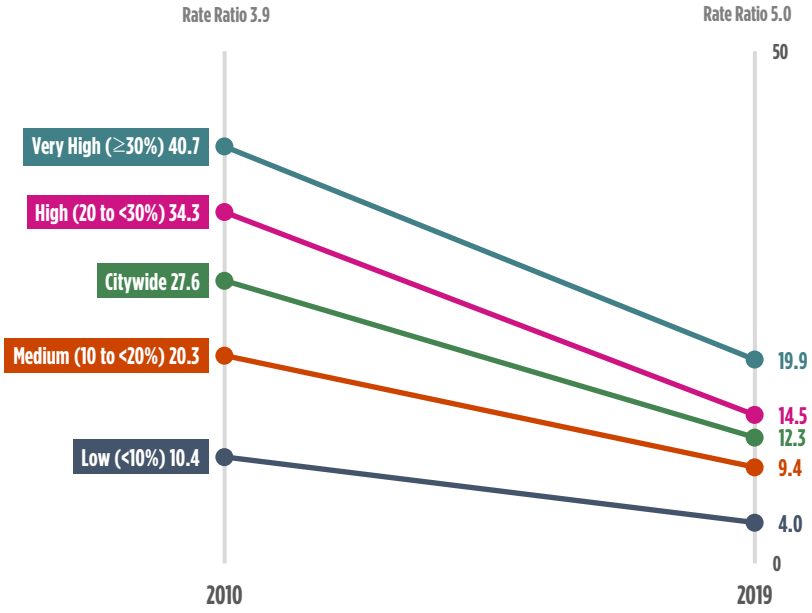
Teen birth rates also declined for all racial/ethnic groups: by 55.0% among Hispanics, 57.4% among non-Hispanic Blacks, 37.9% among non-Hispanic Whites, and 50.0% among Asians and Pacific Islanders.

The teen birth rate among Hispanics remains high compared to that of non-Hispanic Whites. In 2010 the teen birth rate for Hispanics was 5.1 times that of non-Hispanic Whites. In 2019, the teen birth rate for Hispanics was 3.7 times that of non-Hispanic Whites.

In 2019, the teen birth rate among non-Hispanic Blacks was 2.5 times that of non-Hispanic Whites, reflecting a narrowing of the difference since 2010, when it was 3.6 times that of non-Hispanic Whites.

Figure 12. Teen Birth Rate by Neighborhood Poverty*†, New York City Residents, 2010 and 2019

Between 2010 and 2019, teen birth rates declined across all poverty levels.



Over that time period, teen birth rates declined by 51.1% in the city's very high poverty neighborhoods, by 57.7% in high poverty neighborhoods, by 53.7% in medium poverty neighborhoods, and by 61.5% in low poverty neighborhoods.

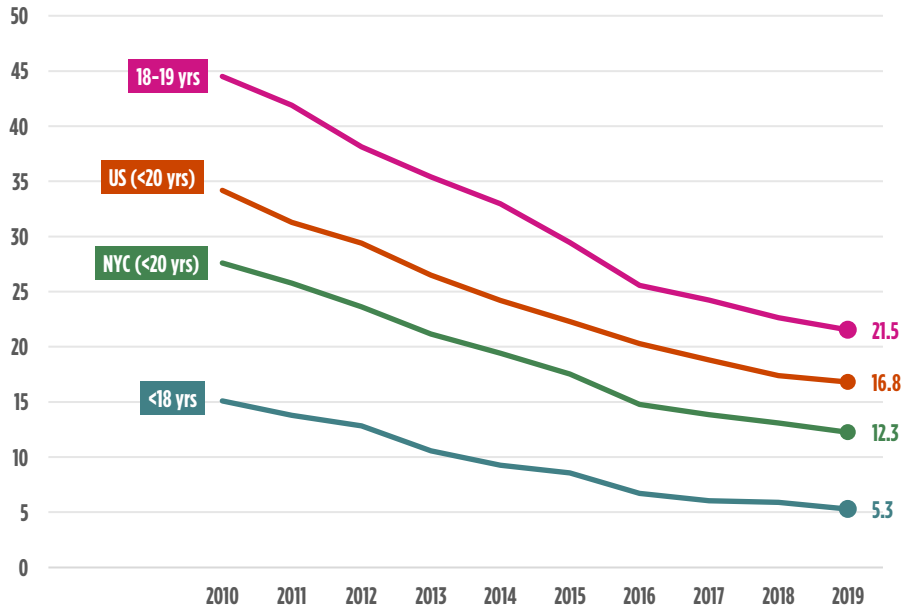
Although rates have declined, the disparity between low poverty and very high poverty neighborhoods has increased. Teen birth rates remain comparatively high in the city's very high poverty neighborhoods. In 2019, the teen birth rate in very high poverty neighborhoods was 5.0 times that of low poverty neighborhoods; in 2010, it was 3.9 times that of low poverty neighborhoods.

*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

†The citywide estimate is restricted to NYC residents.

PREGNANCY OUTCOMES

Figure 13. Teen Birth Rates by Age Group, New York City, 2010-2019
From 2010 to 2019, birth rates declined among all teenagers, regardless of age.



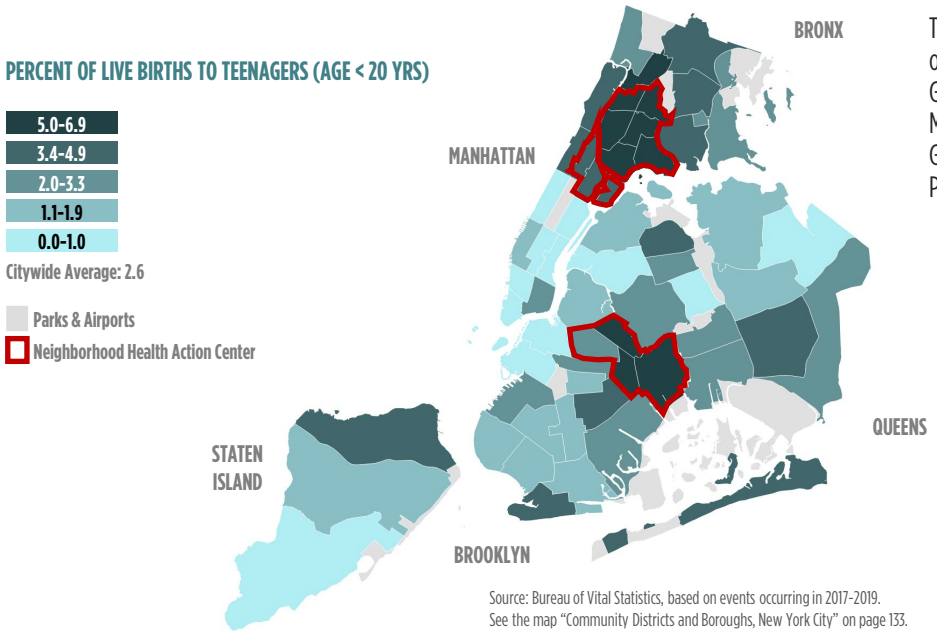
Among teens less than 18 years of age, the birth rate declined over this period by 64.9%; among women 18-19, it declined by 51.7%.

The overall rate of teen birth in New York City (births to women <20) declined by 55.4%, 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, 2017-2019

The community districts with the highest percentage (three-year average) of live births to teenagers (<20 years) was East Tremont and Mott Haven with 6.9%, followed by Hunts Point with 6.0%, Brownsville with 5.8%, Morrisania and University/Morris Heights with 5.5%, and Bushwick with 5.2%.



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

Source: Bureau of Vital Statistics, based on events occurring in 2017-2019.
See the map "Community Districts and Boroughs, New York City" on page 133.

MANHATTAN	CD	Birth Percentage
Manhattanville	MN09	4.7
Washington Heights	MN12	3.9
Central Harlem	MN10	3.8
East Harlem	MN11	3.8
Lower East Side	MN03	2.1
Chelsea, Clinton	MN04	1.2
Midtown Business District	MN05	0.8
Upper West Side	MN07	0.6
Murray Hill	MN06	0.3
Greenwich Village, SOHO	MN02	0.2
Upper East Side	MN08	0.2
Battery Park, Tribeca	MN01	0.0

BRONX	CD	Birth Percentage
Mott Haven	BX01	6.9
East Tremont	BX06	6.9
Hunts Point	BX02	6.0
Morrisania	BX03	5.5
University, Morris Heights	BX05	5.5
Concourse, Highbridge	BX04	5.1
Fordham	BX07	5.0
Unionport, Soundview	BX09	4.9
Williamsbridge	BX12	4.8
Pelham Parkway	BX11	3.7
Throgs Neck	BX10	2.7
Riverdale	BX08	2.1

STATEN ISLAND	CD	Birth Percentage
Port Richmond	SI01	4.3
Willowbrook, South Beach	SI02	1.2
Tottenville	SI03	0.6

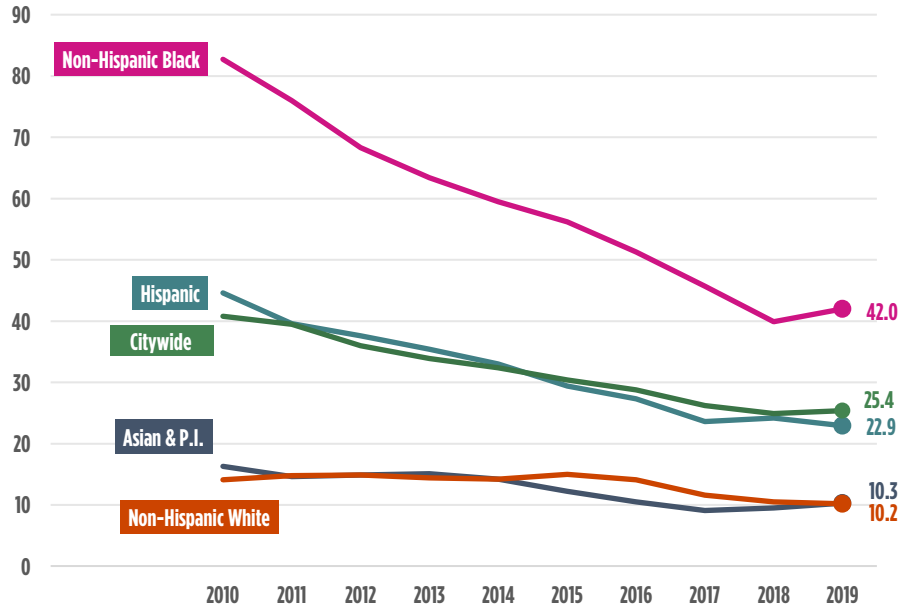
BROOKLYN	CD	Birth Percentage
Brownsville	BK16	5.8
Bushwick	BK04	5.2
East New York	BK05	5.1
Coney Island	BK13	3.5
East Flatbush	BK17	3.4
Bedford Stuyvesant	BK03	3.3
Crown Heights North	BK08	2.7
Sunset Park	BK07	2.5
Canarsie	BK18	2.1
Flatbush, Midwood	BK14	1.9
Bensonhurst	BK11	1.7
Williamsburg, Greenpoint	BK01	1.5
Crown Heights South	BK09	1.5
Sheepshead Bay	BK15	1.5
Borough Park	BK12	1.4
Bay Ridge	BK10	1.1
Fort Greene, Brooklyn Heights	BK02	0.9
Park Slope	BK06	0.9

QUEENS	CD	Birth Percentage
The Rockaways	QN14	4.9
Jackson Heights	QN03	3.9
Jamaica, St. Albans	QN12	3.5
Elmhurst, Corona	QN04	2.7
Woodhaven	QN09	2.7
Howard Beach	QN10	2.7
Ridgewood, Glendale	QN05	2.5
Queens Village	QN13	2.2
Astoria, Long Island City	QN01	1.9
Flushing	QN07	1.3
Fresh Meadows, Briarwood	QN08	1.2
Sunnyside, Woodside	QN02	1.0
Rego Park, Forest Hills	QN06	0.7
Bayside	QN11	0.3

PREGNANCY OUTCOMES

Figure 15. Age-Adjusted Induced Termination of Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2010-2019

The 2019 citywide age-adjusted rate of induced terminations of pregnancy (at 25.4 terminations per 1,000 females aged 15 to 44 years) declined by 37.7% since 2010.

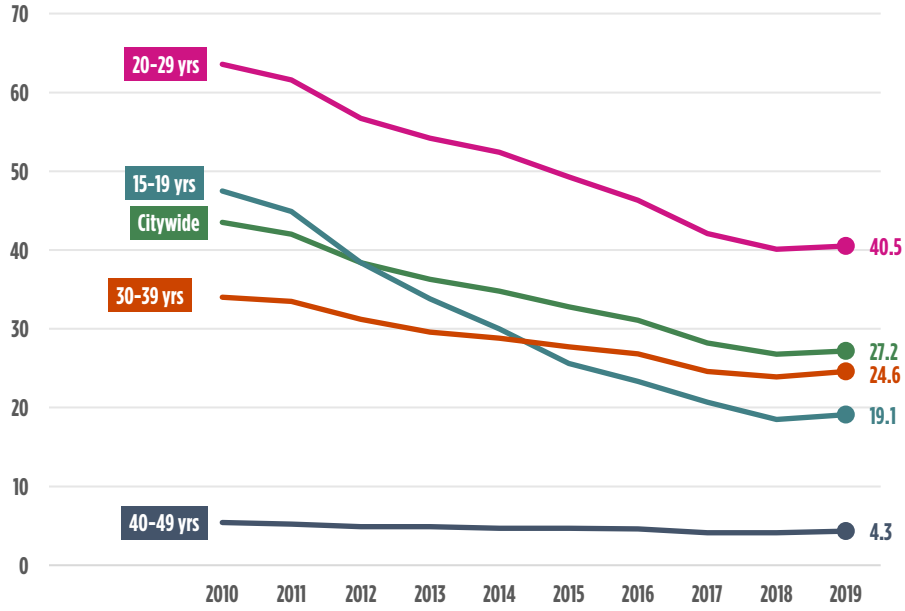


Similarly, age-adjusted rates among each racial/ethnic group declined: 36.8% among Asians and Pacific Islanders, 48.7% among Hispanics, 49.2% among non-Hispanic Blacks, and 27.7% among non-Hispanic Whites.

The disparity between non-Hispanic White and non-Hispanic Black induced termination of pregnancy rates has narrowed since 2010. The rate among non-Hispanic Blacks was 4.1 times that of non-Hispanic Whites (42.0 terminations per 1,000 females aged 15-44 vs. 10.2) in 2019, compared to 5.9 times in 2010.

Figure 16. Age-Specific Induced Termination of Pregnancy Rates by Woman's Age Group, New York City, 2010-2019

The 2019 crude citywide rate of induced terminations of pregnancy declined 37.5% since 2010, from 43.5 to 27.2 terminations per 1,000 women aged 15-49 years.



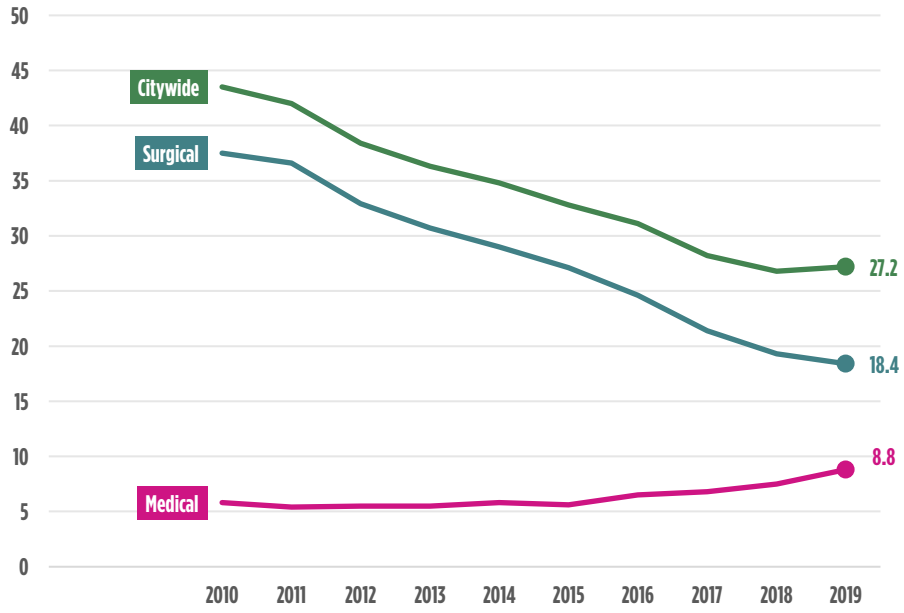
Since 2010, the age-specific rate declined 59.8% among teens (15 to 19 years of age), from 47.5 terminations per 1,000 females in 2010, to 19.1 in 2019. The rate declined by 36.3% among women 20 to 29 years of age, 27.6% among women 30 to 39 years of age and 20.4% among women 40 and older.

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 Medical vs. Surgical Procedure, New York City, 2010-2019

Since 2010, the crude rate of medical abortion in New York City increased 51.7%, to 8.8 terminations per 1,000 females aged 15-44, while the rate of surgical abortion decreased 50.9% to 18.4 terminations per 1,000 females aged 15-44.

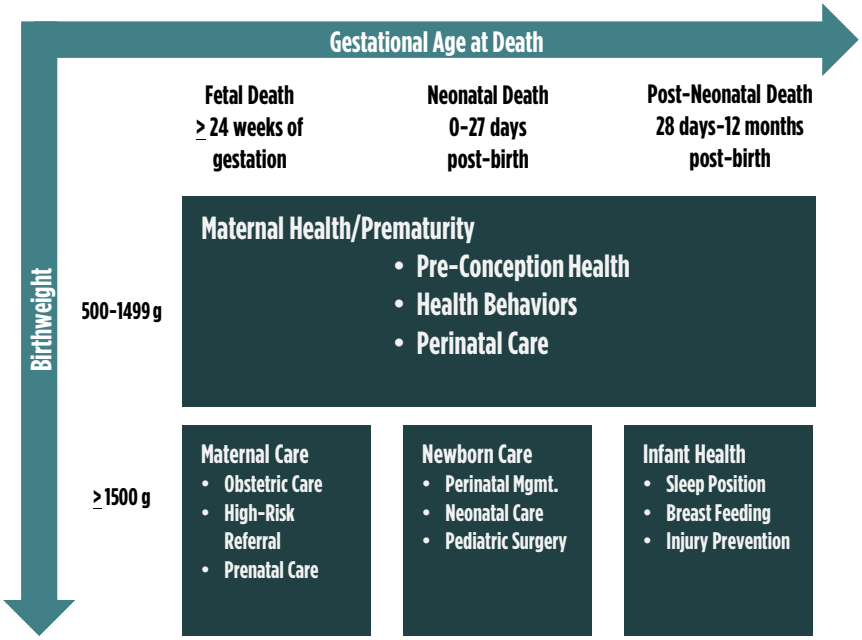


Medication-induced abortion, using mifepristone in combination with misoprostol, is termed a "medical abortion" and may be performed up to nine weeks of gestation, rather than a surgical procedure, to terminate a pregnancy. Medical abortion is not to be confused with the morning-after pill, also known 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, 2010-2019

The overall fetal-infant mortality rate (FIMR) for New York City was 6.3 per 1,000 live births in 2019, decreasing by 7.4% since 2010, and decreasing by 6.0% from 2018.

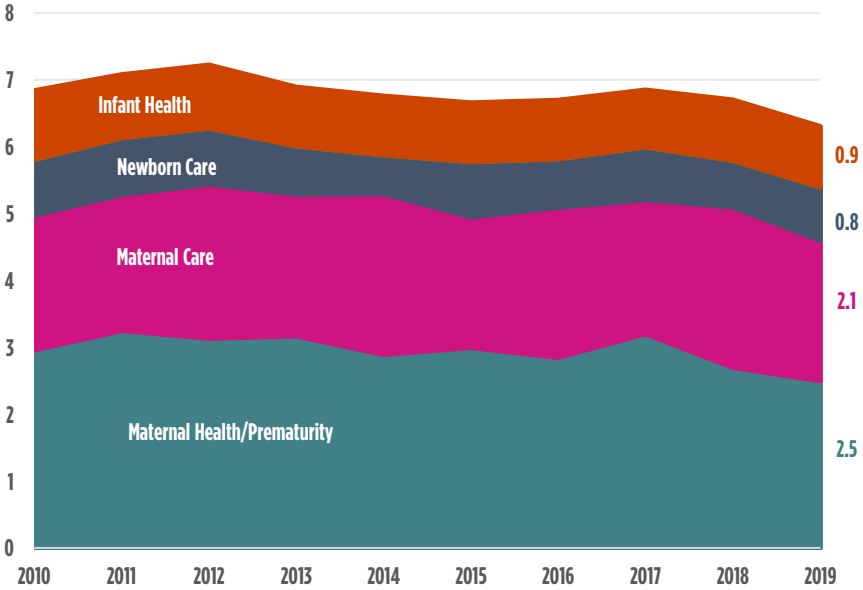
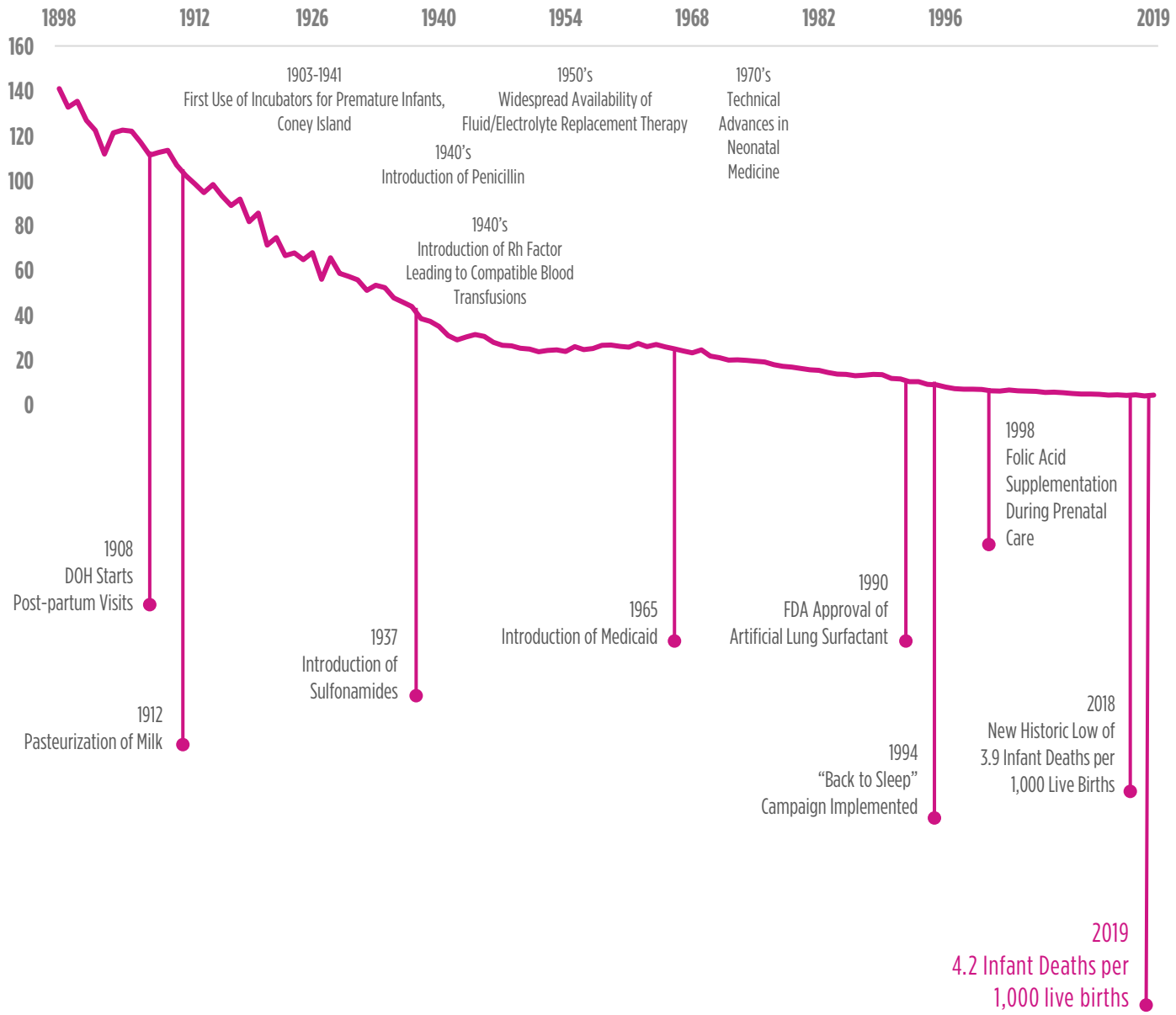


Figure 2 illustrates the relative contribution of risk factors to the overall FIMR. Refer to Figure 1 for specific risk factors. Deaths with a birthweight between 500 grams and 1,499 grams, and occurring at any gestational age or birth age, contributed 39.7% to the FIMR in 2019, indicating that prevention efforts should focus on maternal health/prematurity risk factors.

The share of the FIMR attributable to the infant health period decreased from 14.7% in 2010 to 14.3% in 2019 (post-neonatal deaths with a birthweight of 1,500 grams or greater). The contribution of the maternal care period to the FIMR increased from 29.4% in 2010 to 33.3% in 2019 (fetal deaths with a birthweight of 1,500 grams or greater). The share of the FIMR attributable to the newborn care period increased by 0.9 percentage points between 2010 and 2019 (neonatal deaths with a birthweight of 1,500 grams or greater), from 11.8% to 12.7%.

INFANT MORTALITY

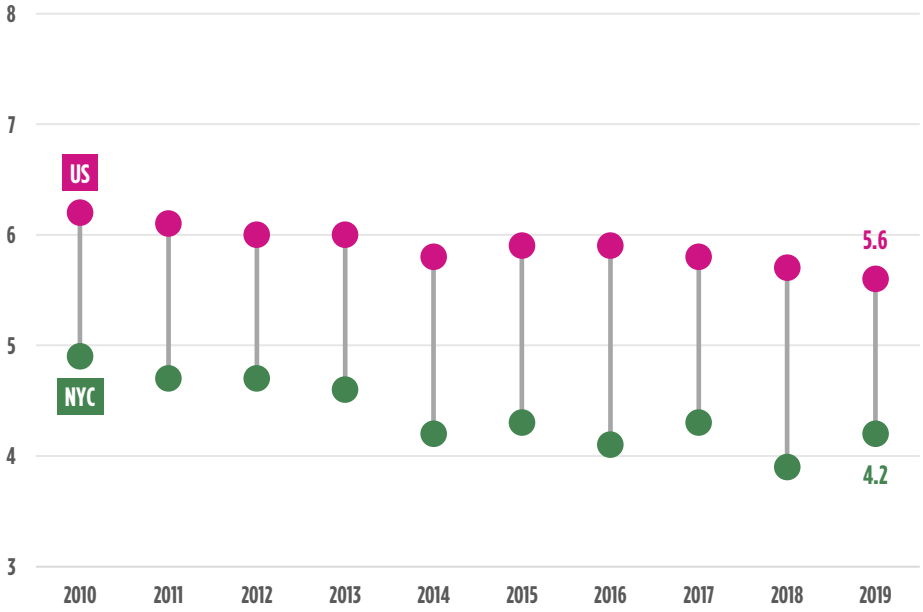
Infant Mortality Rate Per 1,000 Live Births Over Time



INFANT MORTALITY

Figure 1. Infant Mortality Rate, New York City and the United States*, 2010-2019

In the last 10 years, New York City's infant mortality rate (the number of infant deaths-death of an infant before their first birthday-for every 1,000 live births) has had a steeper decline than the US rate has (14.3% decline vs. 9.7% decline).

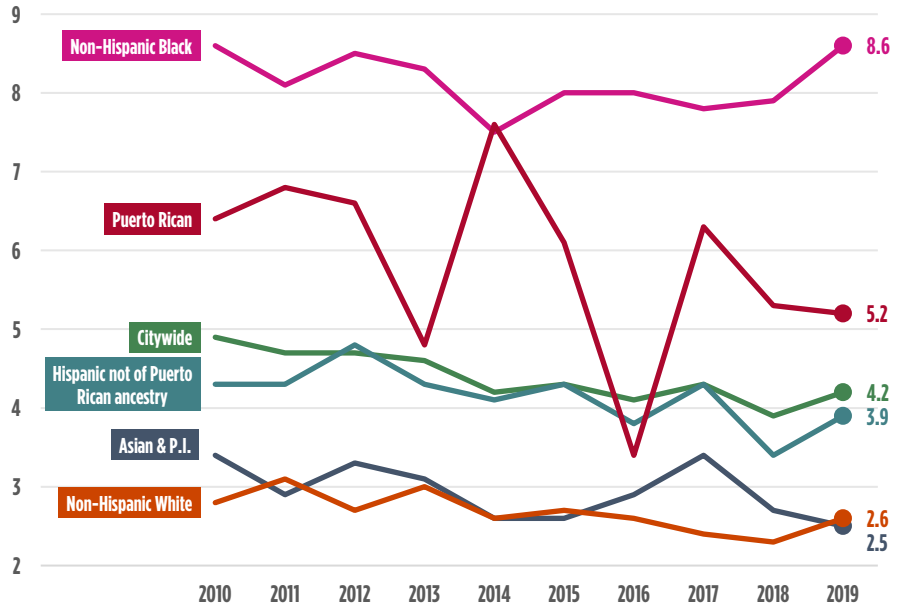


In 2019, New York City had an infant mortality rate of 4.2 infant deaths per 1,000 live births. This represents an increase of 7.7% from 2018 (3.9 per 1,000 live births). The rate has declined by 14.3% since 2010. The infant mortality rate may fluctuate from year to year due to the small number of infant 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, 2010-2019

Infant mortality rates increased from 2018 to 2019 among Hispanics not of Puerto Rican ancestry, non-Hispanic Whites, and non-Hispanic Blacks by 14.7%, 13.0%, and 8.9%, respectively, while the rates decreased for Puerto Ricans and Asians and Pacific Islanders by 1.9% and 7.4%, respectively.

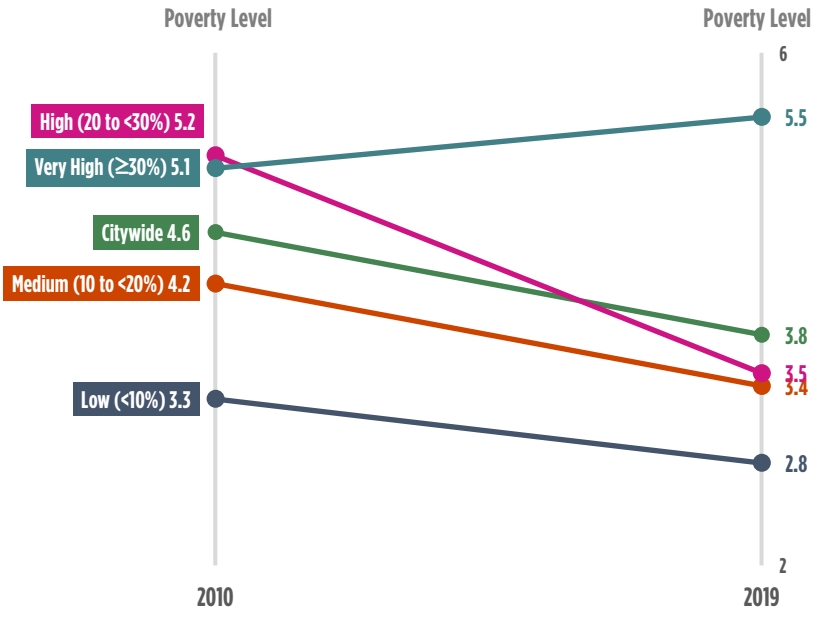


Although rates fluctuate due to small numbers, they are consistently higher among some groups: the rate for non-Hispanic Blacks was 3.3 times the rate for non-Hispanic Whites in 2019; the rate for Puerto Ricans was 2.0 times the rate for non-Hispanic Whites in 2019.

INFANT MORTALITY

Figure 3. Infant Mortality Rate by Neighborhood Poverty*†, New York City Residents, 2010 and 2019

From 2010 to 2019, the infant mortality rate declined in all poverty groups except for the very high poverty group, for which the rate increased by 7.8%.



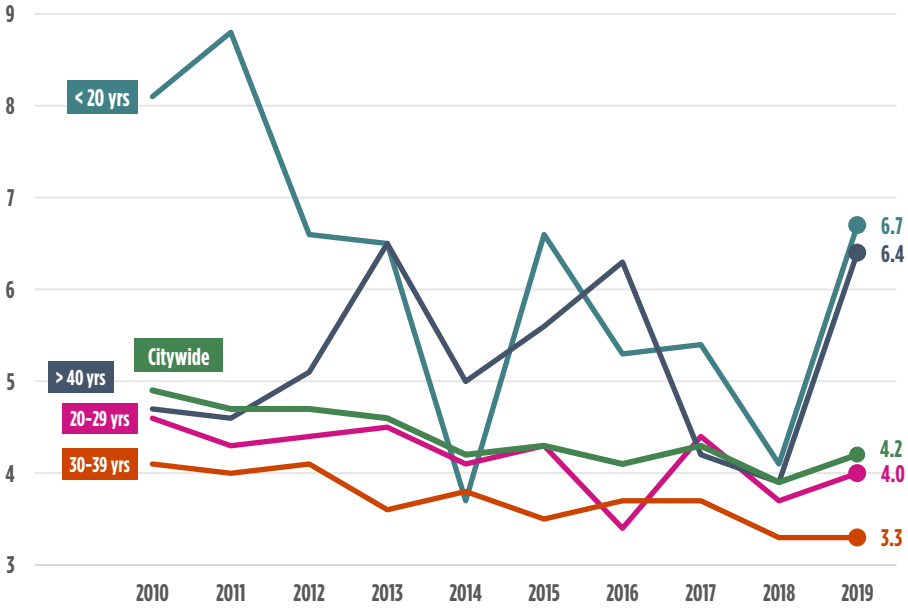
The infant mortality rate in very high poverty areas was 2.0 times the infant mortality rate in low poverty areas in 2019.

*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) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

†The citywide estimate is restricted to NYC residents.

Figure 4. Infant Mortality Rate by Mother's Age, New York City, 2010-2019

Infant mortality rates have decreased among infants born to women in all age groups since 2010 except for women in the ≥40 age group, for which the rate increased by 36.2%.

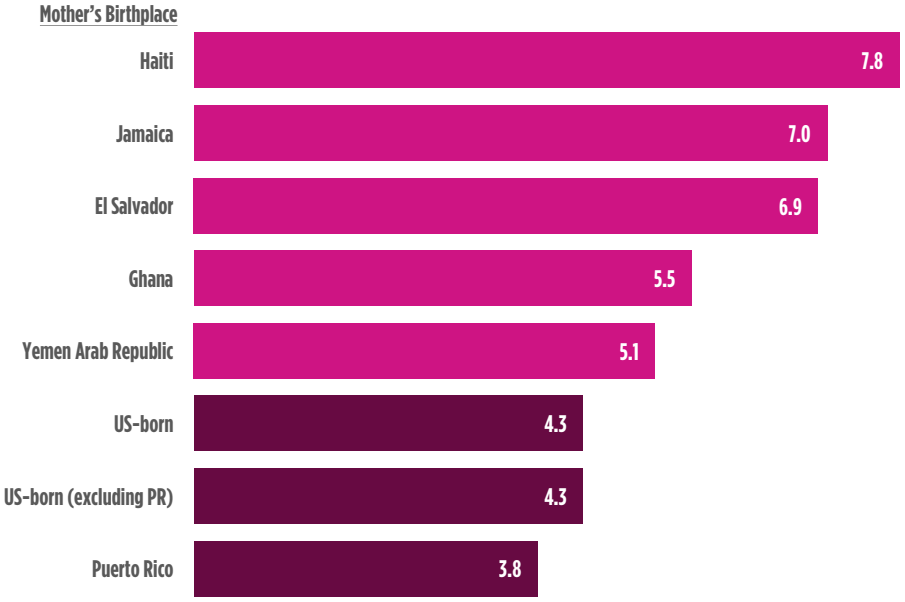


The infant mortality rate in New York City was highest among infants born to the youngest women (<20 years of age). In 2019, the rate among this group was 6.7 infant deaths per 1,000 live births (a 63.4% increase from 2018). In 2019, the infant mortality rate for women in the ≥40 age group was 6.4 infant 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, 2017-2019

From 2017 to 2019, the infant mortality rate among US-born women (excluding Puerto Rico) was 4.3 infant deaths per 1,000 live births. For the same time period, the infant mortality rate for Puerto Rico-born women was 3.8 infant deaths per 1,000 live births.



The infant mortality rate was highest among women born in Haiti at 7.8 infant deaths per 1,000 live births.

Women born in Jamaica had the second highest infant mortality rate at 7.0 infant deaths per 1,000 live births, followed by El Salvador-born women (6.9), Ghana-born women (5.5), and Yemen Arab Republic-born women at 5.1 infant deaths per 1,000 live births.

Figure 6. Neonatal and Post-Neonatal Infant Mortality Rate, New York City, 2010-2019

In 2019, the neonatal (infants who are less than 28 days old) infant mortality rate was 2.8 infant deaths per 1,000 live births, and the post-neonatal (infants 28 days to less than 1 year old) IMR was 1.4 infant deaths per 1,000 live births.

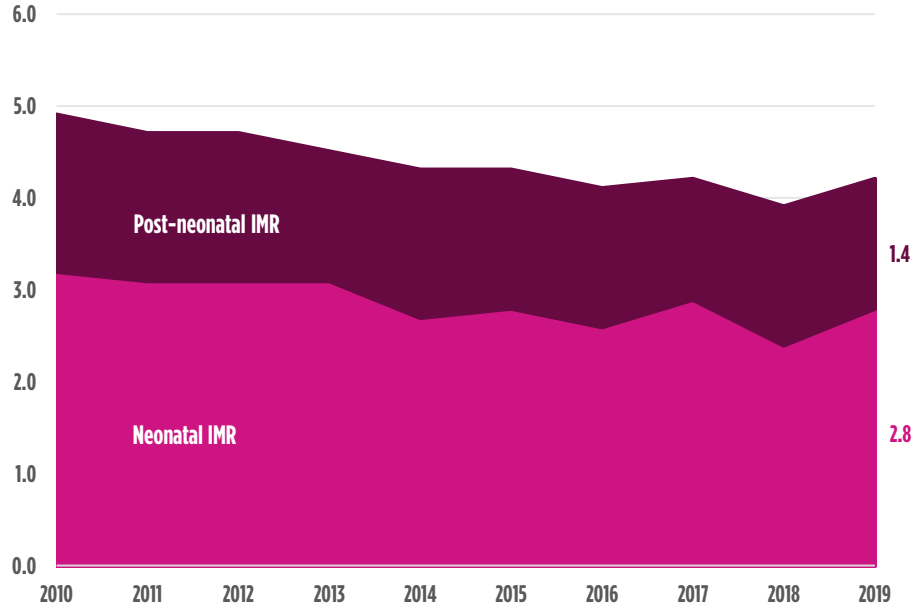
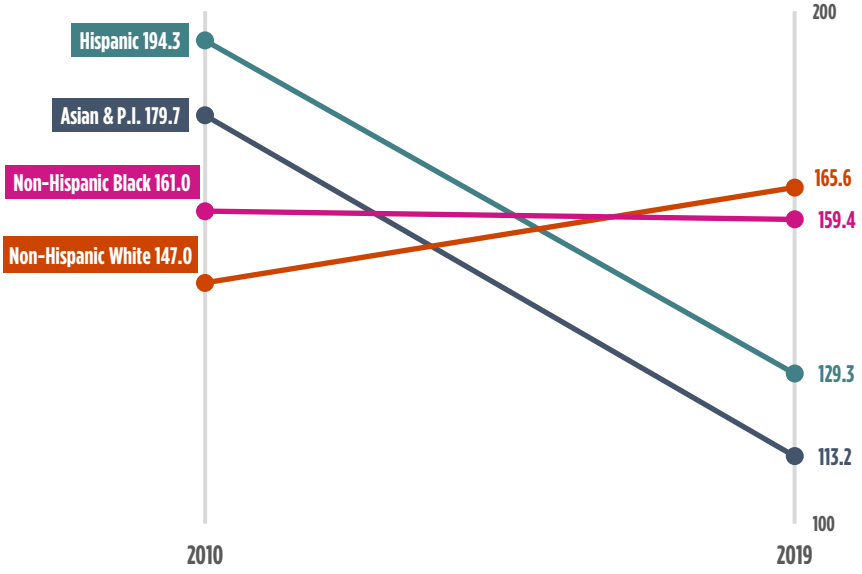


Figure 6 illustrates the share of the IMR that is attributable to neonatal and post-neonatal deaths. The share of the IMR attributable to neonatal deaths increased from 65.3% in 2010 to 66.7% in 2019. The share of the IMR attributable to post-neonatal deaths decreased from 34.7% in 2010 to 33.3% in 2019.

INFANT MORTALITY

Figure 7. Infant Mortality Rates by Mother's Racial/Ethnic Group*, Very Low Birthweight, 2010 and 2019

From 2010 to 2019, infant mortality rates among very low birthweight infants (born under 1,500 grams, VLBW) declined among all ethnic groups except for non-Hispanic Whites, for which the rate increased.



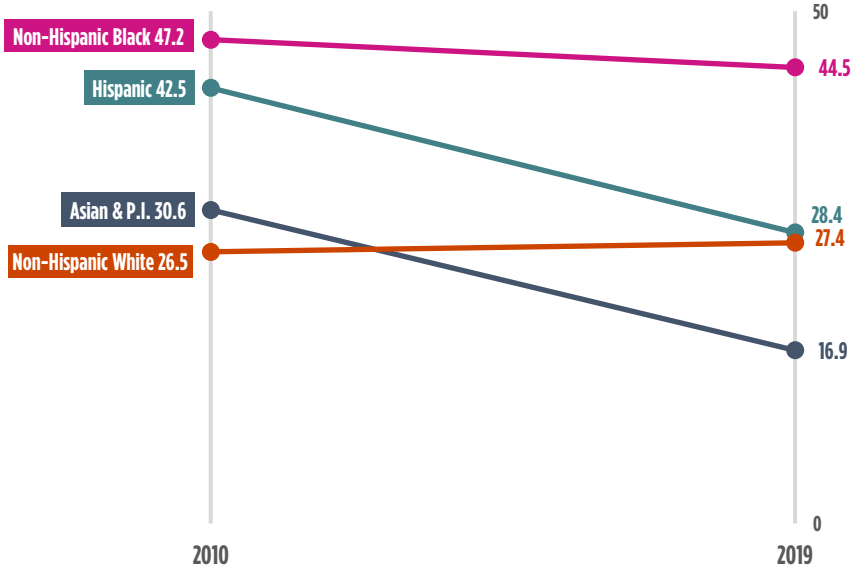
Among VLBW infants in 2019, the infant mortality rate was highest for non-Hispanic Whites at 165.6 deaths per 1,000 live births, followed by non-Hispanic Blacks (159.4), Hispanics (129.3) and Asians and Pacific Islanders (113.2).

In 2019, the infant mortality rates for non-Hispanic Black, Asian and Pacific Islander, and Hispanic VLBW infants were 1.0, 0.7, and 0.8 times the VLBW infant mortality rate for non-Hispanic 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, 2010 and 2019

From 2010 to 2019, infant mortality rates among low birthweight infants (born under 2,500 grams) declined among all ethnic groups except for non-Hispanic Whites, for which the rate increased.



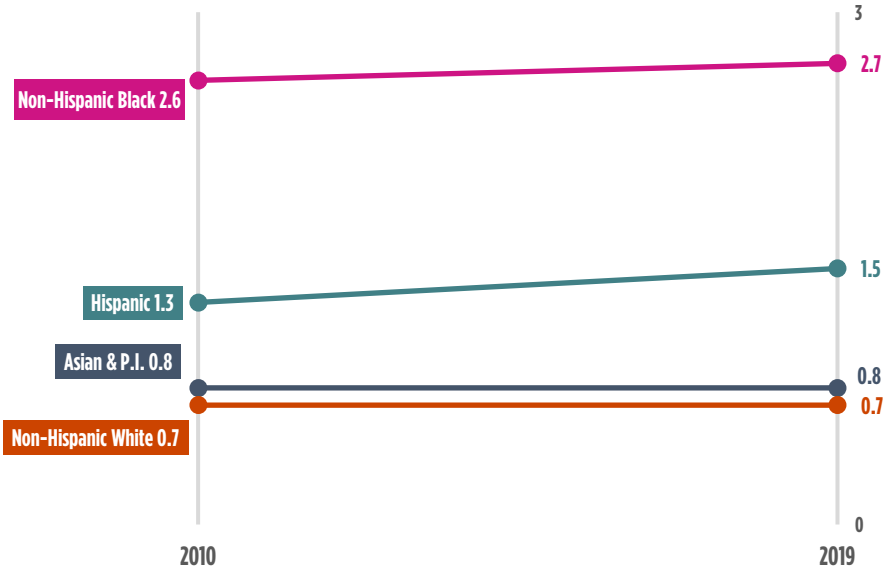
Among low birthweight infants in 2019, the infant mortality rate was highest for non-Hispanic Blacks at 44.5 deaths per 1,000 live births, 1.6 times that of non-Hispanic Whites (27.4).

*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, 2010 and 2019

From 2010 to 2019, infant mortality rates among normal birthweight infants (≥2,500 grams) increased among Hispanics and non-Hispanic Blacks yet remained the same for Asians and Pacific Islanders and non-Hispanic Whites.

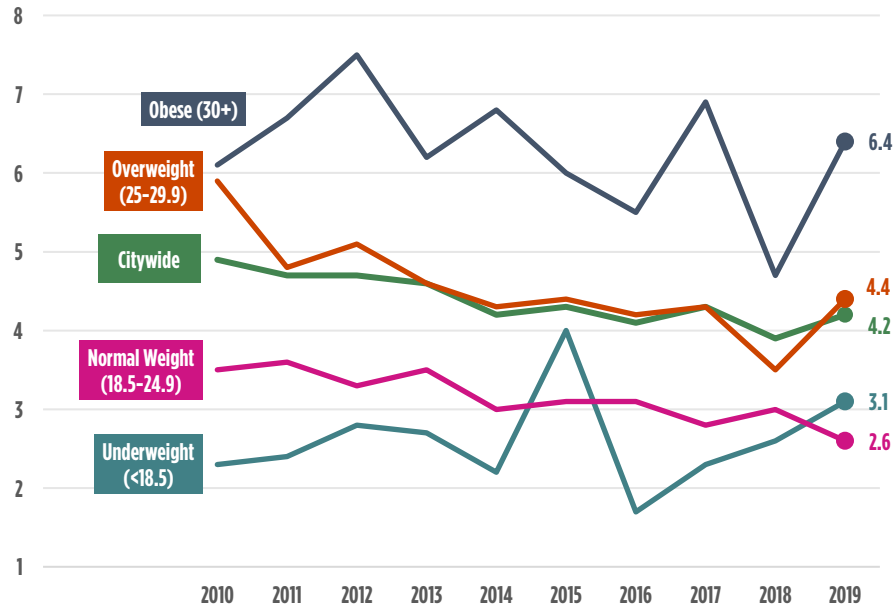


In 2019, Hispanic normal birthweight infants had an infant mortality rate of 1.5 infant deaths per 1,000 live births, 0.8 for Asians and Pacific Islanders, and 0.7 for non-Hispanic Whites.

The infant mortality rate among non-Hispanic Black normal birthweight infants was 2.7 infant deaths per 1,000 live births, or 3.4 times that of Asians and Pacific Islanders, 3.9 times that of non-Hispanic Whites, and 1.8 times that of Hispanics.

Figure 10. Infant Mortality Rates by Mother's Pre-Pregnancy Body Mass Index (BMI)*, 2010-2019

Infant mortality rates increased from 2018 to 2019 among all pre-pregnancy body mass index (BMI) groups except for women with a normal weight BMI, who saw a decline.



Rates fluctuate over time but are consistently higher among women with overweight and obese BMIs. The rate for women with an overweight BMI was 1.7 times the rate for women with a normal weight BMI in 2019; the rate for women with obesity was 2.5 times the rate for women with a normal weight BMI in 2019.

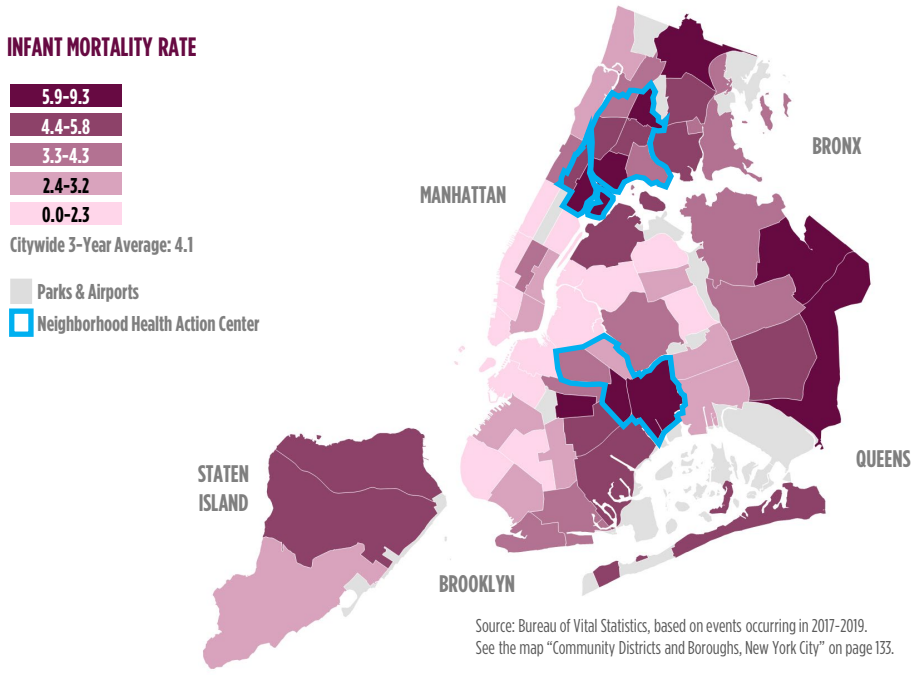
Women are categorized as having an underweight pre-pregnancy BMI if their pre-pregnancy BMI is less than 18.5, a normal weight BMI if their BMI is between 18.5 and 24.9, an overweight BMI if their BMI is between 25.0 and 29.9, and having obesity if their BMI is 30 or above.

*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, 2017-2019*

The three-year average infant mortality rate was highest in Queens Village at 9.3 deaths per 1,000 live births, followed by 8.4 in East Tremont, 7.5 in East New York, 7.3 in Brownsville, and 7.1 in Williamsbridge.



The lowest three-year average infant mortality rate was in Greenwich Village/SOHO with 0.0 deaths per 1,000 live births, followed by 1.2 in the Upper East Side, 1.4 in the Upper West Side, 1.8 in Battery Park/Tribeca and Bay Ridge, and 1.9 in Williamsburg/Greenpoint and Fort Greene/Brooklyn Heights.

*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 2017-2019.
See the map "Community Districts and Boroughs, New York City" on page 133.

MANHATTAN	CD	IMR
East Harlem	MN11	5.9
Central Harlem	MN10	5.7
Manhattanville	MN09	3.5
Midtown Business District	MN05	3.4
Lower East Side	MN03	3.2
Murray Hill	MN06	2.6
Washington Heights	MN12	2.4
Chelsea, Clinton	MN04	2.3
Battery Park, Tribeca	MN01	1.8
Upper West Side	MN07	1.4
Upper East Side	MN08	1.2
Greenwich Village, SOHO	MN02	0.0

BRONX	CD	IMR
East Tremont	BX06	8.4
Williamsbridge	BX12	7.1
Mott Haven	BX01	6.5
Unionport, Soundview	BX09	5.8
Concourse, Highbridge	BX04	5.3
Morrisania	BX03	5.0
Pelham Parkway	BX11	4.7
Hunts Point	BX02	4.3
University, Morris Heights	BX05	4.3
Fordham	BX07	3.8
Throgs Neck	BX10	3.5
Riverdale	BX08	2.9

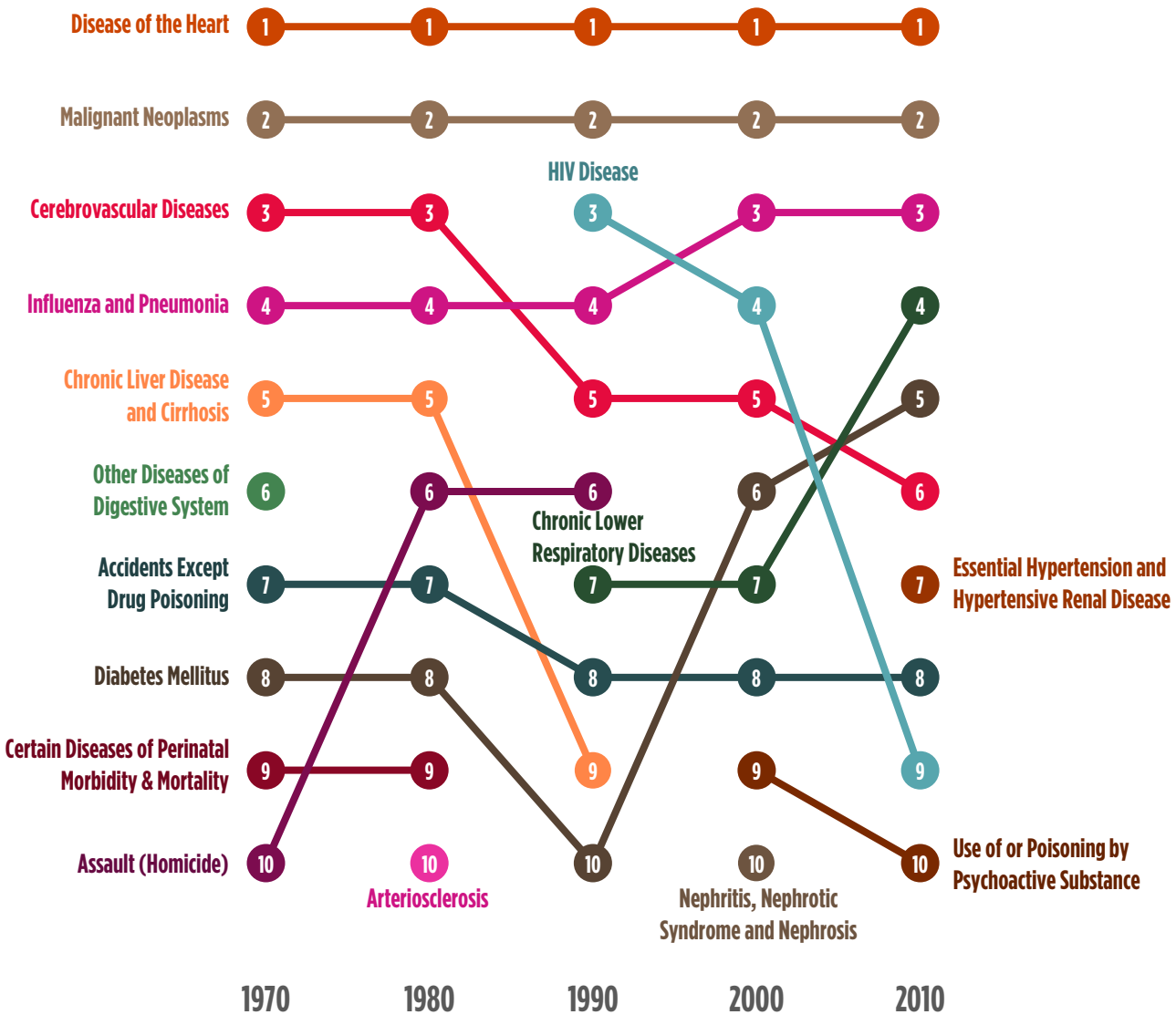
STATEN ISLAND	CD	IMR
Port Richmond	SI01	5.8
Willowbrook, South Beach	SI02	4.8
Tottenville	SI03	2.6

BROOKLYN	CD	IMR
East New York	BK05	7.5
Brownsville	BK16	7.3
Crown Heights South	BK09	6.1
East Flatbush	BK17	5.6
Canarsie	BK18	5.1
Bedford Stuyvesant	BK03	4.2
Coney Island	BK13	4.0
Sheepshead Bay	BK15	3.7
Crown Heights North	BK08	3.6
Flatbush, Midwood	BK14	3.2
Bushwick	BK04	2.7
Bensonhurst	BK11	2.6
Sunset Park	BK07	2.5
Park Slope	BK06	2.1
Borough Park	BK12	2.1
Williamsburg, Greenpoint	BK01	1.9
Fort Greene, Brooklyn Heights	BK02	1.9
Bay Ridge	BK10	1.8

QUEENS	CD	IMR
Queens Village	QN13	9.3
Bayside	QN11	6.4
Jamaica, St. Albans	QN12	5.2
Astoria, Long Island City	QN01	4.8
The Rockaways	QN14	4.7
Fresh Meadows, Briarwood	QN08	3.7
Flushing	QN07	3.5
Ridgewood, Glendale	QN05	3.3
Elmhurst, Corona	QN04	2.9
Woodhaven	QN09	2.8
Howard Beach	QN10	2.7
Jackson Heights	QN03	2.3
Rego Park, Forest Hills	QN06	2.3
Sunnyside, Woodside	QN02	2.1

MORTALITY

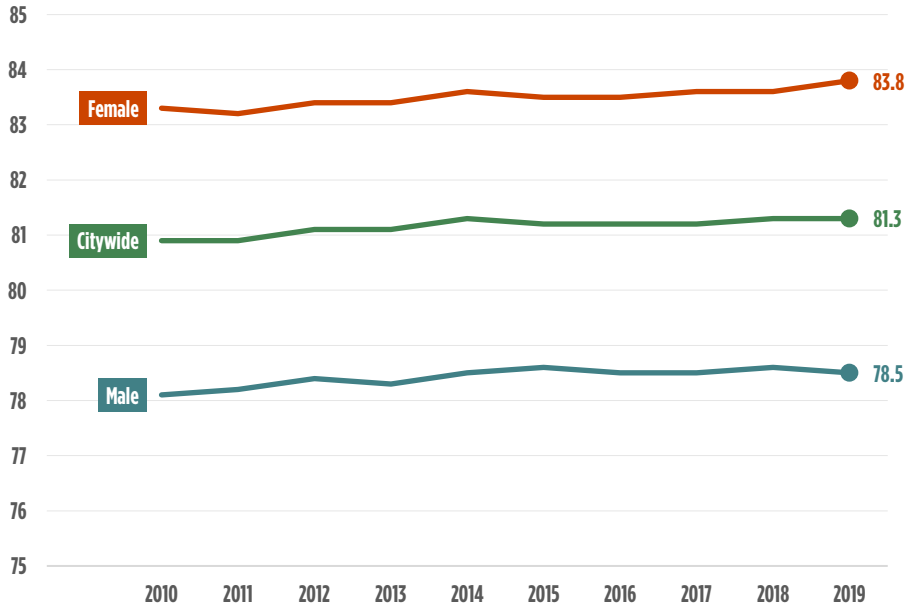
Leading Causes of Death (1970 – 2010), by rank



LIFE EXPECTANCY

Figure 1. Life Expectancy at Birth, Overall and by Sex, New York City, 2010-2019

New York City's life expectancy at birth in 2019 was 81.3 years, remaining the same since 2018, and increasing by 0.4 years since 2010.

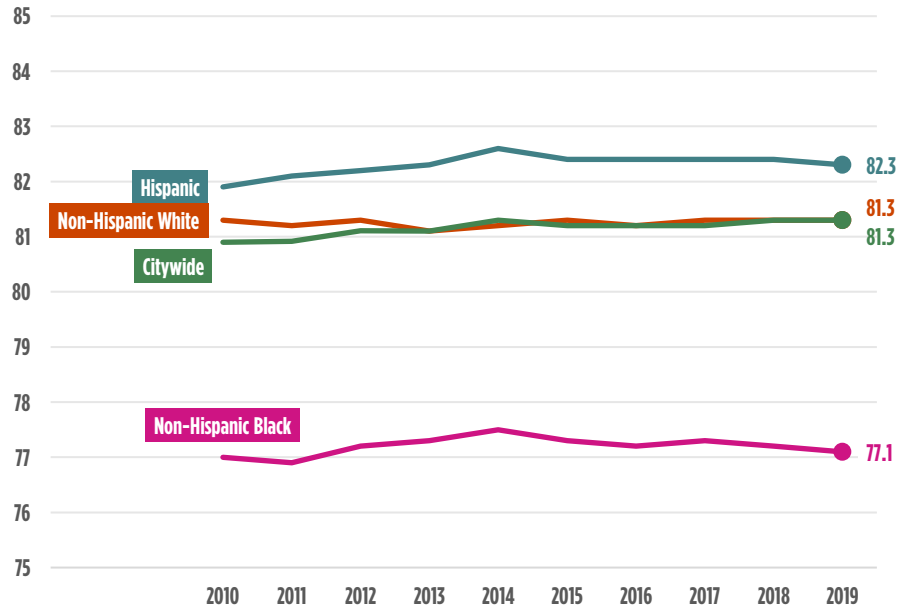


The life expectancy among males was 78.5 years, a 0.1-year decrease since 2018, and a 0.4-year increase since 2010.

The life expectancy among females was 83.8 years, a 0.2-year increase since 2018, and a 0.5-year increase since 2010.

Figure 2. Life Expectancy at Birth by Racial/Ethnic Group, New York City, 2010-2019

The New York City 2019 life expectancy at birth was 82.3 years among Hispanics, 81.3 years among non-Hispanic Whites, and 77.1 years among non-Hispanic Blacks.



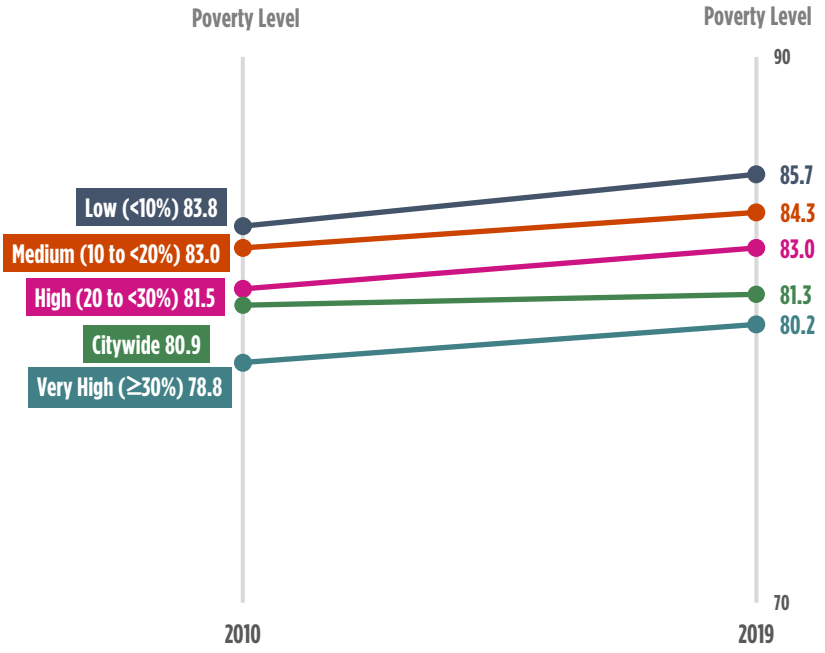
Life expectancy increased among Hispanics and non-Hispanic Blacks from 2010 to 2019 (0.4 years among Hispanics and 0.1 years among non-Hispanic Blacks) yet remained the same for non-Hispanic Whites. From 2018 to 2019, life expectancy decreased by 0.1 years among non-Hispanic Blacks and Hispanics, and remained the same among non-Hispanic Whites.

The life expectancy estimate for Asians and Pacific Islanders is not displayed due to small single-year age population denominators.

LIFE EXPECTANCY

Figure 3. Life Expectancy at Birth by Neighborhood Poverty*, New York City, 2010 and 2019

Life expectancy increased across all categories of neighborhood poverty between 2010 and 2019. For very high poverty areas, life expectancy increased by 1.4 years, compared to 1.9 years for low poverty areas.



The difference in life expectancy between very high and low poverty areas in 2019 was 5.5 years, compared to 5.0 years in 2018.

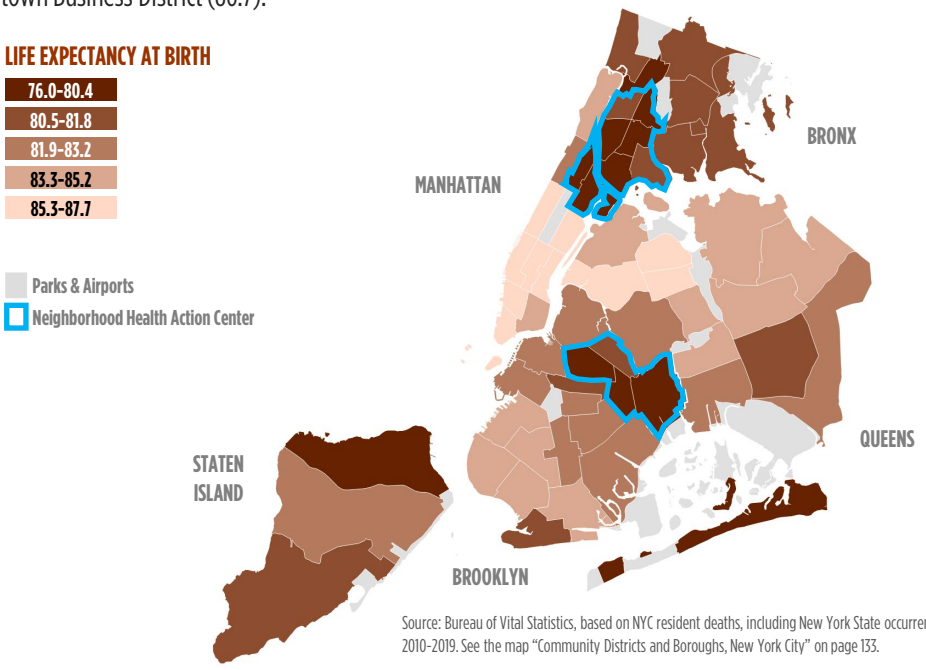
*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

*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, 2010-2019

For 2010-2019, New York City's life expectancy at birth was highest in Greenwich Village/SOHO (87.7), Sunnyside/Woodside (87.4), Murray Hill (87.0), the Upper East Side and Elmhurst/Corona (86.9), and the Midtown Business District (86.7).



For 2010-2019, life expectancy at birth was lowest in Brownsville (76.0), the Rockaways (77.0), Central Harlem (77.2), Morrisania (77.5), and East Tremont (78.2).

Source: Bureau of Vital Statistics, based on NYC resident deaths, including New York State occurrence, 2010-2019. See the map "Community Districts and Boroughs, New York City" on page 133.

MANHATTAN	CD	Life Expectancy
Greenwich Village, SOHO	MN02	87.7
Murray Hill	MN06	87.0
Upper East Side	MN08	86.9
Midtown Business District	MN05	86.7
Battery Park, Tribeca	MN01	86.3
Upper West Side	MN07	85.7
Chelsea, Clinton	MN04	85.5
Washington Heights	MN12	85.0
Lower East Side	MN03	84.1
Manhattanville	MN09	82.6
East Harlem	MN11	78.5
Central Harlem	MN10	77.2

BRONX	CD	Life Expectancy
Throgs Neck	BX10	81.8
Riverdale	BX08	81.8
Williamsbridge	BX12	81.7
Unionport, Soundview	BX09	81.0
University, Morris Heights	BX05	80.6
Pelham Parkway	BX11	80.6
Hunts Point	BX02	80.5
Concourse, Highbridge	BX04	80.4
Fordham	BX07	80.2
Mott Haven	BX01	78.4
East Tremont	BX06	78.2
Morrisania	BX03	77.5

STATEN ISLAND	CD	Life Expectancy
Willowbrook, South Beach	SI02	82.0
Tottenville	SI03	81.4
Port Richmond	SI01	80.0

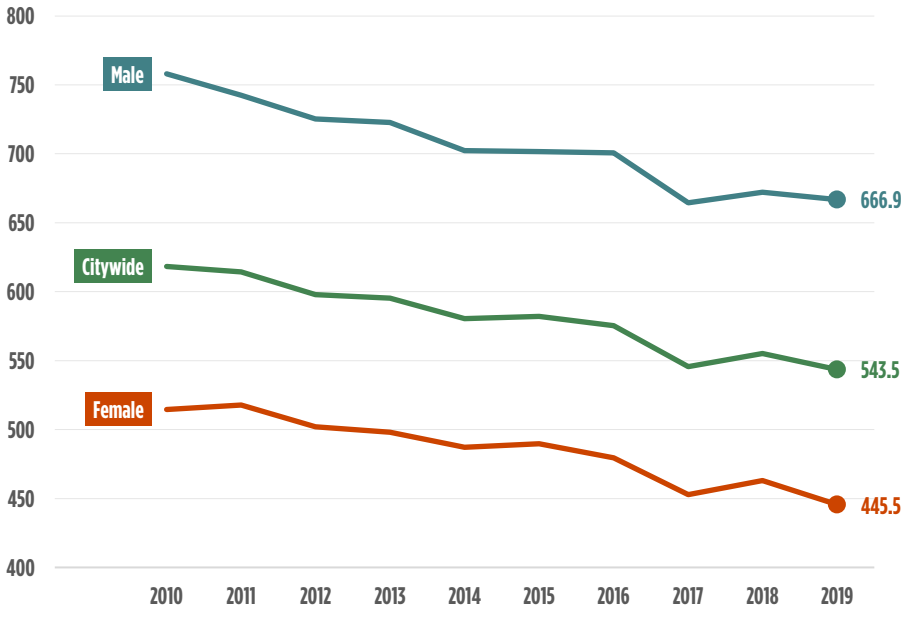
BROOKLYN	CD	Life Expectancy
Borough Park	BK12	84.9
Bensonhurst	BK11	84.7
Bay Ridge	BK10	84.2
Sunset Park	BK07	84.1
Sheepshead Bay	BK15	84.0
Williamsburg, Greenpoint	BK01	83.1
Fort Greene, Brooklyn Heights	BK02	83.0
Park Slope	BK06	82.9
East Flatbush	BK17	82.8
Flatbush, Midwood	BK14	82.7
Crown Heights South	BK09	82.3
Canarsie	BK18	82.1
Bushwick	BK04	81.8
Crown Heights North	BK08	80.9
Coney Island	BK13	80.7
Bedford Stuyvesant	BK03	79.2
East New York	BK05	79.2
Brownsville	BK16	76.0

QUEENS	CD	Life Expectancy
Sunnyside, Woodside	QN02	87.4
Elmhurst, Corona	QN04	86.9
Jackson Heights	QN03	86.1
Rego Park, Forest Hills	QN06	85.2
Flushing	QN07	85.2
Fresh Meadows, Briarwood	QN08	84.9
Bayside	QN11	84.9
Astoria, Long Island City	QN01	84.1
Woodhaven	QN09	83.5
Queens Village	QN13	83.2
Ridgewood, Glendale	QN05	81.9
Howard Beach	QN10	81.9
Jamaica, St. Albans	QN12	81.4
The Rockaways	QN14	77.0

CITYWIDE MORTALITY

Figure 5. Age-Adjusted Death Rates, Overall and by Sex, New York City, 2010-2019

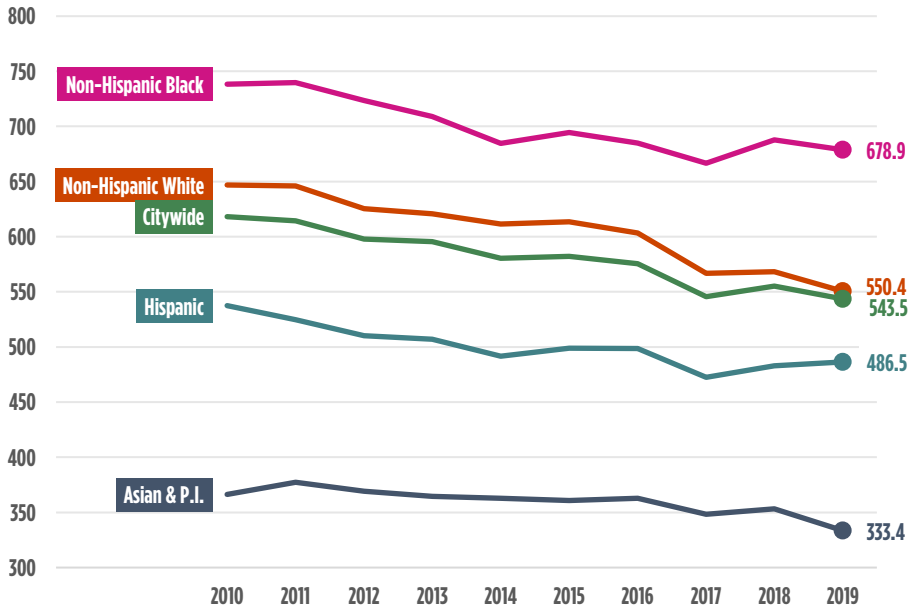
Over the past ten years, the citywide age-adjusted death rate decreased by 12.1%. The age-adjusted death rate decreased over the past year, from 555.1 per 100,000 population in 2018, to 543.5 in 2019.



From 2010 to 2019, age-adjusted death rates decreased by 12.0% among males, and by 13.4% among females.

Figure 6. Age-Adjusted Death Rates by Racial/Ethnic Group, New York City, 2010-2019

Between 2010 and 2019, age-adjusted death rates decreased by 8.0% among non-Hispanic Blacks, by 9.5% among Hispanics, by 14.9% among non-Hispanic Whites, and by 9.0% among Asians and Pacific Islanders.



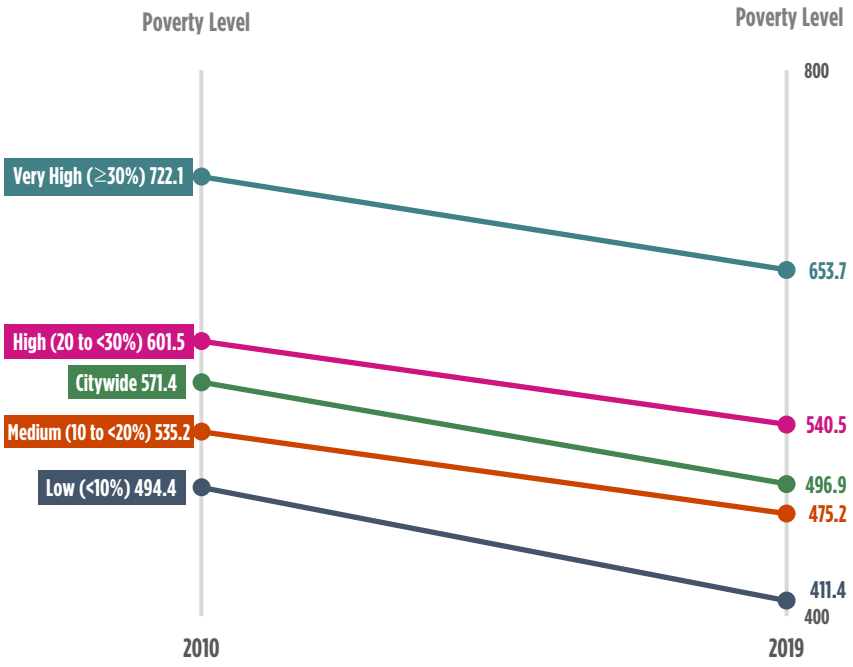
From 2018 to 2019, the age-adjusted death rate increased among Hispanics by 0.7%, yet decreased among non-Hispanic Blacks by 1.3%, among non-Hispanic Whites by 3.1%, and among Asians and Pacific Islanders by 5.6%.

In 2019, the death rate for non-Hispanic Blacks was 23.0% higher than the rate for non-Hispanic Whites. The death rate has continued to be higher among non-Hispanic Blacks compared to non-Hispanic Whites over time, and the gap has slightly increased since 2018 (the death rate for non-Hispanic Blacks was 21.0% higher than the rate for non-Hispanic Whites in 2018).

CITYWIDE MORTALITY

Figure 7. Age-Adjusted Death Rates by Neighborhood Poverty*†, New York City Residents, 2010 and 2019

Since 2010, age-adjusted death rates decreased across all categories of neighborhood poverty. Over that period, the rate decreased by 9.5% in very high poverty areas and by 16.8% in low poverty areas.



The age-adjusted death rate in areas with very high poverty was 1.6 times the rate in areas with low poverty in 2019, an increase in disparity since 2010 (1.5 times the rate in 2010).

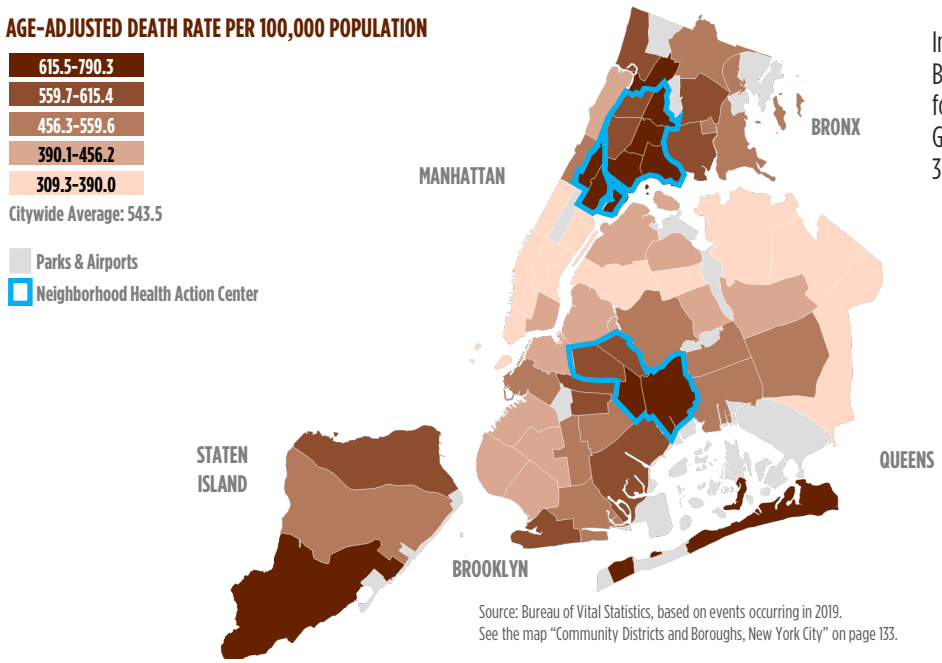
*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

†The citywide estimate is restricted to NYC residents.

NEIGHBORHOOD MORTALITY

Figure 8. Age-Adjusted Death Rates by Community District of Residence, New York City, 2019

In 2019, Central Harlem had the highest age-adjusted death rate, at 790.3 deaths per 100,000 population, followed by 774.4 in Brownsville, 763.1 in the Rockaways, 711.4 in Morrisania, and 705.7 in East New York.



Source: Bureau of Vital Statistics, based on events occurring in 2019.
See the map "Community Districts and Boroughs, New York City" on page 133.

In 2019, age-adjusted death rates were lowest in Bayside at 309.3 deaths per 100,000 population, followed by 313.1 in Sunnyside/Woodside, 329.7 in Greenwich Village/SOHO, 343.3 in Murray Hill, and 352.3 in the Upper East Side.

MANHATTAN	CD	Age-adjusted Death Rates
Central Harlem	MN10	790.3
East Harlem	MN11	695.4
Manhattanville	MN09	532.0
Lower East Side	MN03	446.4
Washington Heights	MN12	435.6
Upper West Side	MN07	390.0
Battery Park, Tribeca	MN01	368.9
Chelsea, Clinton	MN04	365.6
Midtown Business District	MN05	362.6
Upper East Side	MN08	352.3
Murray Hill	MN06	343.3
Greenwich Village, SOHO	MN02	329.7

BRONX	CD	Age-adjusted Death Rates
Morrisania	BX03	711.4
Mott Haven	BX01	695.7
East Tremont	BX06	669.0
Hunts Point	BX02	639.2
Fordham	BX07	616.8
Concourse, Highbridge	BX04	615.4
Pelham Parkway	BX11	600.5
University/Morris Heights	BX05	597.3
Unionport, Soundview	BX09	589.2
Riverdale	BX08	588.3
Williamsbridge	BX12	554.5
Throgs Neck	BX10	540.3

STATEN ISLAND	CD	Age-adjusted Death Rates
Tottenville	SI03	632.5
Port Richmond	SI01	610.2
Willowbrook, South Beach	SI02	559.6

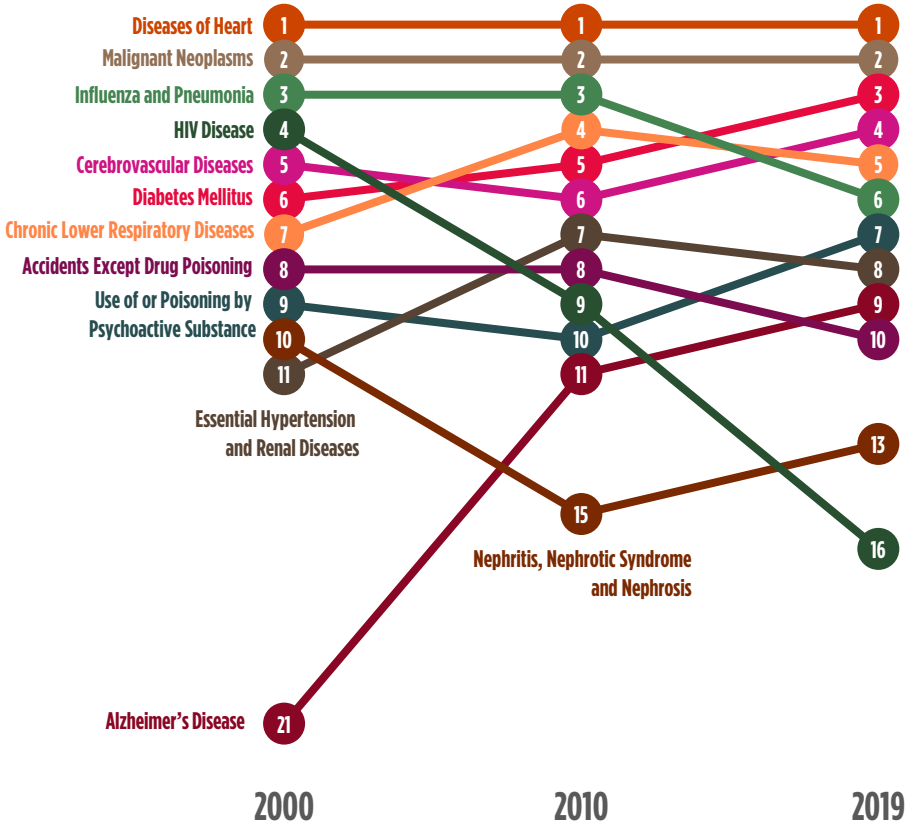
BROOKLYN	CD	Age-adjusted Death Rates
Brownsville	BK16	774.4
East New York	BK05	705.7
Bedford Stuyvesant	BK03	603.7
Coney Island	BK13	594.6
Crown Heights North	BK08	586.0
Crown Heights South	BK09	584.7
Canarsie	BK18	569.4
Bushwick	BK04	561.6
East Flatbush	BK17	552.6
Flatbush, Midwood	BK14	542.0
Park Slope	BK06	465.1
Sheepshead Bay	BK15	462.9
Williamsburg, Greenpoint	BK01	456.2
Bay Ridge	BK10	444.6
Bensonhurst	BK11	434.2
Sunset Park	BK07	432.3
Borough Park	BK12	406.3
Fort Greene, Brooklyn Heights	BK02	396.5

QUEENS	CD	Age-adjusted Death Rates
The Rockaways	QN14	763.1
Howard Beach	QN10	536.0
Ridgewood, Glendale	QN05	534.5
Jamaica, St. Albans	QN12	518.0
Woodhaven	QN09	467.0
Astoria, Long Island City	QN01	419.9
Rego Park, Forest Hills	QN06	409.9
Jackson Heights	QN03	397.7
Fresh Meadows, Briarwood	QN08	397.5
Queens Village	QN13	381.0
Flushing	QN07	372.9
Elmhurst, Corona	QN04	372.8
Sunnyside, Woodside	QN02	313.1
Bayside	QN11	309.3

LEADING CAUSES OF DEATH

Figure 9. Leading Causes of Death, New York City, 2000, 2010, and 2019

Heart disease* and malignant neoplasms (cancer) continue to rank as the top leading causes of death.



HIV disease has dropped from the 4th leading cause in 2000, and the 9th leading cause in 2010, to the 16th in 2019.

Nephritis, nephrotic syndrome and nephrosis dropped from the 10th leading cause in 2000 to the 15th in 2010, then rose to the 13th in 2019.

Alzheimer's disease has risen from the 21st leading cause in 2000, and the 11th leading cause in 2010, to the 9th in 2019. Although this change in ranking reflects the aging of the population, sharp increases in Alzheimer's disease observed since 2010 may be partly attributed to efforts to improve cause of death reporting.

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

† Appendix B Technical Notes: Drug-Related Deaths.

Table 1. Leading Causes of Death by Sex, New York City, 2019*

Heart disease and malignant neoplasms (cancer) are the leading causes of death among 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	Cerebrovascular Diseases
4	Diabetes Mellitus	Chronic Lower Respiratory Diseases
5	Chronic Lower Respiratory Diseases	Diabetes Mellitus
6	Influenza and Pneumonia	Alzheimer's Disease
7	Cerebrovascular Diseases	Influenza and Pneumonia
8	Accidents Except Poisoning by Psychoactive Substance	Essential Hypertension and Hypertensive Renal Disease
9	Essential Hypertension and Hypertensive Renal Disease	Accidents Except Poisoning by Psychoactive Substance
10	Intentional Self-harm (Suicide)	Use of or Poisoning by Psychoactive Substance

Use of or poisoning by psychoactive substance is the 3rd leading cause of death among males but ranks 10th among females.

Cerebrovascular disease is the 3rd leading cause of death among females but ranks 7th among males.

Intentional self-harm (suicide) is a leading cause of death among males only (10th).

Alzheimer's disease is ranked as a leading cause of death among females only (6th).

*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, 2019†

Heart disease and malignant neoplasms (cancer) are the leading causes of death among all racial/ethnic groups.

Rank	Puerto Rican	Hispanic not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic White	Non-Hispanic 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	Diabetes Mellitus	Use of or Poisoning by Psychoactive Substance	Cerebrovascular Diseases	Chronic Lower Respiratory Diseases	Diabetes Mellitus
4	Use of or Poisoning by Psychoactive Substance	Cerebrovascular Diseases	Influenza and Pneumonia	Cerebrovascular Diseases	Cerebrovascular Diseases
5	Chronic Lower Respiratory Diseases	Diabetes Mellitus	Diabetes Mellitus	Influenza and Pneumonia	Essential Hypertension and Hypertensive Renal Disease
6	Cerebrovascular Diseases	Influenza and Pneumonia	Essential Hypertension and Hypertensive Renal Disease	Use of or Poisoning by Psychoactive Substance	Chronic Lower Respiratory Diseases
7	Alzheimer's Disease	Accidents Except Poisoning by Psychoactive Substance	Chronic Lower Respiratory Diseases	Alzheimer's Disease	Influenza and Pneumonia
8	Essential Hypertension and Hypertensive Renal Disease	Chronic Liver Disease and Cirrhosis	Accidents Except Poisoning by Psychoactive Substance	Diabetes Mellitus	Use of or Poisoning by Psychoactive Substance
9	Influenza and Pneumonia	Alzheimer's Disease	Alzheimer's Disease	Accidents Except Poisoning by Psychoactive Substance	Alzheimer's Disease
10	Accidents Except Poisoning by Psychoactive Substance	Chronic Lower Respiratory Diseases	Intentional Self-harm (Suicide)	Essential Hypertension and Hypertensive Renal Disease	Accidents Except Poisoning by Psychoactive Substance

Diabetes mellitus is the 3rd leading cause of death among non-Hispanic Blacks and Puerto Ricans; it ranks 5th among Hispanics not of Puerto Rican ancestry and Asians and Pacific Islanders, and 8th among non-Hispanic Whites.

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 is a leading cause of death among the top 10 leading causes in all racial/ethnic groups. It ranks 5th among Puerto Ricans, 10th among Hispanics not of Puerto Rican ancestry, 7th among Asians and Pacific Islanders, 3rd among non-Hispanic Whites, and 6th among non-Hispanic Blacks.

Intentional self-harm (suicide) is a leading cause of death among Asians and Pacific Islanders only (10th).

Alzheimer's disease is also a leading cause of death among all groups. It ranks 7th among Puerto Ricans and non-Hispanic Whites, and 9th among Hispanics not of Puerto Rican ancestry, Asians and Pacific Islanders, and non-Hispanic Blacks.

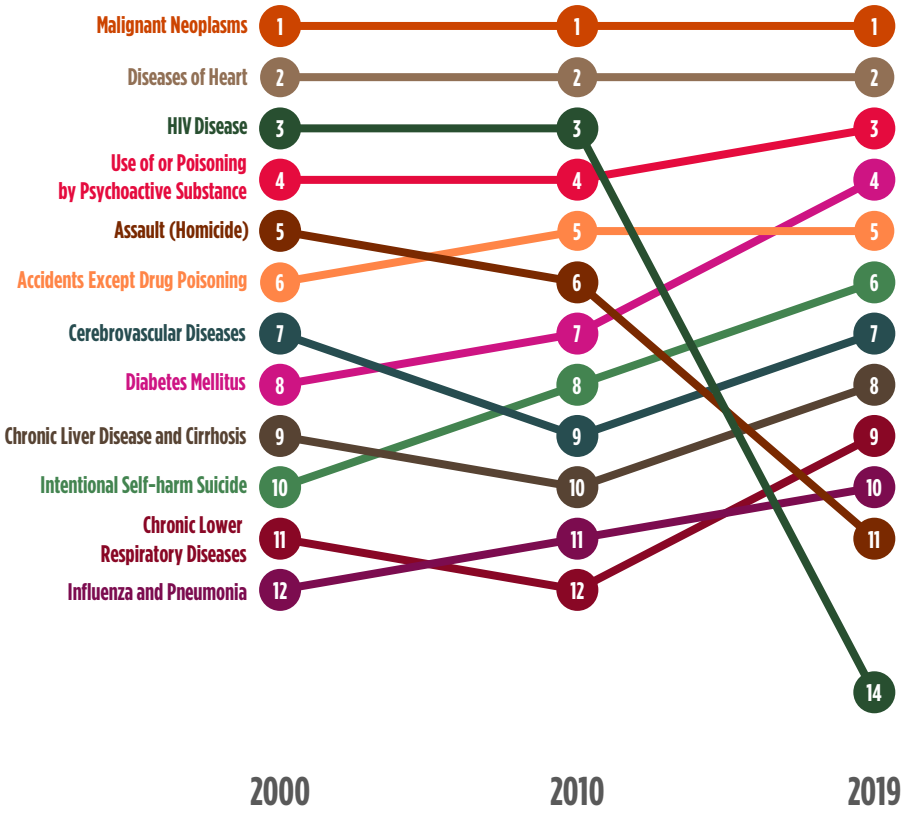
*** Decedents of other or multiple races, or with unknown ethnicities are not shown.**

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

PREMATURE DEATH

Figure 10. Leading Causes of Premature Death (Age <65 Years), New York City, 2000, 2010, and 2019

Malignant neoplasms (cancer) and heart disease* continue to rank as the top leading causes of premature death.



HIV disease has dropped from the 3rd leading cause of premature death in 2000 and 2010, to the 14th in 2019.

Assault (homicide) has also dropped in ranking from the 5th leading cause of premature death in 2000, and the 6th leading cause in 2010, to the 11th in 2019.

Diabetes mellitus has risen from the 8th leading cause of premature death in 2000, and the 7th leading cause in 2010, to the 4th in 2019.

Intentional self-harm (suicide) rose from the 10th leading cause of premature death in 2000, and the 8th leading cause in 2010, to the 6th in 2019

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

† Appendix B Technical Notes: Drug-Related Deaths.

Table 3. Leading Causes of Premature Death (Age <65 Years) by Sex, New York City, 2019*

Malignant neoplasms (cancer) and heart disease are the leading causes of premature death among both males and females, with heart disease being the 1st leading cause for males, and malignant neoplasms being the 1st leading cause for females.

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

Use of or poisoning by psychoactive substance is the 3rd leading cause of premature death among males and females.

Assault (homicide) and mental disorders due to the use of alcohol are leading causes of premature death among males only (7th and 10th, respectively). Chronic lower respiratory diseases and influenza and pneumonia ranked as leading causes among females only (6th and 8th, 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, 2019†

Malignant neoplasms (cancer) and heart disease are the leading causes of premature death among all racial/ethnic groups.

Rank	Puerto Rican	Hispanic not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic White	Non-Hispanic Black
1	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms	Diseases of Heart
2	Diseases of Heart	Diseases of Heart	Diseases of Heart	Diseases of Heart	Malignant Neoplasms
3	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance	Intentional Self-harm (Suicide)	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance
4	Diabetes Mellitus	Accidents Except Poisoning by Psychoactive Substance	Cerebrovascular Diseases	Intentional Self-harm (Suicide)	Diabetes Mellitus
5	HIV Disease	Chronic Liver Disease and Cirrhosis	Diabetes Mellitus	Accidents Except Poisoning by Psychoactive Substance	Assault (Homicide)
6	Chronic Liver Disease and Cirrhosis	Diabetes Mellitus	Accidents Except Poisoning by Psychoactive Substance	Diabetes Mellitus	Chronic Lower Respiratory Diseases
7	Chronic Lower Respiratory Diseases	Intentional Self-harm (Suicide)	Use of or Poisoning by Psychoactive Substance	Chronic Liver Disease and Cirrhosis	Cerebrovascular Diseases
8	Accidents Except Poisoning by Psychoactive Substance	Mental Disorders Due to Use of Alcohol	Certain Conditions Originating in the Perinatal Period	Chronic Lower Respiratory Diseases	Accidents Except Poisoning by Psychoactive Substance
9	Cerebrovascular Diseases	Assault (Homicide)	Influenza and Pneumonia	Mental Disorders Due to Use of Alcohol	HIV Disease
10	Essential Hypertension and Hypertensive Renal Disease	Cerebrovascular Diseases	Viral Hepatitis	Influenza and Pneumonia	Influenza and Pneumonia

Use of or poisoning by psychoactive substance (drug-related deaths) is the 3rd leading cause of premature death among all racial/ethnic groups except Asians and Pacific Islanders (7th).

Intentional self-harm (suicide) is the 3rd leading cause of premature death for Asians and Pacific Islanders; it ranks 4th among non-Hispanic Whites and 7th among Hispanics not of Puerto Rican ancestry. It is not ranked as a leading cause of premature death among Puerto Ricans and non-Hispanic Blacks.

HIV disease is a leading cause of premature death among Puerto Ricans (5th), and non-Hispanic Blacks (9th). It is not ranked as a leading cause of premature death among Asians and Pacific Islanders, Hispanics not of Puerto Rican ancestry, and non-Hispanic Whites.

Assault (homicide) is a leading cause of premature death among non-Hispanic Blacks (5th) and Hispanics not of Puerto Rican ancestry (9th) but is not a leading cause among other racial/ethnic groups.

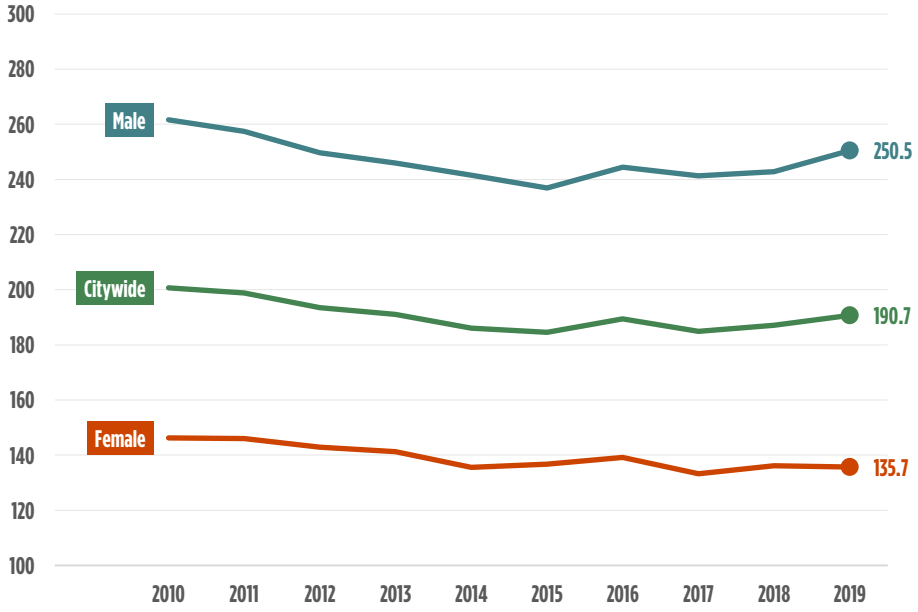
*** Decedents of other or multiple races, or with unknown ethnicities are not shown.**

† Counts and percentages for this table can be found in Table M10.

PREMATURE DEATH

Figure 11. Age-Adjusted Premature Death (Age <65 Years) Rates, Overall and by Sex, New York City, 2010–2019

The age-adjusted premature death rate was 190.7 per 100,000 population in 2019, a 1.9% increase since 2018, and a 5.0% decrease since 2010.

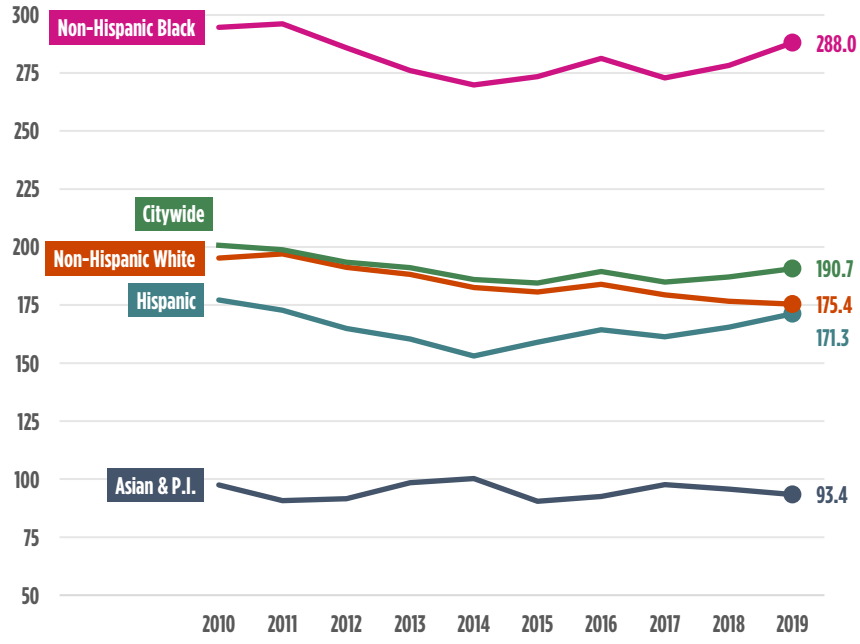


The increase in the premature death rate was partially due to the 1.3% population decrease among those under the age of 65, from 2018 to 2019.

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, 2010–2019

From 2010 to 2019, age-adjusted premature death rates declined by 2.3% among non-Hispanic Blacks, 3.3% among Hispanics, 10.1% among non-Hispanic Whites, and 4.3% among Asians and Pacific Islanders.



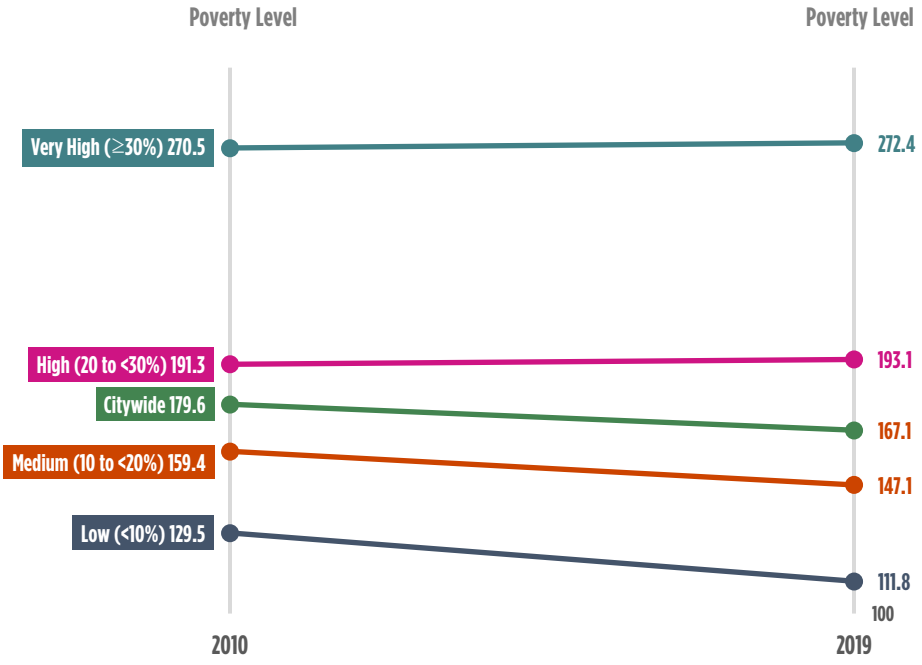
From 2018 to 2019, the age-adjusted premature mortality rate increased among Hispanics by 3.5%, and among non-Hispanic Blacks by 3.5%, yet decreased among non-Hispanic Whites by 0.7%, and among Asians and Pacific Islanders by 2.4%.

Non-Hispanic Blacks had the highest age-adjusted premature death rate (64.2% higher than non-Hispanic Whites) and were the only racial/ethnic group above the citywide average.

PREMATURE DEATH

Figure 13. Age-Adjusted Premature Death (Age <65 Years) Rates by Neighborhood Poverty*†, New York City Residents, 2010 and 2019

Between 2010 and 2019, the age-adjusted premature mortality rate decreased in low and medium poverty neighborhoods yet increased slightly in high and very high poverty neighborhoods.



Over that time, the rate decreased by 13.7% in low poverty neighborhoods and 7.7% in medium poverty neighborhoods, and increased by 0.9% in high poverty neighborhoods, and 0.7% 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 2.4 times that of low poverty neighborhoods in 2019. This disparity has remained the same since 2018.

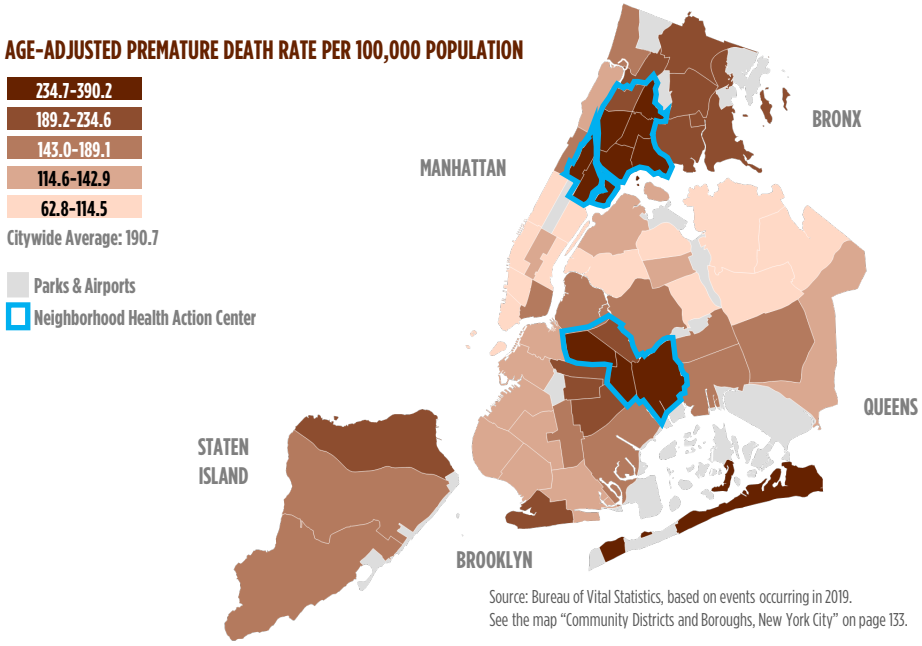
*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

†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, 2019

In 2019, New York City age-adjusted premature death rates were highest in Brownsville at 390.2 deaths per 100,000 population, followed by 320.1 in Mott Haven, 317.0 in East Tremont, 316.9 in Morrisania, and 295.3 in Central Harlem.



Source: Bureau of Vital Statistics, based on events occurring in 2019.
See the map "Community Districts and Boroughs, New York City" on page 133.

In 2019, age-adjusted premature death rates were lowest in Greenwich Village/SOHO at 62.8 deaths per 100,000 population, followed by 70.1 in Battery Park/Tribeca, 74.4 in Bayside, 77.6 in Sunnyside/Woodside, and 78.7 in the Upper East Side.

MANHATTAN	CD	Premature Death Rates
Central Harlem	MN10	295.3
East Harlem	MN11	283.0
Manhattanville	MN09	173.9
Lower East Side	MN03	148.5
Washington Heights	MN12	142.9
Midtown Business District	MN05	136.8
Chelsea, Clinton	MN04	101.2
Upper West Side	MN07	93.6
Murray Hill	MN06	86.1
Upper East Side	MN08	78.7
Battery Park, Tribeca	MN01	70.1
Greenwich Village, SOHO	MN02	62.8

BRONX	CD	Premature Death Rates
Mott Haven	BX01	320.1
East Tremont	BX06	317.0
Morrisania	BX03	316.9
Hunts Point	BX02	275.2
Concourse, Highbridge	BX04	258.7
University, Morris Heights	BX05	234.6
Unionport, Soundview	BX09	230.0
Fordham	BX07	227.4
Pelham Parkway	BX11	226.1
Williamsbridge	BX12	220.7
Throgs Neck	BX10	191.8
Riverdale	BX08	168.1

STATEN ISLAND	CD	Premature Death Rates
Port Richmond	SI01	227.5
Willowbrook, South Beach	SI02	155.4
Tottenville	SI03	152.7

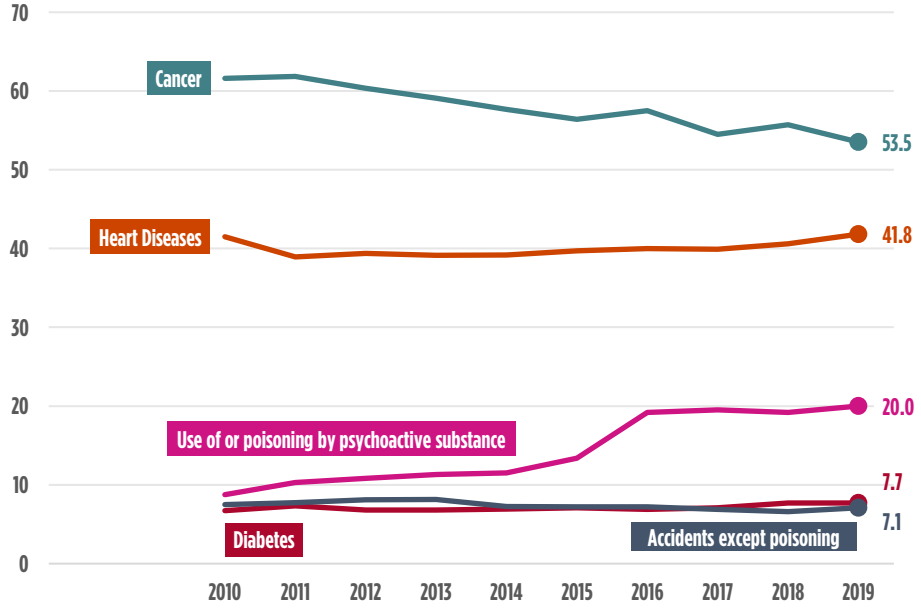
BROOKLYN	CD	Premature Death Rates
Brownsville	BK16	390.2
East New York	BK05	291.7
Bedford Stuyvesant	BK03	265.9
Crown Heights North	BK08	231.2
East Flatbush	BK17	216.2
Crown Heights South	BK09	215.0
Bushwick	BK04	204.5
Coney Island	BK13	194.0
Canarsie	BK18	182.1
Flatbush, Midwood	BK14	182.0
Williamsburg, Greenpoint	BK01	145.0
Park Slope	BK06	138.0
Bensonhurst	BK11	134.1
Sheepshead Bay	BK15	127.5
Fort Greene, Brooklyn Heights	BK02	119.8
Bay Ridge	BK10	117.9
Borough Park	BK12	117.6
Sunset Park	BK07	115.5

QUEENS	CD	Premature Death Rates
The Rockaways	QN14	270.5
Jamaica, St. Albans	QN12	189.1
Howard Beach	QN10	165.9
Ridgewood, Glendale	QN05	158.4
Woodhaven	QN09	155.7
Queens Village	QN13	116.7
Astoria, Long Island City	QN01	116.0
Elmhurst, Corona	QN04	115.1
Fresh Meadows, Briarwood	QN08	114.5
Jackson Heights	QN03	112.1
Flushing	QN07	108.1
Rego Park, Forest Hills	QN06	99.5
Sunnyside, Woodside	QN02	77.6
Bayside	QN11	74.4

PREMATURE DEATH

Figure 15. Leading Causes of Premature Death (Age <65 Years), New York City, 2010–2019

In 2019, cancer and heart disease premature death rates were higher than rates for any other causes (53.5 and 41.8 per 100,000 population, respectively). Over the past ten years, the death rate for cancer declined by 13.1%, while the rate for heart disease increased by 0.7%.



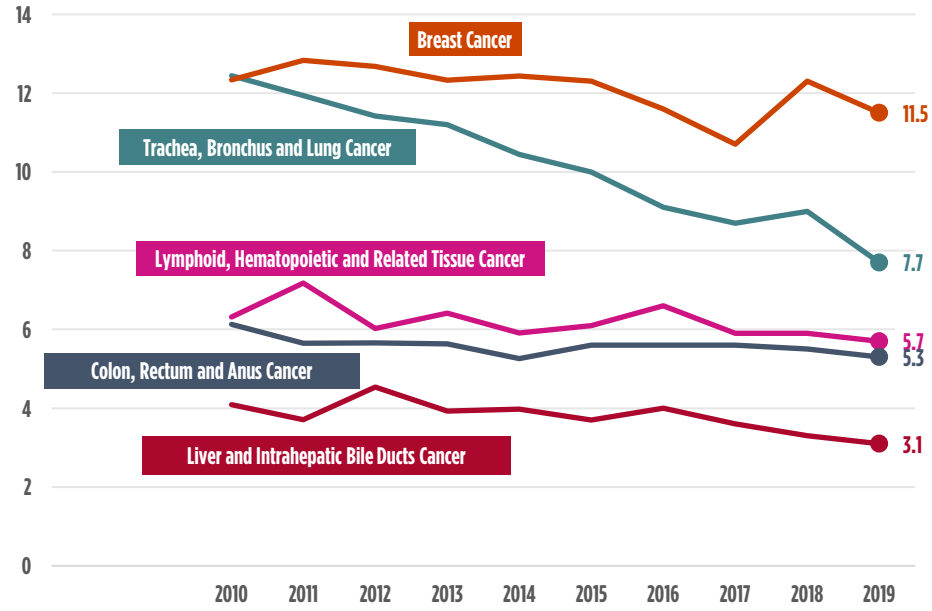
Use of or poisoning by psychoactive substance, diabetes, and accidents except poisoning accounted for the 3rd, 4th and 5th leading causes of premature death, respectively, in 2019.

The rate of premature drug-related deaths (use of or poisoning by psychoactive substance) increased by 4.2% from 2018 to 2019 and increased by 129.9% since 2010.

Other accident deaths (accidents except poisoning) declined from 2010 to 2019 (5.3%) and increased since 2018 (7.6%). Rates for diabetes deaths increased since 2010 (14.9%) and remained the same over the past year.

Figure 16. Leading Causes of Premature Cancer Deaths (Age <65 Years), New York City, 2010–2019

Breast (female) and lung cancers account for the highest cancer death rates in New York City, at 11.5 and 7.7 deaths per 100,000 population, respectively.



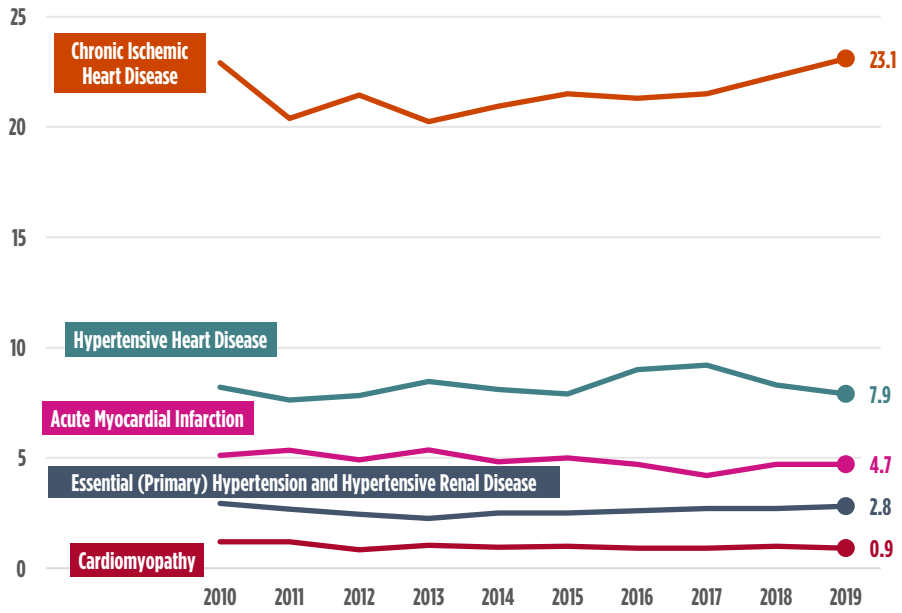
Breast (female) cancer and lung cancer death rates declined by 6.5% and 37.9%, respectively, since 2010. The breast (female) cancer rate declined by 6.5% from 2018 to 2019.

Lymphoid and blood, colon, and liver cancers account for the 3rd, 4th, and 5th highest rates of cancer deaths, at 5.7, 5.3, and 3.1 deaths per 100,000 population, respectively. Death rates for these cancers have declined since 2010.

PREMATURE DEATH

Figure 17. Leading Causes of Premature Heart Disease Deaths (Age <65 Years), New York City, 2010–2019

The crude rate of the leading cause of premature heart disease deaths, chronic ischemic heart disease, has increased by 0.9% since 2010.

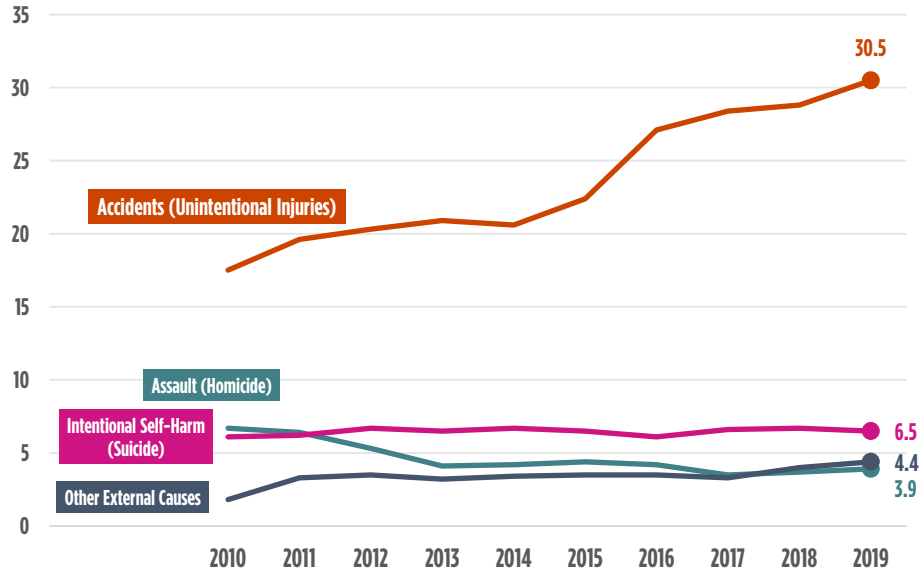


Since 2010, hypertensive heart disease decreased by 3.7%, acute myocardial infarction decreased by 7.8%, essential hypertension and hypertensive renal disease decreased by 3.4%, and cardiomyopathy decreased by 25.0%.

EXTERNAL CAUSES OF DEATH

Figure 18. Crude Death Rates for External Causes of Death*, New York City, 2010–2019

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



In 2019, the accident death rate exceeded the rate from ten years ago (30.5 per 100,000 population in 2019 vs. 17.5 per 100,000 population in 2010), primarily due to the increase of drug-related deaths.

The rate of deaths due to assault (homicide) declined over the past ten years by 41.8%.

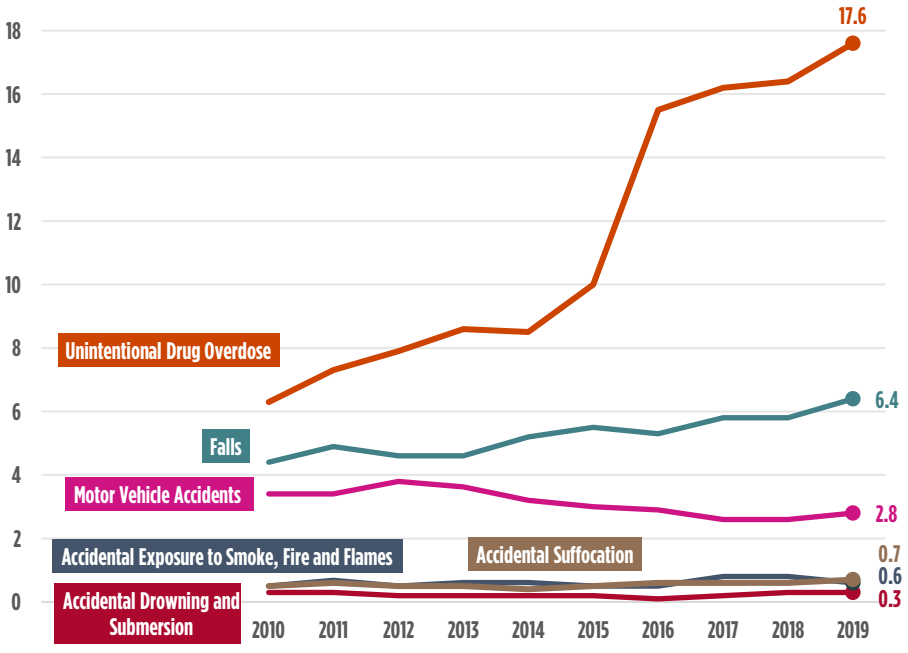
The suicide rate has risen over the past ten years from 6.1 per 100,000 population in 2010, to 6.5 per 100,000 population in 2019. The rate has decreased slightly since 2018.

The death rate due to all other external causes combined was higher in 2019 (4.4 per 100,000 population) than ten years ago (1.8 per 100,000 population)†. The rate has been between 3.2 and 4.4 per 100,000 population since 2011.

* 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, 2010-2019

The unintentional drug overdose* rate increased by 7.3% from 2018 (16.4 per 100,000 population in 2018 vs. 17.6 per 100,000 population in 2019), and by 179.4% from 2010 (6.3 per 100,000 population in 2010).



Unintentional drug overdose exceeds all other causes, with a crude rate in 2019 that was 6.3 times that of motor vehicle accidents, and 2.8 times that of fall-related deaths.

The crude death rate due to motor vehicle accidents declined over the past ten years, from 3.4 deaths per 100,000 population in 2010, to 2.8 per 100,000 population in 2019, a decrease of 17.6%. The falls-related crude death rate has increased by 45.5% since 2010 (6.4 per 100,000 population in 2019 vs. 4.4 per 100,000 population in 2010).

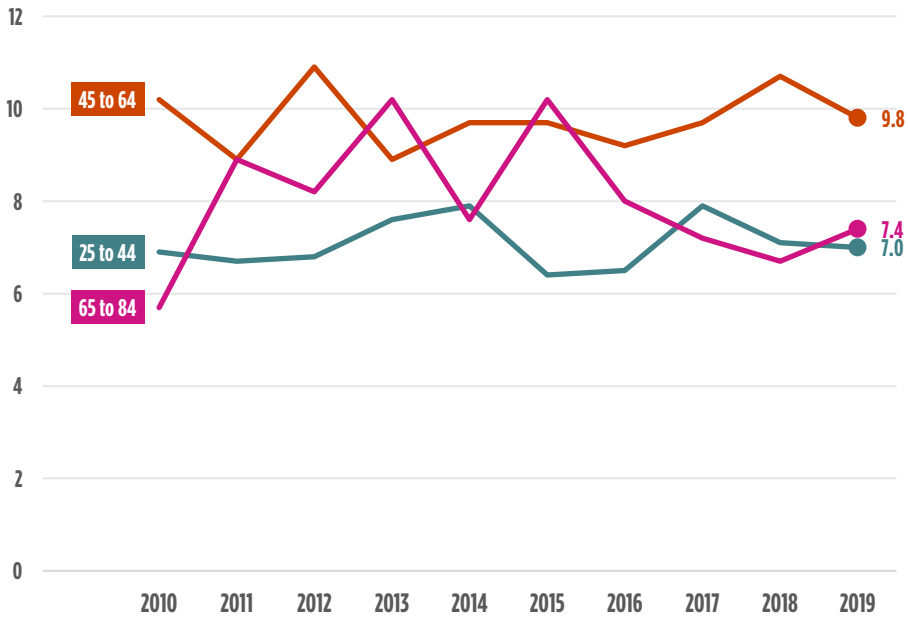
Death rates due to accidental suffocation and accidental exposure to smoke, fire, and flames increased over the past ten years by 40.0% and 20.0%, respectively. The death rate due to accidental drowning and submersion in 2019 was the same as it was in 2010.

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

EXTERNAL CAUSES OF DEATH

Figure 20. Age-Specific Suicide Death Rates, New York City, 2010–2019

Death rates due to suicide were highest among the age group 45 to 64, at 9.8 deaths per 100,000 population in 2019.

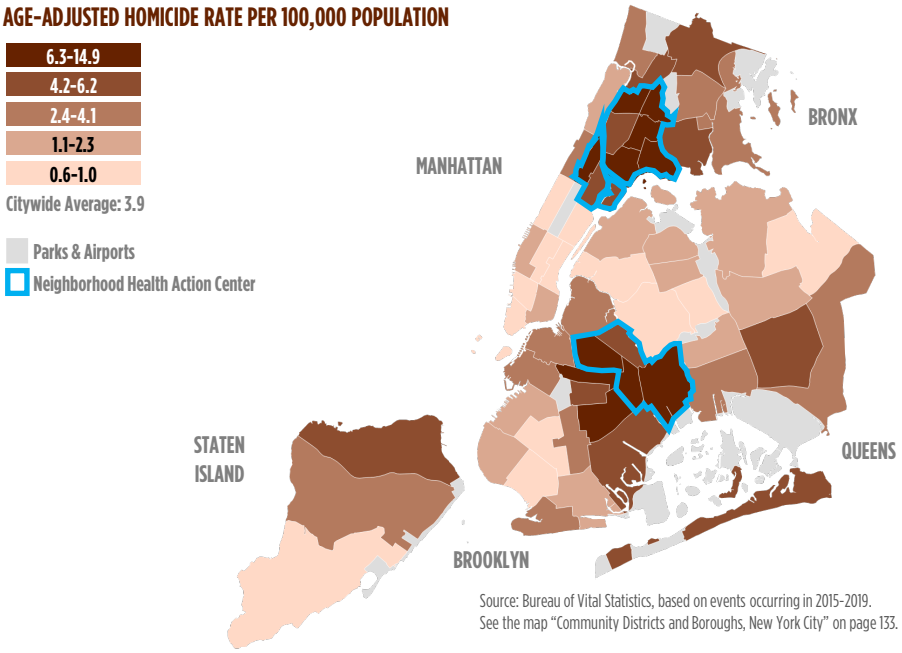


The rate of suicide deaths among adults aged 65-84 was 7.4 per 100,000 population in 2019, 29.8% higher than the rate in 2010. Compared to 2010, rates increased by 1.4% among the age group 25-44, and decreased by 3.9% among the age group 45-64.

EXTERNAL CAUSES OF DEATH

Figure 21. Age-Adjusted Homicide Death Rates (Five-Year Averages) by Community District of Residence, New York City, 2015-2019

The five-year average age-adjusted homicide rate was highest in Brownsville with 14.9 deaths per 100,000 population, followed by Morrisania at 10.7, Bedford Stuyvesant at 9.9, Mott Haven at 9.2, and East Tremont at 9.0.



Source: Bureau of Vital Statistics, based on events occurring in 2015-2019.
See the map "Community Districts and Boroughs, New York City" on page 133.

In ten 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, Bensonhurst, Borough Park, Sunnyside/Woodside, Rego Park/Forest Hills, 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
Central Harlem	MN10	6.3
East Harlem	MN11	5.1
Manhattanville	MN09	3.4
Lower East Side	MN03	2.1
Washington Heights	MN12	2.1
Chelsea, Clinton	MN04	1.2
Upper West Side	MN07	1.0
Battery Park, Tribeca	MN01	0.8
Greenwich Village, SOHO	MN02	0.8
Murray Hill	MN06	0.7
Midtown Business District	MN05	0.6
Upper East Side	MN08	0.6

BRONX	CD	Homicide Death Rates
Morrisania	BX03	10.7
Mott Haven	BX01	9.2
East Tremont	BX06	9.0
University, Morris Heights	BX05	8.6
Hunts Point	BX02	6.4
Concourse, Highbridge	BX04	6.2
Unionport, Soundview	BX09	5.9
Williamsbridge	BX12	5.0
Fordham	BX07	4.5
Pelham Parkway	BX11	3.9
Riverdale	BX08	2.4
Throgs Neck	BX10	2.4

STATEN ISLAND	CD	Homicide Death Rates
Port Richmond	SI01	4.5
Willowbrook, South Beach	SI02	2.8
Tottenville	SI03	1.0

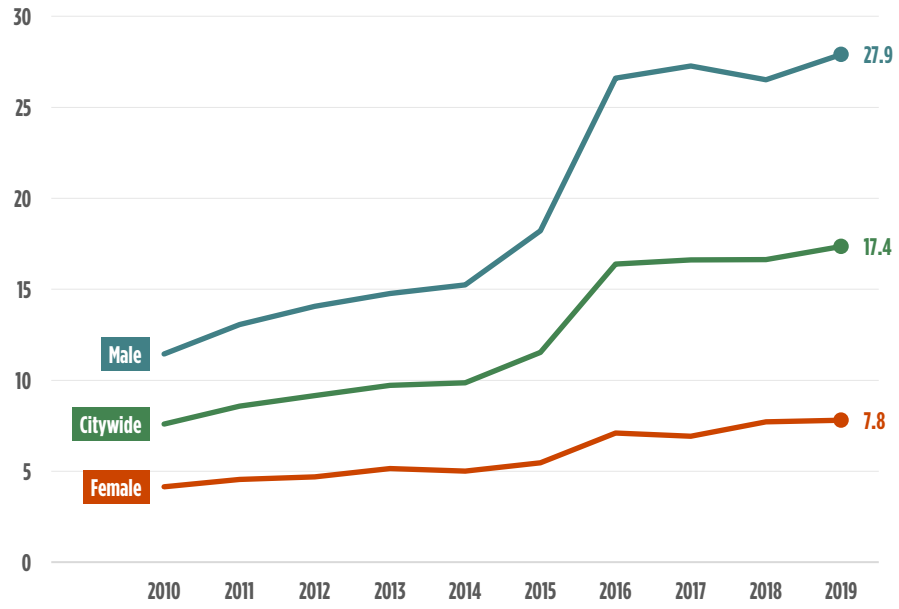
BROOKLYN	CD	Homicide Death Rates
Brownsville	BK16	14.9
Bedford Stuyvesant	BK03	9.9
East New York	BK05	8.8
East Flatbush	BK17	8.6
Crown Heights North	BK08	8.2
Bushwick	BK04	5.6
Canarsie	BK18	5.4
Crown Heights South	BK09	4.9
Coney Island	BK13	4.1
Flatbush, Midwood	BK14	3.8
Fort Greene, Brooklyn Heights	BK02	3.3
Williamsburg, Greenpoint	BK01	2.4
Park Slope	BK06	2.4
Sheepshead Bay	BK15	2.2
Sunset Park	BK07	1.4
Bay Ridge	BK10	1.2
Bensonhurst	BK11	0.7
Borough Park	BK12	0.7

QUEENS	CD	Homicide Death Rates
Jamaica, St. Albans	QN12	6.0
The Rockaways	QN14	5.1
Queens Village	QN13	4.1
Howard Beach	QN10	3.9
Woodhaven	QN09	2.3
Jackson Heights	QN03	2.1
Astoria, Long Island City	QN01	2.0
Fresh Meadows, Briarwood	QN08	2.0
Elmhurst, Corona	QN04	1.6
Flushing	QN07	1.2
Ridgewood, Glendale	QN05	1.0
Sunnyside, Woodside	QN02	0.9
Rego Park, Forest Hills	QN06	0.6
Bayside	QN11	0.6

DRUG-RELATED MORTALITY

Special Section

Figure S1. Age-Adjusted Drug-related Death Rates, Overall and by Sex, New York City, 2010-2019



The 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 account for 94.2% of drug-related deaths. The crude mortality rate for unintentional drug overdose has risen by 7.3% since 2018.

The age-adjusted drug-related death rate was 17.4 per 100,000 population in 2019, a 4.8% increase since 2018, and a 128.9% increase since 2010.

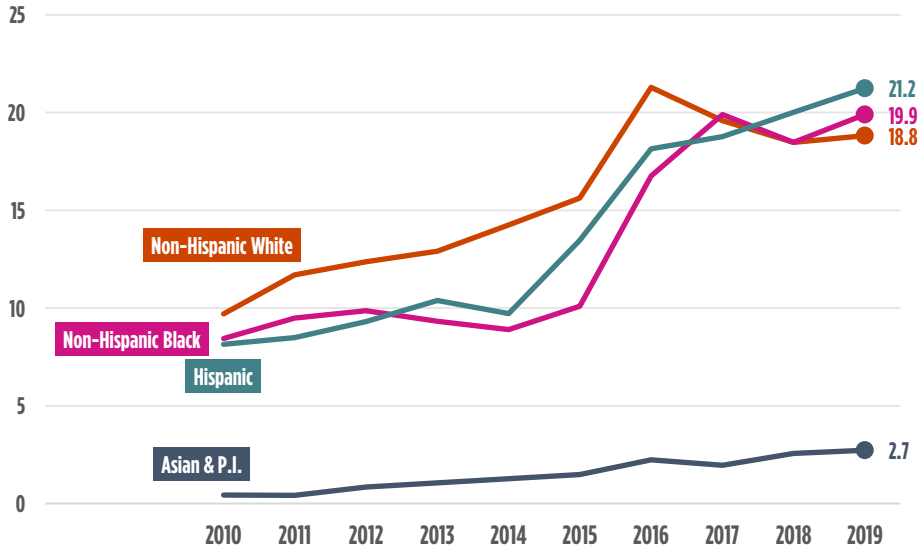
The age-adjusted drug-related death rate for males increased to 27.9 per 100,000 population in 2019, a 5.3% increase since 2018, and a 144.7% increase since 2010. The age-adjusted drug-related death rate for females increased to 7.8 per 100,000 population in 2019, a 1.3% increase since 2018 and an 85.7% increase since 2010.

DRUG-RELATED MORTALITY

Special Section

Figure S2. Age-Adjusted Drug-related Death Rates by Racial/Ethnic Group, New York City, 2010-2019

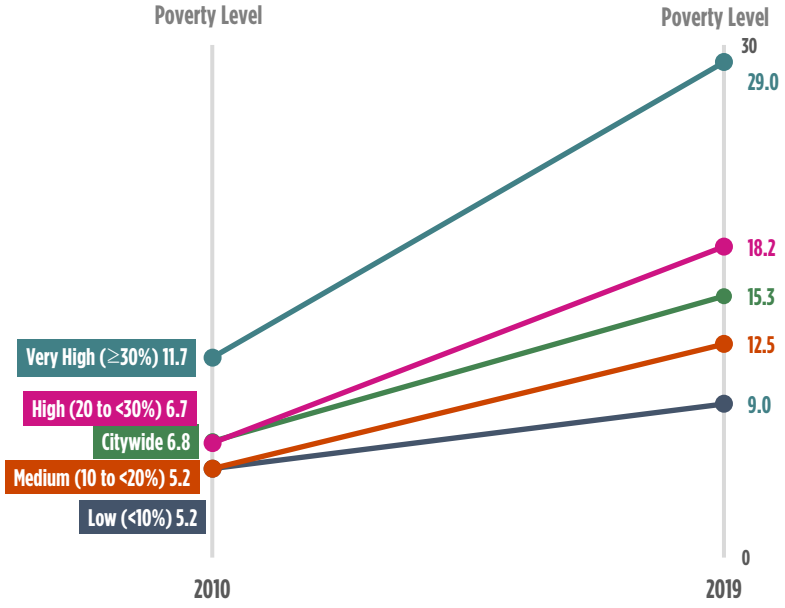
Between 2010 and 2019, age-adjusted drug-related death rates increased by 136.9% among non-Hispanic Blacks, by 161.7% among Hispanics, by 93.8% among non-Hispanic Whites, and by 575.0% among Asians and Pacific Islanders.



In 2019, the drug-related death rate among non-Hispanic Blacks was 1.1 times the rate for non-Hispanic Whites, a change from last year, in which the death rate was the same for non-Hispanic Whites and non-Hispanic Blacks.

Figure S3. Age-Adjusted Drug-related Death Rates by Neighborhood Poverty*†, New York City, 2010 and 2019

Since 2010, age-adjusted drug-related death rates increased across all categories of neighborhood poverty. Over that period, the rate increased by 147.9% in very high poverty areas and by 73.1% in low poverty areas.



The age-adjusted drug-related death rate in areas with very high poverty was 3.2 times the rate in areas with low poverty in 2019. In 2010, the rate in areas with very high poverty was 2.3 times the rate of areas with low poverty.

*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2007-2011 for 2010 data and per ACS 2014-2018 for 2019 data.

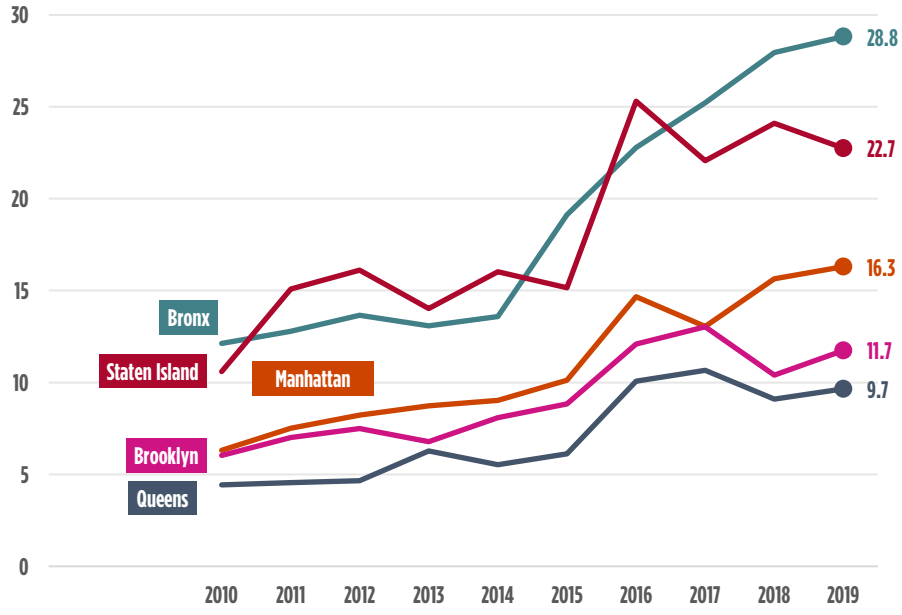
†The citywide estimate is restricted to NYC residents.

DRUG-RELATED MORTALITY

Special Section

Figure S4. Age-Adjusted Drug-related Death Rates by Borough of Residence, New York City, 2010-2019

Since 2010, age-adjusted drug-related death rates have increased across all boroughs.

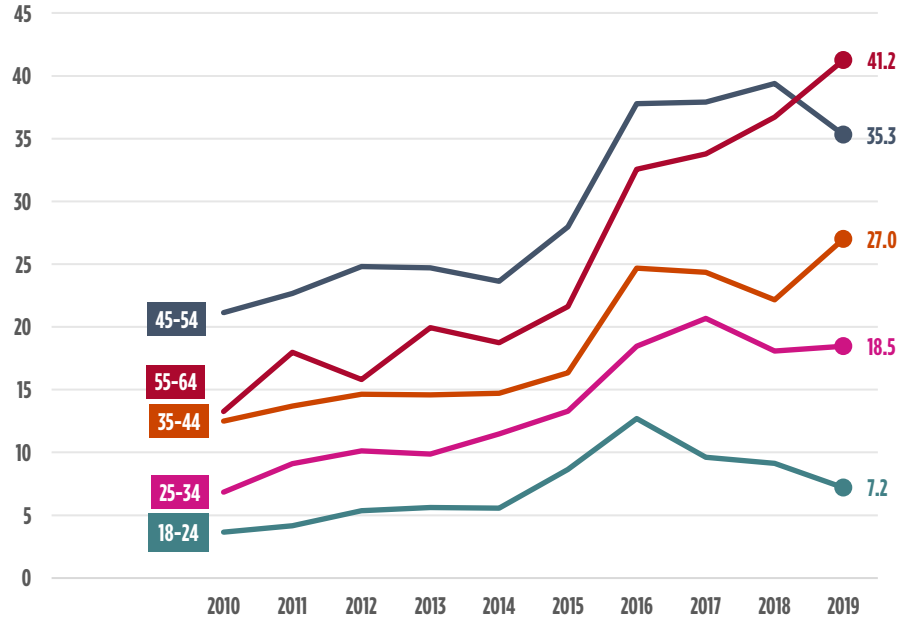


Over that period, age-adjusted drug-related death rates increased by 158.7% in Manhattan, by 138.0% in the Bronx, by 95.0% in Brooklyn, by 120.5% in Queens, and by 114.2% in Staten Island.

From 2010 to 2019, 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, 2010-2019

Between 2010 and 2019, age-adjusted drug-related death rates increased for all age groups.



Over that period, age-adjusted drug-related death rates increased by 94.6% for 18-24 year-olds, by 172.1% for 25-34 year-olds, by 116.0% for 35-44 year-olds, by 67.3% for 45-54 year-olds, and by 209.8% for 55-64 year-olds.

For the first time since 2010, the drug-related death rate for 55-64 year-olds was higher than all other age groups.

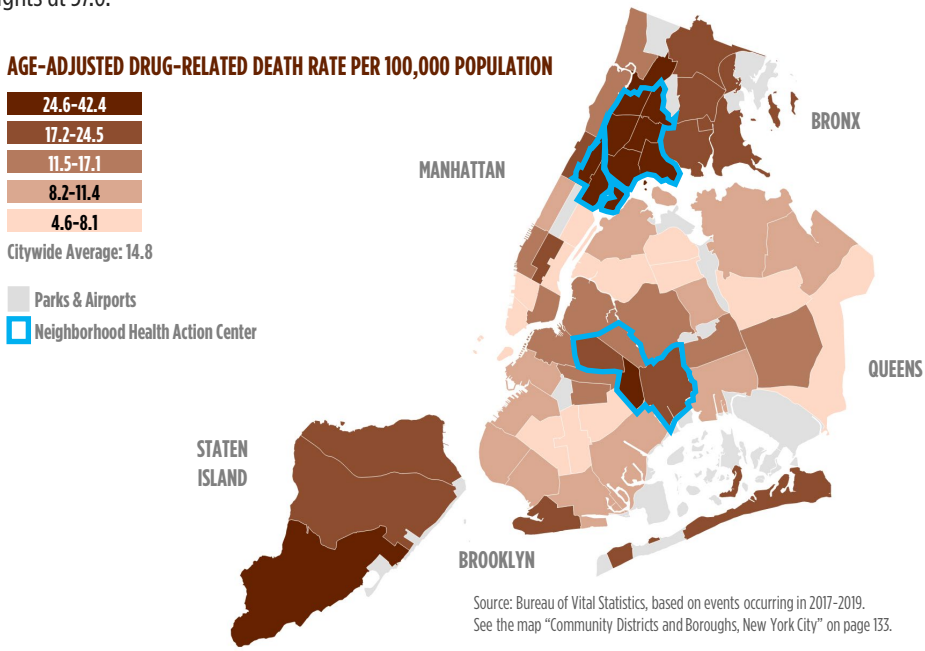
90.4% of drug-related deaths were premature (<65 year olds) in 2019.

DRUG-RELATED MORTALITY

Special Section

Figure S6. Age-Adjusted Drug-related Death Rates (Three-Year Averages) by Community District of Residence, New York City, 2017-2019

The three-year average age-adjusted drug-related death rate was highest in East Tremont with 42.4 deaths per 100,000 population, followed by Mott Haven at 42.0, Morrisania at 40.5, Hunts Point at 39.7, and University/Morris Heights at 37.6.



Source: Bureau of Vital Statistics, based on events occurring in 2017-2019.
See the map "Community Districts and Boroughs, New York City" on page 133.

Age-adjusted drug-related death rates were lowest in Sunnyside/Woodside at 4.6 deaths per 100,000 population, followed by 4.9 in Borough Park, 5.6 in Battery Park/Tribeca, 5.8 in Elmhurst/Corona, and 6.3 in the Upper East Side.

MANHATTAN	CD	Drug-Related Death Rate
East Harlem	MN11	34.2
Central Harlem	MN10	30.3
Manhattanville	MN09	24.5
Midtown Business District	MN05	19.5
Washington Heights	MN12	16.8
Lower East Side	MN03	16.3
Chelsea, Clinton	MN04	13.0
Upper West Side	MN07	9.8
Murray Hill	MN06	8.1
Greenwich Village, SOHO	MN02	6.9
Upper East Side	MN08	6.3
Battery Park, Tribeca	MN01	5.6

BRONX	CD	Drug-Related Death Rate
East Tremont	BX06	42.4
Mott Haven	BX01	42.0
Morrisania	BX03	40.5
Hunts Point	BX02	39.7
University, Morris Heights	BX05	37.6
Fordham	BX07	30.8
Concourse, Highbridge	BX04	27.4
Throgs Neck	BX10	21.6
Unionport, Soundview	BX09	20.3
Williamsbridge	BX12	20.3
Pelham Parkway	BX11	17.3
Riverdale	BX08	15.2

STATEN ISLAND	CD	Drug-Related Death Rate
Tottenville	SI03	25.5
Port Richmond	SI01	23.9
Willowbrook, South Beach	SI02	19.7

BROOKLYN	CD	Drug-Related Death Rate
Brownsville	BK16	26.6
East New York	BK05	19.9
Coney Island	BK13	18.9
Bedford Stuyvesant	BK03	18.1
Bushwick	BK04	17.1
Crown Heights North	BK08	15.6
Crown Heights South	BK09	13.7
Williamsburg, Greenpoint	BK01	13.6
Fort Greene, Brooklyn Heights	BK02	11.7
Park Slope	BK06	10.8
Sheepshead Bay	BK15	9.9
Bay Ridge	BK10	9.6
Bensonhurst	BK11	9.4
Canarsie	BK18	9.2
Sunset Park	BK07	8.2
Flatbush, Midwood	BK14	7.8
East Flatbush	BK17	7.4
Borough Park	BK12	4.9

QUEENS	CD	Drug-Related Death Rate
The Rockaways	QN14	20.7
Ridgewood, Glendale	QN05	15.5
Jamaica, St. Albans	QN12	13.2
Woodhaven	QN09	11.9
Howard Beach	QN10	11.4
Flushing	QN07	10.7
Astoria, Long Island City	QN01	9.2
Bayside	QN11	9.2
Rego Park, Forest Hills	QN06	8.5
Fresh Meadows, Briarwood	QN08	7.9
Jackson Heights	QN03	7.1
Queens Village	QN13	6.4
Elmhurst, Corona	QN04	5.8
Sunnyside, Woodside	QN02	4.6

POPULATION CHARACTERISTICS

Table PC1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2019

		Live Births		Fertility Rates	Total Fertility Rates	Marriages†		Deaths		Infant Mortality	
Year	Population	Total Reported*	Rate per 1,000 Population	Per 1,000 Women Aged 15-44	Per 1,000 Women	Total Reported*	Rate per 1,000 Population	Total Reported*	Rate per 1,000 Population	Deaths Under One Year*	Rate per 1,000 Live Births
1898-1900	3,358,000	119,000	35.4			30,535	9.1	67,503	20.1	16,264	136.7
1901-1905	3,786,000	129,000	34.1			37,988	10.0	71,689	18.9	15,611	121.0
1906-1910	4,473,000	144,000	32.2			44,966	10.1	75,865	17.0	16,609	115.3
1911-1915	5,049,000	140,581	27.8			51,157	10.1	74,666	14.8	14,060	100.0
1916-1920	5,492,000	136,101	24.8			59,081	10.8	80,435	14.6	12,004	88.2
1921-1925	6,175,000	130,462	21.1			62,710	10.2	69,303	11.2	8,985	68.9
1926-1930	6,703,000	125,590	18.7			62,278	9.3	75,395	11.2	7,662	61.0
1931-1935	7,101,000	106,179	15.0			63,273	8.9	75,561	10.6	5,521	52.0
1936-1940	7,363,000	102,418	13.9			69,184	9.4	76,065	10.3	4,079	39.8
1941-1945	7,597,000	126,495	16.7			76,086	10.0	78,382	10.3	3,525	27.9
1946-1950	7,815,000	158,926	20.3			90,914	11.6	79,708	10.2	4,139	26.0
1951-1955	7,867,000	163,526	20.8			71,689	9.1	80,583	10.2	3,986	24.4
1956-1960	7,806,000	166,949	21.4			68,281	8.7	84,290	10.8	4,290	25.7
1961-1965	7,816,200	165,197	21.1			68,318	8.7	87,597	11.2	4,333	26.2
1966-1970	7,872,972	147,294	18.7			71,653	9.1	88,779	11.3	3,477	23.6
1971-1975	7,652,200	115,941	15.1			67,737	8.9	82,113	10.7	2,313	19.9
1976	7,401,000	109,995	14.9			55,829	7.5	77,538	10.5	2,092	19.0
1977	7,318,000	110,486	15.1			52,804	7.2	75,011	10.3	1,971	17.8
1978	7,236,000	106,720	14.7			54,247	7.5	73,081	10.1	1,827	17.1
1979	7,154,000	106,021	14.8			58,532	8.2	72,079	10.1	1,767	16.7
1980	7,071,639	107,066	15.1	63.6		58,637	8.3	76,625	10.8	1,719	16.1
1981	7,097,000	108,547	15.3	63.9		61,775	8.7	73,329	10.3	1,678	15.5
1982	7,122,000	111,487	15.7	65.1		66,619	9.4	73,083	10.3	1,706	15.3
1983	7,147,000	112,353	15.7	65.1		68,164	9.5	73,544	10.3	1,603	14.3
1984	7,172,000	113,332	15.8	65.1		76,336	10.6	74,278	10.4	1,540	13.6
1985	7,197,000	118,542	16.5	67.6		77,897	10.8	74,852	10.4	1,591	13.4
1986	7,222,000	122,108	16.9	69.0		82,199	11.4	75,702	10.5	1,566	12.8
1987	7,247,000	127,386	17.6	71.5		76,194	10.5	76,448	10.5	1,673	13.1
1988	7,272,000	132,226	18.2	73.6		74,137	10.2	77,817	10.7	1,770	13.4
1989	7,297,000	137,673	18.9	76.0		69,758	9.6	75,957	10.4	1,827	13.3
1990	7,322,564	139,630	19.1	76.5		71,301	9.7	73,875	10.1	1,620	11.6
1991	7,388,000	138,148	18.7	75.3		69,314	9.4	72,421	9.8	1,575	11.4
1992	7,455,000	136,002	18.2	73.8		71,947	9.7	71,001	9.5	1,390	10.2
1993	7,522,000	133,583	17.8	72.1		72,490	9.6	73,408	9.8	1,366	10.2
1994	7,590,000	133,662	17.6	71.8		70,438	9.3	71,038	9.4	1,207	9.0
1995	7,658,000	131,009	17.1	70.1		71,507	9.3	70,769	9.2	1,155	8.8
1996	7,727,000	126,901	16.4	67.5		79,361	10.3	66,784	8.6	992	7.8
1997	7,796,000	123,313	15.8	65.3		80,027	10.3	62,506	8.0	881	7.1
1998	7,866,000	124,252	15.8	65.5		53,661	6.8	61,010	7.8	843	6.8
1999	7,937,000	123,739	15.6	64.9		55,075	6.9	62,470	7.9	848	6.9
2000	8,008,278	125,563	15.7	65.5	1918.4	58,291	7.3	60,839	7.6	839	6.7
2001‡	8,060,000	124,023	15.4	64.5	1884.2	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	1866.4	65,490	8.1	59,651	7.4	742	6.0
2003‡	8,068,000	124,345	15.4	65.1	1890.5	61,101	7.6	59,213	7.3	807	6.5
2004‡	8,043,000	124,099	15.4	65.3	1898.3	62,057	7.7	57,466	7.1	760	6.1
2005‡	8,013,000	122,725	15.3	65.0	1890.7	66,348	8.3	57,068	7.1	732	6.0
2006‡	7,994,000	125,506	15.7	66.6	1935.2	65,619	8.2	55,391	6.9	740	5.9
2007	8,014,000	128,961	16.1	68.4	1976.3	66,483	8.3	54,073	6.7	697	5.4
2008	8,068,000	127,680	15.8	67.3	1937.2	66,670	8.3	54,193	6.7	698	5.5
2009	8,132,000	126,774	15.6	66.5	1902.0	65,542	8.1	52,881	6.5	668	5.3
2010	8,175,133	124,791	15.3	65.3	1863.2	67,051	8.2	52,575	6.4	609	4.9
2011	8,244,910	123,029	14.9	64.5	1835.1	71,401	8.7	52,789	6.4	577	4.7
2012	8,336,697	123,231	14.8	64.1	1824.5	74,362	8.9	52,455	6.3	583	4.7
2013	8,405,837	120,457	14.3	62.6	1768.7	77,678	9.2	53,409	6.4	551	4.6
2014	8,491,079	122,084	14.4	62.9	1767.2	78,409	9.2	53,034	6.2	516	4.2
2015	8,550,405	121,673	14.2	62.7	1753.9	77,777	9.1	54,120	6.3	526	4.3
2016	8,537,673	120,367	14.1	62.5	1738.6	84,073	9.8	54,280	6.4	491	4.1
2017	8,622,698	117,013	13.6	60.7	1688.8	82,866	9.6	54,319	6.3	500	4.3
2018	8,398,748	114,296	13.6	61.7	1714.2	76,688	9.1	55,081	6.6	446	3.9
2019	8,336,817	110,442	13.2	60.4	1678.5	73,827	8.9	54,559	6.5	464	4.2

*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 Origin, and Sex, New York City, 2019

Age in Years	All			Hispanic			Non-Hispanic White			Non-Hispanic 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	8,336,817	3,978,439	4,358,378	2,423,590	1,171,758	1,251,832	2,681,976	1,310,690	1,371,286	1,825,848	828,724	997,124	1,233,642	585,961	647,681	171,761	81,306	90,455
Under 5	523,718	268,169	255,549	175,607	89,504	86,103	152,540	78,472	74,068	106,526	53,986	52,540	67,072	35,000	32,072	21,973	11,207	10,766
5-9	484,313	247,453	236,860	174,448	88,745	85,703	126,956	65,230	61,726	101,946	51,708	50,238	62,143	32,238	29,905	18,820	9,532	9,288
10-14	443,786	226,531	217,255	158,368	80,896	77,472	114,989	58,831	56,158	102,773	51,817	50,956	54,717	28,434	26,283	12,939	6,553	6,386
15-19	439,764	221,600	218,164	156,765	79,815	76,950	111,064	55,914	55,150	104,140	51,748	52,392	56,692	28,637	28,055	11,103	5,486	5,617
20-24	517,212	248,489	268,723	170,764	84,582	86,182	142,475	66,848	75,627	117,702	56,301	61,401	73,883	35,016	38,867	12,388	5,742	6,646
25-29	756,459	367,115	389,344	211,903	107,133	104,770	257,057	123,371	133,686	156,319	75,762	80,557	114,409	53,000	61,409	16,771	7,849	8,922
30-34	727,240	359,519	367,721	198,977	102,217	96,760	260,235	129,811	130,424	139,216	67,085	72,131	114,762	53,911	60,851	14,050	6,495	7,555
35-39	608,323	298,040	310,283	176,694	89,021	87,673	202,187	103,261	98,926	119,998	55,295	64,703	98,616	45,496	53,120	10,828	4,967	5,861
40-44	528,583	254,931	273,652	158,268	77,660	80,608	163,967	84,372	79,595	110,699	49,301	61,398	86,932	39,746	47,186	8,717	3,852	4,865
45-49	514,736	246,585	268,151	151,980	73,594	78,386	155,359	80,014	75,345	113,144	49,571	63,573	86,018	39,647	46,371	8,235	3,759	4,476
50-54	513,351	244,882	268,469	148,475	70,052	78,423	151,050	78,226	72,824	124,537	54,822	69,715	81,448	38,172	43,276	7,841	3,610	4,231
55-59	519,787	245,006	274,781	139,198	63,940	75,258	158,613	80,885	77,728	130,969	57,294	73,675	83,327	39,367	43,960	7,680	3,520	4,160
60-64	479,140	220,888	258,252	117,793	52,347	65,446	160,102	78,137	81,965	117,072	50,231	66,841	77,442	37,109	40,333	6,731	3,064	3,667
65-69	399,064	178,518	220,546	92,221	39,304	52,917	149,431	69,976	79,455	90,467	37,520	52,947	62,201	29,620	32,581	4,744	2,098	2,646
70-74	319,731	137,166	182,565	71,403	29,291	42,112	131,134	59,191	71,943	69,325	26,558	42,767	44,344	20,636	23,708	3,525	1,490	2,035
75-79	223,606	90,921	132,685	51,209	19,884	31,325	90,809	39,134	51,675	50,970	18,202	32,768	28,271	12,698	15,573	2,347	1,003	1,344
80-84	159,066	62,109	96,957	35,473	13,027	22,446	67,479	27,959	39,520	34,223	11,553	22,670	20,411	9,002	11,409	1,480	568	912
85 & Over	178,938	60,517	118,421	34,044	10,746	23,298	86,529	31,058	55,471	35,822	9,970	25,852	20,954	8,232	12,722	1,589	511	1,078

Data Source: US Census Bureau, population estimates, 2019 vintage.

Table PC3. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2019

Months	Number				Average Per Day			
	Marriages*	Births	Deaths	Infant Deaths	Marriages	Births	Deaths	Infant Deaths
January	4,889	9,326	5,062	49	158	301	163	1.6
February	5,302	8,208	4,498	37	189	293	161	1.3
March	3,427	8,864	4,758	34	111	286	153	1.1
April	6,435	8,823	4,332	37	215	294	144	1.2
May	6,955	9,250	4,457	40	224	298	144	1.3
June	6,564	9,053	4,258	34	219	302	142	1.1
July	7,443	9,669	4,483	44	240	312	145	1.4
August	8,053	9,946	4,219	38	260	321	136	1.2
September	7,064	9,320	4,207	35	235	311	140	1.2
October	6,607	9,542	4,659	28	213	308	150	0.9
November	5,262	9,026	4,552	45	175	301	152	1.5
December	5,826	9,415	5,074	43	188	304	164	1.4
Total	73,827	110,442	54,559	464	202	303	149	1.3

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

PREGNANCY OUTCOMES

Table PO1. Live Births by Borough of Birth* and Institution, New York City, 2019

Borough and Institution	Births
Manhattan	
Bellevue Hospital Center	1,289
Harlem Hospital Center	790
Lenox Hill Hospital	4,370
Metropolitan Hospital Center	946
Mount Sinai Beth Israel	1
Mount Sinai Hospital	8,061
Mount Sinai St. Luke's	1
Mount Sinai West	5,530
New York-Presbyterian/Columbia University Medical Center	4,670
New York Weill Cornell Medical Center	5,431
New York-Presbyterian/Lower Manhattan Hospital	2,937
New York-Presbyterian/The Allen Hospital	2,394
NYU Langone - Tisch Hospital	5,928
Home†	98
Places other than a hospital or home‡	36
Bronx	
Bronxcare Health Systems	1,859
Jack D. Weiler Hospital	3,587
Jacobi Medical Center	1,782
Lincoln Medical and Mental Health Center	1,720
Montefiore Medical Center - Wakefield Division	1,608
Montefiore Medical Center - Henry & Lucy Moses Division	2
North Central Bronx Hospital	1,084
St. Barnabas Hospital	846
Home†	101
Places other than a hospital or home‡	18
Brooklyn	
Brookdale University Hospital and Medical Center	790
Brooklyn Birthing Center	150
Brooklyn Hospital Center	2,126
Coney Island Hospital	1,104
Interfaith Medical Center	2
Kings County Hospital Center	1,538
NYU Langone Hospital-Brooklyn	4,183
Maimonides Medical Center	7,816
New York-Presbyterian/Brooklyn Methodist Hospital	5,060
The Birthing Center of NY§	11
University Hospital of Brooklyn	1,172
Woodhull Medical and Mental Health Center	1,450
Wyckoff Heights Medical Center	1,206
Home†	399
Places other than a hospital or home‡	59
Queens	
Elmhurst Hospital Center	2,233
Flushing Hospital Medical Center	2,558
Jamaica Hospital Medical Center	1,911
Long Island Jewish Forest Hills	2,227
Long Island Jewish Medical Center	7,927
New York-Presbyterian/Queens Medical Center	3,672
Queens Hospital Center	1,370
St. John's Episcopal Hospital South Shore	573
Home†	117
Places other than a hospital or home‡	18
Staten Island	
Richmond University Medical Center	2,972
Staten Island University Hospital	2,685
Home†	19
Places other than a hospital or home‡	5
New York City Total	**110,442**

* Live births are presented by borough of birth beginning in 2010; in prior years, they were reported by borough of report.
† See Technical Notes: Geographical Units, Birthplace Presentation.
‡ Places other than a hospital or home include ambulances, taxis, and airplanes.
§ New birth center opened in 2017. In the 2017 Summary, the 3 births at this center were categorized into "Home" birth.

PREGNANCY OUTCOMES

Table PO2. Live Births by Mother's Ancestry* and Borough of Residence, New York City, 2019

Mother's Ancestry	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Unknown
Total	**110,442**	**16,218**	**17,653**	**36,516**	**23,363**	**5,174**	**11,514**	**4**
Hispanic								
Colombian	1,017	88	48	106	617	33	125	-
Cuban	287	58	45	69	44	23	48	-
Dominican	9,919	1,644	4,961	1,393	1,262	134	525	-
Ecuadorian	2,674	133	353	432	1,593	58	105	-
Mexican	4,459	444	1,045	1,361	1,190	304	115	-
Puerto Rican	5,422	667	2,174	1,148	651	437	343	2
Other Hispanic	6,440	814	1,652	1,393	1,802	207	571	1
North American and the Caribbean								
African-American	11,515	1,132	2,509	4,887	1,823	425	739	-
American	11,688	2,628	254	4,413	1,411	1,047	1,935	-
Guyanese	1,451	10	121	328	886	9	97	-
Haitian	1,297	40	42	786	254	10	165	-
Jamaican	1,646	31	431	517	480	18	169	-
Trinidadian	531	19	33	258	163	9	49	-
Other North American and Caribbean	1,301	198	145	551	243	28	136	-
African								
Egyptian	627	48	15	183	221	98	62	-
Ghanaian	559	21	438	37	17	14	32	-
Nigerian	601	18	156	154	159	67	47	-
Other African	2,172	340	1,043	412	232	65	80	-
European								
English	528	205	11	185	42	6	79	-
German	553	168	13	169	76	20	107	-
Irish	1,263	340	31	306	194	97	295	-
Italian	2,534	434	59	520	316	561	644	-
Polish	713	132	5	192	228	58	98	-
Russian	1,296	244	21	555	227	105	144	-
Other European	4,117	850	254	1,565	617	316	515	-
Asian								
Asian Indian	1,859	392	50	163	707	53	493	1
Bangladeshi	2,853	50	599	567	1,560	8	69	-
Chinese	7,711	954	58	2,884	2,828	360	627	-
Filipino	747	93	46	110	348	31	119	-
Korean	746	258	12	132	223	10	111	-
Pakistani	1,573	71	106	662	418	98	218	-
Other Asian	6,182	872	403	2,565	1,655	254	433	-
Other								
Jewish or Hebrew	4,835	446	25	3,676	153	82	453	-
Other or not stated	9,326	2,376	495	3,837	723	129	1,766	-

*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, 2019

		Age of Mother (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**110,442**	**657**	**2,019**	**15,387**	**26,188**	**34,930**	**24,060**	**7,201**
Puerto Rican	5,422	77	244	1,202	1,547	1,336	795	221
Hispanic not of Puerto Rican ancestry	24,796	355	864	4,562	6,698	6,651	4,316	1350
Asian and Pacific Islander	18,725	8	70	1,520	4,925	6,849	4,244	1109
Non-Hispanic White	39,278	37	263	4,605	7,265	13,828	10,267	3013
Non-Hispanic Black	20,053	167	532	3,233	5,300	5,585	3,912	1324
Non-Hispanic Other	606	1	11	90	155	185	117	47
Non-Hispanic of two or more races	1,225	6	27	116	226	401	329	120
Not stated	337	6	8	59	72	95	80	17

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2019

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	**110,442**	**657**	**2,019**	**15,387**	**26,188**	**34,930**	**24,060**	**7,201**
Sex								
Male	56,516	325	1,043	7,962	13,324	18,015	12,195	3,652
Female	53,926	332	976	7,425	12,864	16,915	11,865	3,549
First Live Birth								
Yes	47,095	626	1,742	9,510	11,322	14,301	7,492	2,102
No	63,325	31	277	5,874	14,860	20,621	16,564	5,098
Unknown	22	-	-	3	6	8	4	1
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI<18.5)	5,207	55	164	1,045	1,382	1,545	820	196
Normal weight (18.5≤BMI<25)	56,354	363	1,052	7,800	12,553	18,521	12,508	3,557
Overweight (25≤BMI<30)	27,807	139	466	3,704	6,797	8,493	6,220	1,988
Obese (BMI≥30)	20,721	96	321	2,780	5,369	6,269	4,451	1,435
Unknown	353	4	16	58	87	102	61	25
Birthweight at Delivery (Grams)								
<1500	1,568	18	28	203	368	463	342	146
1500-2499	7,796	67	158	1,142	1,776	2,329	1,692	632
2500-3999	94,483	553	1,769	13,353	22,530	29,958	20,400	5,920
≥4000	6,587	19	63	688	1,513	2,177	1,624	503
Not Stated	8	-	1	1	1	3	2	-
Gestational Age (Weeks)*								
<32	1,639	17	30	218	368	487	365	154
32-36	8,511	70	162	1,066	1,773	2,607	2,064	769
≥37	100,288	570	1,826	14,103	24,047	31,833	21,631	6,278
Unknown	4	-	1	-	-	3	-	-
Plurality								
Single	106,810	647	1,991	15,018	25,404	33,663	23,177	6,910
Twin	3,529	10	28	357	766	1,218	865	285
Triplet	93	-	-	12	18	39	18	6
Quadruplet	10	-	-	-	10	-	-	-
Apgar Score at 5 Minutes								
≤6	971	7	27	141	240	271	198	87
7	1,043	9	25	156	217	318	228	90
8	5,537	33	91	717	1,210	1,790	1,272	424
9	102,113	603	1,862	14,262	24,334	32,314	22,195	6,543
10	546	2	7	69	119	169	135	45
Not Stated	232	3	7	42	68	68	32	12

Table continued on following page

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2019 [CONTINUED]

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	**110,442**	**657**	**2,019**	**15,387**	**26,188**	**34,930**	**24,060**	**7,201**
Method of Delivery								
Vaginal	72,046	545	1,656	11,828	18,059	22,477	13,983	3,498
Vaginal after any prior C-section	2,815	2	10	225	729	958	695	196
Primary C-section	20,666	107	326	2,487	4,441	6,599	4,791	1,915
Low Risk†	10,981	62	227	1,559	2,528	3,453	2,291	861
Other	9,685	45	99	928	1,913	3,146	2,500	1,054
Repeat C-section	14,913	3	27	847	2,959	4,894	4,591	1,592
Unknown	2	-	-	-	-	2	-	-
Attendant								
Physician	100,833	537	1,722	13,353	23,566	32,398	22,483	6,774
Certified nurse midwife	8,954	114	284	1,911	2,430	2,344	1,475	396
Other	655	6	13	123	192	188	102	31
Primary Payer for this Birth‡								
Medicaid/Family Plus/Child Health Plus B/Other govt	61,758	570	1,780	12,730	18,292	16,102	9,357	2,927
Private	46,079	54	176	2,283	7,152	18,076	14,217	4,121
Self-pay	766	11	17	103	227	239	135	34
Other	898	10	17	138	246	250	184	53
Not Stated	941	12	29	133	271	263	167	66
First Visit for Prenatal Care								
First trimester (1-3 months)	82,280	274	1,125	10,111	18,781	27,449	19,068	5,472
Second trimester (4-6 months)	17,933	202	495	3,207	4,766	4,849	3,256	1,158
Third trimester (7-9 months)	6,378	127	262	1,289	1,711	1,616	1,033	340
No care	938	24	30	204	213	245	174	48
Not Stated	2,913	30	107	576	717	771	529	183
Marital Status§								
Not married	39,192	634	1,669	8,369	11,097	9,416	5,929	2,078
Married	71,250	23	350	7,018	15,091	25,514	18,131	5,123
Education Level								
11th grade or less/12th grade, no diploma	16,317	593	919	3,312	3,961	3,892	2,686	954
High school graduate or GED	24,821	59	800	6,263	7,221	5,782	3,552	1,144
Some college/associate degree	22,960	2	281	4,281	7,133	6,428	3,722	1,113
Bachelor's degree	25,082	-	1	1,155	5,188	10,064	6,812	1,862
Master's degree or higher	20,702	-	-	278	2,546	8,608	7,180	2,090
Not Stated	560	3	18	98	139	156	108	38
Birthplace‖								
United States, including its territories	55,852	422	1,307	9,143	12,640	17,180	11,814	3,346
Foreign-born	54,498	232	708	6,221	13,526	17,727	12,233	3,851
Not Stated	92	3	4	23	22	23	13	4

* 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, 2019

		Racial/Ethnic Group*							
	Total	Puerto Rican	Hispanic not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Other	Non-Hispanic Two or More Races	Not Stated
Total Live Births	**110,442**	**5,422**	**24,796**	**18,725**	**39,278**	**20,053**	**606**	**1,225**	**337**
Sex									
Male	56,516	2,721	12,533	9,756	20,194	10,167	350	625	170
Female	53,926	2,701	12,263	8,969	19,084	9,886	256	600	167
First Live Birth									
Yes	47,095	2,198	9,619	9,019	16,978	8,233	268	638	142
No	63,325	3,224	15,175	9,706	22,296	11,810	338	586	190
Unknown	22	-	2	-	4	10	-	1	5
Pre-pregnancy Body Mass Index									
Underweight (BMI<18.5)	5,207	181	568	1,687	2,050	633	25	54	9
Normal weight (18.5≤BMI<25)	56,354	1,831	9,811	11,813	25,105	6,672	305	677	140
Overweight (25≤BMI<30)	27,807	1,532	8,121	3,828	7,846	5,989	160	257	74
Obese (BMI≥30)	20,721	1,866	6,244	1,381	4,162	6,676	107	230	55
Unknown	353	12	52	16	115	83	9	7	59
Birthweight at Delivery (Grams)									
<1500	1,568	96	337	212	302	577	16	25	3
1500-2499	7,796	513	1,660	1,445	2,035	1,964	49	96	34
2500-3999	94,483	4,517	21,210	16,405	34,014	16,528	506	1,027	276
≥4000	6,587	296	1,589	663	2,923	982	35	77	22
Not stated	8	-	-	-	4	2	-	-	2
Gestational Age (Weeks)†									
<32	1,639	98	365	222	316	592	18	24	4
32-36	8,511	594	2,009	1,342	2,355	2,032	32	111	36
≥37	100,288	4,730	22,422	17,161	36,606	17,428	556	1,090	295
Unknown	4	-	-	-	1	1	-	-	2
Plurality									
Single	106,810	5,236	24,128	18,187	37,899	19,271	589	1,178	322
Twin	3,529	186	654	529	1,323	767	14	41	15
Triplet	93	-	9	9	51	15	3	6	-
Quadruplet	10	-	5	-	5	-	-	-	-
Apgar Score at 5 Minutes									
≤6	971	57	207	97	221	360	11	14	4
7	1,043	66	224	106	288	339	5	13	2
8	5,537	304	1,081	845	1,834	1,334	31	79	29
9	102,113	4,948	23,106	17,598	36,625	17,882	555	1,105	294
10	546	31	124	65	243	65	4	11	3
Not stated	232	16	54	14	67	73	-	3	5
Method of Delivery									
Vaginal	72,046	3,477	15,671	12,003	27,571	11,923	401	780	220
Vaginal after any prior C-section	2,815	146	615	348	1,155	500	15	28	8
Primary C-section	20,666	1,063	4,384	3,659	6,624	4,491	122	265	58
Low Risk‡	10,981	531	2,241	2,117	3,622	2,221	63	149	37
Other	9,685	532	2,143	1,542	3,002	2,270	59	116	21
Repeat C-section	14,913	736	4,126	2,715	3,928	3,139	68	152	49
Unknown	2	-	-	-	-	-	-	-	2

Table continued on following page

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2019 [CONTINUED]

		Racial/Ethnic Group*							
	Total	Puerto Rican	Hispanic not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic Other	Non-Hispanic Two or More Races	Not Stated
Attendant									
Physician	100,833	4,844	22,154	17,990	35,984	17,872	568	1,140	281
Certified nurse midwife	8,954	534	2,457	690	3,114	2,001	34	77	47
Other	655	44	185	45	180	180	4	8	9
Primary Payer for this Birth§									
Medicaid/Family Plus/Child Health Plus B/Other govt	61,758	3,663	19,144	10,354	14,438	13,209	358	420	172
Private	46,079	1,609	5,180	8,096	24,214	5,847	223	778	132
Self-pay	766	30	143	187	200	192	6	6	2
Other	898	77	161	63	332	242	4	11	8
Not stated	941	43	168	25	94	563	15	10	23
First Visit for Prenatal Care									
First trimester (1-3 months)	82,280	3,719	16,792	14,892	32,551	12,770	405	947	204
Second trimester (4-6 months)	17,933	1,080	5,121	2,690	4,524	4,141	139	182	56
Third trimester (7-9 months)	6,378	354	1,828	845	1,087	2,146	40	49	29
No care	938	69	254	99	215	269	9	9	14
Not stated	2,913	200	801	199	901	727	13	38	34
Marital Status‖									
Not married	39,192	3,925	14,663	2,772	4,107	12,954	215	401	155
Married	71,250	1,497	10,133	15,953	35,171	7,099	391	824	182
Education Level									
11th grade or less/12th grade, no diploma	16,317	1,210	6,907	2,720	2,632	2,643	86	83	36
High school graduate or GED	24,821	1,467	6,210	3,435	7,658	5,672	145	183	51
Some college/associate degree	22,960	1,718	6,607	3,184	4,657	6,333	162	255	44
Bachelor's degree	25,082	641	3,324	5,225	11,922	3,441	131	355	43
Master's degree or higher	20,702	378	1,656	4,124	12,263	1,817	75	346	43
Not stated	560	8	92	37	146	147	7	3	120
Birthplace¶									
United States, including territories	55,852	5,405	8,138	2,451	27,090	11,457	226	900	185
Foreign-born	54,498	17	16,648	16,271	12,180	8,581	379	325	97
Not stated	92	-	10	3	8	15	1	-	55

* 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, 2019

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	**110,442**	**49.4**	**42.7**	**8.5**	**9.2**	**6.8**	**35.5**	**56.4**	**18.8**	**2.4**	**43.4**
Hispanic											
Colombian	1,017	67.0	51.3	5.9	8.6	6.4	45.0	56.7	17.1	2.6	50.0
Cuban	287	16.7	53.7	5.9	10.1	1.4	42.5	39.9	25.4	2.1	51.9
Dominican	9,919	71.1	42.4	8.6	9.6	9.6	59.7	80.1	25.1	5.1	28.1
Ecuadorian	2,674	81.3	34.3	6.6	8.4	9.8	52.3	82.1	21.0	4.7	39.6
Mexican	4,459	69.3	30.5	7.1	9.0	6.5	63.0	86.6	27.9	5.3	37.4
Puerto Rican	5,422	0.3	40.5	11.2	12.8	8.1	72.4	68.1	34.5	5.9	33.4
Other Hispanic	6,440	56.1	38.1	8.8	10.5	9.0	61.4	71.1	26.6	5.0	39.6
North America and the Caribbean											
African-American	11,515	16.9	43.1	13.7	14.2	8.8	75.9	66.9	35.8	5.1	32.4
American	11,688	2.8	43.4	6.4	6.7	1.7	14.4	30.9	12.4	0.9	57.5
Guyanese	1,451	90.6	43.0	14.9	12.9	14.0	43.5	64.2	19.4	2.3	37.8
Haitian	1,297	82.8	43.1	10.6	11.9	13.2	39.4	65.4	30.2	0.9	30.1
Jamaican	1,646	92.1	42.3	11.6	12.6	19.0	62.1	70.3	32.6	1.8	35.8
Trinidadian	531	90.6	42.0	14.9	15.8	14.6	49.7	57.8	27.6	1.1	32.2
Other North America and the Caribbean	1,301	87.7	50.7	10.8	12.1	15.7	38.4	52.0	20.7	1.5	47.4
African											
Egyptian	627	93.1	27.8	7.7	10.0	17.8	2.2	68.6	27.2	0.0	39.6
Ghanaian	559	96.6	33.6	11.4	10.9	21.0	42.9	73.0	31.5	0.5	27.1
Nigerian	601	96.0	31.9	7.5	8.7	13.5	30.6	60.9	26.8	0.2	37.3
Other African	2,172	97.3	31.6	8.0	7.5	20.6	30.6	79.7	22.5	0.9	44.0
European											
English	528	40.3	60.0	5.5	5.9	3.7	11.0	9.3	5.5	0.0	78.2
German	553	28.2	59.1	4.3	5.8	2.0	10.3	10.5	9.4	0.5	76.3
Irish	1,263	10.2	60.7	6.1	7.0	2.0	14.9	7.7	10.1	0.4	66.9
Italian	2,534	9.9	55.7	7.5	8.7	1.8	15.9	11.8	16.0	0.5	53.7
Polish	713	60.7	54.3	4.6	6.5	2.7	16.0	26.3	8.8	0.0	60.4
Russian	1,296	81.9	50.5	5.4	7.3	4.6	22.2	36.2	7.3	0.2	61.7
Other European	4,117	73.0	51.3	5.3	7.0	5.3	15.9	35.6	8.8	0.3	61.1
Asian											
Asian Indian	1,859	80.6	56.0	11.9	8.9	5.0	6.0	32.2	11.3	0.5	55.2
Bangladeshi	2,853	97.9	40.5	12.3	9.8	7.2	2.6	81.4	11.8	0.3	32.7
Chinese	7,711	88.7	47.0	6.4	7.0	2.9	22.0	61.4	2.7	0.3	29.8
Filipino	747	75.5	53.4	9.6	11.0	5.2	21.6	29.1	9.1	1.2	53.5
Korean	746	67.6	63.0	6.3	7.2	2.5	7.8	13.6	3.2	0.1	63.0
Pakistani	1,573	92.4	36.9	9.5	9.1	8.9	3.4	74.9	17.7	0.6	27.6
Other Asian	6,182	88.3	40.5	6.6	6.7	7.3	11.3	59.8	8.7	1.8	45.6
Other											
Jewish or Hebrew	4,835	12.2	28.7	6.0	6.5	1.9	3.8	63.5	11.5	1.0	45.6
Other or Not Stated	9,326	18.2	44.0	7.2	8.0	3.7	14.4	29.1	12.0	0.8	60.9

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 2008 "On Medicaid" also includes 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, 2019

Community District of Residence	Live Births	Rate*	Percent of Total Live Births With Specified Characteristics							
			Foreign-Born†	First Live Birth	Low Birth-weight (<2,500 Grams)	Preterm Birth (<37 weeks)‡	Late or No Prenatal Care	On Medi-caid§	Pre-pregnancy Obesity	Exclusive Breast Feeding
NEW YORK CITY	**110,442**	**13.2**	**49.4**	**42.7**	**8.5**	**9.2**	**6.8**	**56.4**	**18.8**	**43.4**
MANHATTAN	**16,122**	**10.0**	**39.2**	**53.1**	**7.5**	**8.4**	**5.2**	**29.3**	**12.8**	**61.9**
Battery Park, Tribeca (01)	1,085	17.5	37.3	55.7	5.9	7.6	2.3	4.3	2.5	81.4
Greenwich Village, SOHO (02)	712	7.9	32.5	62.1	6.0	6.0	2.0	6.5	1.7	80.2
Lower East Side (03)	1,079	6.4	43.5	45.9	9.6	10.1	5.2	56.3	17.3	56.9
Chelsea, Clinton (04)	1,003	7.5	47.8	62.0	8.0	7.5	5.0	19.5	8.0	69.3
Midtown Business District (05)	625	11.1	40.0	60.8	8.8	10.1	4.3	16.6	6.1	71.4
Murray Hill (06)	1,311	9.2	39.5	61.5	6.9	8.0	3.4	6.4	7.0	78.3
Upper West Side (07)	2,300	10.9	33.0	53.7	5.1	6.7	3.2	11.8	6.8	68.6
Upper East Side (08)	2,470	11.1	30.2	55.2	6.9	7.4	2.1	4.5	4.6	73.0
Manhattanville (09)	918	8.5	48.3	48.7	7.6	8.5	10.9	59.8	21.5	44.9
Central Harlem (10)	1,407	12.5	39.1	45.7	9.9	10.9	10.4	54.1	26.5	50.9
East Harlem (11)	1,379	11.4	38.3	44.3	9.6	10.4	9.9	62.0	28.0	37.9
Washington Heights (12)	1,833	9.7	51.3	49.5	8.1	9.1	6.8	64.3	22.2	38.6
BRONX	**17,747**	**12.5**	**55.2**	**38.6**	**10.2**	**10.4**	**13.1**	**81.1**	**29.0**	**28.2**
Mott Haven (01)	1,348	14.0	41.4	36.3	11.2	12.0	15.2	85.3	34.0	28.1
Hunts Point (02)	744	13.6	46.0	35.5	10.9	11.8	14.4	84.8	30.8	27.3
Morrisania (03)	1,317	14.8	47.0	33.2	10.6	10.5	16.7	85.4	32.9	26.4
Concourse, Highbridge (04)	2,162	14.2	60.4	36.6	9.7	9.6	13.9	85.8	27.7	27.0
University/Morris Heights (05)	1,996	15.1	61.2	36.0	8.5	9.4	12.9	86.3	29.3	25.6
East Tremont (06)	1,184	13.9	45.8	37.8	10.1	9.5	15.5	88.9	33.4	26.1
Fordham (07)	1,969	13.6	64.1	41.4	9.5	9.5	9.9	83.0	25.8	25.9
Riverdale (08)	1,002	10.0	50.8	44.7	7.7	8.4	9.0	58.4	20.2	37.0
Unionport, Soundview (09)	2,299	12.7	56.9	38.8	10.6	10.5	12.6	80.9	28.2	28.6
Throgs Neck (10)	893	7.5	52.4	41.4	11.1	11.6	11.4	69.1	28.6	32.6
Pelham Parkway (11)	1,293	11.4	59.9	41.8	11.1	11.4	11.3	75.5	24.7	32.9
Williamsbridge (12)	1,540	10.1	57.5	41.4	12.4	12.3	15.1	77.7	33.2	26.9
BROOKLYN	**36,512**	**14.3**	**44.5**	**39.7**	**7.7**	**8.5**	**5.3**	**62.6**	**17.4**	**42.5**
Williamsburg, Greenpoint (01)	3,590	18.4	17.2	37.2	6.0	5.7	2.7	58.6	11.3	57.1
Fort Greene, Brooklyn Heights (02)	1,741	13.2	26.9	59.7	6.1	6.3	2.5	15.9	8.5	72.0
Bedford Stuyvesant (03)	2,117	14.5	23.8	39.6	8.1	8.5	5.9	62.3	20.3	46.6
Bushwick (04)	1,005	9.4	53.0	43.3	7.3	9.6	8.8	71.8	23.5	41.2
East New York (05)	2,443	14.3	52.6	39.3	11.7	12.2	8.2	78.5	29.8	31.8
Park Slope (06)	1,574	14.6	24.7	55.9	6.5	6.9	2.0	15.1	9.3	76.0
Sunset Park (07)	1,793	14.1	68.8	41.3	5.2	7.3	2.1	71.3	12.0	39.1
Crown Heights North (08)	1,170	12.5	31.8	51.8	7.8	8.1	4.6	44.6	17.9	53.0
Crown Heights South (09)	1,328	14.0	40.3	42.4	7.6	7.4	7.3	63.8	19.3	52.7
Bay Ridge (10)	1,644	11.9	63.5	44.8	8.0	9.1	3.4	57.2	14.1	43.7
Bensonhurst (11)	2,503	12.5	79.6	38.9	6.8	7.6	4.5	74.2	12.3	33.7
Borough Park (12)	4,939	25.1	30.5	26.0	5.6	6.3	1.6	78.7	11.1	34.0
Coney Island (13)	1,206	11.5	65.9	39.8	8.2	10.4	9.2	74.0	19.7	36.9
Flatbush, Midwood (14)	2,296	14.3	53.8	38.6	8.0	9.3	6.1	63.4	18.2	36.8
Sheepshead Bay (15)	2,177	12.8	61.8	35.1	7.0	8.3	6.1	59.3	12.2	41.1
Brownsville (16)	1,220	15.2	34.4	36.7	12.0	12.7	11.3	78.0	37.8	23.5
East Flatbush (17)	1,661	11.2	57.5	43.5	11.8	13.7	12.2	69.9	31.7	27.2
Canarsie (18)	2,105	11.3	48.0	37.6	10.5	11.7	8.8	57.2	27.9	30.4
QUEENS	**23,363**	**10.3**	**68.3**	**43.5**	**8.9**	**9.1**	**7.9**	**62.9**	**18.4**	**43.0**
Astoria, Long Island City (01)	1,816	9.6	50.3	53.4	9.2	9.4	6.5	43.4	17.7	57.3
Sunnyside, Woodside (02)	1,591	10.7	63.9	53.8	7.4	7.2	6.4	41.3	11.9	58.1
Jackson Heights (03)	2,055	11.9	75.4	38.2	8.4	9.6	9.4	74.1	19.8	40.0
Elmhurst, Corona (04)	2,102	11.7	84.3	39.8	7.7	8.0	8.1	79.0	19.2	35.2
Ridgewood, Glendale (05)	1,642	10.4	64.0	44.5	6.6	8.0	8.1	57.3	17.9	43.3
Rego Park, Forest Hills (06)	1,274	11.5	65.8	47.9	5.9	5.2	2.7	36.4	9.2	50.2
Flushing (07)	2,372	9.3	86.0	45.8	7.0	7.6	5.3	76.5	10.3	26.2
Fresh Meadows, Briarwood (08)	1,610	10.8	67.8	40.2	9.1	9.1	6.6	60.9	15.3	41.1
Woodhaven (09)	1,664	11.8	73.6	40.1	10.0	9.1	10.0	70.7	20.0	47.5
Howard Beach (10)	1,226	10.2	69.8	43.4	10.9	10.2	9.3	65.0	20.3	43.4
Bayside (11)	539	4.7	67.2	44.2	5.9	6.5	4.1	48.4	10.9	36.0
Jamaica, St. Albans (12)	2,740	12.2	66.7	41.5	11.7	12.4	12.1	70.1	26.9	47.4
Queens Village (13)	1,516	8.1	63.3	44.1	11.7	10.9	7.8	60.3	25.7	38.6
The Rockaways (14)	1,216	11.1	37.6	33.3	10.5	10.5	9.0	65.0	26.1	39.9
STATEN ISLAND	**5,174**	**10.9**	**38.1**	**39.3**	**7.4**	**9.5**	**2.0**	**44.6**	**21.9**	**32.0**
Port Richmond (01)	2,176	11.9	40.9	38.0	9.0	10.7	2.5	57.7	25.4	32.0
Willowbrook, South Beach (02)	1,392	10.2	48.1	40.3	5.5	8.6	2.1	46.3	19.2	31.1
Tottenville (03)	1,593	10.2	26.0	40.1	6.9	8.7	1.4	25.7	19.4	32.4
NEW YORK CITY RESIDENTS	**98,919**	**11.9**	**50.8**	**42.6**	**8.4**	**9.0**	**7.1**	**59.7**	**19.2**	**42.6**
NON-RESIDENTS	**11,514**	**-**	**36.9**	**43.4**	**9.2**	**10.6**	**4.0**	**28.4**	**15.5**	**49.9**
RESIDENCE UNKNOWN	**10**	**-**	**44.4**	**60.0**	**10.0**	**10.0**	**55.6**	**100.0**	**22.2**	**20.0**

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 2008 "On Medicaid" also includes Family Health Plus, Other government, and Child Health Plus B.

PREGNANCY OUTCOMES

Table PO8. Live Births by Mother's Birthplace and Borough of Residence, New York City, 2019

		Borough of Residence						
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
United States	55,854	9,850	7,893	20,251	7,398	3,201	7,258	3
United States (excluding Puerto Rico)	55,102	9,754	7,523	20,115	7,312	3,178	7,217	3
Puerto Rico	752	96	370	136	86	23	41	-
Dominican Republic	7,137	1,070	3,796	988	855	88	340	-
China	6,684	704	49	2,499	2,601	307	524	-
Mexico	3,136	302	786	892	876	213	67	-
Bangladesh	2,835	56	597	563	1,544	8	67	-
Ecuador	2,201	102	298	353	1,342	31	75	-
Jamaica	1,936	32	471	659	567	19	188	-
Guyana	1,553	11	116	420	904	12	90	-
Pakistan	1,437	58	100	617	386	90	186	-
India	1,421	268	35	83	610	35	389	1
Uzbekistan	1,387	18	2	946	360	25	36	-
Haiti	1,202	27	35	769	229	9	133	-
Yemen	921	72	266	393	141	26	23	-
Russia	906	182	13	414	132	73	92	-
Honduras	815	49	333	141	208	42	42	-
Guatemala	812	25	118	308	298	29	34	-
Israel	789	168	7	397	99	31	87	-
Ukraine	719	70	8	430	72	78	61	-
Colombia	684	58	29	69	444	17	67	-
El Salvador	678	16	81	136	352	3	90	-
Nigeria	663	12	157	181	180	83	50	-
Trinidad and Tobago	663	21	35	356	185	14	52	-
Canada	642	175	12	299	57	10	89	-
Ghana	632	24	487	42	29	16	34	-
Other or Not Stated	14,735	2,848	1,929	4,310	3,494	714	1,440	-
Total	**110,442**	**16,218**	**17,653**	**36,516**	**23,363**	**5,174**	**11,514**	**4**

PREGNANCY OUTCOMES

Table PO9. Live Births by Mother's Birthplace and Age, New York City, 2019

Birthplace	Total	Age Group (Years) <20	20-24	25-29	30-34	35-39	≥40	Not Stated
United States	55,854	1,729	9,143	12,642	17,180	11,814	3,346	-
United States (excluding Puerto Rico)	55,102	1,684	9,006	12,449	16,976	11,690	3,297	-
Puerto Rico	752	45	137	193	204	124	49	-
Dominican Republic	7,137	328	1,341	2,118	1,862	1,130	358	-
China	6,684	15	435	2,059	2,640	1,241	294	-
Mexico	3,136	66	316	698	1,033	770	253	-
Bangladesh	2,835	8	529	998	836	380	84	-
Ecuador	2,201	71	349	493	621	493	174	-
Jamaica	1,936	30	272	476	536	461	161	-
Guyana	1,553	35	251	457	427	272	111	-
Pakistan	1,437	5	153	540	477	223	39	-
India	1,421	6	58	306	613	364	74	-
Uzbekistan	1,387	30	370	438	315	210	24	-
Haiti	1,202	11	74	211	369	391	146	-
Yemen	921	62	233	257	205	116	48	-
Russia	906	1	26	136	423	252	68	-
Honduras	815	75	168	199	195	143	35	-
Guatemala	812	59	159	242	215	106	31	-
Israel	789	7	111	126	246	236	63	-
Ukraine	719	1	37	135	293	188	65	-
Colombia	684	14	89	152	204	173	52	-
El Salvador	678	27	119	164	200	140	28	-
Nigeria	663	1	24	122	259	180	77	-
Trinidad and Tobago	663	8	60	104	244	197	50	-
Canada	642	1	62	92	217	206	64	-
Ghana	632	1	35	146	244	152	54	-
Other or Not Stated	14,735	85	973	2,877	5,076	4,222	1,502	-
Total	**110,442**	**2,676**	**15,387**	**26,188**	**34,930**	**24,060**	**7,201**	**-**

PREGNANCY OUTCOMES

Table PO10. Live Births and Pregnancy Rates* to Teenagers (Age 15-19 Years) by Racial/Ethnic Group and Borough of Residence, New York City, 2019

	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	657	45	1,442	2,144	124,422	5.3	17.2
	18-19	2,019	122	2,719	4,860	93,742	21.5	51.8
	15-19	2,676	167	4,161	7,004	218,164	12.3	32.1
Racial/Ethnic Group‡								
Hispanic	15-17	432	20	504	956	45,212	9.6	21.1
	18-19	1,108	41	880	2,029	31,738	34.9	63.9
	15-19	1,540	61	1,384	2,985	76,950	20.0	38.8
Asian and Pacific Islander	15-17	8	3	37	48	15,629	0.5	3.1
	18-19	70	4	104	178	12,426	5.6	14.3
	15-19	78	7	141	226	28,055	2.8	8.1
Non-Hispanic White	15-17	37	-	62	99	29,298	1.3	3.4
	18-19	263	22	200	485	25,852	10.2	18.8
	15-19	300	22	262	584	55,150	5.4	10.6
Non-Hispanic Black	15-17	167	11	623	801	31,093	5.4	25.8
	18-19	532	32	1,109	1,673	21,299	25.0	78.5
	15-19	699	43	1,732	2,474	52,392	13.3	47.2
Racial/Ethnic Group§								
Hispanic	15-17	423	20	464	907	45,212	9.4	20.1
	18-19	1,073	39	832	1,944	31,738	33.8	61.3
	15-19	1,496	59	1,296	2,851	76,950	19.4	37.1
Asian and Pacific Islander	15-17	8	3	36	47	15,629	0.5	3.0
	18-19	66	4	95	165	12,426	5.3	13.3
	15-19	74	7	131	212	28,055	2.6	7.6
Non-Hispanic White	15-17	35	-	43	78	29,298	1.2	2.7
	18-19	237	14	165	416	25,852	9.2	16.1
	15-19	272	14	208	494	55,150	4.9	9.0
Non-Hispanic Black	15-17	163	11	577	751	31,093	5.2	24.2
	18-19	511	31	1,005	1,547	21,299	24.0	72.6
	15-19	674	42	1,582	2,298	52,392	12.9	43.9
Borough of Residence								
Manhattan	15-17	80	2	172	254	16,413	4.9	15.5
	18-19	207	8	376	591	20,015	10.3	29.5
	15-19	287	10	548	845	36,428	7.9	23.2
Bronx	15-17	226	10	374	610	26,794	8.4	22.8
	18-19	616	15	668	1,299	18,760	32.8	69.2
	15-19	842	25	1,042	1,909	45,554	18.5	41.9
Brooklyn	15-17	173	18	408	599	39,558	4.4	15.1
	18-19	655	41	755	1,451	27,030	24.2	53.7
	15-19	828	59	1,163	2,050	66,588	12.4	30.8
Queens	15-17	136	12	310	458	32,946	4.1	13.9
	18-19	365	40	587	992	22,333	16.3	44.4
	15-19	501	52	897	1,450	55,279	9.1	26.2
Staten Island	15-17	27	3	46	76	8,711	3.1	8.7
	18-19	87	7	95	189	5,604	15.5	33.7
	15-19	114	10	141	265	14,315	8.0	18.5
NYC Events to NYC Residents	15-17	642	45	1,310	1,997	124,422	5.2	16.1
	18-19	1,930	111	2,481	4,522	93,742	20.6	48.2
	15-19	2,572	156	3,791	6,519	218,164	11.8	29.9
NYC Events to Non-NYC Residents	15-17	15	-	132	147	-	N.A.	N.A.
	18-19	89	11	238	338	-	N.A.	N.A.
	15-19	104	11	370	485	-	N.A.	N.A.

*Population data used to calculate rates are from 2010 Census population estimates. See Technical Notes: Population.
† From 2011, the number of events to 15-17 year old females and to 15-19 year old females include events to females <18 and <20 years of age, respectively. See Technical Notes: Pregnancy Outcome Rates.
‡ Includes all events occurring in NYC regardless of residence; other/unknown race and ethnicity are not presented.
§ Numbers and rates are limited to events occurring in NYC to NYC residents only; other/unknown race and ethnicity are not presented.
N.A. Not applicable.

PREGNANCY OUTCOMES

Table PO11. Live Births to Teenagers (Age <20 Years), Overall and by Selected Characteristics, New York City, 2015-2019

	2015	2016	2017	2018	2019
Total Live Births	**121,673**	**120,367**	**117,013**	**114,296**	**110,442**
Percent to Teenagers (Age <20)	3.3	2.8	2.7	2.5	2.4
Population* (Females Age 15-19)	232,369	231,576	229,278	220,948	218,164
Birth Rate† (Age 15-19)	17.5	14.8	13.8	13.1	12.3
Births to Teenagers	4,073	3,425	3,175	2,892	2,676
Percent of Births with Specified Characteristics:					
Hispanic	59.0	59.0	59.9	59.3	59.1
Foreign-born‡	31.8	33.5	32.7	34.2	35.2
First Live Birth	86.1	88.1	87.3	87.7	88.5
<2,500 grams	10.5	9.7	10.6	9.5	10.1
Preterm§	10.0	9.0	10.6	9.3	10.4
Prenatal Care in First or Second Trimester of Pregnancy	84.7	85.3	84.3	84.4	82.6
Not Married	86.8	86.1	87.0	86.9	86.1
On Medicaid‖	91.0	90.3	90.4	90.2	89.2
Pre-pregnancy Obesity	13.9	13.6	14.3	15.2	15.7
Infant Mortality Rate¶	**6.6**	**5.3**	**5.4**	**3.9**	**4.2**

* For denominator information, see Technical Notes: Population.
† Births to women age <20 years per 1,000 female population age 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, 2017-2019*

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	**8,743**	**2.6**	**34.0**	**87.8**	**10.1**	**10.1**	**16.2**	**86.7**	**89.9**	**26.4**
MANHATTAN	**885**	**1.8**	**28.1**	**87.5**	**9.2**	**9.4**	**14.4**	**93.1**	**91.7**	**27.8**
Battery Park, Tribeca (01)	1	0.0	0.0	0.0	100.0	100.0	100.0	100.0	100.0	0.0
Greenwich Village, SoHo (02)	5	0.2	20.0	100.0	20.0	0.0	0.0	80.0	100.0	40.0
Lower East Side (03)	71	2.1	12.7	87.3	7.0	10.0	16.1	93.0	91.2	43.7
Chelsea, Clinton (04)	35	1.2	22.9	74.3	8.6	5.7	20.7	91.4	97.1	42.9
Midtown Business District (05)	14	0.8	7.1	71.4	0.0	0.0	0.0	92.9	100.0	35.7
Murray Hill (06)	13	0.3	38.5	92.3	7.7	15.4	20.0	92.3	76.9	53.8
Upper West Side (07)	41	0.6	15.4	82.9	17.1	9.8	8.8	97.6	92.7	41.5
Upper East Side (08)	14	0.2	7.1	85.7	0.0	0.0	0.0	100.0	61.5	28.6
Manhattanville (09)	134	4.7	23.5	88.1	6.7	7.5	16.3	91.8	95.5	30.6
Central Harlem (10)	166	3.8	18.1	88.6	12.7	10.8	15.4	94.6	89.7	27.1
East Harlem (11)	161	3.8	23.0	86.3	9.3	11.8	12.3	92.5	90.4	25.5
Washington Heights (12)	229	3.9	52.0	90.8	7.9	8.7	14.6	92.6	92.5	16.6
BRONX	**2,778**	**5.0**	**35.5**	**87.2**	**11.0**	**10.0**	**19.6**	**91.9**	**93.8**	**21.5**
Mott Haven (01)	295	6.9	24.7	83.1	13.9	13.2	17.4	93.2	94.5	22.4
Hunts Point (02)	141	6.0	34.8	90.1	10.6	11.3	19.3	96.5	95.7	20.6
Morrisania (03)	234	5.5	24.4	88.9	8.1	8.1	17.8	93.6	91.3	23.5
Concourse, Highbridge (04)	348	5.1	44.4	87.9	8.3	6.6	20.2	90.2	94.8	19.3
University/Morris Heights (05)	344	5.5	44.8	86.3	10.5	9.6	17.4	91.6	93.3	21.8
East Tremont (06)	245	6.9	33.9	85.3	13.9	12.7	17.2	97.6	93.0	21.6
Fordham (07)	302	5.0	48.7	90.1	8.9	9.3	18.6	93.0	95.3	20.5
Riverdale (08)	66	2.1	45.5	92.4	12.1	7.6	19.4	92.4	96.9	22.7
Unionport, Soundview (09)	341	4.9	32.8	87.7	12.6	10.3	23.8	91.2	93.8	20.2
Throgs Neck (10)	77	2.7	20.8	87.0	9.1	6.5	28.9	85.7	89.5	18.2
Pelham Parkway (11)	148	3.7	35.1	85.1	11.5	14.2	17.8	74.3	94.6	32.4
Williamsbridge (12)	237	4.8	25.3	86.9	12.2	9.7	22.7	94.9	92.4	19.0
BROOKLYN	**2,640**	**2.3**	**30.4**	**88.8**	**9.4**	**10.7**	**12.7**	**80.1**	**90.1**	**23.4**
Williamsburg, Greenpoint (01)	158	1.5	11.4	95.6	6.3	8.9	11.5	53.8	89.2	39.2
Fort Greene, Brooklyn Heights (02)	49	0.9	28.6	81.6	14.3	14.3	4.4	98.0	89.6	16.3
Bedford Stuyvesant (03)	213	3.3	16.1	89.7	11.3	9.4	13.5	83.1	90.5	17.8
Bushwick (04)	171	5.2	29.6	91.2	5.8	9.4	14.4	96.5	94.6	19.9
East New York (05)	393	5.1	31.5	90.1	12.2	12.2	15.6	95.4	92.8	22.4
Park Slope (06)	43	0.9	14.0	86.0	4.7	9.3	11.9	95.3	85.7	30.2
Sunset Park (07)	154	2.5	48.7	81.8	6.5	10.4	5.3	83.8	96.8	26.8
Crown Heights North (08)	97	2.7	15.6	85.6	7.2	9.3	13.5	95.9	86.6	15.5
Crown Heights South (09)	66	1.5	42.4	89.4	12.1	15.4	19.0	84.8	92.3	18.2
Bay Ridge (10)	56	1.1	51.8	87.5	5.4	12.5	3.6	69.6	81.8	37.5
Bensonhurst (11)	133	1.7	57.9	89.5	5.3	8.3	10.9	65.4	93.2	33.8
Borough Park (12)	214	1.4	32.7	93.0	5.6	7.0	5.6	34.6	85.5	29.4
Coney Island (13)	124	3.5	25.8	86.3	14.6	15.3	11.7	85.5	96.0	20.3
Flatbush, Midwood (14)	135	1.9	43.0	88.1	11.1	11.1	10.8	71.1	91.0	23.7
Sheepshead Bay (15)	100	1.5	46.0	92.0	9.0	8.0	10.6	47.0	81.0	28.0
Brownsville (16)	216	5.8	11.1	87.5	10.2	10.6	12.4	97.2	88.3	15.3
East Flatbush (17)	181	3.4	35.4	84.5	12.7	15.5	26.1	95.0	88.3	16.0
Canarsie (18)	136	2.1	27.2	86.8	10.3	9.6	15.1	84.6	85.2	22.8
QUEENS	**1,741**	**2.4**	**45.0**	**87.8**	**9.3**	**8.7**	**19.8**	**87.0**	**87.7**	**39.2**
Astoria, Long Island City (01)	110	1.9	21.8	85.5	10.0	12.7	19.6	95.5	85.5	30.6
Sunnyside, Woodside (02)	49	1.0	44.9	89.8	12.2	8.2	22.9	77.6	93.9	32.7
Jackson Heights (03)	249	3.9	53.8	84.7	6.0	8.4	20.7	89.2	92.0	31.7
Elmhurst, Corona (04)	176	2.7	46.0	88.1	9.1	10.2	19.2	88.1	93.1	27.3
Ridgewood, Glendale (05)	129	2.5	46.9	91.5	6.2	10.1	25.6	84.5	83.6	20.9
Rego Park, Forest Hills (06)	26	0.7	57.7	84.6	7.7	3.8	7.7	57.7	88.0	34.6
Flushing (07)	100	1.3	64.0	93.0	8.0	6.0	15.5	82.0	86.0	31.0
Fresh Meadows, Briarwood (08)	60	1.2	51.7	90.0	8.3	5.0	23.7	68.3	86.7	35.0
Woodhaven (09)	142	2.7	53.5	87.3	10.6	12.0	17.3	85.9	90.8	53.5
Howard Beach (10)	103	2.7	56.3	89.3	10.7	5.8	19.8	78.6	82.5	65.0
Bayside (11)	6	0.3	50.0	100.0	16.7	16.7	16.7	100.0	100.0	16.7
Jamaica, St. Albans (12)	302	3.5	39.2	86.4	11.6	8.3	17.7	91.4	82.1	51.0
Queens Village (13)	102	2.2	38.2	94.1	9.8	7.8	20.6	86.3	82.0	40.2
The Rockaways (14)	187	4.9	30.5	84.5	10.2	8.0	22.5	93.6	92.5	41.7
STATEN ISLAND	**365**	**2.3**	**13.7**	**84.6**	**12.3**	**11.8**	**7.0**	**92.9**	**78.5**	**19.2**
Port Richmond (01)	287	4.3	12.2	85.0	11.8	10.8	8.2	95.8	80.7	18.5
Willowbrook, South Beach (02)	51	1.2	26.0	86.0	11.8	13.7	4.0	82.4	78.0	20.0
Tottenville (03)	26	0.6	7.7	80.8	19.2	19.2	0.0	84.6	57.7	26.9
NEW YORK CITY RESIDENTS	**8,409**	**2.7**	**34.2**	**87.7**	**10.0**	**10.0**	**16.4**	**87.3**	**90.5**	**26.3**
NON-RESIDENTS	**333**	**1.0**	**29.1**	**89.8**	**12.6**	**13.2**	**11.5**	**69.7**	**77.0**	**27.4**
RESIDENCE UNKNOWN	**1**	**-**	**-**	**100.0**	**-**	**-**	**-**	**100.0**	**100.0**	**-**

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 2008, "On Medicaid" also includes 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, 2019*

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	**167,753**	**2,144**	**4,860**	**28,650**	**41,761**	**47,420**	**32,297**	**10,619**	**2**
Live Births	110,442	657	2,019	15,387	26,188	34,930	24,060	7,201	-
Spontaneous Terminations	7,527	45	122	792	1,414	2,076	1,977	1,100	1
Induced Terminations	49,784	1,442	2,719	12,471	14,159	10,414	6,260	2,318	1
MANHATTAN	**25,963**	**254**	**591**	**3,248**	**5,278**	**8,201**	**6,238**	**2,153**	**-**
Live Births	16,218	80	207	1,156	2,603	5,988	4,695	1,489	-
Spontaneous Terminations	1,228	2	8	88	169	381	372	208	-
Induced Terminations	8,517	172	376	2,004	2,506	1,832	1,171	456	-
BRONX	**29,635**	**610**	**1,299**	**6,473**	**8,705**	**7,057**	**4,118**	**1,373**	**-**
Live Births	17,653	226	616	3,457	5,295	4,525	2,682	852	-
Spontaneous Terminations	1,083	10	15	154	250	270	238	146	-
Induced Terminations	10,899	374	668	2,862	3,160	2,262	1,198	375	-
BROOKLYN	**51,557**	**599**	**1,451**	**9,714**	**12,728**	**14,038**	**9,796**	**3,230**	**1**
Live Births	36,516	173	655	6,232	8,716	10,759	7,629	2,352	-
Spontaneous Terminations	2,104	18	41	267	380	547	549	302	-
Induced Terminations	12,937	408	755	3,215	3,632	2,732	1,618	576	1
QUEENS	**36,583**	**458**	**992**	**6,048**	**9,760**	**10,316**	**6,765**	**2,244**	**-**
Live Births	23,363	136	365	3,010	6,173	7,471	4,822	1,386	-
Spontaneous Terminations	1,880	12	40	206	395	510	459	258	-
Induced Terminations	11,340	310	587	2,832	3,192	2,335	1,484	600	-
STATEN ISLAND	**6,946**	**76**	**189**	**1,014**	**1,783**	**2,215**	**1,304**	**365**	**-**
Live Births	5,174	27	87	572	1,298	1,855	1,074	261	-
Spontaneous Terminations	354	3	7	27	89	93	91	44	-
Induced Terminations	1,418	46	95	415	396	267	139	60	-
NON-RESIDENTS	**16,910**	**143**	**332**	**2,129**	**3,469**	**5,558**	**4,040**	**1,239**	**-**
Live Births	11,514	15	89	960	2,101	4,331	3,157	861	-
Spontaneous Terminations	876		11	49	131	275	268	142	-
Induced Terminations	4,520	128	232	1,120	1,237	952	615	236	-
RESIDENCE UNKNOWN	**159**	**4**	**6**	**24**	**38**	**35**	**36**	**15**	**1**
Live Births	4	-	-	-	2	1	1	-	-
Spontaneous Terminations	2	-		1	-	-	-	-	1
Induced Terminations	153	4	6	23	36	34	35	15	-

*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, 2019

		Age Group (Years)							
Gestational Age (Weeks)	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or not stated
Total	**7,527**	**45**	**122**	**792**	**1,414**	**2,076**	**1,977**	**1,100**	**1**
<13	5,659	27	89	563	1,012	1,519	1,568	881	-
13-15	482	5	7	52	95	136	115	72	-
16-19	590	5	11	53	132	180	141	68	-
20-27	484	5	10	77	107	142	104	39	-
≥28	311	3	5	47	68	99	49	40	-
Not Stated	1	-	-	-	-	-	-	-	1

*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, 2019

		Age Group (Years)						
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	**311**	**3**	**5**	**47**	**68**	**99**	**49**	**40**
Sex								
Male	175	1	1	31	34	57	28	23
Female	134	2	4	16	32	42	21	17
Undetermined	2	-	-	-	2	-	-	-
Weight at Delivery (Grams)								
<500	8	-	-	-	1	3	2	2
500-999	17	-	2	1	4	6	2	2
1,000-1,499	45	-	1	11	11	9	8	5
1,500-1,999	50	1	2	6	10	17	6	8
2,000-2,499	53	-	-	9	10	16	8	10
≥2,500	123	2	-	16	30	44	20	11
Not stated	15	-	-	4	2	4	3	2

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

Table PO16. Selected Characteristics of Spontaneous Terminations of Pregnancy*, ≥28 Weeks Gestation, Overall and by Woman's Racial/Ethnic Group, New York City, 2019

		Racial/Ethnic Group						
	Total	Puerto Rican	Hispanic (not Puerto Rican)	Asian and Pacific Islander	Non-Hispanic White	Non-Hispanic Black	Other	Not Stated
Total	**311**	**11**	**51**	**37**	**82**	**99**	**3**	**28**
Sex								
Male	175	5	27	16	49	57	3	18
Female	134	6	24	21	31	42	-	10
Undetermined	2	-	-	-	2	-	-	-
Weight at Delivery (Grams)								
<500	8	-	2	2	2	2	-	-
500-999	17	1	2	1	6	4	-	3
1,000-1,499	45	4	6	3	7	16	1	8
1,500-1,999	50	-	5	10	12	21	-	2
2,000-2,499	53	1	8	3	12	23	-	6
≥2,500	123	4	24	18	36	31	2	8
Not stated	15	1	4	0	7	2	-	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, 2019

Borough of Residence/ Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	**160,537**	**64,320**	**20,482**	**33,476**	**35,976**	**6,283**
Live Births	110,442	42,482	12,607	27,066	22,606	5,681
Spontaneous Terminations	311	110	50	78	58	15
Induced Terminations	49,784	21,728	7,825	6,332	13,312	587
MANHATTAN	**24,776**	**22,502**	**1,086**	**482**	**671**	**35**
Live Births	16,218	15,549	283	276	94	16
Spontaneous Terminations	41	38	1	1	1	-
Induced Terminations	8,517	6,915	802	205	576	19
BRONX	**28,614**	**9,779**	**17,885**	**289**	**652**	**9**
Live Births	17,653	5,732	11,510	174	233	4
Spontaneous Terminations	62	15	45	2	-	-
Induced Terminations	10,899	4,032	6,330	113	419	5
BROOKLYN	**49,553**	**15,344**	**342**	**29,159**	**3,368**	**1,340**
Live Births	36,516	9,807	119	23,914	1,410	1,266
Spontaneous Terminations	100	27	1	66	2	4
Induced Terminations	12,937	5,510	222	5,179	1,956	70
QUEENS	**34,763**	**6,701**	**168**	**1,773**	**26,057**	**64**
Live Births	23,363	4,481	77	1,378	17,379	48
Spontaneous Terminations	60	7	1	7	45	-
Induced Terminations	11,340	2,213	90	388	8,633	16
STATEN ISLAND	**6,604**	**995**	**33**	**1,007**	**100**	**4,469**
Live Births	5,174	345	10	768	31	4,020
Spontaneous Terminations	12	-	-	1	-	11
Induced Terminations	1,418	650	23	238	69	438
NON-RESIDENTS	**16,070**	**8,853**	**966**	**762**	**5,124**	**365**
Live Births	11,514	6,565	608	556	3,459	326
Spontaneous Terminations	36	23	2	1	10	-
Induced Terminations	4,520	2,265	356	205	1,655	39
RESIDENCE UNKNOWN	**157**	**146**	**2**	**4**	**4**	**1**
Live Births	4	3	-	-	-	1
Spontaneous Terminations	0	-	-	-	-	-
Induced Terminations	153	143	2	4	4	-

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

PREGNANCY OUTCOMES

Table PO18. Induced Terminations of Pregnancy* by Selected Characteristics and Woman's Age, New York City, 2019

	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Induced Termination of Pregnancy, All	**49,784**	**1,442**	**2,719**	**12,471**	**14,159**	**10,414**	**6,260**	**2,318**	**1**
Racial/Ethnic Group									
Hispanic	13,112	504	880	3,718	3,755	2,486	1,336	433	-
Asian and Pacific Islander	3,188	37	104	659	851	764	535	238	-
Non-Hispanic White	6,414	62	200	1,256	1,819	1,553	1,051	472	1
Non-Hispanic Black	17,665	623	1,109	4,725	5,164	3,462	1,946	636	-
Other	1,926	66	130	552	540	356	203	79	-
Unknown	7,479	150	296	1,561	2,030	1,793	1,189	460	-
Marital Status									
Married	8,269	19	68	1,091	2,057	2,348	1,831	855	-
Not married	36,518	1,293	2,461	10,450	10,825	6,853	3,548	1,087	1
Other/Unknown	4,997	130	190	930	1,277	1,213	881	376	-
Gestational Age (Weeks)									
≤6	22,364	538	1,167	5,551	6,604	4,750	2,740	1,014	-
7 - 8	14,081	386	740	3,421	4,137	3,031	1,757	608	1
9 - 10	5,560	177	307	1,500	1,547	1,089	695	245	-
11 - 12	2,702	123	174	734	637	528	364	142	-
13 - 15	2,150	72	132	528	517	453	316	132	-
16 - 20	1,831	85	126	475	437	336	248	124	-
≥21	1,096	61	73	262	280	227	140	53	-
Unknown	-	-	-	-	-	-	-	-	-
Type of Primary Termination Procedure									
Suction curettage	29,167	794	1,469	7,085	8,278	6,255	3,875	1,410	1
Sharp curettage / D+C	1,063	23	38	155	229	249	213	156	-
Dilation and evacuation	3,399	141	211	864	808	686	492	197	-
Intrauterine instillation	13	-	-	3	4	1	3	2	-
Hysterotomy / hysterectomy	32	2	2	4	12	5	4	3	-
Medical (non-surgical)	16,030	482	996	4,355	4,810	3,203	1,646	538	-
Other	80	-	3	5	18	15	27	12	-
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, 2015-2019*

	2015	2016	2017	2018	2019
Marital Status (Percent)					
Married	14.7	14.6	15.3	15.9	16.6
Not married	72.8	75.3	72.9	70.2	73.4
Other/Unknown	12.6	10.1	11.8	13.9	10.0
Age Group (Years)					
<20	5,908	5,400	4,754	4,092	4,161
20 - 24	18,049	16,218	14,492	12,833	12,471
25 - 29	17,499	17,004	15,576	14,259	14,159
30 - 34	11,979	11,607	10,725	10,238	10,414
35 - 39	7,108	6,981	6,474	6,047	6,260
≥40	2,705	2,642	2,368	2,288	2,318
Unknown	2	2	2	2	1
Racial/Ethnic Group					
Hispanic	18,139	16,718	14,443	14,114	13,112
Asian and Pacific Islander	4,012	3,490	3,047	2,998	3,188
Non-Hispanic White	9,652	9,139	7,471	6,593	6,414
Non-Hispanic Black	25,515	23,209	20,569	17,252	17,665
Other	2,155	1,711	1,930	949	1,926
Unknown	3,777	5,587	6,931	7,853	7,479
Total	63,250	59,854	54,391	49,759	49,784

*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, 2010 and 2019

	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
Birth Characteristics	2019	2010	Change 2010 to 2019 (%)	2019	2010	Change 2010 to 2019 (%)	2019	2010	Change 2010 to 2019 (%)	2019	2010	Change 2010 to 2019 (%)
Births	24,940	25,841	-3.5	28,731	30,287	-5.1	20,388	26,198	-22.2	24,830	32,441	-23.5
Population	2,494,258	2,368,904	5.3	2,578,408	2,392,446	7.8	1,660,381	1,710,714	-2.9	1,595,004	1,780,392	-10.4
Birth Rate (per 1,000 pop.)	10.0	10.9	-8.3	11.1	12.7	-12.0	12.3	15.3	-19.8	15.6	18.2	-14.6
Preterm Live Births (%)	8.4	9.3	-9.7	8.9	9.3	-4.3	9.2	9.5	-3.2	9.6	9.7	-1.0
Low Birth Weight (%)	7.6	8.6	-11.6	8.3	8.6	-3.5	8.5	8.8	-3.4	9.2	8.6	7.0
Body Mass Indicator												
Normal (%)	60.6	63.4	-4.4	51.3	55.1	-6.9	46.5	49.5	-6.1	43.3	46.5	-6.9
Overweight/Obese (%)	34.3	30.3	13.2	43.9	39.3	11.7	48.8	46.0	6.1	52.3	48.4	8.1
C-section (%)	33.7	35.4	-4.8	32.9	33.9	-2.9	32.3	32.5	-0.6	28.8	29.1	-1.0
Multiple Births (%)	3.4	5.3	-35.8	3.2	3.8	-15.8	2.8	3.1	-9.7	3.0	2.8	7.1
Breastfed Exclusively (%)	56.2	43.2	30.1	44.3	34.3	29.2	36.6	30.7	19.2	32.0	28.2	13.5
Late or No Prenatal Care (%)	4.4	4.8	-8.3	7.1	7.6	-6.6	7.8	8.4	-7.1	9.3	8.7	6.9
Foreign-born (%)‡	44.8	45.2	-0.9	59.1	60.0	-1.5	58.1	59.1	-1.7	41.4	44.3	-6.5

*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, 2019

	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	2,676	12.3	167	0.8	4,161	19.1	7,004	32.1
	20-29	41,575	63.2	2,206	3.4	26,630	40.5	70,411	107.0
	30-39	58,990	87.0	4,053	6.0	16,674	24.6	79,717	117.6
	40-49	7,201	13.3	1,100	2.0	2,318	4.3	10,619	19.6
	Total	**110,442**	**13.2**	**7,527**	**4.1**	**49,784**	**27.2**	**167,753**	**91.8**
Racial/Ethnic Group§‖									
Hispanic	15-19	1,540	20.0	61	0.8	1,384	18.0	2,985	38.8
	20-29	14,009	73.4	565	3.0	7,473	39.1	22,047	115.5
	30-39	13,098	71.0	657	3.6	3,822	20.7	17,577	95.3
	40-49	1,571	9.9	191	1.2	433	2.7	2,195	13.8
	Total	**30,218**	**12.5**	**1,474**	**2.8**	**13,112**	**24.6**	**44,804**	**84.1**
Asian and Pacific Islander	15-19	78	2.8	7	0.2	141	5.0	226	8.1
	20-29	6,445	64.3	176	1.8	1,510	15.1	8,131	81.1
	30-39	11,093	97.3	435	3.8	1,299	11.4	12,827	112.5
	40-49	1,109	11.9	95	1.0	238	2.5	1,442	15.4
	Total	**18,725**	**15.2**	**713**	**2.5**	**3,188**	**11.0**	**22,626**	**78.2**
Non-Hispanic White	15-19	300	5.4	22	0.4	262	4.8	584	10.6
	20-29	11,870	56.7	474	2.3	3,075	14.7	15,419	73.7
	30-39	24,095	105.1	1,321	5.8	2,604	11.4	28,020	122.2
	40-49	3,013	19.4	319	2.1	472	3.0	3,804	24.6
	Total	**39,278**	**14.6**	**2,136**	**3.7**	**6,414**	**11.2**	**47,828**	**83.4**
Non-Hispanic Black	15-19	699	13.3	43	0.8	1,732	33.1	2,474	47.2
	20-29	8,533	60.1	482	3.4	9,889	69.7	18,904	133.2
	30-39	9,497	69.4	713	5.2	5,408	39.5	15,618	114.1
	40-49	1,324	10.6	204	1.6	636	5.1	2,164	17.3
	Total	**20,053**	**11.0**	**1,442**	**3.7**	**17,665**	**45.0**	**39,160**	**99.7**
Borough of Residence¶									
Manhattan	15-19	287	7.9	10	0.3	548	15.0	845	23.2
	20-29	3,759	23.6	257	1.6	4,510	28.3	8,526	53.6
	30-39	10,683	69.5	753	4.9	3,003	19.6	14,439	94.0
	40-49	1,489	14.5	208	2.0	456	4.5	2,153	21.0
	Total	**16,218**	**10.0**	**1,228**	**3.1**	**8,517**	**21.2**	**25,963**	**64.7**
Bronx	15-19	842	18.5	25	0.5	1,042	22.9	1,909	41.9
	20-29	8,752	78.8	404	3.6	6,022	54.2	15,178	136.6
	30-39	7,207	68.4	508	4.8	3,460	32.8	11,175	106.0
	40-49	852	9.3	146	1.6	375	4.1	1,373	14.9
	Total	**17,653**	**12.4**	**1,083**	**3.5**	**10,899**	**35.4**	**29,635**	**96.1**
Brooklyn	15-19	828	12.4	59	0.9	1,163	17.5	2,050	30.8
	20-29	14,948	73.7	647	3.2	6,847	33.8	22,442	110.7
	30-39	18,388	83.6	1,096	5.0	4,350	19.8	23,834	108.4
	40-49	2,352	14.2	302	1.8	576	3.5	3,230	19.4
	Total	**36,516**	**14.3**	**2,104**	**3.7**	**12,937**	**22.5**	**51,557**	**89.7**
Queens	15-19	501	9.1	52	0.9	897	16.2	1,450	26.2
	20-29	9,183	59.3	601	3.9	6,024	38.9	15,808	102.2
	30-39	12,293	73.1	969	5.8	3,819	22.7	17,081	101.5
	40-49	1,386	9.3	258	1.7	600	4.0	2,244	15.0
	Total	**23,363**	**10.4**	**1,880**	**4.2**	**11,340**	**25.1**	**36,583**	**80.8**
Staten Island	15-19	114	8.0	10	0.7	141	9.8	265	18.5
	20-29	1,870	61.8	116	3.8	811	26.8	2,797	92.4
	30-39	2,929	94.8	184	6.0	406	13.1	3,519	113.9
	40-49	261	8.3	44	1.4	60	1.9	365	11.6
	Total	**5,174**	**10.9**	**354**	**3.9**	**1,418**	**15.6**	**6,946**	**76.6**

Population data used to calculate rates are 2019 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 age 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	2015	2016	2017	2018	2019
1	Mary	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Isabella	Olivia	Olivia	Emma	Emma	Emma
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Sophia	Sophia	Sophia	Olivia	Isabella	Olivia
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Olivia	Emma/Mia	Emma	Mia	Sophia	Sophia
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Emily	Isabella	Isabella	Sophia	Mia	Mia
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Madison	Leah	Mia	Isabella	Olivia	Isabella
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Mia	Emily	Ava	Ava	Ava	Leah
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Emma	Ava	Emily	Leah	Leah	Ava
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Leah	Chloe	Leah	Emily	Sarah	Chloe
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Sarah	Madison	Sarah	Sarah	Amelia	Amelia
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Chloe	Sarah	Madison	Abigail	Chloe	Charlotte

	Boys												
Rank	1898	1928	1948	1980	1990	2000	2005	2010	2015	2016	2017	2018	2019
1	John	John	Robert	Michael	Michael	Michael	Michael	Jayden	Ethan	Liam	Liam	Liam	Liam
2	William	William	John	David	Christopher	Justin	Daniel	Ethan	Liam	Jacob	Noah	Noah	Noah
3	Charles	Joseph	James	Jason	Jonathan	Christopher	Joshua	Daniel	Noah	Ethan	Jacob	Ethan	Ethan
4	George	James	Michael	Joseph	Anthony	Matthew	David	Jacob	Jacob	Noah	Ethan	Jacob	Jacob
5	Joseph	Richard	William	Christopher	David	Daniel	Justin	David	Jayden	Aiden	David	Aiden	Lucas
6	Edward	Edward	Richard	Anthony	Daniel	Anthony	Matthew	Justin	Matthew	Matthew	Lucas	David	Aiden
7	James	Robert	Joseph	John	Joseph	Joshua	Anthony	Michael	David	Daniel	Matthew	Lucas	Daniel
8	Louis	Thomas	Thomas	Daniel	Matthew	David	Christopher	Matthew	Daniel/ Dylan	Lucas	Jayden	Matthew	Michael
9	Francis	George	Stephen	Robert	John	Joseph	Joseph	Joseph	Aiden	Michael	Aiden	Daniel	David
10	Samuel	Louis	David	James	Andrew	Kevin	Nicholas	Joshua	Michael	Dylan	Daniel	Alexander	Matthew

Table PO 23. Most Popular Baby Names by Sex and Mother's Racial/Ethnic Group, New York City, 2019

	Girls					Boys				
Rank	Overall	Hispanic	NH-Black	NH-White	Asian & P.I.	Overall	Hispanic	NH-Black	NH-White	Asian & P.I.
1	Emma	Isabella	Ava	Chaya	Chloe	Liam	Liam	Noah	David	Ethan
2	Olivia	Emma	Madison	Leah	Olivia	Noah	Noah	Amir	Joseph*	Lucas
3	Sophia	Sophia	Skylar	Esther	Mia	Ethan	Matthew	Liam	Michael*	Aiden
4	Mia	Mia	Riley	Olivia	Emma*	Jacob	Sebastian	Mason	Moshe	Muhammad
5	Isabella	Camila	Amelia	Miriam	Sophia*	Lucas	Dylan	Elijah	Jacob	Jayden
6	Leah	Luna	Olivia	Emma	Amelia	Aiden	Jacob	King	James	Ryan
7	Ava	Valentina	Zuri	Rachel	Charlotte	Daniel	Ethan	Josiah	Jack	Jasper
8	Chloe	Sofia	Isabella	Sarah	Emily	Michael	Lucas	Aiden	Noah	Liam
9	Amelia	Victoria	Fatoumata*	Charlotte	Grace	David	Jayden	Ethan*	Benjamin	Daniel
10	Charlotte	Ava*	Serenity*	Sophia	Isabella	Matthew	Mateo	Jayden*	Henry	Noah
		Olivia*	Zoey*							

* Tied ranks

NH=Non-Hispanic; 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, 2015-2019

	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
2015	121,966	366	3.0	238	2.0	101	0.8	107	0.9	812	6.7
2016	120,702	344	2.8	271	2.2	88	0.7	105	0.9	808	6.7
2017	117,320	376	3.2	235	2.0	93	0.8	99	0.8	803	6.8
2018	114,641	314	2.7	274	2.4	85	0.7	100	0.9	773	6.7
2019	110,693	273	2.5	227	2.1	93	0.8	99	0.9	692	6.3
Woman's Racial/Ethnic Group, 2015-2019											
Puerto Rican	32,488	99	3.0	44	1.4	33	1.0	35	1.1	211	6.5
Hispanic (not Puerto Rican)	132,246	344	2.6	222	1.7	100	0.8	113	0.9	779	5.9
Asian and Pacific Islander	100,151	200	2.0	158	1.6	55	0.5	62	0.6	475	4.7
Non-Hispanic White	201,601	335	1.7	317	1.6	135	0.7	96	0.5	883	4.4
Non-Hispanic Black	109,212	597	5.5	389	3.6	128	1.2	193	1.8	1,307	12.0
Other or Unknown	9,624	98	-	115	-	9	-	11	-	233	-
NEW YORK CITY	**585,322**	**1,673**	**2.9**	**1,245**	**2.1**	**460**	**0.8**	**510**	**0.9**	**3,888**	**6.6**

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

PERINATAL PERIODS OF RISK (PPOR)

Table 2. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk and Community District of Residence, New York City, 2015-2019

	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	**84,531**	**156**	**1.8**	**136**	**1.6**	**58**	**0.7**	**50**	**0.6**	**400**	**4.7**
Battery Park, Tribeca (01)	5,518	7	1.3	10	1.8	3	0.5	1	0.2	21	3.8
Greenwich Village, SOHO (02)	3,682	3	0.8	3	0.8	2	0.5	-	-	8	2.2
Lower East Side (03)	6,127	15	2.4	14	2.3	7	1.1	3	0.5	39	6.4
Chelsea, Clinton (04)	5,046	10	2.0	4	0.8	2	0.4	3	0.6	19	3.8
Midtown Business District (05)	2,900	4	1.4	5	1.7	1	0.3	1	0.3	11	3.8
Murray Hill (06)	6,425	12	1.9	7	1.1	3	0.5	2	0.3	24	3.7
Upper West Side (07)	12,057	5	0.4	28	2.3	7	0.6	4	0.3	44	3.6
Upper East Side (08)	12,699	15	1.2	14	1.1	6	0.5	1	0.1	36	2.8
Manhattanville (09)	5,002	14	2.8	3	0.6	4	0.8	5	1.0	26	5.2
Central Harlem (10)	7,514	27	3.6	17	2.3	11	1.5	12	1.6	67	8.9
East Harlem (11)	7,313	18	2.5	16	2.2	7	1.0	11	1.5	52	7.1
Washington Heights (12)	10,248	26	2.5	15	1.5	5	0.5	7	0.7	53	5.2
BRONX	**95,338**	**373**	**3.9**	**250**	**2.6**	**83**	**0.9**	**132**	**1.4**	**838**	**8.8**
Mott Haven (01)	7,623	34	4.5	24	3.1	9	1.2	12	1.6	79	10.4
Hunts Point (02)	3,995	15	3.8	11	2.8	2	0.5	2	-	30	7.5
Morrisania (03)	7,126	25	3.5	18	2.5	7	1.0	14	2.0	64	9.0
Concourse, Highbridge (04)	11,900	34	2.9	39	3.3	13	1.1	20	1.7	106	8.9
University/Morris Heights (05)	10,782	36	3.3	12	1.1	12	1.1	13	1.2	73	6.8
East Tremont (06)	6,197	22	3.6	24	3.9	6	1.0	14	2.3	66	10.7
Fordham (07)	10,645	48	4.5	25	2.3	6	0.6	6	0.6	85	8.0
Riverdale (08)	5,301	18	3.4	11	2.1	2	0.4	3	0.6	34	6.4
Unionport, Soundview (09)	11,740	48	4.1	31	2.6	10	0.9	24	2.0	113	9.6
Throgs Neck (10)	4,927	24	4.9	17	3.5	2	0.4	4	0.8	47	9.5
Pelham Parkway (11)	6,711	25	3.7	11	1.6	6	0.9	13	1.9	55	8.2
Williamsbridge (12)	8,391	44	5.2	27	3.2	8	1.0	7	0.8	86	10.2
BROOKLYN	**194,653**	**556**	**2.9**	**418**	**2.1**	**154**	**0.8**	**172**	**0.9**	**1300**	**6.7**
Williamsburg, Greenpoint (01)	18,166	27	1.5	37	2.0	12	0.7	17	0.9	93	5.1
Fort Greene, Brooklyn Heights (02)	8,564	15	1.8	16	1.9	3	0.4	5	0.6	39	4.6
Bedford Stuyvesant (03)	11,070	40	3.6	33	3.0	8	0.7	16	1.4	97	8.8
Bushwick (04)	5,908	12	2.0	12	2.0	5	0.8	4	0.7	33	5.6
East New York (05)	13,106	62	4.7	35	2.7	20	1.5	17	1.3	134	10.2
Park Slope (06)	8,308	12	1.4	10	1.2	5	0.6	7	0.8	34	4.1
Sunset Park (07)	11,258	33	2.9	14	1.2	6	0.5	5	0.4	58	5.2
Crown Heights North (08)	6,332	24	3.8	15	2.4	4	0.6	4	0.6	47	7.4
Crown Heights South (09)	7,224	25	3.5	22	3.0	9	1.2	10	1.4	66	9.1
Bay Ridge (10)	8,925	13	1.5	13	1.5	3	0.3	2	0.2	31	3.5
Bensonhurst (11)	13,162	21	1.6	20	1.5	10	0.8	10	0.8	61	4.6
Borough Park (12)	26,044	53	2.0	49	1.9	21	0.8	8	0.3	131	5.0
Coney Island (13)	6,142	13	2.1	11	1.8	5	0.8	6	1.0	35	5.7
Flatbush, Midwood (14)	12,442	49	3.9	18	1.4	6	0.5	9	0.7	82	6.6
Sheepshead Bay (15)	11,242	28	2.5	17	1.5	11	1.0	10	0.9	66	5.9
Brownsville (16)	6,456	36	5.6	22	3.4	6	0.9	14	2.2	78	12.1
East Flatbush (17)	9,268	42	4.5	40	4.3	6	0.6	16	1.7	104	11.2
Canarsie (18)	11,036	51	4.6	34	3.1	14	1.3	12	1.1	111	10.1
QUEENS	**127,044**	**318**	**2.5**	**255**	**2.0**	**74**	**0.6**	**104**	**0.8**	**751**	**5.9**
Astoria, Long Island City (01)	9,616	29	3.0	19	2.0	11	1.1	13	1.4	72	7.5
Sunnyside, Woodside (02)	8,214	12	1.5	14	1.7	2	0.2	3	0.4	31	3.8
Jackson Heights (03)	11,543	23	2.0	21	1.8	4	0.3	9	0.8	57	4.9
Elmhurst, Corona (04)	11,854	25	2.1	19	1.6	8	0.7	4	0.3	56	4.7
Ridgewood, Glendale (05)	9,052	20	2.2	15	1.7	5	0.6	7	0.8	47	5.2
Rego Park, Forest Hills (06)	6,806	12	1.8	8	1.2	4	0.6	3	0.4	27	4.0
Flushing (07)	13,340	28	2.1	21	1.6	2	0.1	15	1.1	66	4.9
Fresh Meadows, Briarwood (08)	8,781	18	2.0	13	1.5	4	0.5	8	0.9	43	4.9
Woodhaven (09)	9,173	31	3.4	25	2.7	6	0.7	4	0.4	66	7.2
Howard Beach (10)	6,352	17	2.7	11	1.7	2	0.3	3	0.5	33	5.2
Bayside (11)	3,160	3	0.9	3	0.9	2	1	3	0.9	11	3.5
Jamaica, St. Albans (12)	14,650	50	3.4	50	3.4	11	0.8	16	1.1	127	8.7
Queens Village (13)	8,059	31	3.8	22	2.7	8	1.0	8	1.0	69	8.6
The Rockaways (14)	6,444	19	2.9	14	2.2	5	0.8	8	1.2	46	7.1
STATEN ISLAND	**26,346**	**68**	**2.6**	**60**	**2.3**	**26**	**1.0**	**18**	**0.7**	**172**	**6.5**
Port Richmond (01)	11,424	35	3.1	38	3.3	14	1.2	11	1.0	98	8.6
Willowbrook, South Beach (02)	7,098	25	3.5	11	1.5	7	1.0	2	0.3	45	6.3
Tottenville (03)	7,681	8	1.0	11	1.4	5	0.7	5	0.7	29	3.8
NEW YORK CITY RESIDENTS	**527,826**	**1,471**	**2.8**	**1,119**	**2.1**	**395**	**0.7**	**476**	**0.9**	**3,461**	**6.6**
NON-RESIDENTS	**57,402**	**175**	**3.0**	**103**	**1.8**	**62**	**1.1**	**31**	**0.5**	**371**	**6.5**
RESIDENCE UNKNOWN	**94**	**27**	**-**	**23**	**-**	**3**	**-**	**3**	**-**	**56**	**-**

*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, 2019

	Cause of Death (ICD-10 Codes)	Total	Male		Female	
			Neonatal (<28 days)	Post-Neonatal	Neonatal (<28 Days)	Post-Neonatal
	Total	**464**	**170**	**94**	**135**	**65**
1	HIV Infection (B20-B24)*	-	-	-	-	-
2	Diseases of the Circulatory System (I00-I99)*	14	1	4	2	7
3	Influenza and Pneumonia (J10-J18)*	2	-	2	-	-
4	Newborn Affected by Maternal Complications of Pregnancy (P01)*	8	2	-	6	-
5	Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)*	10	4	-	6	-
6	Short Gestation and Low Birthweight (P07)*	66	44	6	15	1
7	Intrauterine Hypoxia and Birth Asphyxia (P20-P21)*	5	3	-	2	-
8	Respiratory Distress of Newborn (P22)*	18	9	-	9	-
9	Pulmonary Hemorrhage Originating in the Perinatal Period (P26)*	7	5	-	2	-
10	Atelectasis (P28.0-P28.1)*	3	1	-	2	-
11	Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)†	10	5	2	1	2
12	Cardiovascular Disorders Originating in the Perinatal Period (P29)†	39	20	-	19	-
13	Infections Specific to the Perinatal Period (P35-P39)†	15	4	-	11	-
	Bacterial sepsis of newborn (P36)	15	4	-	11	-
14	Neonatal Hemorrhage (P50-P52, P54)*	7	4	-	3	-
15	Necrotizing Enterocolitis of Newborn (P77)*	11	7	-	4	-
16	Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)	19	13	1	5	-
17	Congenital Malformations, Deformations (Q00-Q99)*	109	36	21	40	12
	Congenital malformations of heart (Q20-Q24)	30	8	9	9	4
18	Sudden Infant Death Syndrome (R95)*	2	-	1	-	1
19	All Other Diseases (Rest of A00-R99)	61	6	29	8	18
20	External Causes (V01-Y89)†	58	6	28	-	24

*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, 2019

	Live Births					Infant Deaths																				
						Total					Early-Neonatal (< 7 days)					Neonatal (< 28 days)					Post-Neonatal (≥ 28 days)				
Characteristics	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.
Total	**110,442**	**30,218**	**39,278**	**20,053**	**18,725**	**464**	**125**	**104**	**173**	**46**	**233**	**69**	**57**	**81**	**17**	**305**	**86**	**73**	**106**	**30**	**159**	**39**	**31**	**67**	**16**
Sex of Child																									
Male	56,516	15,254	20,194	10,167	9,756	264	74	56	97	28	130	37	27	48	13	170	47	37	61	19	94	27	19	36	9
Female	53,926	14,964	19,084	9,886	8,969	200	51	48	76	18	103	32	30	33	4	135	39	36	45	11	65	12	12	31	7
Birthweight at Delivery (Grams)																					-	-	-	-	-
Low birthweight (<2,500)	9,364	2,606	2,337	2,541	1,657	287	74	64	113	28	187	56	46	65	14	233	64	55	83	24	54	10	9	30	4
Very low birthweight (<1,500)	1,568	433	302	577	212	230	56	50	92	24	162	44	37	62	13	197	49	44	76	21	33	7	6	16	3
2,500-4,000	94,619	25,758	34,085	16,537	16,427	130	41	25	44	14	35	11	8	11	3	54	19	13	16	4	76	22	12	28	10
Above 4,000	6,451	1,854	2,852	973	641	5	1	-	3	-	2	-	-	1	-	3	-	-	2	-	2	1	-	1	-
Not stated	8	-	4	2	-	3	-	2	1	-	3	-	2	1	-	3	-	2	1	-	-	-	-	-	-
Unmatched*	-	-	-	-	-	39	9	13	12	4	6	2	1	3	-	12	3	3	4	2	27	6	10	8	2
Gestational Age (Weeks)																					-	-	-	-	-
Preterm (<37)	10,150	3,066	2,671	2,624	1,564	297	74	70	114	30	197	53	48	72	17	246	63	58	90	27	51	11	12	24	3
Very preterm (<32)	1,639	463	316	592	222	225	53	48	93	23	160	42	35	64	13	193	47	41	77	21	32	6	7	16	2
Full-term	100,288	27,152	36,606	17,428	17,161	128	42	21	47	12	30	14	8	6	-	47	20	12	12	1	2	22	9	35	11
Not stated	4	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unmatched*	-	-	-	-	-	39	9	13	12	4	6	2	1	3	-	12	3	3	4	2	27	6	10	8	2
Plurality																					-	-	-	-	-
Singletons	106,810	29,364	37,899	19,271	18,187	379	110	71	147	37	194	65	39	68	14	254	79	52	90	24	125	31	19	57	13
Multiples	3,632	854	1,379	782	538	46	6	20	14	5	33	2	17	10	3	39	4	18	12	4	7	2	2	2	1
Unmatched*	-	-	-	-	-	39	9	13	12	4	6	2	1	3	-	12	3	3	4	2	27	6	10	8	2
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.

Table IM3. Infant Mortality Rate by Mother's Racial/Ethnic Group and Characteristics of Infant, New York City, 2019

	Total					Early-Neonatal (< 7 days)					Neonatal (< 28 days)					Post-Neonatal (≥ 28 days)				
Characteristics	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.	Total	Hispanic	NH-White	NH-Black	Asian & P.I.
Total	**4.2**	**4.1**	**2.6**	**8.6**	**2.5**	**2.1**	**2.3**	**1.5**	**4.0**	**0.9**	**2.8**	**2.8**	**1.9**	**5.3**	**1.6**	**1.4**	**1.3**	**0.8**	**3.3**	**0.9**
Sex of Child																				
Male	4.7	4.9	2.8	9.5	2.9	2.3	2.4	1.3	4.7	1.3	3.0	3.1	1.8	6.0	1.9	1.7	1.8	0.9	3.5	0.9
Female	3.7	3.4	2.5	7.7	2.0	1.9	2.1	1.6	3.3	0.4	2.5	2.6	1.9	4.6	1.2	1.2	0.8	0.6	3.1	0.8
Birthweight at Delivery (Grams)																				
Low birthweight (<2,500)	30.6	28.4	27.4	44.5	16.9	20.0	21.5	19.7	25.6	8.4	24.9	24.6	23.5	32.7	14.5	5.8	3.8	3.9	11.8	2.4
Very low birthweight (<1,500)	146.7	129.3	165.6	159.4	113.2	103.3	101.6	122.5	107.5	61.3	125.6	113.2	145.7	131.7	99.1	21.0	16.2	19.9	27.7	14.2
2,500-4,000	1.4	1.6	0.7	2.7	0.9	0.4	0.4	0.2	0.7	0.2	0.6	0.7	0.4	1.0	0.2	0.8	0.9	0.4	1.7	0.6
Above 4,000	0.8	0.5	0.0	3.1	0.0	0.3	0.0	0.0	1.0	-	0.5	0.0	-	2.1	0.0	0.3	0.5	0.0	1.0	-
Gestational Age (Weeks)																				
Preterm (<37)	29.3	24.1	26.2	43.4	19.2	19.4	17.3	18.0	27.4	10.9	24.2	20.5	21.7	34.3	17.3	5.0	3.6	4.5	9.1	1.9
Very preterm (<32)	137.3	114.5	151.9	157.1	103.6	97.6	90.7	110.8	108.1	58.6	117.8	101.5	129.7	130.1	94.6	19.5	13.0	22.2	27.0	9.0
Full-term	1.3	1.5	0.6	2.7	0.7	0.3	0.5	0.2	0.3	0.0	0.5	0.7	0.3	0.7	0.1	0.0	0.8	0.2	2.0	0.6
Plurality																				
Singletons	3.5	3.7	1.9	7.6	2.0	1.8	2.2	1.0	3.5	0.8	2.4	2.7	1.4	4.7	1.3	1.2	1.1	0.5	3.0	0.7
Multiples	12.7	7.0	14.5	17.9	9.3	9.1	2.3	12.3	12.8	5.6	10.7	4.7	13.1	15.3	7.4	1.9	2.3	1.5	2.6	1.9

INFANT MORTALITY

Table IM4. Live Births and Infant Mortality, Overall and by Mother's Racial/Ethnic Group, New York City, 2015-2019

Mother's Racial/Ethnic Group	2015	2016	2017	2018	2019
Live Births, Total	**121,673**	**120,367**	**117,013**	**114,296**	**110,442**
Puerto Rican	7,561	7,159	6,307	5,995	5,422
Hispanic (not Puerto Rican)	27,994	26,915	26,553	25,711	24,796
Asian and Pacific Islander	20,535	21,566	20,110	19,024	18,725
Non-Hispanic White	40,607	40,633	40,345	40,327	39,278
Non-Hispanic Black	23,116	22,465	21,992	21,145	20,053
Other or Unknown	1,860	1,629	1,706	2,094	2,168
Infant Deaths (< 1 year), Total	**526**	**491**	**500**	**446**	**464**
Puerto Rican	46	24	40	32	28
Hispanic (not Puerto Rican)	119	102	115	87	97
Asian and Pacific Islander	54	62	69	51	46
Non-Hispanic White	110	105	95	94	104
Non-Hispanic Black	186	180	171	166	173
Other or Unknown	11	18	10	16	16
Infant Mortality Rate, Total	**4.3**	**4.1**	**4.3**	**3.9**	**4.2**
Puerto Rican	6.1	3.4	6.3	5.3	5.2
Hispanic (not Puerto Rican)	4.3	3.8	4.3	3.4	3.9
Asian and Pacific Islander	2.6	2.9	3.4	2.7	2.5
Non-Hispanic White	2.7	2.6	2.4	2.3	2.6
Non-Hispanic Black	8.0	8.0	7.8	7.9	8.6
Neonatal Deaths (< 28 days), Total	**342**	**312**	**344**	**278**	**305**
Puerto Rican	34	17	26	21	15
Hispanic (not Puerto Rican)	80	65	76	47	71
Asian and Pacific Islander	33	43	52	33	30
Non-Hispanic White	75	65	66	69	73
Non-Hispanic Black	112	109	121	95	106
Neonatal Mortality Rate, Total	**2.8**	**2.6**	**2.9**	**2.4**	**2.8**
Puerto Rican	4.5	2.4	4.1	3.5	2.8
Hispanic (not Puerto Rican)	2.9	2.4	2.9	1.8	2.9
Asian and Pacific Islander	1.6	2.0	2.6	1.7	1.6
Non-Hispanic White	1.8	1.6	1.6	1.7	1.9
Non-Hispanic Black	4.8	4.9	5.5	4.5	5.3

INFANT MORTALITY

Table IM5. Infant Mortality Rate by Mother's Birthplace*, New York City, 2013-2019

Birthplace†	2013-2015	2014-2016	2015-2017	2016-2018	2017-2019
New York City	**4.4**	**4.2**	**4.2**	**4.1**	**4.1**
United States‡	**4.8**	**4.5**	**4.4**	**4.2**	**4.3**
United States (excluding Puerto Rico)	4.8	4.5	4.4	4.1	4.3
Puerto Rico	4.8	5.5	6.0	5.2	3.8
Haiti	7.4	7.0	7.6	7.3	7.8
Jamaica	6.1	6.8	6.5	7.6	7.0
El Salvador	5.0	5.5	4.1	6.0	6.9
Ghana	3.3	3.8	6.3	5.9	5.5
Yemen Arab Republic	2.7	3.8	4.7	4.9	5.1
Philippines	1.9	1.9	2.4	4.5	4.8
Nigeria	2.8	0.9	1.6	3.1	4.6
Guyana	4.8	4.3	4.8	4.5	4.5
Bangladesh	3.6	3.1	4.5	4.2	4.3
Pakistan	5.5	6.7	6.4	5.1	4.2
Israel	2.6	2.7	1.2	2.8	3.7
Trinidad and Tobago	6.7	7.2	5.2	3.6	3.6
Mexico	2.8	2.4	3.0	3.1	3.5
Honduras	4.4	3.5	2.2	2.2	3.4
Guatemala	2.0	2.4	3.1	3.1	3.4
Ecuador	3.7	3.8	3.8	3.0	3.4
Egypt	3.5	3.4	3.8	2.6	2.9
Dominican Republic	4.1	3.9	3.7	2.9	2.8
India	3.2	2.8	2.4	2.6	2.7
Colombia	3.4	4.6	5.0	3.9	2.3
Uzbekistan	1.8	1.1	1.8	2.2	2.2
Poland	1.4	1.5	2.1	1.1	1.9
China	1.5	1.6	1.7	1.8	1.9
Russia	1.0	2.0	2.0	2.8	1.8
United Kingdom	1.3	0.6	1.3	0.7	1.4
Ukraine	0.4	1.1	1.5	2.0	1.3
Korea	5.0	2.6	3.3	1.6	1.2
Canada	4.1	3.0	2.6	1.5	1.0
Japan	2.0	2.8	2.9	2.4	0.8

*The infant mortality rate is listed only for countries with 500 or more live births in any year from 2013-2019.
†Foreign countries are listed according to the descending order of infant mortality rates in the most current period.
‡See Technical Notes: Geographical Units, Birthplace Presentation.

INFANT MORTALITY

Table IM6. Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2015–2019

CD		2015-2017*		2016-2018*		2017-2019*	
		Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate
CD	**NEW YORK CITY**	**4.2**	**2.8**	**4.1**	**2.7**	**4.1**	**2.7**
	MANHATTAN	**3.1**	**2.1**	**2.6**	**1.8**	**2.7**	**1.9**
101	Battery Park, Tribeca	2.4	1.8	1.5	0.9	1.8	1.2
102	Greenwich Village, SOHO	0.9	0.9	0.9	0.9	.	.
103	Lower East Side	3.9	2.8	3.8	3.0	3.2	2.3
104	Chelsea, Clinton	1.3	1.0	1.3	1.0	2.3	1.7
105	Midtown Business District	0.6	0.6	1.8	1.2	3.4	1.7
106	Murray Hill	2.4	1.6	2.8	2.1	2.6	1.8
107	Upper West Side	1.4	0.9	1.0	0.8	1.4	1.1
108	Upper East Side	2.1	1.4	1.8	1.3	1.2	1.2
109	Manhattanville	5.7	3.8	4.4	3.3	3.5	2.4
110	Central Harlem	6.5	3.7	4.0	2.0	5.7	3.6
111	East Harlem	5.1	2.9	5.0	2.5	5.9	3.7
112	Washington Heights	4.0	3.1	3.3	2.5	2.4	1.7
	BRONX	**5.0**	**3.2**	**4.8**	**2.8**	**5.2**	**3.2**
201	Mott Haven	4.8	2.3	5.7	2.6	6.5	3.5
202	Hunts Point	2.9	2.5	2.1	1.2	4.3	2.6
203	Morrisania	5.1	2.8	5.4	3.0	5.0	3.1
204	Concourse, Highbridge	4.7	2.8	5.2	2.9	5.3	2.8
205	University/Morris Heights	5.5	4.0	4.6	3.1	4.3	2.7
206	East Tremont	6.3	4.7	7.0	4.9	8.4	5.1
207	Fordham	4.1	2.9	4.1	3.0	3.8	3.0
208	Riverdale	3.7	2.1	2.9	1.6	2.9	1.9
209	Unionport, Soundview	6.4	3.4	5.9	2.9	5.8	2.9
210	Throgs Neck	5.0	3.3	3.0	1.7	3.5	2.5
211	Pelham Parkway	5.0	2.5	3.4	1.0	4.7	2.2
212	Williamsbridge	5.5	4.1	5.7	4.3	7.1	6.1
	BROOKLYN	**3.6**	**2.3**	**3.5**	**2.3**	**3.5**	**2.2**
301	Williamsburg, Greenpoint	3.2	1.6	2.6	1.4	1.9	0.9
302	Fort Greene, Brooklyn Heights	2.8	1.6	1.6	0.6	1.9	1.2
303	Bedford Stuyvesant	4.6	2.2	4.3	2.7	4.2	2.3
304	Bushwick	2.1	0.8	1.4	0.8	2.7	1.5
305	East New York	5.7	4.5	6.9	4.8	7.5	4.9
306	Park Slope	2.4	1.2	2.8	1.8	2.1	1.2
307	Sunset Park	2.7	1.9	2.5	1.6	2.5	1.8
308	Crown Heights North	4.7	3.4	4.4	3.4	3.6	2.5
309	Crown Heights South	4.1	2.3	5.9	3.7	6.1	4.2
310	Bay Ridge	0.9	0.7	1.7	1.1	1.8	1.0
311	Bensonhurst	3.0	1.7	2.8	2.1	2.6	2.3
312	Borough Park	1.9	1.5	1.5	1.2	2.1	1.5
313	Coney Island	3.7	2.9	3.6	2.2	4.0	2.0
314	Flatbush, Midwood	4.4	3.0	3.8	2.8	3.2	2.1
315	Sheepshead Bay	2.7	1.5	2.7	1.5	3.7	2.5
316	Brownsville	6.0	3.8	6.3	3.4	7.3	3.8
317	East Flatbush	6.7	4.0	5.6	3.4	5.6	3.2
318	Canarsie	6.4	4.3	6.4	3.9	5.1	2.8
	QUEENS	**4.2**	**2.9**	**4.1**	**2.8**	**3.9**	**2.6**
401	Astoria, Long Island City	6.7	5.0	6.0	3.8	4.8	2.7
402	Sunnyside, Woodside	3.4	2.8	2.8	2.4	2.1	1.9
403	Jackson Heights	3.3	2.3	2.6	1.8	2.3	1.7
404	Elmhurst, Corona	3.7	2.5	3.1	2.3	2.9	2.3
405	Ridgewood, Glendale	2.8	1.8	3.2	1.7	3.3	2.0
406	Rego Park, Forest Hills	2.4	1.7	1.7	1.2	2.3	1.5
407	Flushing	3.4	1.8	3.6	1.9	3.5	2.0
408	Fresh Meadows, Briarwood	3.1	2.2	3.2	2.2	3.7	2.4
409	Woodhaven	4.2	3.4	3.8	3.0	2.8	1.5
410	Howard Beach	4.7	3.6	4.7	3.9	2.7	2.1
411	Bayside	3.9	2.4	4.7	3.1	6.4	4.6
412	Jamaica, St. Albans	5.9	3.8	6.0	3.8	5.2	3.8
413	Queens Village	6.7	4.6	8.1	5.7	9.3	6.8
414	The Rockaways	4.6	3.1	4.4	2.1	4.7	2.4
	STATEN ISLAND	**4.5**	**3.3**	**4.4**	**3.3**	**4.6**	**3.5**
501	Port Richmond	5.4	3.9	5.3	3.8	5.8	4.2
502	Willowbrook, South Beach	5.1	3.9	5.2	4.2	4.8	4.3
503	Tottenville	2.6	2.0	2.4	1.7	2.6	1.9

*Due to instability in the infant mortality rates by community district, rates are presented in rolling three-year averages.
†Neonatal infants are those less than 28 days old.

INFANT MORTALITY

Table IM7. Live Births and Infant Mortality Rate by Characteristics of Mother and Infant, New York City, 2019

	Live Births		Infant Mortality Rate (IMR) Per 1,000 Live Births					
			All		Neonatal*		Post-Neonatal*	
Characteristics	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	110,442	100.0	464	4.2	305	2.8	159	1.4
Race/Ethnicity								
Puerto Rican	5,422	4.9	28	5.2	15	2.8	13	2.4
Hispanic not of Puerto Rican ancestry	24,796	22.5	97	3.9	71	2.9	26	1.0
Asian and Pacific Islander	18,725	17.0	46	2.5	30	1.6	16	0.9
Non-Hispanic White	39,278	35.6	104	2.6	73	1.9	31	0.8
Non-Hispanic Black	20,053	18.2	173	8.6	106	5.3	67	3.3
Other and Unknown	2,168	2.0	16	-	10	-	6	-
Borough of Residence								
Manhattan	16,218	14.7	49	3.0	36	2.2	13	0.8
Bronx	17,653	16.0	99	5.6	60	3.4	39	2.2
Brooklyn	36,516	33.1	136	3.7	85	2.3	51	1.4
Queens	23,363	21.2	77	3.3	52	2.2	25	1.1
Staten Island	5,174	4.7	18	3.5	13	2.5	5	1.0
Non-NYC residents	11,514	10.4	83	7.2	58	5.0	25	2.2
Unknown	4	0.0	2	-	1	-	1	-
Age of Mother								
Age <18	657	0.6	5	7.6	3	4.6	2	3.0
Age 18-19	2,019	1.8	13	6.4	7	3.5	6	3.0
Age 20-29	41,575	37.6	166	4.0	104	2.5	62	1.5
Age 30-39	58,990	53.4	195	3.3	144	2.4	51	0.9
Age ≥40	7,201	6.5	46	6.4	35	4.9	11	1.5
Age unknown	-	-	-	-	-	-	-	-
Unmatched†	-	-	39	-	12	-	27	-
Mother's Education								
11th grade or less/12th grade, no diploma	16,317	14.8	96	5.9	64	3.9	32	2.0
High school graduate or GED	24,821	22.5	117	4.7	80	3.2	37	1.5
Some college/associate degree	22,960	20.8	118	5.1	80	3.5	38	1.7
Bachelor's degree	25,082	22.7	46	1.8	33	1.3	13	0.5
Master's degree or higher	20,702	18.7	36	1.7	26	1.3	10	0.5
Mother's education unknown	560	0.5	12	-	10	-	2	-
Unmatched†	-	-	39	-	12	-	27	-
Marital Status of Mother‡								
Not married	39,192	35.5	218	5.6	152	3.9	66	1.7
Married	71,250	64.5	207	2.9	141	2.0	66	0.9
Unmatched†	-	-	39	-	12	-	27	-
Mother's Birthplace§								
US born, including territories	55,852	50.6	247	4.4	163	2.9	84	1.5
Foreign-born	54,498	49.3	171	3.1	124	2.3	47	0.9
Birthplace unknown	92	0.1	7	-	6	-	1	-
Unmatched†	-	-	39	-	12	-	27	-
Primary Payer for This Birth								
Medicaid/Family Plus/Child PlusB/Other Govt	61,758	55.9	282	4.6	187	3.0	95	1.5
Other	47,743	43.2	137	2.9	102	2.1	35	0.7
Coverage unknown	941	0.9	6	-	4	-	2	-
Unmatched†	-	-	39	-	12	-	27	-
Plurality								
Singletons	106,810	96.7	379	3.5	254	2.4	125	1.2
Multiples	3,632	3.3	46	12.7	39	10.7	7	1.9
Unmatched†	-	-	39	-	12	-	27	-
First Prenatal Care Visit								
No prenatal care	938	0.8	19	20.3	10	10.7	9	9.6
First Trimester (1-3 months)	82,280	74.5	228	2.8	165	2.0	63	0.8
Second Trimester (4-6 months)	17,933	16.2	110	6.1	74	4.1	36	2.0
Third Trimester (7-9 months)	6,378	5.8	26	4.1	14	2.2	12	1.9
Prenatal care unknown	2,913	2.6	42	-	30	-	12	-
Unmatched†	-	-	39	-	12	-	27	-
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI<18.5)	5,207	4.7	16	3.1	9	1.7	7	1.3
Normal weight (18.5≤BMI<25)	56,354	51.0	148	2.6	105	1.9	43	0.8
Overweight (25≤BMI<30)	27,807	25.2	122	4.4	82	2.9	40	1.4
Obese (BMI≥30)	20,721	18.8	133	6.4	93	4.5	40	1.9
Pre-pregnancy BMI unknown	353	0.3	6	-	4	-	2	-
Unmatched†	-	-	39	-	12	-	27	-
Birthweight								
Very low birthweight	1,568	1.4	230	146.7	197	125.6	33	21.0
Low birthweight	7,796	7.1	57	7.3	36	4.6	21	2.7
Normal birthweight	101,070	91.5	135	1.3	57	0.6	78	0.8
Birthweight unknown	8	0.0	3	-	3	-	-	-
Unmatched†	-	-	39	-	12	-	27	-

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

MORTALITY

Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2019

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	**54,559**	**9,411**	**9,278**	**15,222**	**12,516**	**3,620**	**4,328**	**184**	**27,673**	**26,886**	
Natural Causes	**50,787**	**8,736**	**8,520**	**14,290**	**11,760**	**3,393**	**3,976**	**112**	**24,947**	**25,840**	
1.* **Tuberculosis (A16-A19)**	**24**	**2**	**1**	**9**	**8**	**1**	**2**	**1**	**16**	**8**	**0.88**
Respiratory tuberculosis (A16)	19	2	1	7	6	1	2	-	13	6	0.94
2.* **Septicemia (A40-A41)**	**464**	**72**	**118**	**128**	**86**	**7**	**51**	**2**	**244**	**220**	**1.19**
3.* **Viral Hepatitis (B15-B19)**	**139**	**14**	**33**	**47**	**25**	**2**	**17**	**1**	**97**	**42**	**0.71**
4.* **Human Immunodeficiency Virus (HIV) Disease (B20-B24)**	**340**	**55**	**103**	**108**	**43**	**10**	**16**	**5**	**225**	**115**	**1.08**
5. **All Other Infective and Parasitic Diseases (Rest of A01-B99)**	**369**	**72**	**76**	**92**	**76**	**25**	**27**	**1**	**155**	**214**	
6.* **Malignant Neoplasms (C00-C97)**	**12,448**	**2,208**	**1,881**	**3,210**	**2,730**	**815**	**1,597**	**7**	**6,163**	**6,285**	**1.01**
Lip, oral cavity, and pharynx (C00-C14)	210	31	40	53	43	10	33	-	151	59	0.96
Esophagus (C15)	239	51	35	48	54	11	40	-	179	60	0.99
Stomach (C16)	447	78	58	136	120	23	32	-	262	185	1.01
Colon, rectum, and anus (C18-C21)	1,127	180	184	322	261	65	112	3	594	533	1.00
Liver and intrahepatic bile ducts (C22)	671	116	115	174	146	40	80	-	420	251	0.96
Pancreas (C25)	1,028	179	141	255	232	77	144	-	483	545	1.00
Larynx (C32)	78	10	15	16	22	6	9	-	68	10	1.01
Trachea, bronchus, and lung (C33-C34)	2,167	406	324	555	467	197	216	2	1,133	1,034	0.98
Melanoma of skin (C43)	92	20	5	21	19	9	18	-	61	31	0.95
Mesothelioma (C45)	38	5	6	9	7	5	6	-	26	12	
Breast (C50)	1,055	185	155	320	218	61	116	-	6	1,049	1.01
Cervix uteri (C53)	93	16	23	27	13	3	11	-	-	93	1.00
Corpus uteri and uterus, part unspecified (C54-C55)	422	57	76	119	100	20	50	-	-	422	1.02
Ovary (C56)	347	81	38	85	77	24	42	-	-	347	0.99
Prostate (C61)	684	132	122	180	154	34	62	-	684	-	1.01
Kidney and renal pelvis (C64-C65)	220	31	36	56	45	16	36	-	139	81	1.00
Bladder (C67)	319	64	37	79	76	24	39	-	222	97	1.00
Meninges, brain, and other parts of central nervous system (C70-C72)	329	66	46	81	59	23	54	-	176	153	0.98
Lymphoid, hematopoietic and related tissues (C81-C96)	1,334	204	210	299	259	72	289	1	767	567	1.00
Hodgkin's disease (C81)	26	2	5	5	3	2	9	-	16	10	1.00
Non-Hodgkin's lymphoma (C82-C85)	462	65	61	118	109	21	88	-	283	179	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90)	281	48	57	71	48	12	45	-	146	135	1.04
Leukemia (C91-C95)	561	89	87	102	99	37	146	1	319	242	1.01
7.* **In Situ or Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior (D00-D48)**	**264**	**49**	**32**	**60**	**53**	**15**	**55**	**-**	**137**	**127**	**1.63**
8.* **Anemias (D50-D64)**	**56**	**12**	**15**	**12**	**8**	**3**	**6**	**-**	**23**	**33**	**0.94**
9.* **Diabetes Mellitus (E10-E14)**	**1,894**	**245**	**400**	**611**	**430**	**130**	**76**	**2**	**992**	**902**	**1.02**
10.† **Mental and Behavioral Disorders Due to Use of Alcohol (F10)**	**328**	**47**	**66**	**95**	**76**	**17**	**12**	**15**	**254**	**74**	
11. **Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco (F11-F16, F18-F19) ‡**	**90**	**17**	**24**	**21**	**6**	**6**	**10**	**6**	**60**	**30**	
12. **Diseases of Nervous System (G00-G98)**	**2,569**	**603**	**425**	**558**	**688**	**184**	**110**	**1**	**1,024**	**1,545**	
* Meningitis (G00,G03)	12	1	4	4	1	.	2	-	8	4	1.01
* Parkinson's disease (G20-G21)	425	114	70	77	116	29	19	-	243	182	1.01
* Alzheimer's disease (G30)	1,141	268	236	279	265	46	46	1	339	802	1.58
13. **Major Cardiovascular Diseases (I00-I78)**	**21,430**	**3,356**	**3,476**	**6,500**	**5,307**	**1,594**	**1,146**	**51**	**10,542**	**10,888**	**1.00**
* **Diseases of heart (I00-I09, I11, I13, I20-I51)**	**17,821**	**2,732**	**2,753**	**5,553**	**4,439**	**1,434**	**866**	**44**	**8,961**	**8,860**	**0.99**
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	45	5	9	9	9	1	12	-	18	27	0.88
Hypertensive heart disease (I11)	2,291	387	372	813	466	158	86	9	1,112	1,179	0.80
Hypertensive heart and renal disease (I13)	172	29	41	60	21	11	9	1	94	78	1.13
Chronic ischemic heart disease (I20, I25)	11,653	1,661	1,725	3,529	3,183	1,011	521	23	5,943	5,710	1.01
Acute myocardial infarction (I21-I22)	1,878	250	303	665	392	167	97	4	962	916	0.99
Cardiomyopathy (I42)	125	20	28	37	21	5	14	-	79	46	

Table continued on following page

MORTALITY

Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2019 [CONTINUED]

	Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	Borough of Residence							Sex		ICD-10/ICD-9 Comparability Ratio
			Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Unknown	Male	Female	
	Heart failure (I50)	**437**	**92**	**82**	**129**	**94**	**16**	**22**	**2**	**217**	**220**	**1.04**
*	Essential hypertension and hypertensive renal disease (I10, I12, I15)	1,326	251	293	339	312	58	72	1	574	752	1.12
*	Cerebrovascular diseases (I60-I69)	1,889	307	364	513	460	66	175	4	802	1,087	1.05
*	Atherosclerosis (I70)	134	14	19	22	51	21	7	-	56	78	0.97
*	Aortic aneurysm and dissection (I71)	143	24	26	35	29	9	18	2	100	43	1.00
14.*	**Influenza and Pneumonia (J09-J18)**	**1,624**	**238**	**355**	**489**	**395**	**73**	**72**	**2**	**851**	**773**	**0.70**
	H1N1 Flu (J09)	3	-	1	1	-	1	-	.	1	2	
15.*	**Chronic Lower Respiratory Diseases (J40-J47)**	**1,814**	**329**	**338**	**473**	**393**	**163**	**115**	**3**	**859**	**955**	**1.04**
	Emphysema (J43)	86	14	17	27	15	5	7	1	45	41	0.96
	Asthma (J45-J46)	172	35	51	47	18	6	15	-	75	97	0.89
16.	**Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)**	**0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	
17.*	**Pneumonitis Due to Solids and Liquids (J69)**	**127**	**19**	**21**	**44**	**31**	**4**	**8**	**-**	**65**	**62**	**1.10**
18.*	**Peptic Ulcer (K25-K28)**	**106**	**23**	**17**	**26**	**31**	**6**	**3**	**-**	**53**	**53**	**0.97**
19.*	**Chronic Liver Disease and Cirrhosis (K70, K73-K74)**	**546**	**65**	**113**	**131**	**129**	**33**	**68**	**7**	**376**	**170**	**1.03**
	Alcoholic liver disease (K70)	400	44	76	93	98	26	57	6	295	105	1.00
20.*	**Cholelithiasis and Other Disorders of Gallbladder (K80-K82)**	**62**	**18**	**8**	**17**	**11**	**5**	**3**	**-**	**26**	**36**	**0.96**
21.*	**Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)**	**538**	**101**	**80**	**193**	**102**	**24**	**36**	**2**	**290**	**248**	**1.26**
	Renal failure (N17-N19)	520	98	78	185	98	24	35	2	277	243	1.33
22.*	**Pregnancy, Childbirth, and the Puerperium (O00-O99)**	**43**	**5**	**9**	**15**	**9**	**3**	**2**	**-**	**-**	**43**	**1.14**
	Maternal causes (A34, O00-O95, O98-O99)§	21	4	4	6	5	1	1	-	-	21	
23.*	**Certain Conditions Originating in the Perinatal Period (P00-P96)**	**222**	**34**	**38**	**68**	**36**	**12**	**34**	**-**	**131**	**91**	**1.08**
24.*	**Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)**	**239**	**28**	**49**	**59**	**37**	**9**	**57**	**-**	**133**	**106**	**0.90**
25.	**Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)**	**374**	**111**	**45**	**97**	**63**	**21**	**37**	**-**	**145**	**229**	**0.98**
26.	**Sudden Infant Death Syndrome (R95)**	**2**	**1**	**-**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1.06**
	Pending final determination (R99)	2	-	-	-	2	-	-	-	-	2	
27.	**All Other Natural Causes (Rest of A00-R99)**	**4,675**	**1,012**	**797**	**1,226**	**987**	**231**	**416**	**6**	**2,085**	**2,590**	
External Causes		**3,772**	**675**	**758**	**932**	**756**	**227**	**352**	**72**	**2,726**	**1,046**	
28.	**Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)**	**216**	**24**	**52**	**64**	**39**	**16**	**21**	**.**	**209**	**7**	**1.00**
29.	**Accidents (V01-X59,Y85-Y86)**	**2,540**	**463**	**550**	**582**	**486**	**166**	**245**	**48**	**1,797**	**743**	**1.03**
	Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) ‡	1,466	282	397	293	224	106	135	29	1,129	337	**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) ‡**	**1,556**	**299**	**421**	**314**	**230**	**112**	**145**	**35**	**1,189**	**367**	
†	**Accidents except poisoning by psychoactive substance use**	**1,074**	**181**	**153**	**289**	**262**	**60**	**110**	**19**	**668**	**406**	
	Motor vehicle accidents ||	233	25	26	80	56	13	29	4	159	74	**0.95**
	Accidental falls (W00-W19)	531	100	83	127	136	29	51	5	302	229	**0.77**
30.*	**Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)**	**541**	**123**	**63**	**141**	**136**	**28**	**45**	**5**	**391**	**150**	**1.00**
31.*	**Assault (Homicide) (U01-U02, X85-Y09, Y87.1)**	**321**	**35**	**83**	**86**	**65**	**19**	**30**	**3**	**263**	**58**	**1.00**
32.*	**Legal Intervention (Y35, Y89.0)**	**7**	**2**	**1**	**2**	**1**	**1**	**-**	**-**	**7**	**-**	**0.94**
33.	**Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)**	**313**	**48**	**50**	**104**	**59**	**10**	**27**	**15**	**244**	**69**	**0.99**
34.*	**Complications of Medical and Surgical Care (Y40-Y84, Y88)**	**50**	**4**	**11**	**17**	**9**	**3**	**5**	**1**	**24**	**26**	**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, 2019

	All						Hispanic						Non-Hispanic White						Non-Hispanic 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	**54,559**	**6.5**	**27,673**	**7.0**	**26,886**	**6.2**	**11,260**	**4.6**	**5,844**	**5.0**	**5,416**	**4.3**	**22,635**	**8.4**	**11,479**	**8.8**	**11,156**	**8.1**	**14,713**	**8.1**	**7,054**	**8.5**	**7,659**	**7.7**	**4,598**	**3.7**	**2,501**	**4.3**	**2,097**	**3.2**	**1,353**	**795**	**558**
Age-Adjusted		**5.4**		**6.7**		**4.5**		**4.9**		**6.1**		**3.9**		**5.5**		**6.7**		**4.5**		**6.8**		**8.5**		**5.6**		**3.3**		**4.1**		**2.7**			
Under 5	538	1.0	308	1.1	230	0.9	130	0.7	73	0.8	57	0.7	133	0.9	71	0.9	62	0.8	182	1.7	106	2.0	76	1.4	47	0.7	30	0.9	17	0.5	46	28	18
5-9	60	0.1	29	0.1	31	0.1	17	0.1	4	0.0	13	0.2	10	0.1	5	0.1	5	0.1	27	0.3	19	0.4	8	0.2	5	0.1	1	0.0	4	0	1	.	1
10-14	62	0.1	32	0.1	30	0.1	24	0.2	14	0.2	10	0.1	12	0.1	5	0.1	7	0.1	19	0.2	9	0.2	10	0.2	6	0.1	4	0.1	2	0.1	1	.	1
15-19	120	0.3	84	0.4	36	0.2	27	0.2	20	0.3	7	0.1	28	0.3	20	0.4	8	0.1	47	0.5	31	0.6	16	0.3	13	0.2	9	0.3	4	0.1	5	4	1
20-24	306	0.6	218	0.9	88	0.3	94	0.6	63	0.7	31	0.4	80	0.6	55	0.8	25	0.3	98	0.8	73	1.3	25	0.4	28	0.4	22	0.6	6	0.2	6	5	1
25-29	489	0.6	353	1.0	136	0.3	152	0.7	120	1.1	32	0.3	131	0.5	84	0.7	47	0.4	152	1.0	113	1.5	39	0.5	46	0.4	32	0.6	14	0.2	8	4	4
30-34	650	0.9	453	1.3	197	0.5	203	1.0	149	1.5	54	0.6	185	0.7	140	1.1	45	0.3	187	1.3	120	1.8	67	0.9	54	0.5	28	0.5	26	0.4	21	16	5
35-39	719	1.2	485	1.6	234	0.8	218	1.2	149	1.7	69	0.8	209	1.0	141	1.4	68	0.7	227	1.9	148	2.7	79	1.2	53	0.5	37	0.8	16	0.3	12	10	2
40-44	900	1.7	612	2.4	288	1.1	280	1.8	196	2.5	84	1.0	224	1.4	170	2.0	54	0.7	290	2.6	178	3.6	112	1.8	70	0.8	43	1.1	27	0.6	36	25	11
45-49	1,320	2.6	819	3.3	501	1.9	372	2.4	246	3.3	126	1.6	338	2.2	227	2.8	111	1.5	443	3.9	261	5.3	182	2.9	123	1.4	60	1.5	63	1.4	44	25	19
50-54	2,133	4.2	1,299	5.3	834	3.1	556	3.7	366	5.2	190	2.4	610	4.0	385	4.9	225	3.1	769	6.2	421	7.7	348	5.0	128	1.6	78	2.0	50	1.2	70	49	21
55-59	3,177	6.1	1,998	8.2	1,179	4.3	763	5.5	510	8.0	253	3.4	906	5.7	594	7.3	312	4.0	1,162	8.9	673	11.7	489	6.6	215	2.6	131	3.3	84	1.9	131	90	41
60-64	4,255	8.9	2,564	11.6	1,691	6.5	899	7.6	549	10.5	350	5.3	1,344	8.4	856	11.0	488	6.0	1,528	13.1	854	17.0	674	10.1	339	4.4	213	5.7	126	3.1	145	92	53
65-69	4,930	12.4	2,897	16.2	2,033	9.2	1,024	11.1	580	14.8	444	8.4	1,744	11.7	1,090	15.6	654	8.2	1,602	17.7	859	22.9	743	14.0	434	7.0	284	9.6	150	4.6	126	84	42
70-74	5,398	16.9	3,031	22.1	2,367	13.0	1,068	15.0	591	20.2	477	11.3	2,223	17.0	1,326	22.4	897	12.5	1,491	21.5	742	27.9	749	17.5	439	9.9	267	12.9	172	7.3	177	105	72
75-79	5,818	26.0	3,042	33.5	2,776	20.9	1,219	23.8	638	32.1	581	18.5	2,376	26.2	1,272	32.5	1,104	21.4	1,594	31.3	766	42.1	828	25.3	490	17.3	285	22.4	205	13.2	139	81	58
80-84	6,524	41.0	3,178	51.2	3,346	34.5	1,378	38.8	628	48.2	750	33.4	2,770	41.0	1,439	51.5	1,331	33.7	1,633	47.7	683	59.1	950	41.9	625	30.6	356	39.5	269	23.6	118	72	46
≥85	17,160	95.9	6,271	103.6	10,889	92.0	2,836	83.3	948	88.2	1,888	81.0	9,312	107.6	3,599	115.9	5,713	103.0	3,262	91.1	998	100.1	2,264	87.6	1,483	70.8	621	75.4	862	67.8	267	105	162
Mean age at death		**73.3**	**69.7**		**76.9**		**70.1**		**65.9**		**74.7**		**77.4**		**74.0**		**80.9**		**69.7**		**65.8**		**73.3**		**73.8**		**71.5**		**76.5**		**67.3**	**64.9**	**70.8**
Median age at death		**76**	**72**		**81**		**74**		**69**		**79**		**81**		**77**		**85**		**72**		**68**		**76**		**78**		**75**		**81**		**70**	**68**	**74**

* Population data are from US Census Bureau estimates for July 1, 2019, released in the 2020 vintage file. See Table PC2 on page 54.

MORTALITY

Table M3. Deaths by Ancestry* and Borough of Residence, New York City, 2019

		Borough of Residence						
Mother's Ancestry	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Residence Unknown
Total	**54,559**	**9,411**	**9,278**	**15,222**	**12,516**	**3,620**	**4,328**	**184**
Hispanic								
Colombian	383	38	16	32	264	9	24	-
Cuban	397	114	73	64	106	8	30	2
Dominican	2,408	811	882	303	322	15	74	1
Ecuadorian	553	71	103	83	254	14	28	-
Mexican	437	46	99	128	111	25	25	3
Puerto Rican	4,741	881	1,862	1,139	500	176	171	12
Other Hispanic	2,341	365	769	479	481	60	154	33
North American and the Caribbean								
African-American	9,916	1,833	2,457	3,191	1,702	181	520	32
American	9,853	2,649	727	1,968	2,191	804	1,508	6
Guyanese	1,020	16	91	369	505	5	34	-
Haitian	895	56	16	566	196	2	59	-
Jamaican	1,247	38	320	552	267	7	61	2
Trinidadian	574	22	41	342	138	8	23	-
Other North American and the Caribbean	990	75	164	557	136	8	49	1
African								
Egyptian	115	12	1	36	32	17	17	-
Ghanaian	84	1	50	18	4	3	8	-
Nigerian	96	4	15	33	25	5	14	-
Other African	212	53	60	33	37	14	15	-
European								
English	202	64	21	27	28	23	39	-
German	588	111	84	63	182	88	60	-
Irish	1,173	91	192	129	366	247	148	-
Italian	3,427	149	359	775	806	1,006	332	-
Polish	539	48	19	176	183	72	41	-
Russian	727	50	26	480	92	57	22	-
Other European	2,573	289	169	915	822	206	171	1
Asian								
Asian Indian	353	28	15	25	193	13	79	-
Bangladeshi	320	11	60	70	173	3	3	-
Chinese	2,565	588	37	816	944	98	82	-
Filipino	311	33	25	31	169	16	36	1
Korean	340	29	14	18	231	14	34	-
Pakistani	185	9	10	63	72	8	23	-
Other Asian	708	107	42	169	267	41	81	1
Other								
Jewish or Hebrew	1,985	202	85	1,156	258	85	199	-
Other or Not Stated	2,301	517	374	416	459	282	164	89

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

Table M4. Deaths by Place of Death*, New York City, 2015-2019

	2015		2016		2017		2018		2019	
Place of Death	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	**54,120**	**100.0**	**54,280**	**100.0**	**54,319**	**100.0**	**55,081**	**100.0**	**54,559**	**100.0**
Hospital Inpatient	25,152	46.5	25,111	46.3	24,883	45.8	24,964	45.3	25,097	46.0
Emergency/Outpatient	4,457	8.2	4,584	8.4	4,646	8.6	4,997	9.1	4,996	9.2
Dead on Arrival (DOA)	800	1.5	706	1.3	682	1.3	668	1.2	573	1.1
Nursing Home/Long Term Care Facility	7,631	14.1	7,381	13.6	7,779	14.3	7,945	14.4	7,974	14.6
Hospice Facility	2,711	5.0	2,611	4.8	1,936	3.6	1,387	2.5	949	1.7
Decedents' Residence	12,657	23.4	13,045	24.0	13,610	25.1	14,326	26.0	14,186	26.0
Other	712	1.3	842	1.6	783	1.4	794	1.4	784	1.4
Unknown or Not Stated	-	-	-	-	-	-	-	-	-	-

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

Table M5. Deaths by Birthplace and Borough of Residence, New York City, 2019*

		Borough of Residence						
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	**54,559**	**9,411**	**9,278**	**15,222**	**12,516**	**3,620**	**4,328**	**184**
United States	**31,752**	**6,214**	**6,202**	**7,666**	**5,867**	**2,761**	**2,989**	**53**
United States (excluding Puerto Rico)	27,829	5,463	4,578	6,736	5,492	2,651	2,869	40
Puerto Rico	3,923	751	1,624	930	375	110	120	13
Dominican Republic	2,314	781	855	293	303	14	67	1
China	2,246	523	33	745	798	78	68	1
Jamaica	1,436	57	391	581	309	13	83	2
Ukraine	1,129	25	23	902	108	46	25	-
Guyana	1,049	17	95	374	525	5	33	-
Italy	1,020	55	112	296	316	158	83	-
Haiti	918	62	18	570	209	2	57	-
Trinidad and Tobago	649	27	52	367	165	10	28	-
Ecuador	536	71	101	79	244	15	26	-
Russia	527	44	18	334	80	37	14	-
Poland	497	51	16	207	156	39	28	-
Mexico	399	40	90	120	101	23	22	3
Cuba	388	115	74	62	102	8	25	2
Colombia	373	39	14	31	260	10	19	-
Greece	350	16	23	59	215	15	22	-
India	339	25	16	23	183	15	77	-
Germany	334	107	28	67	84	16	32	-
Bangladesh	323	10	60	70	176	3	4	-
Philippines	315	31	26	34	169	16	38	1
Korea	289	26	13	15	197	12	26	-
Barbados	270	13	25	179	39	3	11	-
Romania	214	26	11	65	94	6	12	-
Belarus	206	8	1	161	21	14	1	-
Ireland	205	23	45	18	80	8	31	-
Panama	204	21	25	114	36	2	6	-
Other or Not Stated	6,277	984	911	1,790	1,679	291	501	121

*See Technical Notes: Geographical Units, Birthplace Presentation.

Table M6. Deaths by Birthplace and Age Group, New York City, 2019*

		Age Group (Years)								
Birthplace	Total	<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	**54,559**	**660**	**426**	**1,139**	**1,619**	**3,453**	**7,432**	**10,328**	**12,342**	**17,160**
United States	31,752	633	316	767	990	2,160	4,591	6,053	6,888	9,354
United States (excluding Puerto Rico)	27,829	633	311	753	939	2,033	4,212	5,244	5,625	8,079
Puerto Rico	3,923	-	5	14	51	127	379	809	1,263	1,275
Dominican Republic	2,314	5	14	43	70	127	341	477	566	671
China	2,246	3	6	33	32	84	180	354	538	1,016
Jamaica	1,436	3	7	17	50	85	200	306	377	391
Ukraine	1,129	-	-	7	17	21	70	125	262	627
Guyana	1,049	1	6	11	27	81	166	239	259	259
Italy	1,020	-	-	3	1	13	49	109	273	572
Haiti	918	-	7	9	15	42	126	202	236	281
Trinidad and Tobago	649	-	2	7	17	44	102	166	170	141
Ecuador	536	-	2	10	25	36	66	104	136	157
Russia	527	-	-	6	14	19	27	69	167	225
Poland	497	1	-	5	14	17	58	79	56	267
Mexico	399	-	9	53	77	105	57	45	29	24
Cuba	388	-	-	1	1	4	21	50	108	203
Colombia	373	-	1	9	7	14	50	74	91	127
Greece	350	-	-	1	1	5	23	59	94	167
India	339	1	3	7	16	13	36	81	119	63
Germany	334	-	1	2	2	3	11	45	66	204
Bangladesh	323	1	3	4	14	34	77	95	67	28
Philippines	315	-	-	4	12	20	44	81	81	73
Korea	289	-	-	4	5	17	32	55	90	86
Barbados	270	-	-	2	2	9	27	52	83	95
Romania	214	-	-	-	3	4	12	42	31	122
Belarus	206	-	-	4	2	5	15	20	31	129
Ireland	205	-	1	-	2	6	9	25	62	100
Panama	204	-	-	1	4	7	22	37	66	67
Other or Not Stated	6,277	12	48	129	199	478	1,020	1,284	1,396	1,711

*See Technical Notes: Geographical Units, Birthplace Presentation.

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2019

		All		Male		Female	
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	17,821	32.7	8,961	32.4	8,860	33.0
2	Malignant Neoplasms	12,448	22.8	6,163	22.3	6,285	23.4
3	Diabetes Mellitus	1,894	3.5	992	3.6	902	3.4
4	Cerebrovascular Diseases	1,889	3.5	802	2.9	1,087	4.0
5	Chronic Lower Respiratory Diseases	1,814	3.3	859	3.1	955	3.6
6	Influenza and Pneumonia	1,624	3.0	851	3.1	773	2.9
7	Use of or Poisoning by Psychoactive Substance	1,556	2.9	1,189	4.3	367	1.4
8	Essential Hypertension and Hypertensive Renal Disease	1,326	2.4	574	2.1	752	2.8
9	Alzheimer's Disease	1,141	2.1	339	1.2	802	3.0
10	Accidents Except Poisoning by Psychoactive Substance	1,074	2.0	668	2.4	406	1.5
	All Other Causes	11,972	21.9	6,275	22.7	5,697	21.2
	Total	**54,559**	**100.0**	**27,673**	**100.0**	**26,886**	**100.0**
Rank	**< 1 YEAR**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Congenital Malformations, Deformations	109	23.5	57	21.6	52	26.0
2	Short Gestation and Low Birthweight	66	14.2	50	18.9	16	8.0
3	External Causes	58	12.5	34	12.9	24	12.0
4	Cardiovascular Disorders Originating in the Perinatal Period	39	8.4	20	7.6	19	9.5
5	Respiratory Distress of Newborn	18	3.9	9	3.4	9	4.5
6	Bacterial Sepsis of Newborn	15	3.2	4	1.5	11	5.5
7	Necrotizing Enterocolitis of Newborn	11	2.4	7	2.7	4	2.0
7	Diseases of Heart	11	2.4	2	0.8	9	4.5
9	Newborn Affected by Complications of Placenta	10	2.2	4	1.5	6	3.0
9	Other Respiratory conditions in perinatal period	10	2.2	7	2.7	3	1.5
	All Other Causes	117	25.2	70	26.5	47	23.5
	Total	**464**	**100.0**	**264**	**100.0**	**200**	**100.0**
Rank	**1 - 14 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Malignant Neoplasms	49	25.0	24	22.9	25	27.5
2	Accidents Except Poisoning by Psychoactive Substance	33	16.8	22	21.0	11	12.1
3	Congenital Malformations, Deformations	22	11.2	13	12.4	9	9.9
4	Assault (Homicide)	12	6.1	7	6.7	5	5.5
4	Chronic Lower Respiratory Diseases	12	6.1	7	6.7	5	5.5
	All Other Causes	68	34.7	32	30.5	36	39.6
	Total	**196**	**100.0**	**105**	**100.0**	**91**	**100.0**
Rank	**15 - 24 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Intentional Self-harm (Suicide)	68	16.0	52	17.2	16	12.9
2	Assault (Homicide)	66	15.5	60	19.9	6	4.8
3	Use of or Poisoning by Psychoactive Substance	53	12.4	39	12.9	14	11.3
4	Malignant Neoplasms	51	12.0	35	11.6	16	12.9
5	Accidents Except Poisoning by Psychoactive Substance	46	10.8	34	11.3	12	9.7
6	Congenital Malformations, Deformations	14	3.3	7	2.3	7	5.6
7	Diseases of Heart	11	2.6	7	2.3	4	3.2
8	Chronic Lower Respiratory Diseases	7	1.6	5	1.7	2	1.6
9	Cerebrovascular disease	7	1.6	5	1.7	2	1.6
10	Septicemia	5	1.2	2	0.7	3	2.4
10	Pregnancy, childbirth and the puerperium	5	1.2	.	.	5	4.0
	All Other Causes	98	23.0	56	18.5	42	33.9
	Total	**426**	**100.0**	**302**	**100.0**	**124**	**100.0**
Rank	**25 - 34 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Use of or Poisoning by Psychoactive Substance	274	24.1	212	26.3	62	18.6
2	Malignant Neoplasms	135	11.9	71	8.8	64	19.2
3	Intentional Self-harm (Suicide)	108	9.5	81	10.0	27	8.1
4	Accidents Except Poisoning by Psychoactive Substance	102	9.0	81	10.0	21	6.3
5	Assault (Homicide)	97	8.5	88	10.9	9	2.7
6	Diseases of Heart	70	6.1	45	5.6	25	7.5
7	Human Immunodeficiency Virus (HIV) Disease	27	2.4	23	2.9	4	1.2
8	Mental Disorders Due to Use of Alcohol	26	2.3	19	2.4	7	2.1
9	Diabetes Mellitus	20	1.8	18	2.2	2	0.6
9	Chronic Lower Respiratory Diseases	20	1.8	10	1.2	10	3.0
	All Other Causes	260	22.8	158	19.6	102	30.6
	Total	**1,139**	**100.0**	**806**	**100.0**	**333**	**100.0**
Rank	**35-44 YEARS**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Use of or Poisoning by Psychoactive Substance	307	19.0	244	22.2	63	12.1
2	Malignant Neoplasms	298	18.4	147	13.4	151	28.9
3	Diseases of Heart	205	12.7	152	13.9	53	10.2
4	Intentional Self-harm (Suicide)	75	4.6	51	4.6	24	4.6
5	Mental Disorder Due to Use of Alcohol	66	4.1	54	4.9	12	2.3
6	Accidents Except Poisoning by Psychoactive Substance	58	3.6	47	4.3	11	2.1
7	Chronic Liver Disease and Cirrhosis	56	3.5	47	4.3	9	1.7
8	Assault (Homicide)	55	3.4	43	3.9	12	2.3
9	Diabetes Mellitus	50	3.1	37	3.4	13	2.5
10	Influenza and Pneumonia	36	2.2	24	2.2	12	2.3
	All Other Causes	413	25.5	251	22.9	162	31.0
	Total	**1,619**	**100.0**	**1,097**	**100.0**	**522**	**100.0**

Table continued on following page

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2019 [CONTINUED]

		All		Male		Female	
Rank	45 - 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	939	27.2	419	19.8	520	39.0
2	Diseases of Heart	731	21.2	520	24.6	211	15.8
3	Use of or Poisoning by Psychoactive Substance	363	10.5	278	13.1	85	6.4
4	Diabetes Mellitus	146	4.2	93	4.4	53	4.0
5	Chronic Liver Disease and Cirrhosis	110	3.2	74	3.5	36	2.7
6	Cerebrovascular Diseases	99	2.9	49	2.3	50	3.7
7	Accidents Except Poisoning by Psychoactive Substance	96	2.8	67	3.2	29	2.2
8	Intentional Self-harm (Suicide)	93	2.7	67	3.2	26	1.9
9	Mental Disorder Due to Use of Alcohol	82	2.4	64	3.0	18	1.3
10	Human Immunodeficiency Virus (HIV) Disease	71	2.1	41	1.9	30	2.2
	All Other Causes	723	20.9	446	21.1	277	20.7
	Total	**3,453**	**100.0**	**2,118**	**100.0**	**1,335**	**100.0**
Rank	55 - 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	2,300	30.9	1,188	26.0	1,112	38.7
2	Diseases of Heart	1,919	25.8	1,330	29.2	589	20.5
3	Use of or Poisoning by Psychoactive Substance	412	5.5	309	6.8	103	3.6
4	Diabetes Mellitus	322	4.3	195	4.3	127	4.4
5	Cerebrovascular Diseases	211	2.8	130	2.8	81	2.8
6	Chronic Lower Respiratory Diseases	201	2.7	108	2.4	93	3.2
7	Influenza and Pneumonia	186	2.5	108	2.4	78	2.7
8	Chronic Liver Disease and Cirrhosis	157	2.1	110	2.4	47	1.6
9	Accidents Except Poisoning by Psychoactive Substance	153	2.1	118	2.6	35	1.2
10	Essential Hypertension and Hypertensive Renal Disease	131	1.8	71	1.6	60	2.1
	All Other Causes	1,440	19.4	895	19.6	545	19.0
	Total	**7,432**	**100.0**	**4,562**	**100.0**	**2,870**	**100.0**
Rank	65 - 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,354	32.5	1,763	29.7	1,591	36.2
2	Diseases of Heart	3,075	29.8	1,931	32.6	1,144	26.0
3	Diabetes Mellitus	471	4.6	278	4.7	193	4.4
4	Chronic Lower Respiratory Diseases	373	3.6	207	3.5	166	3.8
5	Cerebrovascular Diseases	320	3.1	170	2.9	150	3.4
6	Influenza and Pneumonia	265	2.6	163	2.7	102	2.3
7	Essential Hypertension and Hypertensive Renal Disease	253	2.4	135	2.3	118	2.7
8	Accidents Except Poisoning by Psychoactive Substance	146	1.4	91	1.5	55	1.3
9	Chronic Liver Disease and Cirrhosis	132	1.3	86	1.5	46	1.0
10	Use of or Poisoning by Psychoactive Substance	129	1.2	92	1.6	37	0.8
	All Other Causes	1,810	17.5	1,012	17.1	798	18.1
	Total	**10,328**	**100.0**	**5,928**	**100.0**	**4,400**	**100.0**
Rank	75 - 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,329	35.1	2,269	36.5	2,060	33.6
2	Malignant Neoplasms	3,117	25.3	1,580	25.4	1,537	25.1
3	Chronic Lower Respiratory Diseases	521	4.2	225	3.6	296	4.8
4	Cerebrovascular Disease	478	3.9	214	3.4	264	4.3
5	Diabetes Mellitus	467	3.8	220	3.5	247	4.0
6	Influenza and Pneumonia	418	3.4	249	4.0	169	2.8
7	Essential Hypertension and Hypertensive Renal Disease	352	2.9	142	2.3	210	3.4
8	Alzheimer's Disease	229	1.9	91	1.5	138	2.3
9	Accidents Except Poisoning by Psychoactive Substance	187	1.5	100	1.6	87	1.4
10	Parkinson's Disease	175	1.4	115	1.8	60	1.0
	All Other Causes	119	1.0	52	0.8	67	1.1
	Total	**12,342**	**100.0**	**6,220**	**100.0**	**6,122**	**100.0**
Rank	≥85 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	7,467	43.5	2,702	43.1	4,765	43.8
2	Malignant Neoplasms	2,204	12.8	935	14.9	1,269	11.7
3	Alzheimer's Disease	847	4.9	217	3.5	630	5.8
4	Cerebrovascular Diseases	724	4.2	201	3.2	523	4.8
5	Influenza and Pneumonia	628	3.7	250	4.0	378	3.5
6	Chronic Lower Respiratory Diseases	600	3.5	256	4.1	344	3.2
7	Essential Hypertension and Hypertensive Renal Disease	523	3.0	185	3.0	338	3.1
8	Diabetes Mellitus	416	2.4	149	2.4	267	2.5
9	Accidents Except Poisoning by Psychoactive Substance	239	1.4	100	1.6	139	1.3
10	Parkinson's Disease	184	1.1	87	1.4	97	0.9
	All Other Causes	3,328	19.4	1,189	19.0	2,139	19.6
	Total	**17,160**	**100.0**	**6,271**	**100.0**	**10,889**	**100.0**

Table M8. Leading Causes of Death by Racial/Ethnic Group* and Sex, New York City, 2019

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,412	29.8	663	28.1	749	31.4
2	Malignant Neoplasms	919	19.4	465	19.7	454	19.1
3	Diabetes Mellitus	242	5.1	129	5.5	113	4.7
4	Use of or Poisoning by Psychoactive Substance	203	4.3	163	6.9	40	1.7
5	Chronic Lower Respiratory Diseases	201	4.2	99	4.2	102	4.3
6	Cerebrovascular Diseases	185	3.9	71	3.0	114	4.8
7	Alzheimer's Disease	152	3.2	32	1.4	120	5.0
8	Essential Hypertension and Hypertensive Renal Disease	144	3.0	67	2.8	77	3.2
9	Influenza and Pneumonia	134	2.8	84	3.6	50	2.1
10	Accidents Except Poisoning by Psychoactive Substance	83	1.8	48	2.0	35	1.5
	All Other Causes	1,066	22.5	538	22.8	528	22.2
	Total	**4,741**	**100.0**	**2,359**	**100.0**	**2,382**	**100.0**
Rank	Hispanic not of Puerto Rican ancestry	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,765	27.1	940	27.0	825	27.2
2	Malignant Neoplasms	1,427	21.9	699	20.1	728	24.0
3	Use of or Poisoning by Psychoactive Substance	324	5.0	260	7.5	64	2.1
4	Cerebrovascular Diseases	246	3.8	111	3.2	135	4.4
5	Diabetes Mellitus	217	3.3	116	3.3	101	3.3
6	Influenza and Pneumonia	204	3.1	98	2.8	106	3.5
7	Accidents Except Poisoning by Psychoactive Substance	189	2.9	126	3.6	63	2.1
8	Chronic Liver Disease and Cirrhosis	150	2.3	112	3.2	38	1.3
9	Alzheimer's Disease	149	2.3	38	1.1	111	3.7
10	Chronic Lower Respiratory Diseases	147	2.3	71	2.0	76	2.5
	All Other Causes	1,701	26.1	914	26.2	787	25.9
	Total	**6,519**	**100.0**	**3,485**	**100.0**	**3,034**	**100.0**
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,354	29.4	731	29.2	623	29.7
2	Malignant Neoplasms	1,253	27.3	671	26.8	582	27.8
3	Cerebrovascular Diseases	215	4.7	105	4.2	110	5.2
4	Influenza and Pneumonia	159	3.5	92	3.7	67	3.2
5	Diabetes Mellitus	154	3.3	76	3.0	78	3.7
6	Essential Hypertension and Hypertensive Renal Disease	122	2.7	56	2.2	66	3.1
7	Chronic Lower Respiratory Diseases	120	2.6	80	3.2	40	1.9
8	Accidents Except Poisoning by Psychoactive Substance	92	2.0	52	2.1	40	1.9
9	Alzheimer's Disease	91	2.0	41	1.6	50	2.4
10	Intentional Self-harm (Suicide)	88	1.9	48	1.9	40	1.9
	All Other Causes	950	20.7	549	22.0	401	19.1
	Total	**4,598**	**100.0**	**2,501**	**100.0**	**2,097**	**100.0**
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,035	35.5	4,034	35.1	4,001	35.9
2	Malignant Neoplasms	5,440	24.0	2,785	24.3	2,655	23.8
3	Chronic Lower Respiratory Diseases	853	3.8	373	3.2	480	4.3
4	Cerebrovascular Diseases	656	2.9	266	2.3	390	3.5
5	Influenza and Pneumonia	650	2.9	342	3.0	308	2.8
6	Use of or Poisoning by Psychoactive Substance	543	2.4	418	3.6	125	1.1
7	Alzheimer's Disease	494	2.2	153	1.3	341	3.1
8	Diabetes Mellitus	445	2.0	248	2.2	197	1.8
9	Accidents Except Poisoning by Psychoactive Substance	439	1.9	272	2.4	167	1.5
10	Essential Hypertension and Hypertensive Renal Disease	409	1.8	181	1.6	228	2.0
	All Other Causes	4,671	20.6	2,407	21.0	2,264	20.3
	Total	**22,635**	**100.0**	**11,479**	**100.0**	**11,156**	**100.0**
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,798	32.6	2,315	32.8	2,483	32.4
2	Malignant Neoplasms	3,174	21.6	1,421	20.1	1,753	22.9
3	Diabetes Mellitus	760	5.2	377	5.3	383	5.0
4	Cerebrovascular Diseases	544	3.7	228	3.2	316	4.1
5	Essential Hypertension and Hypertensive Renal Disease	475	3.2	185	2.6	290	3.8
6	Chronic Lower Respiratory Diseases	452	3.1	210	3.0	242	3.2
7	Influenza and Pneumonia	438	3.0	211	3.0	227	3.0
8	Use of or Poisoning by Psychoactive Substance	414	2.8	294	4.2	120	1.6
9	Alzheimer's Disease	242	1.6	71	1.0	171	2.2
10	Accidents Except Poisoning by Psychoactive Substance	238	1.6	150	2.1	88	1.1
	All Other Causes	3,178	21.6	1,592	22.6	1,586	20.7
	Total	**14,713**	**100.0**	**7,054**	**100.0**	**7,659**	**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, 2019

		All		Male		Female	
Rank	Cause of Death	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,773	25.6	1,885	20.4	1,888	34.5
	Trachea, bronchus, and lung	546	3.7	297	3.2	249	4.5
	Breast	415	2.8	1	0.0	414	7.6
	Colon, rectum, and anus	373	2.5	220	2.4	153	2.8
	Pancreas	285	1.9	164	1.8	121	2.2
	Liver and intrahepatic bile ducts	222	1.5	150	1.6	72	1.3
2	Diseases of Heart	2,950	20.0	2,059	22.2	891	16.3
3	Use of or Poisoning by Psychoactive Substance	1,409	9.6	1,082	11.7	327	6.0
4	Diabetes Mellitus	540	3.7	345	3.7	195	3.6
5	Accidents Except Poisoning by Psychoactive Substance	502	3.4	377	4.1	125	2.3
6	Intentional Self-harm (Suicide)	453	3.1	332	3.6	121	2.2
7	Cerebrovascular Diseases	367	2.5	217	2.3	150	2.7
8	Chronic Liver Disease and Cirrhosis	337	2.3	241	2.6	96	1.8
9	Chronic Lower Respiratory Diseases	320	2.2	171	1.8	149	2.7
10	Influenza and Pneumonia	313	2.1	189	2.0	124	2.3
	All Other Causes	3,765	25.6	2,356	25.5	1,409	25.7
	Total	**14,729**	**100.0**	**9,254**	**100.0**	**5,475**	**100.0**

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

MORTALITY

Table M10. Leading Causes of Premature Death (Age <65 Years) by Racial/Ethnic Group* and Sex, New York City, 2019

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	255	21.6	135	17.7	120	28.8
2	Diseases of Heart	243	20.6	150	19.6	93	22.3
3	Use of or Poisoning by Psychoactive Substance	177	15.0	144	18.8	33	7.9
4	Diabetes Mellitus	52	4.4	36	4.7	16	3.8
5	Human Immunodeficiency Virus (HIV) Disease	37	3.1	28	3.7	9	2.2
6	Chronic Liver Disease and Cirrhosis	36	3.0	29	3.8	7	1.7
7	Chronic Lower Respiratory Diseases	34	2.9	20	2.6	14	3.4
8	Accidents Except Poisoning by Psychoactive Substance	30	2.5	25	3.3	5	1.2
9	Cerebrovascular Diseases	27	2.3	16	2.1	11	2.6
10	Essential Hypertension and Hypertensive Renal Disease	23	1.9	10	1.3	13	3.1
	All Other Causes	267	22.6	171	22.4	96	23.0
	Total	**1,181**	**100.0**	**764**	**100.0**	**417**	**100.0**
Rank	**Hispanic not of Puerto Rican ancestry**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Malignant Neoplasms	563	22.0	281	16.6	282	32.8
2	Diseases of Heart	442	17.3	315	18.6	127	14.8
3	Use of or Poisoning by Psychoactive Substance	309	12.1	251	14.8	58	6.8
4	Accidents Except Poisoning by Psychoactive Substance	133	5.2	100	5.9	33	3.8
5	Chronic Liver Disease and Cirrhosis	106	4.2	86	5.1	20	2.3
6	Diabetes Mellitus	78	3.1	56	3.3	22	2.6
7	Intentional Self-harm (Suicide)	76	3.0	57	3.4	19	2.2
8	Mental Disorders Due to Use of Alcohol	73	2.9	64	3.8	9	1.0
9	Assault (Homicide)	71	2.8	58	3.4	13	1.5
10	Cerebrovascular Diseases	67	2.6	47	2.8	20	2.3
	All Other Causes	636	24.9	380	22.4	256	29.8
	Total	**2,554**	**100.0**	**1,695**	**100.0**	**859**	**100.0**
Rank	**Asian and Pacific Islander**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Malignant Neoplasms	417	37.0	192	27.9	225	51.3
2	Diseases of Heart	183	16.2	137	19.9	46	10.5
3	Intentional Self-harm (Suicide)	70	6.2	40	5.8	30	6.8
4	Cerebrovascular Diseases	42	3.7	26	3.8	16	3.6
5	Diabetes Mellitus	40	3.5	27	3.9	13	3.0
6	Accidents Except Poisoning by Psychoactive Substance	36	3.2	27	3.9	9	2.1
7	Use of or Poisoning by Psychoactive Substance	35	3.1	26	3.8	9	2.1
8	Certain Conditions Originating in the Perinatal Period	22	2.0	14	2.0	8	1.8
9	Influenza and Pneumonia	18	1.6	9	1.3	9	2.1
10	Viral Hepatitis	15	1.3	14	2.0	1	0.2
	All Other Causes	249	22.1	176	25.6	73	16.6
	Total	**1,127**	**100.0**	**688**	**100.0**	**439**	**100.0**
Rank	**Non-Hispanic White**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Malignant Neoplasms	1,277	30.3	698	25.4	579	39.7
2	Diseases of Heart	764	18.1	576	20.9	188	12.9
3	Use of or Poisoning by Psychoactive Substance	504	12.0	388	14.1	116	8.0
4	Intentional Self-harm (Suicide)	204	4.8	157	5.7	47	3.2
5	Accidents Except Poisoning by Psychoactive Substance	137	3.3	107	3.9	30	2.1
6	Diabetes Mellitus	99	2.4	64	2.3	35	2.4
7	Chronic Liver Disease and Cirrhosis	98	2.3	64	2.3	34	2.3
8	Chronic Lower Respiratory Diseases	86	2.0	46	1.7	40	2.7
9	Mental Disorders Due to Use of Alcohol	80	1.9	57	2.1	23	1.6
10	Influenza and Pneumonia	72	1.7	49	1.8	23	1.6
	All Other Causes	889	21.1	547	19.9	342	23.5
	Total	**4,210**	**100.0**	**2,753**	**100.0**	**1,457**	**100.0**
Rank	**Non-Hispanic Black**	**Deaths**	**Percent**	**Deaths**	**Percent**	**Deaths**	**Percent**
1	Diseases of Heart	1,191	23.2	787	26.2	404	19.0
2	Malignant Neoplasms	1,170	22.8	533	17.7	637	30.0
3	Use of or Poisoning by Psychoactive Substance	352	6.9	249	8.3	103	4.8
4	Diabetes Mellitus	244	4.8	144	4.8	100	4.7
5	Assault (Homicide)	168	3.3	153	5.1	15	0.7
6	Chronic Lower Respiratory Diseases	151	2.9	76	2.5	75	3.5
7	Cerebrovascular Diseases	149	2.9	84	2.8	65	3.1
8	Accidents Except Poisoning by Psychoactive Substance	147	2.9	105	3.5	42	2.0
9	Human Immunodeficiency Virus (HIV) Disease	146	2.8	84	2.8	62	2.9
10	Influenza and Pneumonia	129	2.5	70	2.3	59	2.8
	All Other Causes	1,284	25.0	721	24.0	563	26.5
	Total	**5,131**	**100.0**	**3,006**	**100.0**	**2,125**	**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, 2019

				Racial/Ethnic Group												Sex					
	Total			Hispanic			Non-Hispanic White			Non-Hispanic 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†	**54,559**	**6.5**	**5.4**	**11,260**	**4.6**	**4.9**	**22,635**	**8.4**	**5.5**	**14,713**	**8.1**	**6.8**	**4,598**	**3.7**	**3.3**	**1,353**	**27,673**	**7.0**	**6.7**	**26,886**	**6.2**	**4.5**
Natural Causes	**50,787**	**609.2**	**501.5**	**10,212**	**421.4**	**443.6**	**21,266**	**792.9**	**506.6**	**13,745**	**752.8**	**629.1**	**4,329**	**350.9**	**313.4**	**1,235**	**24,947**	**627.1**	**601.6**	**25,840**	**592.9**	**424.6**
Human Immunodeficiency Virus (HIV) Disease	340	4.1	3.7	102	4.2	4.2	30	1.1	0.9	195	10.7	9.3	3	0.2	0.2	10	225	5.7	5.3	115	2.6	2.3
Malignant Neoplasms	12,448	149.3	126.1	2,346	96.8	100.8	5,440	202.8	141.9	3,174	173.8	145.2	1,253	101.6	89.4	235	6,163	154.9	147.1	6,285	144.2	111.3
Malignant neoplasm of stomach	447	5.4	4.6	101	4.2	4.3	128	4.8	3.5	121	6.6	5.5	91	7.4	6.4	6	262	6.6	6.2	185	4.2	3.3
Malignant neoplasms of colon, rectum, and anus	1,127	13.5	11.4	225	9.3	9.7	445	16.6	11.6	333	18.2	15.2	100	8.1	7.1	24	594	14.9	14.1	533	12.2	9.2
Malignant neoplasm of pancreas	1,028	12.3	10.4	189	7.8	8.1	495	18.5	12.8	243	13.3	11.0	89	7.2	6.3	12	483	12.1	11.5	545	12.5	9.4
Malignant neoplasms of trachea, bronchus, and lung (male)	1,133	28.5	27.0	178	15.2	18.9	517	39.4	30.0	255	30.8	29.9	162	27.6	25.5	21	1,133	28.5	27.0	-	-	-
Malignant neoplasms of trachea, bronchus, and lung (female)	1,034	23.7	18.0	163	13.0	12.0	504	36.8	23.2	238	23.9	17.7	104	16.1	13.4	25	-	-	-	1,034	23.7	18.0
Malignant neoplasm of breast (female)	1,049	24.1	19.0	200	16.0	14.8	406	29.6	19.9	348	34.9	26.8	81	12.5	10.7	14	-	-	-	1,049	24.1	19.0
Malignant neoplasm of cervix uteri (female)	93	2.1	1.8	20	1.6	1.5	19	1.4	1.1	40	4.0	3.1	11	1.7	1.4	3	-	-	-	93	2.1	1.8
Malignant neoplasm of ovary (female)	347	8.0	6.3	48	3.8	3.5	162	11.8	7.8	92	9.2	7.0	32	4.9	4.1	13	-	-	-	347	8.0	6.3
Malignant neoplasm of prostate (male)	684	17.2	16.6	136	11.6	15.8	243	18.5	13.4	250	30.2	31.5	35	6.0	5.8	20	684	17.2	16.6	-	-	-
Leukemia	561	6.7	5.8	107	4.4	4.5	321	12.0	8.4	83	4.5	3.9	39	3.2	2.8	11	319	8.0	7.7	242	5.6	4.3
Diabetes Mellitus	1,894	22.7	19.0	459	18.9	19.9	445	16.6	11.3	760	41.6	34.6	154	12.5	11.0	76	992	24.9	23.6	902	20.7	15.3
Parkinson's Disease	425	5.1	4.0	83	3.4	3.7	237	8.8	5.2	57	3.1	2.5	41	3.3	3.0	7	243	6.1	5.9	182	4.2	2.8
Alzheimer's Disease	1,141	13.7	10.3	301	12.4	13.6	494	18.4	9.6	242	13.3	10.6	91	7.4	6.7	13	339	8.5	8.4	802	18.4	11.3
Diseases of Heart	17,821	213.8	171.8	3,177	131.1	139.1	8,035	299.6	179.7	4,798	262.8	216.5	1,354	109.8	97.7	457	8,961	225.2	216.5	8,860	203.3	137.3
Hypertensive heart disease	2,291	27.5	22.4	454	18.7	19.7	775	28.9	17.5	854	46.8	38.8	146	11.8	10.5	62	1,112	28.0	26.7	1,179	27.1	18.7
Chronic ischemic heart diseases	11,653	139.8	111.7	1,977	81.6	86.9	5,575	207.9	124.2	2,899	158.8	130.1	906	73.4	65.4	296	5,943	149.4	143.8	5,710	131.0	87.4
Acute myocardial infarction	1,878	22.5	18.2	344	14.2	15.0	824	30.7	18.5	497	27.2	22.4	162	13.1	11.6	51	962	24.2	23.2	916	21.0	14.3
Essential (Primary) Hypertension and Hypertensive Renal Disease	1,326	15.9	12.8	286	11.8	12.6	409	15.2	9.1	475	26.0	21.4	122	9.9	8.8	34	574	14.4	13.9	752	17.3	12.0
Cerebrovascular Diseases	1,889	22.7	18.4	431	17.8	18.9	656	24.5	14.7	544	29.8	24.7	215	17.4	15.5	43	802	20.2	19.3	1,087	24.9	17.3
Influenza and Pneumonia	1,624	19.5	15.8	338	13.9	14.7	650	24.2	14.7	438	24.0	19.9	159	12.9	11.5	39	851	21.4	20.6	773	17.7	12.3
Chronic Lower Respiratory Diseases	1,814	21.8	17.8	348	14.4	15.2	853	31.8	19.8	452	24.8	20.8	120	9.7	8.7	41	859	21.6	20.8	955	21.9	15.8
Asthma	172	2.1	1.9	60	2.5	2.5	30	1.1	1.0	79	4.3	4.0	2	0.2	0.1	1	75	1.9	1.8	97	2.2	2.0
Chronic Liver Disease and Cirrhosis	546	6.5	5.8	226	9.3	9.4	168	6.3	5.2	105	5.8	4.9	27	2.2	1.9	20	376	9.5	8.8	170	3.9	3.3
External Causes	**3,772**	**45.2**	**42.0**	**1,048**	**43.2**	**42.9**	**1,369**	**51.0**	**43.8**	**968**	**53.0**	**49.8**	**269**	**21.8**	**20.0**	**118**	**2,726**	**68.5**	**65.4**	**1,046**	**24.0**	**21.0**
Motor Vehicle Accidents	233	2.8	2.6	65	2.7	2.7	79	2.9	2.5	60	3.3	3.2	26	2.1	1.9	3	159	4.0	3.9	74	1.7	1.5
Falls	531	6.4	5.3	122	5.0	5.2	274	10.2	6.5	76	4.2	3.6	45	3.6	3.3	14	302	7.6	7.3	229	5.3	3.7
Intentional Self-harm (Suicide)	541	6.5	6.2	103	4.2	4.2	253	9.4	8.7	76	4.2	4.1	88	7.1	6.6	21	391	9.8	9.4	150	3.4	3.2
Assault (Homicide)	321	3.9	3.9	92	3.8	3.8	30	1.1	1.1	177	9.7	10.1	12	1.0	0.8	10	263	6.6	6.5	58	1.3	1.3
Events of Undetermined Intent	313	3.8	3.6	62	2.6	2.6	123	4.6	4.3	71	3.9	3.9	37	3.0	2.6	20	244	6.1	5.9	69	1.6	1.5
Mental and Behavioral Disorders Due to Use of or Accidental Poisoning by Psychoactive Substances, Excluding Alcohol	1,556	18.7	17.4	527	21.7	21.2	543	20.2	18.8	414	22.7	19.9	36	2.9	2.7	36	1,189	29.9	27.9	367	8.4	7.8
Accidents Except Drug Poisoning	1,074	12.9	11.3	272	11.2	11.4	439	16.4	11.6	238	13.0	12.0	92	7.5	6.8	33	668	16.8	16.2	406	9.3	7.2

* 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 2019 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, 2019

Community District of Residence	2019 Pop. Est.	All Causes (Rate per 1,000) No.	Crude Rate	Age-Adj. Rate	Heart Diseases No.	Crude Rate	Malignant Neoplasms No.	Crude Rate	HIV Disease No.	Crude Rate	Influenza and Pneumonia No.	Crude Rate	Cerebro-vascular Diseases No.	Crude Rate	Chronic Lower Respiratory Diseases No.	Crude Rate	Chronic Liver Disease & Cirrhosis No.	Crude Rate	Diabetes Mellitus No.	Crude Rate	Mental Disorders due to Substance Use & Accidental Poisoning No.	Crude Rate	Accidents Except Drug Poisoning No.	Crude Rate	Intentional Self-harm (Suicide) No.	Crude Rate	Assault (Homicide)† No.	Crude Rate	Events of Undeter-mined Intent No.	Crude Rate
ALL DEATH EVENTS	**8,336,817**	**54,559**	**6.5**	**5.5**	**17,821**	**213.8**	**12,448**	**149.3**	**340**	**4.1**	**1,624**	**19.5**	**1,889**	**22.7**	**1,814**	**21.8**	**546**	**6.5**	**1,894**	**22.7**	**1,556**	**18.7**	**1,074**	**12.9**	**541**	**6.5**	**321**	**3.9**	**313**	**3.8**
MANHATTAN‡	**1,618,257**	**9,359**	**5.8**	**4.4**	**2,715**	**167.8**	**2,196**	**135.7**	**55**	**3.4**	**235**	**14.5**	**303**	**18.7**	**329**	**20.3**	**65**	**4.0**	**244**	**15.1**	**297**	**18.4**	**180**	**11.1**	**123**	**7.6**	**34**	**2.1**	**48**	**3.0**
Battery Park, Tribeca (01)	62,172	180	2.9	3.7	49	78.8	50	80.4	-	-	3	4.8	4	6.4	8	12.9	-	-	3	4.8	4	6.4	2	3.2	5	8.0	-	-	1	1.6
Greenwich Village, SOHO (02)	89,804	385	4.3	3.3	113	125.8	104	115.8	-	-	9	10.0	9	10.0	9	10.0	3	3.3	3	3.3	8	8.9	17	18.9	9	10.0	-	-	5	5.6
Lower East Side (03)	168,806	1,133	6.7	4.5	357	211.5	254	150.5	4	2.4	31	18.4	43	25.5	44	26.1	4	2.4	31	18.4	48	28.4	13	7.7	14	8.3	1	0.6	2	1.2
Chelsea, Clinton (04)	134,289	563	4.2	3.7	156	116.2	138	102.8	6	4.5	15	11.2	14	10.4	24	17.9	2	1.5	11	8.2	24	17.9	15	11.2	16	11.9	3	2.2	6	4.5
Midtown Business District (05)	56,064	223	4.0	3.6	58	103.5	59	105.2	1	1.8	4	7.1	5	8.9	8	14.3	4	7.1	5	8.9	18	32.1	4	7.1	4	7.1	-	-	3	5.4
Murray Hill (06)	142,055	744	5.2	3.4	196	138.0	210	147.8	1	0.7	19	13.4	29	20.4	25	17.6	3	2.1	11	7.7	14	9.9	20	14.1	12	8.4	-	-	4	2.8
Upper West Side (07)	211,276	1,323	6.3	3.9	403	190.7	318	150.5	12	5.7	33	15.6	47	22.2	30	14.2	9	4.3	26	12.3	29	13.7	22	10.4	18	8.5	2	0.9	5	2.4
Upper East Side (08)	222,869	1,287	5.8	3.5	388	174.1	336	150.8	1	0.4	32	14.4	32	14.4	46	20.6	8	3.6	27	12.1	20	9.0	24	10.8	15	6.7	2	0.9	4	1.8
Manhattanville (09)	107,857	632	5.9	5.3	181	167.8	123	114.0	3	2.8	22	20.4	20	18.5	29	26.9	4	3.7	26	24.1	29	26.9	14	13.0	6	5.6	4	3.7	3	2.8
Central Harlem (10)	112,724	887	7.9	7.9	233	206.7	185	164.1	9	8.0	26	23.1	22	19.5	41	36.4	12	10.6	42	37.3	37	32.8	19	16.9	8	7.1	14	12.4	4	3.5
East Harlem (11)	120,634	968	8.0	7.0	256	212.2	208	172.4	13	10.8	21	17.4	32	26.5	39	32.3	12	9.9	40	33.2	35	29.0	16	13.3	6	5.0	2	1.7	7	5.8
Washington Heights (12)	189,682	1,034	5.5	4.4	325	171.3	211	111.2	5	2.6	20	10.5	46	24.3	26	13.7	4	2.1	19	10.0	31	16.3	14	7.4	10	5.3	6	3.2	4	2.1
BRONX‡	**1,421,651**	**9,313**	**6.5**	**6.2**	**2,768**	**194.7**	**1,889**	**132.9**	**102**	**7.2**	**357**	**25.1**	**367**	**25.8**	**338**	**23.8**	**113**	**7.9**	**401**	**28.2**	**420**	**29.5**	**154**	**10.8**	**63**	**4.4**	**83**	**5.8**	**49**	**3.4**
Mott Haven (01)	96,143	631	6.6	7.0	170	176.8	131	136.3	7	7.3	29	30.2	25	26.0	33	34.3	10	10.4	30	31.2	35	36.4	10	10.4	2	2.1	8	8.3	3	3.1
Hunts Point (02)	54,885	324	5.9	6.4	72	131.2	68	123.9	5	9.1	19	34.6	14	25.5	7	12.8	5	9.1	14	25.5	26	47.4	5	9.1	3	6	4	7.3	2	3.6
Morrisania (03)	88,979	554	6.2	7.1	152	170.8	104	116.9	6	6.7	25	28.1	16	18.0	20	22.5	12	13.5	24	27.0	44	49.5	11	12.4	1	1.1	11	12.4	3	3.4
Concourse, Highbridge (04)	152,103	873	5.7	6.2	238	156.5	171	112.4	28	18.4	43	28.3	32	21.0	27	17.8	13	8.5	50	32.9	51	33.5	9	5.9	7	4.6	9	5.9	5	3.3
University/Morris Heights (05)	132,368	634	4.8	6.0	172	129.9	130	98.2	15	11.3	26	19.6	23	17.4	23	17.4	9	6.8	20	15.1	50	37.8	7	5.3	6	4.5	4	3.0	4	3.0
East Tremont (06)	85,031	495	5.8	6.7	130	152.9	104	122.3	6	7.1	19	22.3	25	29.4	16	18.8	11	12.9	15	17.6	32	37.6	11	12.9	2	2.4	10	11.8	4	4.7
Fordham (07)	144,508	821	5.7	6.2	241	166.8	177	122.5	8	5.5	20	13.8	39	27.0	24	16.6	7	4.8	27	18.7	43	29.8	17	11.8	8	5.5	10	6.9	4	3
Riverdale (08)	100,596	1,015	10.1	5.9	379	376.8	158	157.1	3	3.0	34	33.8	47	46.7	39	38.8	5	5.0	26	25.8	13	12.9	20	19.9	6	6.0	-	-	1	1.0
Unionport, Soundview (09)	180,726	1,132	6.3	5.9	326	180.4	235	130.0	9	5.0	42	23.2	44	24.3	38	21.0	20	11.1	64	35.4	43	23.8	21	11.6	12	6.6	10	5.5	9	5.0
Throgs Neck (10)	119,079	994	8.3	5.4	324	272.1	238	199.9	3	3	36	30.2	40	33.6	46	38.6	7	5.9	40	33.6	27	22.7	13	10.9	4	3.4	3	2.5	2	1.7
Pelham Parkway (11)	113,281	873	7.7	6.0	271	239.2	184	162.4	4	3.5	20	17.7	27	23.8	39	34.4	7	6.2	42	37.1	27	23.8	14	12.4	4	3.5	6	5.3	7	6.2
Williamsbridge (12)	152,082	967	6.4	5.5	293	192.7	189	124.3	8	5.3	44	28.9	35	23.0	26	17.1	7	4.6	49	32.2	29	19.1	16	10.5	8	5.3	8	5.3	5	3.3
BROOKLYN	**2,559,903**	**15,212**	**5.9**	**5.3**	**5,549**	**216.8**	**3,210**	**125.4**	**108**	**4.2**	**489**	**19.1**	**513**	**20.0**	**473**	**18.5**	**129**	**5.0**	**611**	**23.9**	**313**	**12.2**	**289**	**11.3**	**141**	**5.5**	**86**	**3.4**	**103**	**4.0**
Williamsburg, Greenpoint (01)	195,503	751	3.8	4.6	256	130.9	142	72.6	2	1.0	22	11.3	22	11.3	22	11.3	9	4.6	35	17.9	25	12.8	12	6.1	11	5.6	6	3.1	7	3.6
Fort Greene, Brooklyn Heights (02)	131,762	562	4.3	4.0	182	138.1	131	99.4	5	3.8	15	11.4	21	15.9	25	19.0	3	2.3	35	26.6	12	9.1	7	5.3	6	4.6	4	3.0	2	1.5
Bedford Stuyvesant (03)	145,615	870	6.0	6.0	274	188.2	169	116.1	17	11.7	18	12.4	33	22.7	32	22.0	10	6.9	49	33.7	31	21.3	24	16.5	12	8.2	17	11.7	4	2.7
Bushwick (04)	107,151	507	4.7	5.6	157	146.5	88	82.1	5	4.7	12	11.2	10	9.3	23	21.5	11	10.3	22	20.5	15	14.0	8	7.5	12	11.2	8	7.5	4	3.7
East New York (05)	171,016	1,238	7.2	7.1	440	257.3	231	135.1	12	7.0	44	25.7	51	29.8	37	21.6	10	5.8	69	40.3	33	19.3	25	14.6	8	4.7	6	3.5	9	5.3
Park Slope (06)	108,002	452	4.2	4.7	148	137.0	105	97.2	1	0.9	15	13.9	16	14.8	23	21.3	12	11.1	13	12.0	7	6.5	4	3.7	6	5.6	1	0.9	-	-
Sunset Park (07)	127,335	482	3.8	4.3	134	105.2	121	95.0	1	0.8	8	6.3	23	18.1	18	14.1	9	7.1	10	7.9	15	11.8	17	13.4	8	6.3	2	1.6	2	1.6
Crown Heights North (08)	93,734	589	6.3	5.9	209	223.0	106	113.1	7	7.5	13	13.9	21	22.4	22	23.5	5	5.3	33	35.2	16	17.1	16	17.1	2	2.1	6	6.4	4	4.3
Crown Heights South (09)	95,193	676	7.1	5.8	240	252.1	144	151.3	10	10.5	19	20.0	23	24.2	14	14.7	9	9.5	37	38.9	16	16.8	11	11.6	3	3.2	3	3.2	2	2.1
Bay Ridge (10)	138,480	806	5.8	4.4	290	209.4	196	141.5	2	1.4	27	19.5	30	21.7	24	17.3	6	4.3	23	16.6	15	10.8	14	10.1	12	8.7	-	-	5	3.6
Bensonhurst (11)	199,966	1,182	5.9	4.3	433	216.5	271	135.5	-	-	44	22.0	41	20.5	46	23.0	9	4.5	22	11.0	21	10.5	33	16.5	13	6.5	-	-	8	4.0
Borough Park (12)	196,483	823	4.2	4.1	290	147.6	198	100.8	1	1	54	27.5	25	12.7	11	5.6	2	1.0	19	9.7	10	5.1	9	4.6	6	3.1	1	0.5	7	3.6
Coney Island (13)	104,949	1,148	10.9	5.9	565	538.4	188	179.1	-	-	47	44.8	27	25.7	29	27.6	5	4.8	26	24.8	12	11.4	16	15.2	14	13.3	3	2.9	11	10.5
Flatbush, Midwood (14)	160,335	975	6.1	5.4	382	238.3	205	127.9	10	6.2	35	21.8	31	19.3	15	9.4	8	5.0	34	21.2	13	8.1	27	16.8	8	5.0	5	3.1	8	5.0
Sheepshead Bay (15)	170,432	1,219	7.2	4.6	546	320.4	253	148.4	1	0.6	46	27.0	30	17.6	39	22.9	3	1.8	26	15.3	17	10.0	17	10.0	8	4.7	1	0.6	12	7.0
Brownsville (16)	80,275	636	7.9	7.7	197	245.4	120	149.5	13	16.2	12	14.9	27	33.6	33	41.1	6	7.5	37	46.1	20	24.9	6	7.5	1	1.2	9	11.2	8	10.0
East Flatbush (17)	147,838	1,031	7.0	5.5	359	242.8	245	165.7	13	8.8	17	11.5	33	22.3	25	16.9	3	2.0	67	45.3	15	10.1	17	11.5	3	2.0	10	6.8	4	2.7
Canarsie (18)	185,738	1,265	6.8	5.7	447	240.7	297	159.9	8	4.3	41	22.1	49	26.4	35	18.8	9	4.8	54	29.1	20	10.8	26	14.0	8	4.3	4	2.2	6	3.2
QUEENS	**2,260,863**	**12,513**	**5.5**	**4.4**	**4,438**	**196.3**	**2,729**	**120.7**	**43**	**1.9**	**395**	**17.5**	**460**	**20.3**	**393**	**17.4**	**129**	**5.7**	**430**	**19.0**	**230**	**10.2**	**262**	**11.6**	**136**	**6.0**	**65**	**2.9**	**59**	**2.6**
Astoria, Long Island City (01)	190,147	876	4.6	4.2	365	192.0	203	106.8	5	2.6	21	11.0	25	13.1	23	12.1	10	5.3	23	12.1	16	8.4	16	8.4	10	5.3	3	1.6	4	2.1
Sunnyside, Woodside (02)	148,792	519	3.5	3.1	208	139.8	113	75.9	1	1	10	6.7	25	16.8	11	7.4	7	4.7	17	11.4	7	4.7	10	6.7	3	2.0	-	-	1	0.7
Jackson Heights (03)	172,241	756	4.4	4.0	252	146.3	167	97.0	-	-	24	13.9	35	20.3	16	9.3	15	8.7	17	9.9	11	6.4	18	10.5	8	4.6	9	5.2	6	3.5
Elmhurst, Corona (04)	180,304	719	4.0	3.7	205	113.7	185	102.6	5	2.8	26	14.4	27	15.0	23	12.8	11	6.1	22	12.2	10	5.5	20	11.1	10	5.5	3	1.7	3	1.7
Ridgewood, Glendale (05)	157,820	968	6.1	5.3	360	228.1	201	127.4	1	0.6	30	19.0	31	19.6	31	19.6	15	9.5	18	11.4	21	13.3	34	21.5	12	7.6	4	2.5	3	1.9
Rego Park, Forest Hills (06)	110,350	780	7.1	4.1	273	247.4	191	173.1	3	3	31	28.1	22	19.9	26	23.6	4	3.6	16	14.5	6	5.4	9	8.2	10	9.1	2	2	4	3.6
Flushing (07)	253,939	1,581	6.2	3.7	562	221.3	342	134.7	3	1.2	62	24.4	50	19.7	49	19.3	14	5.5	36	14.2	29	11.4	31	12.2	17	6.7	1	0.4	7	2.8
Fresh Meadows, Briarwood (08)	149,641	845	5.6	4.0	310	207.2	167	111.6	3	2.0	28	18.7	27	18.0	30	20.0	13	8.7	27	18.0	14	9.4	14	9.4	11	7.4	3	2.0	2	1.3
Woodhaven (09)	141,516	683	4.8	4.7	229	161.8	133	94.0	8	5.7	23	16.3	25	17.7	21	14.8	7	4.9	35	24.7	19	13.4	24	17.0	11	7.8	2	1.4	4	2.8
Howard Beach (10)	120,058	755	6.3	5.4	243	202.4	167	139.1	3	2.5	24	20.0	36	30.0	31	25.8	3	2.5	32	26.7	23	19.2	14	11.7	9	7.5	4	3.3	3	2.5
Bayside (11)	114,437	589	5.1	3.1	210	183.5	140	122.3	-	-	15	13.1	25	21.8	13	11.4	4	3.5	11	9.6	9	7.9	11	9.6	9	7.9	-	-	3	2.6
Jamaica, St. Albans (12)	224,379	1,428	6.4	5.2	483	215.3	293	130.6	7	3.1	48	21.4	63	28.1	46	20.5	9	4.0	78	34.8	27	12.0	30	13.4	13	5.8	18	8.0	9	4.0
Queens Village (13)	186,722	988	5.3	3.8	324	173.5	232	124.2	-	-	20	10.7	42	22.5	21	11.2	8	4.3	48	25.7	13	7.0	19	10.2	6	3.2	10	5.4	4	2.1
The Rockaways (14)	109,744	1,026	9.3	7.6	414	377.2	195	177.7	4	3.6	33	30.1	27	24.6	52	47.4	9	8.2	50	45.6	25	22.8	12	10.9	7	6.4	6	5.5	6	5.5
STATEN ISLAND	**476,143**	**3,620**	**7.6**	**6.0**	**1,434**	**301.2**	**815**	**171.2**	**10**	**2.1**	**73**	**15.3**	**66**	**13.9**	**163**	**34.2**	**33**	**6.9**	**130**	**27.3**	**112**	**23.5**	**60**	**12.6**	**28**	**5.9**	**19**	**4.0**	**10**	**2.1**
Port Richmond (01)	182,648	1,244	6.8	6.1	508	278.1	246	134.7	10	5.5	21	11.5	25	13.7	52	28.5	14	7.7	56	30.7	43	23.5	27	14.8	10	5.5	10	5.5	3	1.6
Willowbrook, South Beach (02)	136,427	1,155	8.5	5.6	458	335.7	257	188.4	-	-	23	16.9	18	13.2	60	44.0	10	7.3	40	29.3	30	22.0	16	11.7	5	3.7	6	4	6	4.4
Tottenville (03)	156,352	1,221	7.8	6.3	468	299.3	312	199.6	-	-	29	18.5	23	14.7	51	32.6	9	5.8	34	21.7	39	24.9	17	10.9	13	8.3	3	2	1	0.6
NONRESIDENTS	**-**	**4,328**	**-**	**-**	**866**	**-**	**1,597**	**-**	**16**	**-**	**72**	**-**	**175**	**-**	**115**	**-**	**68**	**-**	**76**	**-**	**145**	**-**	**110**	**-**	**45**	**-**	**30**	**-**	**27**	**-**
RESIDENCE UNKNOWN	**-**	**184**	**-**	**-**	**44**	**-**	**7**	**-**	**5**	**-**	**2**	**-**	**4**	**-**	**3**	**-**	**7**	**-**	**2**	**-**	**35**	**-**	**19**	**-**	**5**	**-**	**3**	**-**	**15**	**-**

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 2019 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 Population for Selected Causes, New York City, 1901-2019

	Annual Average																														
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	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
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	3,477	2,312	1,875	1,624	1,691	1,339	881	760	682	577	583	551	516	526	491	500	446	464
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	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
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	2,602	1,714	1,333	1,097	1,159	912	609	512	445	378	383	377	326	342	312	344	278	305
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	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
Early Neonatal Deaths (under 7 Days)	§§	§§	§§	§§	§§	§§	§§	2,110	2,338	2,845	2,604	2,713	2,909	2,922	2,351	1,480	1,131	927	972	753	478	394	335	293	301	283	254	242	230	250	219	233
Rate per 1,000 live births								20.5	18.5	17.7	16.4	16.6	17.4	17.7	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
Fetal Deaths (28 Weeks Gestation and Older)	§§	§§	§§	§§	§§	§§	§§	2,589	2,709	2,902	2,441	2,310	2,362	2,276	1,885	1,288	835	719	698	686	518	431	388	368	379	371	401	345	388	347	378	311
Ratio per 1,000 live births								25.3	21.4	18.1	15.4	14.1	14.1	13.8	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
Perinatal mortality ratio†	§§	§§	§§	§§	§§	§§	§§	44.7	39.1	35.1	31.3	30.2	31.1	31.0	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
Pregnancy, Childbirth, and the Puerperium (O00-O99)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	30	32	39	37	29	30	27	39	24	43	32	43
Rate per 100,000 live births																					24.1	25.7	30.5	30.1	23.5	24.9	22.1	32.1	19.9	36.7	28.0	38.9
Maternal Causes |||| (A34, O00-O95, O98-O99)	694	745	694	664	689	651	608	372	255	178	115	102	107	109	73	36	28	33	29	26	22	29	32	30	23	25	23	35	18	25	23	21
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	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
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	432	235	141	125	174	135	39	25	16	27	13	13	22	17	16	13	17	19
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	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
Other Forms of Tuberculosis (A17-A19)	§§	§§	§§	§§	§§	§§	§§	§§	§§	225	174	97	52	43	39	32	22	35	55	34	14	5	5	5	3	4	9	3	5	2	3	5
Rate										2.9	2.2	1.2	0.7	0.6	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
HIV Disease (B20-B24)‡	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	7688	3,703	6,257	2,716	1,603	1,032	766	609	579	523	483	432	369	331	340
Rate																				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
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	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
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	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
Trachea, bronchus, and lung, male (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	828	847	1,021	1,157	1,294	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
Rate										21.9	22.2	27.0	30.9	34.8	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
Trachea, bronchus, and lung, female (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	220	179	228	261	303	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
Rate										5.5	4.4	5.6	6.4	7.4	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
Colon, rectum, and anus (C18-C21)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	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
Rate																				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
Breast, female (C50)	§§	§§	§§	§§	§§	§§	§§	§§	§§	1,429	1,476	1,517	1,573	1,694	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
Rate										35.9	36.4	37.3	38.7	41.3	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
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	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
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	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
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	41,981	40,63 9	37,978	37,818	33,527	32,074	29,330	26,663	23,414	20,04 4	19,808	19,967	19,715	20,502	20,597	21,031	21,328	21,430
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	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
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	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
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	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
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	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
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	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
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	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
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	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
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	2,936	2,440	2,185	1,789	1,289	946	697	521	493	550	534	586	589	610	522	605	571	546
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	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
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	447	372	381	383	816	311	564	654	429	453	461	464	486	437	416	388	459	538
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	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
Use of Psychoactive Substance (F11-F16, F18-F19)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	81	96	263	551	677	414	573	787	947	875	866	262	158	152	148	170	195	172	134	125	90
Rate												1.0	1.2	3.4	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
Accidental Drug Poisoning (X40-X42, X44)††	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	1	143	49	26	41	353	600	660	724	723	856	1,320	1,398	1,375	1,466
Rate																		||	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
Motor Vehicle Accidents¶	§§	§§	253	658	929	1,175	1,167	920	728	635	600	634	655	714	887	834	606	477	624	554	419	386	315	283	315	305	271	258	245	221	219	233
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	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
Home Accidents	§§	§§	§§	§§	§§	§§	§§	1,546	1,823	1,941	1,699	1,568	1,095	951	871	755	525	486	589	508	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate								21.0	24.0	25.0	21.4	19.9	14.0	12.1	11.1	9.9	7.3	6.8	8.1	6.8													
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	1,730	1,239	926	812	880	394	493	792	712	735	719	731	755	798	752	832	821	841
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	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
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	680	641	711	603	600	599	514	483	477	509	557	550	565	552	525	565	562	541
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	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
Assault (Homicide) (X85-Y09, Y87.1)	143	247	293	271	334	405	522	351	265	362	318	340	366	592	992	1,663	1,700	1,763	1,902	1,815	778	624	549	528	440	343	353	379	362	298	311	321
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	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
Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	946	1,062	699	696	504	161	151	232	212	247	241	227	253	265	259	245	296	313
Rate															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
Alzheimer's Disease (G30)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	84	115	232	400	626	696	740	789	1,079	1,100	1,116	1,195	1,141
Rate																				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
Asthma (J45-J46)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	269	243	196	154	171	166	180	182	167	157	161	174	172
Rate																				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

*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

Table M14. Alcohol-Attributable Deaths Due to Excessive Alcohol Use, Age ≥20 Years*, New York City, 2019

Cause	Total† 2,066	Male 1,698	Female 368
Acute Pancreatitis	6	4	2
Air-Space transport	0	0	0
Alcohol abuse	161	124	37
Alcohol-Induced acute pancreatitis	7	7	0
Alcohol cardiomyopathy	6	6	0
Alcohol induced chronic pancreatitis	2	2	0
Alcohol dependence syndrome	20	16	4
Alcoholic gastritis	1	1	0
Alcoholic liver disease	400	295	105
Degeneration of nervous system due to Alcohol	2	2	0
Alcohol poisoning	9	8	1
Alcoholic psychosis	147	114	33
Aspiration	3	3	1
Atrial fibrillation	8	5	3
Breast Cancer, females	54	-	54
Child Abuse	3	2	1
Chronic pancreatitis	1	0	0
Colorectal cancer	50	43	7
Drowning injuries	14	11	3
Unprovoked seizures, epilepsy, or seizure disorder	8	6	2
Esophageal cancer	75	63	11
Esophageal varices	3	1	2
Fall injuries	174	100	74
Fire injuries	18	8	10
Gallbladder	-8	-4	-4
Gastroesophageal hemorrhage	1	1	0
Homicide	142	119	24
Hypertension	93	191	-98
Hypothermia	7	3	4
Coronary heart disease	-232	-119	-113
Laryngeal cancer	12	11	1
Infant deaths, Low birth weight	0	0	0
Liver cancer	34	30	3
Liver cirrhosis, unspecified	97	52	44
Occupational and machine injuries	1	1	0
Motor vehicle traffic	75	57	18
Oropharyngeal cancer	38	32	6
Other road vehicle accidents	5	4	1
Pancreatic cancer	3	2	1
Pneumonia	61	44	17
Poisoning (not alcohol)	432	331	101
Infant deaths, preterm birth	0	0	0
Prostate cancer	12	12	-
Stomach cancer	1	1	0
Stroke, hemorrhagic	45	22	23
Stroke, ischemic	-54	-9	-45
Suicide	129	94	35
Water Transport	0	0	0

Note: Alcohol prevalence data are provided by the Bureau of Epidemiology Services. On July 30, 2020, the definition of alcohol consumption levels, the ICD codes for defining several causes of deaths, were revised. The relative risks and alcohol-attributable fractions were updated to reflect more recent scientific literatures. We applied those revisions in 2019 data above. See Technical Notes: Deaths, Alcohol and Smoking Attributable Mortality.

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

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

Table M15. Smoking-Attributable Deaths and Age-adjusted Death Rates, Age ≥ 35 Years, New York City, 2016 - 2019

	2016						2017						2018						2019					
	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	**4,125**	**3,165**	**7,290**	**208.9**	**116.7**	**156.5**	**4,734**	**3,363**	**8,097**	**233.0**	**116.7**	**165.3**	**4,585**	**3,414**	**7,999**	**223.7**	**118.8**	**163.1**	**4,494**	**3,070**	**7,564**	**212.9**	**105.0**	**150.8**
Cerebrovascular disease	54	55	109	2.8	2.0	2.4	70	62	132	3.5	2.1	2.7	66	68	134	3.3	2.3	2.7	63	61	124	3.0	2.0	2.4
Chronic obstructive pulmonary disease (ages ≥ 65)	424	529	953	24.1	19.6	21.4	494	593	1,088	26.6	20.5	22.8	502	577	1,079	26.3	19.8	22.4	555	539	1,094	27.4	18.6	22.1
Coronary heart disease	1,322	1,073	2,395	66.8	40.0	52.2	1,680	1,141	2,821	83.2	39.9	58.2	1,614	1,207	2,821	79.5	42.1	58.2	1,646	1,076	2,722	78.5	37.0	54.9
Diabetes mellitus	54	33	86	2.6	1.2	1.8	63	32	95	2.9	1.1	1.8	59	31	90	2.7	1.1	1.7	72	32	104	3.1	1.1	1.9
Influenza, pneumonia, Tuberculosis, and COPD (ages 35-64)	197	121	318	7.9	4.3	6.0	167	123	290	6.8	4.3	5.5	186	128	314	7.6	4.6	6.0	194	118	312	7.9	4.3	6.0
Influenza, pneumonia, and tuberculosis (ages ≥ 65)	157	76	233	8.8	2.8	5.2	183	83	266	9.8	2.9	5.6	184	90	274	9.7	3.1	5.7	153	60	213	7.8	2.0	4.3
Lung cancer	1,051	832	1,883	53.2	30.3	39.8	1,065	857	1,922	51.3	29.5	38.5	1,037	847	1,884	49.5	29.4	37.7	917	744	1,661	42.9	25.2	32.5
Other cancers	576	247	822	28.7	8.9	17.2	669	263	932	32.7	9.0	18.8	605	251	856	29.4	8.6	17.3	583	222	805	27.4	7.6	15.9
Other cardiovascular diseases (ages 35-64)*	180	56	237	7.8	2.2	4.9	205	64	269	8.7	2.4	5.4	199	67	266	8.6	2.7	5.5	197	61	258	8.4	2.5	5.3
Other heart disease (ages ≥ 65)†	51	77	128	2.8	2.9	2.9	70	86	156	3.7	3.0	3.3	70	82	152	3.7	2.8	3.2	77	86	163	3.7	2.9	3.3
Other vascular diseases (ages ≥ 65)‡	60	66	125	3.2	2.4	2.8	70	57	127	3.7	2.0	2.7	63	66	129	3.3	2.3	2.7	53	55	108	2.6	1.8	2.2

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*, New York City, 1983-2019

Age and Racial/Ethnic Groups	All														Male												Female										
	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
ALL AGES																																										
Total	75,642	1,115	1,073	933	832	766	609	579	523	483	432	369	331	340	57,706	711	702	603	574	528	402	398	359	332	296	249	230	225	17,936	404	371	330	258	238	207	181	164	151	136	120	101	115
Puerto Rican (PR)	14,138	224	217	187	196	186	115	138	88	102	70	63	44	50	10,383	142	138	125	135	123	75	94	56	68	50	44	31	37	3,755	82	79	62	61	63	40	44	32	34	20	19	13	13
Hispanic (not PR)	6,735	103	118	105	72	46	37	34	43	29	54	43	42	52	5,487	76	84	71	54	39	28	28	36	19	44	34	30	34	1,248	27	34	34	18	7	9	6	7	10	10	9	12	18
Asian & Pacific Islander	487	5	10	3	6	4	5	8	2	5	6	5	3	3	431	3	7	2	3	2	4	5	1	3	6	4	3	3	56	2	3	1	3	2	1	3	1	2	-	1	-	-
Non-Hispanic White	18,860	143	129	90	100	94	80	73	62	50	45	45	48	30	16,401	103	104	68	76	75	63	53	50	40	36	34	33	22	2,459	40	25	22	24	19	17	20	12	10	9	11	15	8
Non-Hispanic Black	31,593	625	583	537	449	421	359	311	298	277	231	201	180	195	21,940	377	356	329	297	277	223	204	196	185	140	124	122	122	9,653	248	227	208	152	144	136	107	102	92	91	77	58	73
Other or Unknown	3,829	15	16	11	9	15	13	15	30	20	26	12	14	10	3,064	10	13	8	9	12	9	14	20	17	20	9	11	7	765	5	3	3	-	3	4	1	10	3	6	3	3	3
0-24																																										
Total	2,396	21	17	15	8	16	13	8	9	8	7	2	2	4	1,315	10	7	6	4	13	6	6	7	5	2	1	2	4	1,081	11	10	9	4	3	7	2	2	3	5	1	-	-
Puerto Rican	452	7	3	2	1	4	2	-	-	2	-	-	1	-	253	3	-	-	-	2	-	-	-	2	-	-	1	-	199	4	3	2	1	2	2	-	-	-	-	-	-	-
Hispanic (not PR)	264	5	-	3	-	-	2	-	-	1	-	1	-	1	162	4	-	-	-	-	1	-	-	-	-	1	-	1	102	1	-	3	-	-	1	-	-	1	-	-	-	-
Asian & Pacific Islander	14	-	-	-	1	-	-	-	-	-	-	-	-	-	9	-	-	-	1	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Hispanic White	360	1	1	3	-	-	-	1	2	1	-	-	-	-	220	1	1	2	-	-	-	-	2	1	-	-	-	-	140	-	-	1	-	-	-	1	-	-	-	-	-	-
Non-Hispanic Black	1,174	8	13	7	6	12	9	7	7	4	7	1	1	3	605	2	6	4	3	11	5	6	5	2	2	-	1	3	569	6	7	3	3	1	4	1	2	2	5	1	-	-
Other or Unknown	132	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-
25-34																																										
Total	17,109	52	77	49	37	40	34	29	28	28	31	33	21	27	12,326	32	48	32	27	29	24	27	17	21	24	22	15	23	4,783	20	29	17	10	11	10	2	11	7	7	11	6	4
Puerto Rican	3,535	8	8	7	11	2	3	5	4	5	3	2	-	2	2,466	3	5	6	7	2	2	5	-	2	2	1	-	2	1,069	5	3	1	4	-	1	-	4	3	1	1	-	-
Hispanic (not PR)	1,808	4	11	3	8	8	6	4	3	2	3	5	3	7	1,439	4	10	2	6	7	5	4	3	2	3	4	2	7	369	-	1	1	2	1	1	-	-	-	-	1	1	-
Asian & Pacific Islander	92	1	-	1	-	2	1	-	-	1	1	2	1	2	78	-	-	-	-	1	1	-	-	1	1	2	1	2	14	1	-	1	-	1	-	-	-	-	-	-	-	-	-
Non-Hispanic White	4,063	3	6	5	1	3	1	2	1	1	-	2	2	1	3,383	2	4	5	1	2	1	1	1	1	-	1	2	1	680	1	2	-	-	1	-	1	-	-	-	1	-	-
Non-Hispanic Black	6,715	35	52	33	17	25	23	17	19	18	24	21	14	14	4,287	22	29	19	13	17	15	16	12	14	18	14	9	10	2,428	13	23	14	4	8	8	1	7	4	6	7	5	4
Other or Unknown	896	1	-	-	-	-	-	1	1	1	-	1	1	1	673	1	-	-	-	-	-	1	1	1	-	-	1	1	223	-	-	-	-	-	-	-	-	-	-	1	-	-
35-44																																										
Total	31,631	311	246	190	142	125	90	73	60	64	54	46	33	33	24,242	177	144	111	94	77	54	45	33	32	31	29	19	22	7,389	134	102	79	48	48	36	28	27	32	23	17	14	11
Puerto Rican	5,769	64	57	45	34	28	17	22	12	8	7	4	6	6	4,293	41	30	26	20	17	10	10	4	6	6	3	4	6	1,476	23	27	19	14	11	7	12	8	2	1	1	2	-
Hispanic (not PR)	2,664	27	37	28	19	8	4	3	7	5	10	5	6	2	2,179	17	23	16	14	8	1	3	5	2	8	4	4	2	485	10	14	12	5	-	3	-	2	3	2	1	2	-
Asian & Pacific Islander	195	2	3	1	-	1	2	3	1	3	1	2	-	-	181	1	3	1	-	-	1	1	-	1	1	2	-	-	14	1	-	-	-	1	1	2	1	2	-	-	-	-
Non-Hispanic White	8,307	46	34	18	16	12	15	7	10	4	5	5	-	2	7,237	32	22	12	11	10	13	3	7	1	4	5	-	1	1,070	14	12	6	5	2	2	4	3	3	1	-	-	1
Non-Hispanic Black	13,103	168	113	98	71	76	49	37	28	40	30	30	18	22	9,076	83	65	56	47	42	28	27	16	20	12	15	9	12	4,027	85	48	42	24	34	21	10	12	20	18	15	9	10
Other or Unknown	1,593	4	2	-	2	-	3	1	2	4	1	-	3	1	1,276	3	1	-	2	-	1	1	1	2	-	-	2	1	317	1	1	-	-	2	-	1	2	1	-	1	-	-
45-54																																										
Total	17,364	448	425	352	330	287	217	215	167	143	106	96	83	71	13,921	289	275	225	219	183	136	140	115	97	63	62	52	41	3,443	159	150	127	111	104	81	75	52	46	43	34	31	30
Puerto Rican	3,210	84	89	65	85	75	46	55	34	38	16	13	13	10	2,463	58	56	51	62	43	29	38	22	25	10	9	5	5	747	26	33	14	23	32	17	17	12	13	6	4	8	5
Hispanic (not PR)	1,361	43	46	46	29	15	14	14	16	9	13	17	9	11	1,165	32	33	35	20	12	12	10	13	7	11	13	7	5	196	11	13	11	9	3	2	4	3	2	2	4	2	6
Asian & Pacific Islander	122	-	5	-	3	-	-	1	1	1	1	-	-	1	112	-	3	-	1	-	-	1	1	1	1	-	-	1	10	-	2	-	2	-	-	-	-	-	-	-	-	-
Non-Hispanic White	4,340	61	45	35	37	41	28	28	16	15	11	14	9	6	3,931	40	37	25	28	30	22	20	13	11	8	11	7	4	409	21	8	10	9	11	6	8	3	4	3	3	2	2
Non-Hispanic Black	7,459	256	231	200	173	150	123	111	87	76	58	45	48	40	5,496	156	139	111	105	95	69	65	55	50	28	24	30	24	1,963	100	92	89	68	55	54	46	32	26	30	21	18	16
Other or Unknown	872	4	9	6	3	6	6	6	13	4	7	7	4	3	754	3	7	3	3	3	4	6	11	3	5	5	3	2	118	1	2	3	-	3	2	-	2	1	2	2	1	1
55-64																																										
Total	5,531	213	231	241	239	213	169	172	174	141	150	117	116	117	4,621	154	173	164	179	159	120	118	130	103	109	84	88	70	910	59	58	77	60	54	49	54	44	38	41	33	28	47
Puerto Rican	960	39	49	49	51	54	34	42	24	33	25	25	10	19	746	23	38	30	38	41	25	33	21	20	19	19	9	15	214	16	11	19	13	13	9	9	3	13	6	6	1	4
Hispanic (not PR)	488	18	15	18	11	9	5	11	13	4	21	11	16	18	416	13	13	12	10	7	4	10	11	1	16	8	13	11	72	5	2	6	1	2	1	1	2	3	5	3	3	7
Asian & Pacific Islander	46	1	-	-	2	-	2	3	-	-	1	-	1	-	38	1	-	-	1	-	2	2	-	1	-	1	-	-	8	-	-	-	-	1	-	-	-	-	-	-	-	-
Non-Hispanic White	1,378	22	32	21	36	30	24	21	20	16	15	17	27	9	1,271	19	30	17	28	25	19	16	18	15	12	12	17	7	107	3	2	4	8	5	5	5	2	1	3	5	10	2
Non-Hispanic Black	2,397	128	131	150	136	112	101	92	106	80	78	61	58	67	1,919	96	88	102	99	78	67	54	75	59	54	42	44	35	478	32	43	48	37	34	34	38	31	21	24	19	14	32
Other or Unknown	262	5	4	3	3	8	3	3	11	8	10	3	4	4	231	2	4	3	3	8	3	3	5	8	7	3	4	2	31	3	-	-	-	-	-	-	6	-	3	-	-	2
≥65																																									
Total	1,610	70	77	86	76	85	86	82	85	99	84	75	76	88	1,280	49	55	65	51	67	62	62	57	74	67	51	54	65	330	21	22	21	25	18	24	20	28	25	17	24	22	23
Puerto Rican	212	22	11	19	14	23	13	14	14	16	19	19	14	13	162	14	9	12	8	18	9	8	9	13	13	12	12	9	50	8	2	7	6	5	4	6	5	3	6	7	2	4
Hispanic (not PR)	150	6	9	7	5	6	6	2	4	8	7	4	8	13	126	6	5	6	4	5	5	1	4	7	6	4	4	8	24	-	4	1	1	1	1	1	-	1	1	-	4	5
Asian & Pacific Islander	18	1	2	1	-	1	-	1	-	-	2	1	1	-	13	1	1	1	-	1	-	1	-	-	2	-	1	-	5	-	1	-	-	-	-	-	-	-	-	1	-	-
Non-Hispanic White	412	10	11	8	10	8	12	14	13	13	14	7	10	12	359	9	10	7	8	8	8	13	9	11	12	5	7	9	53	1	1	1	2	-	4	1	4	2	2	2	3	3
Non-Hispanic Black	745	30	43	49	46	46	54	47	51	59	34	43	41	49	557	18	29	37	30	34	39	36	33	40	26	29	29	38	188	12	14	12	16	12	15	11	18	19	8	14	12	11
Other or Unknown	73	1	1	2	1	1	1	4	3	3	8	1	2	1	63	1	1	2	1	1	1	3	2	3	8	1	1	1	10	-	-	-	-	-	-	1	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.

Table M17. Selected Characteristics of Deaths Due to Fatal Occupational Injuries*, New York City, 2019

		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	**91**	**21**	**10**		**24**	**17**	**17**
Selected Industries							
Government (Federal, State, Local)§	7	4					
Private industry§	84	17				17	17
Goods producing							
Construction & Manufacturing	24					4	6
Service providing							
Trade, transportation, and utilities	23	5				4	5
Financial activities							
Professional and business services							
Educational and health services							
Leisure and hospitality							
Other services, except public admin.	6						
Sex							
Female	10	5					
Male	81	16				15	17
Race or ethnic origin‖							
Non-Hispanic White	24	5	4		5	7	3
Non-Hispanic Black	16	5			4		3
Hispanic	29				13	6	5
Asian	16	5	4				3
Age Group							
<25 years	5						
25-34 years	17				6	5	
35-44 years	16					4	5
45-54 years	12	3					4
55-64 years	28	7			11	4	
>65 years	13	3	3				4

*Source: Bureau of Labor Statistics: Fatal Occupational Injuries in New York City https://www.bls.gov/iif/oshwc/cfoi/tgs/2019/iiffw68.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, 2019

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	**2,540**	**19**	**11**	**6**	**3**	**5**	**3**	**17**	**5**	**56**	**21**	**287**	**82**	**279**	**69**	**329**	**103**	**408**	**129**	**177**	**89**	**214**	**228**
Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist	34	-	-	1	-	-	1	1	-	6	2	8	1	1	-	3	2	1	-	3	1	1	2
Injury to Pedestrians	162	3	1	2	-	3	-	-	-	4	2	14	11	8	1	16	8	27	3	13	11	14	21
Collision with motor vehicle	139	2	1	2	-	1	-	-	-	3	1	11	10	2	1	14	7	24	3	13	10	13	21
Collision with railway transportation	21	1	-	-	-	2	-	-	-	1	1	3	1	6	-	2	1	2	-	-	-	1	-
Other collision	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
Injury to Pedal Cyclist	23	-	-	-	-	2	-	2	-	1	1	4	1	2	-	3	-	2	1	2	1	1	0
Collision with motor vehicle	18	-	-	-	-	2	-	2	-	1	1	3	1	1	-	1	-	1	1	2	1	1	-
Other collision	5	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	1	-	-	-	-	-
Injury to Motorcyclist	25	1	-	-	-	-	-	1	1	1	-	11	-	3	-	-	1	6	-	-	-	-	-
Water Transport Accidents	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Air and Space Transport Accidents	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Other Transport Accidents	19	-	-	-	-	-	-	-	-	1	1	7	-	2	-	2	-	-	2	-	-	2	2
Sequelae (Late Effects) of Transport Accidents	17	-	-	-	-	-	-	-	-	-	-	5	-	-	1	3	1	4	-	3	-	-	-
Fall	531	1	2	1	-	-	-	1	-	4	3	16	2	11	3	12	9	48	16	50	25	158	169
Firearm Discharge	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	24	2	3	-	-	-	-	4	-	1	-	2	3	2	-	1	-	2	1	1	1	-	1
Smoke, Fire, and Flames	49	1	1	2	2	-	1	1	-	1	1	2	.	4	2	2	3	4	5	2	5	2	8
Poisoning by Noxious Substances	1,481	-	-	-	-	-	-	4	4	35	10	208	62	235	59	266	75	291	94	87	34	15	2
Poisoning by psychoactive substances*	1,466	-	-	-	-	-	-	4	4	35	10	206	61	232	58	262	74	290	94	86	34	14	2
Poisoning by other noxious substances	15	-	-	-	-	-	-	-	-	-	-	2	1	3	1	4	1	1	-	1	-	1	.
Exposure to Excessive Natural Heat	5	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	2	-
Exposure to Excessive Natural Cold	17	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	1	1	1	-	2	2	5
Suffocation	62	11	4	-	-	-	-	-	-	1	1	1	-	1	1	4	-	10	2	5	5	10	6
Contact with Machinery	4	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	-	-	-
Other Nontransport Accidents	61	-	-	-	1	.	1	3	-	1	-	5	1	3	2	6	2	6	2	8	3	5	12
Sequelae (Late Effects) of Nontransport Accidents	24	-	-	-	-	-	-	-	-	-	-	3	.	2	-	6	1	4	2	3	1	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, 2019

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	**541**	**0**	**0**	**0**	**1**	**1**	**2**	**12**	**6**	**40**	**10**	**81**	**27**	**51**	**24**	**67**	**26**	**80**	**25**	**35**	**18**	**24**	**11**
Poisoning by Drug and Medicinal Substances	74	-	-	-	-	-	-	1	-	2	1	5	4	4	6	10	11	7	9	5	3	4	2
Poisoning by Other Substances	13	-	-	-	-	-	-	-	-	-	-	2	1	-	1	2	1	4	-	1	-	1	-
Hanging, Strangulation, and Suffocation	219	-	-	-	1	1	2	4	4	16	6	39	9	29	10	27	5	30	4	13	11	7	1
Drowning and Submersion	17	-	-	-	-	-	-	1	-	3	1	2	2	3	-	-	-	2	-	1	-	2	-
Firearm Discharge	47	-	-	-	-	-	-	-	-	4	-	7	-	3	-	7	.	13	-	8	1	4	-
Sharp Object	17	-	-	-	-	-	-	-	-	-	-	4	-	1	-	2	2	2	1	2	-	2	1
Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jumping From High Place	114	-	-	-	-	-	-	5	1	9	2	17	10	5	7	11	6	17	8	4	2	3	7
Jumping or Lying Before Moving Object	33	-	-	-	-	-	-	1	1	4	-	3	1	5	-	7	.	5	3	1	1	1	-
Other and Unspecified Means	3	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-
Sequelae (Late Effects)	4	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	-	-	-	-	-

Table M20. Deaths Due to Assault (Homicide) and Legal Intervention, Overall and by Age and Sex, New York City, 2019

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	328	7	5	1	2	2	1	16	3	44	3	93	9	45	12	33	7	18	6	7	5	4	5
Poisoning by Noxious Substances	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Hanging, Strangulation, and Suffocation	12	-	1	-	-	-	1	-	-	-	1	-	3	1	2	-	-	1	-	-	2	-	-
Drowning and Submersion	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Firearm Discharge	162	-	-	-	-	1	-	13	-	31	1	69	-	25	2	12	2	4	1	-	-	1	-
Smoke, Fire, and Flames	3	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-
Sharp Object	67	-	-	1	1	-	-	3	3	10	.	13	5	11	5	4	2	3	.	1	3	-	2
Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pushing From High Place	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bodily Force	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	-	-	-	-
Neglect, Abandonment, and Other Maltreatment	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Other and Unspecified Means	53	3	2	-	-	1	-	-	-	1	1	6	1	5	2	12	3	6	2	5	-	2	1
Sequelae (Late Effects)	11	-	-	-	-	-	-	-	-	2	-	-	-	-	-	4	-	3	-	1	-	-	1
Legal Intervention, All*	7	-	-	-	-	-	-	-	-	-	-	5	-	2	-	-	-	-	-	-	-	-	-

*All seven 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, 2019

		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	**313**	**24**	**15**	**1**	**1**	**1**	**0**	**2**	**0**	**12**	**1**	**39**	**11**	**30**	**7**	**47**	**10**	**48**	**9**	**23**	**8**	**17**	**7**
Poisoning by Noxious Substances	20	-	-	1	1	-	-	1	-	-	-	1	2	-	3	5	-	2	3	-	-	1	-
Hanging, Strangulation, and Suffocation	3	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Drowning and Submersion	22	-	-	-	-	-	-	-	-	3	-	5	1	1	-	2	2	4	-	2	-	1	1
Firearm Discharge	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke, Fire, and Flames	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sharp or Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falling From High Place	17	-	-	-	-	-	-	-	-	-	1	2	-	2	1	4	-	3	-	-	-	3	1
Other and Unspecified Means	246	24	15	-	-	-	-	1	-	9	-	30	8	25	3	35	8	38	6	20	7	12	5
Sequelae (Late Effects)	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	1	-	-

Table M22. Deaths Due to Complications of Medical and Surgical Care, Overall and by Age and Sex, New York City, 2019

		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	50	1	0	0	0	0	0	0	2	0	0	3	1	2	1	5	5	4	2	6	7	3	8
Adverse Effects From Drugs, Medicaments, and Biological Substances for Therapeutic Use	13	1	-	-	-	-	-	-	2	-	-	-	1	-	-	2	1	1	-	1	3	1	-
Medical Misadventures to Patients During Surgical and Medical Care	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adverse Effects from Medical Devices for Therapeutic Use	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and Unspecified Means	35	-	-	-	-	-	-	-	-	-	-	3	-	2	1	3	4	3	2	4	4	2	7
Sequelae (Late Effects)	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1

Table M23. Deaths Due to Firearms (All Causes), Overall and by Age and Sex, New York City, 2019

		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)	216	-	-	-	-	1	-	13	-	35	1	81	-	30	2	19	2	17	1	8	1	5	-

Table M24. Life Expectancy at Specified Ages, Overall and by Sex and Racial/Ethnic Group, New York City, 1999-2001 and 2009-2011*

All

Exact Age in Years	1999-2001† Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	2009-2011 Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	77.6	79.7	77.7	73.2	80.8	81.9	81.2	76.9
1	77.1	79.0	77.3	73.0	80.2	81.2	80.5	76.6
5	73.2	75.0	73.4	59.0	76.2	77.3	76.5	72.7
10	65.2	70.0	68.5	64.2	71.3	72.3	71.5	67.8
15	63.3	65.1	63.6	59.3	66.3	67.4	66.6	62.8
20	58.4	60.2	58.7	54.5	61.5	62.5	61.7	58.0
25	53.6	55.4	53.9	49.9	56.6	57.6	56.8	53.3
30	48.8	50.5	49.0	45.2	51.8	52.8	51.9	48.6
35	44.1	45.8	44.3	40.7	47.0	48.0	47.0	43.9
40	39.5	41.2	39.6	36.3	42.2	43.2	42.2	39.3
45	35.0	36.7	35.1	32.1	37.6	38.6	37.5	34.9
50	30.7	32.4	30.7	28.2	33.1	34.1	33.0	30.7
55	26.6	28.2	26.5	24.4	28.8	29.8	28.7	26.6
60	22.6	24.1	22.4	20.8	24.7	25.6	24.5	22.9
65	18.8	20.2	18.6	17.5	20.7	21.6	20.5	19.3
70	15.3	16.7	15.1	14.5	17.0	17.8	16.7	16.0
75	12.1	13.3	11.8	11.3	13.4	14.3	13.1	12.9
80	9.2	10.4	8.9	9.3	10.3	11.0	10.0	10.1
85	6.7	7.7	6.4	7.1	7.5	8.1	7.1	7.6

Male

Exact Age in Years	1999-2001† Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	2009-2011 Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	74.5	76.1	74.9	69.1	78.1	78.6	78.8	73.3
1	74.0	75.4	74.5	69.0	77.5	77.9	78.1	73.0
5	70.1	71.4	70.6	65.1	73.5	74.0	74.1	69.1
10	65.2	66.5	65.7	60.2	68.6	69.0	69.2	64.2
15	60.2	61.5	60.8	55.3	63.6	64.1	64.2	59.2
20	55.4	56.6	55.9	50.6	58.8	59.2	59.4	54.5
25	50.7	51.9	51.2	46.1	54.0	54.4	54.6	49.9
30	46.0	47.1	46.4	41.6	49.2	49.6	49.7	45.4
35	41.3	42.5	41.7	37.2	44.5	44.9	44.9	40.8
40	36.8	37.9	37.1	32.9	39.8	40.2	40.1	36.3
45	32.4	33.6	32.7	28.8	35.2	35.7	35.4	32.0
50	28.3	29.5	28.5	25.2	30.8	31.3	31.0	27.9
55	24.4	25.6	24.4	21.8	26.7	27.2	26.8	24.0
60	20.6	21.8	20.5	18.4	22.7	23.2	22.8	20.5
65	17.0	18.2	16.9	15.3	19.0	19.5	19.0	17.2
70	13.8	14.9	13.6	12.6	15.5	16.1	15.3	14.2
75	10.8	12.0	10.6	10.2	12.2	13.0	12.0	11.4
80	8.2	9.4	7.9	8.2	9.3	10.1	9.0	9.0
85	6.1	7.3	5.7	6.6	6.8	7.5	6.5	6.9

Female

Exact Age in Years	1999-2001† Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	2009-2011 Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	80.2	82.6	80.4	76.5	83.2	84.7	83.4	79.8
1	79.7	81.9	79.9	76.2	82.5	84.0	82.6	79.4
5	75.8	77.9	76.0	72.3	78.6	80.0	78.7	75.5
10	70.8	72.9	71.1	67.4	73.6	75.0	73.7	70.6
15	65.9	68.0	66.1	62.4	68.7	70.1	68.7	65.6
20	61.0	63.0	61.2	57.5	63.7	65.1	63.8	60.7
25	56.1	58.1	56.4	52.7	58.8	60.2	58.9	55.8
30	51.2	53.2	51.4	47.9	53.9	55.3	53.9	51.0
35	46.4	48.4	46.6	43.3	49.0	50.4	49.0	46.2
40	41.7	43.7	41.8	38.8	44.2	45.6	44.1	41.5
45	37.1	39.1	37.2	34.4	39.5	40.8	39.4	37.0
50	32.6	34.5	32.6	30.3	34.9	36.2	34.8	32.7
55	28.3	30.0	28.2	26.3	30.5	31.7	30.3	28.5
60	24.1	25.7	23.9	22.4	26.1	27.3	25.9	24.5
65	20.1	21.5	19.9	18.8	21.9	23.0	21.6	20.7
70	16.4	17.7	16.1	15.5	18.0	18.9	17.7	17.1
75	12.9	14.1	12.6	12.5	14.2	15.1	13.9	13.7
80	9.7	10.8	9.4	9.8	10.8	11.5	10.5	10.6
85	7.0	7.9	6.7	7.3	7.8	8.4	7.5	7.8

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 2000 and 2010 are used to calculate 1999-2001 and 2009-2011 life expectancy, respectively. See Technical Notes: Population.
† World Trade Center (WTC) disaster deaths are excluded. See Special Section in the 2002 Summary of Vital Statistics, Table WTC10, for the impact of WTC deaths on life expectancy in New York City.

Table M25. Life Expectancy at Specified Ages, Overall and by Sex, New York City, 2010 - 2019

Total

Exact Age in Years	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
0	80.9	80.9	81.1	81.1	81.3	81.2	81.2	81.2	81.3	81.3
1	80.3	80.3	80.5	80.4	80.6	80.5	80.5	80.6	80.6	80.6
5	76.3	76.3	76.5	76.5	76.6	76.6	76.5	76.6	76.6	76.7
10	71.4	71.4	71.6	71.5	71.7	71.6	71.6	71.7	71.7	71.8
15	66.4	66.4	66.6	66.6	66.8	66.7	66.6	66.7	66.7	66.8
20	61.6	61.5	61.7	61.6	61.8	61.7	61.7	61.8	61.8	61.9
25	56.7	56.7	56.9	56.8	57.0	56.9	56.8	56.9	56.9	57.0
30	51.9	51.9	52.0	51.9	52.1	52.1	52.0	52.1	52.1	52.2
35	47.1	47.1	47.2	47.1	47.3	47.3	47.2	47.3	47.3	47.4
40	42.3	42.3	42.5	42.4	42.6	42.5	42.5	42.6	42.5	42.7
45	37.6	37.6	37.8	37.7	37.9	37.8	37.8	37.9	37.9	38.0
50	33.1	33.2	33.3	33.1	33.3	33.2	33.2	33.3	33.3	33.4
55	28.8	28.8	28.9	28.8	28.9	28.9	28.9	28.9	28.8	28.9
60	24.7	24.7	24.7	24.6	24.7	24.6	24.7	24.6	24.6	24.6
65	20.8	20.7	20.7	20.6	20.7	20.6	20.6	20.6	20.5	20.5
70	17.0	17.0	17.0	16.9	17.0	16.9	17.0	16.9	16.8	16.9
75	13.5	13.4	13.5	13.4	13.6	13.5	13.6	13.6	13.4	13.6
80	10.3	10.3	10.4	10.4	10.5	10.5	10.6	10.6	10.6	10.8
85	7.5	7.4	7.5	7.4	7.5	7.4	7.6	7.6	7.5	7.7

Male

Exact Age in Years	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
0	78.1	78.2	78.4	78.3	78.5	78.6	78.5	78.5	78.6	78.5
1	77.5	77.6	77.8	77.7	77.9	77.9	77.8	77.9	77.9	77.8
5	73.6	73.6	73.9	73.8	74.0	74.0	73.8	73.9	74.0	73.9
10	68.6	68.7	68.9	68.8	69.0	69.0	68.9	69.0	69.0	68.9
15	63.6	63.8	64.0	63.9	64.1	64.1	63.9	64.0	64.1	64.0
20	58.8	58.9	59.1	59.0	59.2	59.2	59.0	59.1	59.2	59.1
25	54.1	54.2	54.3	54.2	54.4	54.4	54.2	54.3	54.4	54.2
30	49.3	49.4	49.6	49.4	49.6	49.6	49.4	49.6	49.6	49.5
35	44.5	44.6	44.8	44.6	44.9	44.9	44.7	44.9	44.9	44.8
40	39.8	39.9	40.1	39.9	40.2	40.2	40.1	40.3	40.2	40.2
45	35.2	35.3	35.5	35.3	35.5	35.5	35.5	35.6	35.6	35.6
50	30.8	30.9	31.1	30.9	31.1	31.0	31.0	31.1	31.1	31.1
55	26.7	26.7	26.9	26.6	26.8	26.8	26.7	26.8	26.8	26.7
60	22.7	22.8	22.8	22.6	22.8	22.7	22.7	22.7	22.7	22.6
65	19.0	19.1	19.1	18.8	19.0	18.8	18.8	18.8	18.8	18.7
70	15.5	15.5	15.6	15.4	15.6	15.5	15.5	15.4	15.3	15.4
75	12.2	12.3	12.3	12.2	12.4	12.2	12.3	12.3	12.2	12.4
80	9.3	9.4	9.4	9.4	9.5	9.5	9.6	9.5	9.5	9.7
85	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.8	6.7	6.9

Female

Exact Age in Years	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
0	83.3	83.2	83.4	83.4	83.6	83.5	83.5	83.6	83.6	83.8
1	82.7	82.6	82.7	82.7	82.9	82.8	82.8	83.0	82.8	83.1
5	78.7	78.6	78.8	78.8	79.0	78.8	78.9	79.0	78.9	79.2
10	73.8	73.7	73.8	73.8	74.0	73.9	73.9	74.0	73.9	74.2
15	68.8	68.7	68.9	68.9	69.0	68.9	68.9	69.1	69.0	69.3
20	63.9	63.8	63.9	63.9	64.1	63.9	64.0	64.1	64.0	64.3
25	58.9	58.9	59.0	59.0	59.2	59.0	59.1	59.2	59.1	59.4
30	54.0	53.9	54.1	54.1	54.3	54.1	54.2	54.3	54.2	54.5
35	49.1	49.1	49.2	49.2	49.4	49.3	49.3	49.4	49.3	49.6
40	44.3	44.2	44.4	44.4	44.6	44.5	44.5	44.6	44.5	44.8
45	39.6	39.5	39.6	39.6	39.8	39.7	39.8	39.8	39.7	40.0
50	35.0	34.9	35.0	35.0	35.1	35.1	35.1	35.1	35.0	35.3
55	30.5	30.5	30.5	30.5	30.6	30.5	30.6	30.6	30.5	30.7
60	26.2	26.1	26.2	26.1	26.2	26.2	26.2	26.1	26.0	26.3
65	22.0	21.9	22.0	21.9	22.0	21.9	22.0	21.9	21.7	22.0
70	18.1	18.0	18.0	18.0	18.0	17.9	18.0	17.9	17.8	18.0
75	14.4	14.2	14.3	14.3	14.3	14.3	14.5	14.4	14.2	14.5
80	10.9	10.8	11.0	11.0	11.1	11.1	11.2	11.3	11.2	11.4
85	7.8	7.7	7.8	7.8	7.9	7.8	8.0	8.0	8.0	8.2

Note: Population data from 2010 are based on 2010 Census counts. Population data for 2011-2019 are extrapolated from the 2000 and 2010 US Census since the life tables are derived from a complete life table, which requires single year of age population data. 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, 2019

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	432,096	100.0	271,828	100.0	160,268	100.0
Malignant Neoplasms	98,544	22.8	49,644	18.3	48,900	30.5
Trachea, bronchus, and lung	13,119	3.0	7,250	2.7	5,869	3.7
Breast	10,489	2.4	33	0.0	10,456	6.5
Colon, rectum, and anus	9,339	2.2	5,429	2.0	3,910	2.4
Pancreas	6,949	1.6	3,872	1.4	3,077	1.9
Leukemia	5,436	1.3	3,099	1.1	2,337	1.5
Heart Disease	74,097	17.1	50,725	18.7	23,372	14.6
Use of or Poisoning by Psychoactive Substance	42,563	9.9	32,743	12.0	9,820	6.1
Accidents Except Poisoning by Psychoactive Substance	18,085	4.2	13,339	4.9	4,746	3.0
Motor vehicle	6,156	1.4	4,694	1.7	1,462	0.9
Intentional Self-harm (Suicide)	15,865	3.7	11,597	4.3	4,268	2.7
Diabetes Mellitus	13,762	3.2	8,975	3.3	4,787	3.0
Assault (Homicide)	12,699	2.9	10,665	3.9	2,034	1.3
Cerebrovascular Diseases	9,713	2.2	5,754	2.1	3,959	2.5
Chronic Lower Respiratory Diseases	9,206	2.1	4,994	1.8	4,212	2.6
Chronic Liver Disease and Cirrhosis	8,565	2.0	6,132	2.3	2,433	1.5
Influenza and Pneumonia	8,301	1.9	5,191	1.9	3,110	1.9
Mental and Behavioral Disorders Due to Use of Alcohol	7,445	1.7	5,848	2.2	1,597	1.0
HIV Disease	6,605	1.5	4,428	1.6	2,177	1.4
Viral Hepatitis	1,824	0.4	1,394	0.5	430	0.3
All Other Causes	104,822	24.3	60,399	22.2	44,423	27.7

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

Table M27. Death Rates by Poverty Level Indicator, New York City, 2010 and 2019

Age-adjusted Death Rates	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
	2019	2010	Change 2010 to 2019 (%)	2019	2010	Change 2010 to 2019 (%)	2019	2010	Change 2010 to 2019 (%)	2019	2010	Change 2010 to 2019 (%)
All Causes	411.4	494.4	-16.8%	475.2	535.2	-11.2%	540.5	601.5	-10.1%	653.7	722.2	-9.5%
Premature Deaths	111.8	129.5	-13.6%	147.1	159.4	-7.7%	193.1	191.3	0.9%	272.4	270.5	0.7%
10 Leading Causes												
Diseases of Heart	138.0	175.8	-21.5%	159.9	191.4	-16.5%	174.0	211.0	-17.5%	204.9	233.6	-12.3%
Malignant Neoplasms	98.8	137.2	-28.0%	108.1	133.7	-19.1%	113.2	137.2	-17.5%	129.1	158.9	-18.8%
Diabetes Mellitus	11.8	11.7	0.9%	17.0	18.5	-8.1%	22.8	22.5	1.3%	28.5	32.3	-11.8%
Cerebrovascular Diseases	12.9	14.3	-9.8%	16.2	16.2	0.0%	17.6	19.1	-7.9%	23.9	22.7	5.3%
Chronic Lower Respiratory Diseases	14.0	17.4	-19.5%	14.8	17.5	-15.4%	19.3	19.0	1.6%	22.2	25.4	-12.6%
Influenza and Pneumonia	10.3	23.4	-56.0%	13.9	26.5	-47.5%	17.8	29.1	-38.8%	24.1	34.2	-29.5%
Use of or Poisoning by Psychoactive Substances	9.0	5.2	73.1%	12.5	5.2	140.4%	18.2	6.7	171.6%	29.0	11.7	147.9%
Essential Hypertension and Hypertensive Renal Diseases	9.0	8.4	7.1%	11.1	9.6	15.6%	14.1	13.5	4.4%	17.9	18.1	-1.1%
Alzheimer's Disease	9.2	6.5	41.5%	9.3	5.4	72.2%	10.2	6.0	70.0%	12.2	7.7	58.4%
Accidents Except Poisoning by Psychoactive Substances	8.1	9.9	-18.2%	10.2	8.9	14.6%	11.0	10.1	8.9%	11.4	10.2	11.8%

Note: The 2010 poverty level is based on the 2007-2011 US Census Bureau American Community Survey, and the 2019 poverty level is based on the 2014-2018 US Census Bureau American Community Survey.

Table M28. Leading Causes of Death, New York City, 2010, 2018 and 2019

	2019		2018			2010		
Cause	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to 2019 (%)	Rank	Crude Death Rate	Change to 2019 (%)
Diseases of Heart*	1	213.8	1	211.3	1.2%	1	217.3	-1.6%
Malignant Neoplasms	2	149.3	2	155.2	-3.8%	2	161.6	-7.6%
Diabetes Mellitus	3	22.7	4	23.4	-3.0%	6	20.7	9.7%
Cerebrovascular Diseases	4	22.7	5	22.5	0.9%	7	19.2	18.2%
Chronic Lower Respiratory Diseases	5	21.8	6	21.2	2.8%	5	20.8	4.8%
Influenza and Pneumonia	6	19.5	3	23.9	-18.4%	4	29.8	-34.6%
Use of or Poisoning by Psychoactive Substance†	7	18.7	7	17.9	4.5%	11	8.1	130.9%
Essential Hypertension and Renal Diseases	8	15.9	8	15.1	5.3%	8	12.7	25.2%
Alzheimer's Disease	9	13.7	9	14.2	-3.5%	12	7.0	95.7%
Accidents Except Drug Poisoning	10	12.9	10	12.4	4.0%	9	11.3	14.2%

*See the *2010 Summary of Vital Statistics: Mortality – Special Section: Cause of Death Quality Improvement Initiative* for information on the recent trends in cause of death reporting, particularly heart disease.
†Appendix B Technical Notes: Drug-Related Deaths.

TECHNICAL NOTES

POPULATION

Citywide Population

The 2019 NYC population estimates used in the tables and figures are based on the US Census Bureau 2019 Vintage population estimate as extracted from the Census website (https://www2.census.gov/programs-surveys/popest/datasets/2010-2019/counties/asrh/cc-est2019-alldata-36.csv). The 2019 US Census population estimate for New York City (NYC) is 8,336,817. See Table PC2 for 2019 NYC population estimates by age, mutually exclusive race and Hispanic origin, and sex. Population data used to compute rate trends (2010-2019), regardless of NYC geography presented, was estimated by DOHMH, Epidemiology Services, using the methodology found below under Community District Population Estimates. Population estimates for 2012-2019 are from Census Bureau vintage files from each year, respectively.

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. 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 2010 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 should not be added to percentages for racial categories.

TECHNICAL NOTES

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.

2019 Community District estimates

The 2019 Community District population estimates were calculated based on the census postcensal estimate for 2019 released in June 2020 (See Historical Technical Notes for previous years' methods).

LIFE EXPECTANCY

For life expectancy computations, single-year age group populations were based on decennial census counts. Life expectancies for 2001-2009 have been updated from the previous Summary using linear interpolation of single-year age group populations based on 2000 and 2010 census counts. Citywide life expectancies by sex and race/ethnicity for 2010 are calculated based on 2010 census population. Population data for life expectancies for 2011-2019 were extrapolated based on single-year age groups of Census population, 2000 and 2010. Life expectancy for Asians and Pacific Islanders is not displayed because the required single year of age population denominators are too small to produce reliable estimates. Also see Technical Notes: Deaths, Life Expectancy.

AGE CATEGORIES

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

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 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 White, non-Hispanic 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 Appendix A: 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 Appendix A: 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 (Summary Figures 1-2; Appendix A Tables M24-M25) or New York State of Health (Summary Figures 3-4), including deaths to New York City residents that occurred outside of New York City. For more information, see Life Expectancy.

Birthplace Presentation

Mortality Data

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

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

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

Borough of Residence

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

Community District (CD)

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

Neighborhood Poverty Indicator

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

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

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

VITAL EVENT RATES

DEATH RATES

Death Rate, all causes per 1,000 population

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

Death Rate, specified causes per 100,000 population

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

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

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

Death Rate, age-adjusted per 100,000 population

The number of deaths per 100,000 population. Sex and race/ethnicity specific death rates are adjusted using the US standard population age distribution eliminating the effect of differences in population age composition and allowing comparisons over time and between geographic areas. In this publication, 5 age groups are used for calculation: 0-24, 25-44, 45-64, 65-84, 85+, except for Appendix Table M2 which uses the age groups in the table.

Maternal Mortality Ratio – World Health Organization Definition (Appendix 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, Appendix A). 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 Appendix A) 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 behind Appendix B)

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

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

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

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

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

TECHNICAL NOTES

Death Reporting

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

Death certificates must be filed within 72 hours of death or finding the body. During 2019, 94.6% of death certificates were filed electronically using the Electronic Vital Events Registration System (EVERS, now replaced by eVital as of October 15, 2018). 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

https://www1.nyc.gov/site/doh/providers/reporting-and-services/evital.page.

Cause of Death-Quality Improvement Initiative

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

Cause of Death Coding

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

TECHNICAL NOTES

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

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

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

COMPARABILITY RATIO

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

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

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

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

SMOKING- AND ALCOHOL-ATTRIBUTABLE MORTALITY

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

SMOKING-ATTRIBUTABLE MORTALITY (SAM)

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

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

where p_0 is the percentage of adult never-smokers in New York City; p_1 is the percentage of adult current smokers in New York City; p_2 is the percentage of adult former-smokers in New York City; RR_1 is the relative risk of death for adult current smokers relative to adult never-smokers; and RR_2 is the relative risk of death for adult former-smokers relative to adult never-smokers.

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

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

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates. A detailed description of the methodology is available at: https://chronicdata.cdc.gov/Health-Consequences-and-Costs/Smoking-Attributable-Mortality-Morbidity-and-Econo/w47i-r23n.

Beginning 2014, substantial changes in SAM calculation were made based on 2014 Surgeon General Report using more age strata and using updated relative risks. Four new conditions were also added – colorectal cancer (C18-C20), liver cancer (C22), diabetes (E10-E14) and tuberculosis (A16-A19). In addition, C66 (cancer of ureter) to kidney cancer was added – this was inadvertently omitted when CDC analyses began being based on ICD-10 several years ago. See chapter 12 of 2014 Surgeon General Report at following link: https://www.ncbi.nlm.nih.gov/books/NBK179276/pdf/Bookshelf_NBK179276.pdf

ALCOHOL-ATTRIBUTABLE MORTALITY (Appendix A Table M14)

Alcohol-attributable deaths in Appendix A 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:

$$AAF = [\sum p(RR - 1)] / [1 + (\sum p(RR - 1)]$$

where p is the percentage of New York City men and women aged 20 years and older who consume alcohol at a specified level of average daily alcohol consumption within a given year, and RR is the relative risk of death from a particular condition at a specified level of average daily alcohol consumption. There are three categories of alcohol consumption used, "Low", "Medium", and "High" with differing cutoffs depending on the literature assessed associated conditions. To estimate AAM, AAFs were multiplied by the number of New York City deaths for specific causes defined by the CDC's National Center for Chronic Disease Prevention and Health Promotion. Detailed description of the methodology is available at: https://www.cdc.gov/alcohol/ardi/alcohol-related-icd-codes.html.

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

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

TECHNICAL NOTES

Complications of Medical and Surgical Care (Appendix A 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, Appendix A 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 Appendix A 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 Appendix A Table 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; Appendix A Tables M18-M23)

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

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

Deaths classified as "events of undetermined intent" are considered due to external causes for the purpose of statistical analysis.

Information on errors in coding external causes of death prior to 2007 is described in Cause of Death Coding.

Fatal Occupational Injuries (Appendix A Table M17)

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

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

Heart Disease Deaths

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

TECHNICAL NOTES

HIV and AIDS Mortality

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

Homicide (Mortality Figure 21; Appendix A Table M20)

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

NYPD reports homicides as counts of Murder and Non-Negligent Manslaughter using rules and procedures from the Federal Bureau of Investigation's Uniform Crime Reporting System (UCR). The count includes deaths determined to be both criminal and satisfying the UCR guidelines. NYPD judges some homicides as justifiable and reports these separately to the FBI. BVS reports a death as a homicide based on the ICD-10 system. ICD-10 defines legal intervention as "injuries inflicted by police or other law-enforcing agents … in the course of arresting or attempting to arrest … and other legal action." Since 2003, deaths from legal intervention have been reported separately in Appendix A, 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; Appendix A 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, non-Hispanic Whites and non-Hispanic Blacks. Life expectancy tables by race/ethnicity for New York City are generally presented for census years when accurate population data are available. The mortality experience for the census year, the year before, and the year after is used to smooth statistical variation (Table M24). However, 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, Appendix A Tables M24, M25 are calculated by complete life tables (for a single year of age). Life expectancies in Figures 3-4 are calculated by abridged life tables (age groups).

The number of Asian and Pacific Islander deaths is too small to generate reliable life expectancies and therefore are not presented either in Mortality Figure 2 or Appendix A. Table M24.

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

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

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

Maternal Death and Maternal Mortality (Appendix A 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, Appendix A Table M18)

The Bureau of Vital Statistics (BVS) methodology for counting Motor Vehicle Deaths differs from that of the Department of Transportation (DOT) and NYPD in several ways. First, DOT and NYPD include deaths resulting from motor vehicle crashes that happen within NYC city limits, regardless of where the death occurred, whereas BVS reports deaths that happen within NYC city limits, regardless of where the crash occurred. Second, in cases where serious injury suffered during a motor vehicle crash results in death from injury sequelae (e.g., death occurs one month later) the fatality will be counted by DOT and NYPD for the month during which the crash occurred. However, BVS will report that same death by the actual date of death, not the date of injury occurrence. Third, DOT and NYPD do not include deaths resulting from illness while operating a motor vehicle in their traffic fatality count, while BVS does, consistent with the standardized NCHS approach. Lastly, DOT and NYPD reports do not include deaths which occur on private roadways, such as driveways, while BVS reports do 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; Appendix A Table M9-10)

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 Appendix A, 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 due to the effect this large number would have on year-to-year trends.

YEARS OF POTENTIAL LIFE LOST (Mortality Appendix A 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 behind Appendix B)

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

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

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

BIRTH REPORTING

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

BIRTH RATES

See Vital Event Rates.

TECHNICAL NOTES

Data Presentation

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

Breast Feeding (Appendix A, 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 Appendix A 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.

Appendix A: 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 Age-specific birth rate under VITAL EVENT RATES.

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 Appendix A, Tables PO4-PO7, PO11, and PO12, respectively, include either gestational age categories or a dichotomous indicator of preterm (<37 weeks gestation) birth.

Beginning 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 behind Appendix B)

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 behind Appendix B)

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

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

Spontaneous and Induced Termination of Pregnancy Rates

See VITAL EVENT RATES.

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

2013-2018

Tables and figures with 2013-2018 data use intercensal population estimates determined by the Census Bureau in 2013-2018 vintage files. Tables and figures with 2001-2012 data use intercensal population estimates determined by the Census Bureau released as of September 2012.

2010-2018

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

2007-2009

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

2005-2006

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

2000-2004

Population counts used US Census citywide decennial population counts.

Intercensal years between 1990 and 2000

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

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

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

Intercensal years through 1989

Intercensal counts were estimated using a linear interpolation.

1960, 1970, 1980, 1990, 2000

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

COMMUNITY DISTRICT

2013-2018

Community District population estimates for 2013-2018 were based on census intercensal estimates by county, age, race, and sex, 2013-2018 vintages, and interpolated by Bureau of Epi Services. See following description of 2012 data for details.

2012

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

2011

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

2010

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

2008-2009

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

2005-2006

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

HEALTH CENTER DISTRICT

Through 2007

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

Through 2007

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

2005-2006

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

RACE/ETHNIC GROUP

2000-2001

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

TECHNICAL NOTES

DEMOGRAPHIC CHARACTERISTICS OF VITAL EVENTS

RACE, ANCESTRY AND ETHNIC GROUP

Through 2007

The birth certificate allowed the selection of one race category.

1991-2005

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

Through 2002

The death certificate allowed the selection of one race category.

1999

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

BIRTHPLACE

2000-2005

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

GEOGRAPHICAL UNITS

COMMUNITY DISTRICT

Prior to 2003

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

PLACE OF BIRTH

Through 1995

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

DEATHS

DEATH REPORTING

Through 1992

Medical certifier provided race and ancestry information.

RACE/ETHNICITY

1993 – present

The death certificate was revised in June 1993 to require funeral directors to provide ancestry information, presumably from decedents' family members.

Through 1992

Medical certifier provided ancestry information.

CAUSE OF DEATH CODING

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 an “other” or unknown ancestry increased.

MOTHER'S MARITAL STATUS

Through 1996

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

2008 REVISED NYC BIRTH CERTIFICATE

2008

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

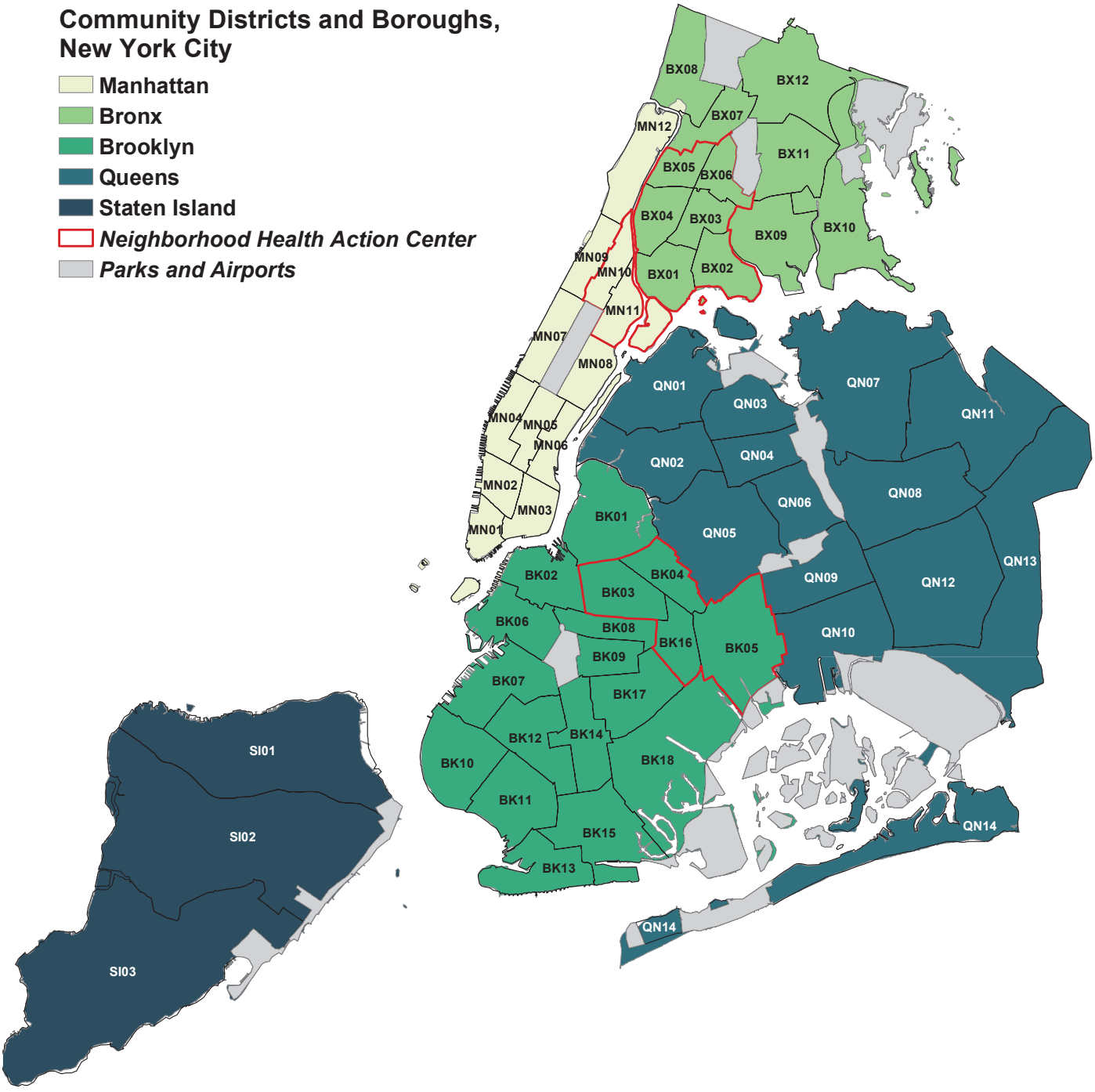
INDUCED AND SPONTANEOUS TERMINATION OF PREGNANCY

REPORTING

Through 2007

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

COMMUNITY DISTRICTS AND BOROUGHS, NEW YORK CITY



VITAL EVENT CERTIFICATES

VR-6S
(Rev. 12/09)

DATE FILED

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

CERTIFICATE OF BIRTH

CERTIFICATE NO.

Cert. No.

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

2. SEX

3a. NUMBER DELIVERED of this pregnancy

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

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

4b. TIME ☐ AM ☐ PM

5. PLACE OF BIRTH

5a. NEW YORK CITY BOROUGH

5b. Name of Hospital or other facility (if not facility, street address)

5c. TYPE OF PLACE ☐ Hospital ☐ Freestanding Birthing Center ☐ Clinic/Doctor's Office ☐ Other-specify: _____

☐ Home Delivery: Planned to deliver at home? ☐ Yes ☐ No ☐ Unknown

6a. MOTHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last) SEX ___M ___F

6b. MOTHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)

6c. MOTHER/PARENT'S BIRTHPLACE City & State or foreign country

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

7c. City or town

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

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

8a. FATHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last) SEX ___M ___F

8b. FATHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)

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

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

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

Signed _____

Name of Signer _____ (Type or Print)

Address _____

Date Signed _____, Year - yyyy _____

Place:

Died: Date:

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

Address ..... Apt. .....

City ..... State ..... ZIP .....

Father/Parent's SSN: _____

YES ☐ NO ☐

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

Mother/Parent's SSN: _____

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.

VOID

VR-6S
(Rev. 12/09)

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

CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)

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

(Each question MUST be answered)

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

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

10. PARENT'S RACE

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

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

Name of enrolled or principal tribe

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

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

Specify

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

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

Specify

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

☐	Other	☐

Specify

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

11. PARENT'S ANCESTRY

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

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

Specify

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

☐	NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukranian, Nigerian, Taiwanese, etc.)	☐

Specify

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

12. PARENT'S LENGTH OF TIME IN US

a. Mother/Parent: If born outside of the United States, how long lived in U.S.?
years _____ **or** if < 1 yr, months _____

b. Father/Parent: If born outside of the United States, how long lived in U.S.?
years _____ **or** if < 1 yr, months _____

13. PARENT'S EDUCATION

(Check the box that best describes the highest degree or level of school completed at time of delivery)

a. Mother/Parent		b. Father/Parent
☐	8th grade or less; none	☐
☐	9th-12th grade, no diploma	☐
☐	High school graduate or GED	☐
☐	Some college credit, but no degree	☐
☐	Associate degree (e.g., AA, AS)	☐
☐	Bachelor's degree (e.g., BA, AB, BS)	☐
☐	Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	☐
☐	Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	☐

14. PARENT'S OCCUPATION

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

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

15. PRENATAL HISTORY

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

b. Those born alive may have been Preterm, Low Birth Weight or both. Please indicate:
1. Number Preterm (< 37 wks.) _____ ☐ None
2. Number Low Birth Weight (< 2500 grams or 5 lbs. 8 oz.) _____ ☐ None

c. 1. Total Number of other Pregnancy Outcomes (Spontaneous or Induced Terminations): _____ ☐ None
2. Number of Spontaneous Terminations of Pregnancy less than 20 Weeks _____ ☐ None
3. Number of Spontaneous Terminations of Pregnancy 20 Weeks or More _____ ☐ None
4. Number of Induced Terminations of Pregnancy _____ ☐ None

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

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

f. Date of Last other Pregnancy Outcome (mm/yyyy) _____/_____

g. Date Last Normal Menses began (mm/dd/yyyy) _____/_____/_____

16. PRENATAL CARE

a. Total Number of Prenatal Visits for this Pregnancy
☐ None _____

b. Date of First Prenatal Care Visit
(mm/dd/yyyy) _____/_____/_____

c. Date of Last Prenatal Care Visit
(mm/dd/yyyy) _____/_____/_____

d. Primary Prenatal Care Provider Type
(Check **one**)

☐ MD/DO	☐ No Provider
☐ C(N)M/NP/PA/Other Midwife	☐ No Information
☐ Clinic	☐ Other

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

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

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

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

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

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

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

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

i. Illicit and other Drugs Used During This Pregnancy?
☐ Yes ☐ No
If yes, check **all** that apply

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

j. Mother/Parent Pre-Pregnancy Weight _____ pounds

k. Mother/Parent Height _____ feet _____ inches

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

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

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

17. FINANCIAL COVERAGE

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

☐ Medicaid/Family Health Plus	☐ 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

VR-6S
(Rev. 12/09)

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (2 of 2)

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

NAME OF CHILD _____ CERTIFICATE NO. _____

19. LABOR AND DELIVERY

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

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

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

2. Complications from any of the above?
☐ Yes ☐ No

Method of Delivery

f. Fetal Presentation at Birth
☐ Cephalic ☐ Other
☐ Breech

g. Final route and method of delivery (Check **one**)
☐ Vaginal/Spontaneous ☐ Vaginal/Vacuum
☐ Vaginal/Forceps ☐ Cesarean

1. If cesarean, was trial of labor attempted?
☐ Yes ☐ No

2. Indications for C-Section ☐ Unknown
(Select **all** that apply)
☐ Maternal condition-not pregnancy related
☐ Failure to progress ☐ Maternal condition-pregnancy related
☐ Malpresentation ☐ Refused VBAC
☐ Previous C-Section ☐ Elective
☐ Fetus at risk/NFS ☐ Other

3. Was delivery with forceps attempted but unsuccessful?
☐ Yes ☐ No

4. Indications for Forceps ☐ Unknown
(Select **all** that apply)
☐ Fetus at Risk
☐ Failure to progress ☐ Other

5. Was delivery with vacuum extraction attempted but unsuccessful?
☐ Yes ☐ No

6. Indications for Vacuum ☐ Unknown
(Select **all** that apply)
☐ Fetus at Risk
☐ Failure to progress ☐ Other

h. Other Procedures Performed at Delivery (Check **all** that apply)
☐ Episiotomy & repair ☐ Repair of lacerations
☐ Sterilization ☐ 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 ☐ Severe pre-eclampsia
☐ Bleeding ☐ Woman Refused Transfer
☐ Fetus at Risk ☐ 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 ☐ Both
☐ Formula ☐ Neither

Congenital Anomalies

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

13. None of those listed above ☐

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

CERTIFICATE OF DEATH

Certificate No.

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

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

Place Of Death	2a. New York City / 2b. Borough	2c. Type of Place	2d. Any Hospice care in last 30 days	2e. Name of hospital or other facility (if not facility, street address)
		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 _____	1 ❑ Yes 2 ❑ No 3 ❑ Unknown	

Date and Time of Death	3a. (Month) (Day) (Year-yyyy)	3b. Time ❑ AM ❑ PM	4. Sex	5. Date last attended by a Physician mm dd yyyy

6. Certifier: I certify that death occurred at the time, date and place indicated and that to the best of my knowledge traumatic injury or poisoning DID NOT play any part in causing death, and that death did not occur in any unusual manner and was due entirely to NATURAL CAUSES. **See instructions on reverse of certificate.**

Name of Physician _____ (Type or Print) Signature _____ D.O. M.D.

Address _____ License No. _____ Date _____

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

7a. Usual Residence State	7b. County	7c. City or Town	7d. Street and Number Apt. No. ZIP Code	7e. Inside City Limits? 1 ❑ Yes 2 ❑ No

8. Date of Birth (Month) (Day) (Year-yyyy)	9. Age at last birthday (years) 1	Under 1 Year: Months 2 / Days 3	Under 1 Day: Hours 4 / Minutes 5	10. Social Security No.

11a. Usual Occupation (Type of work done during most of working life. Do not use "retired")	11b. Kind of business or industry	12. Aliases or AKAs

13. Birthplace (City & State or Foreign Country)	14. Education (Check the box that best describes the highest degree or level of school completed at the time of death)
	1 ❑ 8th grade or less; none 2 ❑ 9th – 12th grade; no diploma 3 ❑ High school graduate or GED 4 ❑ Some college credit, but no degree 5 ❑ Associate degree (e.g., AA, AS) 6 ❑ Bachelor's degree (e.g., BA, AB, BS) 7 ❑ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) 8 ❑ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

15. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No	16. Marital/Partnership Status at time of death 1 ❑ Married 2 ❑ Domestic Partnership 3 ❑ Divorced 4 ❑ Married, but separated 5 ❑ Never Married 6 ❑ Widowed 7 ❑ Other, Specify _____ 8 ❑ Unknown	17. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)

18. Father's Name (First, Middle, Last)	19. Mother's Maiden Name (Prior to first marriage) (First, Middle, Last)

20a. Informant's Name	20b. Relationship to Decedent	20c. Address (Street and Number Apt. No. City & State ZIP Code)

21a. Method of Disposition 1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery 5 ❑ Other Specify _____	21b. Place of Disposition (Name of cemetery, crematory, other place)

21c. Location of Disposition (City & State or Foreign Country)	21d. Date of Disposition mm dd yyyy

22a. Funeral Establishment	22b. Address (Street and Number City & State ZIP Code)

VR 15 (Rev. 01/09)

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

CONFIDENTIAL MEDICAL REPORT

VR 15 (Rev. 01/09)

Certificate No.

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

23. Ancestry (Check one box and specify)

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

Specify _____

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

Specify _____

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

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

DECEDENT'S LEGAL NAME (Type or Print)

CAUSE OF DEATH–Enter the chain of events—diseases, complications or abnormalities–that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology.

IMMEDIATE CAUSE → FINAL disease or condition resulting in death.

Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE (disease that initiated the events resulting in death) LAST.

OPERATION-Enter in Part II information on operation or procedure related to disease or conditions listed in Part I.

SUBSTANCE USE Include the use of tobacco, alcohol or other substance if this caused or contributed to death. SPECIFY IN PART I or PART II.

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

PART I		APPROXIMATE INTERVAL: ONSET TO DEATH
	a. IMMEDIATE CAUSE	
	b. DUE TO OR AS A CONSEQUENCE OF	
	c. DUE TO OR AS A CONSEQUENCE OF	
	d. DUE TO OR AS A CONSEQUENCE OF	
PART II	OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH but not resulting in the underlying cause given in Part I. Include operation information.	

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

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

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

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

27c. Date of Outcome: mm dd yyyy

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

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

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

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

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

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

CERTIFICATE OF DEATH

Certificate No.

❑ New
❑ Corr/Amend
❑ Replacement

DOHMH USE ONLY

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

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

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

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

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

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

6. CAUSE OF DEATH
PART I
a. Immediate cause
b. Due to or as a consequence of
c. Due to or as a consequence of
APPROXIMATE INTERVAL: ONSET TO DEATH
PART II
Other significant conditions contributing to death but not resulting in the underlying cause given in Part I. Include operation information.

7a. Injury Date (mm dd yyyy)
7b. Time ❑ AM ❑ PM
7c. At Work 1 ❑ Yes 2 ❑ No
7d. Place of Injury – At home, factory, street, etc.
7e. Location
7f. How Injury Occurred

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

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

11a. Usual Residence State
11b. County
11c. City or Town
11d. Street and Number Apt. No. ZIP Code
11e. Inside City Limits? 1 ❑ Yes 2 ❑ No
12. Date of Birth (Month) (Day) (Year-yyyy)
13. Age at last birthday (years) 1
Under 1 Year: Months 2 Days 3
Under 1 Day: Hours 4 Minutes 5
14. Social Security No.
15a. Usual Occupation (Type of work done during most of working life. Do not use "retired")
15b. Kind of business or industry
16. Aliases or AKAs
17. Birthplace (City & State or Foreign Country)
18. Education (Check the box that best describes the highest degree or level of school completed at the time of death)
1 ❑ 8th grade or less; none
2 ❑ 9th – 12th grade; no diploma
3 ❑ High school graduate or GED
4 ❑ Some college credit, but no degree
5 ❑ Associate degree (e.g., AA, AS)
6 ❑ Bachelor's degree (e.g., BA, AB, BS)
7 ❑ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
8 ❑ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
19. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No
20. Marital/Partnership Status at time of death
1 ❑ Married 2 ❑ Domestic Partnership 3 ❑ Divorced
4 ❑ Married, but separated 5 ❑ Never Married 6 ❑ Widowed
7 ❑ Other, Specify _____ 8 ❑ Unknown
21. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)
22. Father's Name (First, Middle, Last)
23. Mother's Maiden Name (Prior to first marriage) (First, Middle, Last)
24a. Informant's Name
24b. Relationship to Decedent
24c. Address (Street and Number Apt. No. City & State ZIP Code)
25a. Method of Disposition
1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery
5 ❑ Other Specify _____
25b. Place of Disposition (Name of cemetery, crematory, other place)
25c. Location of Disposition (City & State or Foreign Country)
25d. Date of Disposition mm dd yyyy
26a. Funeral Establishment
26b. Address (Street and Number City & State ZIP Code)

VR 16 (Rev. 01/09)

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

MEDICAL EXAMINER'S SUPPLEMENTARY REPORT

VR 16 (Rev. 01/09)

Certificate No.

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

27. Ancestry (Check one box and specify)

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

Specify _____

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

Specify _____

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

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

DECEDENT'S LEGAL NAME (Type or Print)

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

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

29c. Date of Outcome

mm	dd	yyyy

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

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

Cleared For Cremation If Family Requests

_____
M.E. Signature

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

SIGNATURE: _____
(Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

or

I did not personally examine the body after death.

SIGNATURE: _____
(Deputy Chief) (Chief) (Medical Examiner)

DATE FILED

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

CERTIFICATE OF SPONTANEOUS TERMINATION OF PREGNANCY

VR-17
(REV. 01/10)

CERTIFICATE NO.

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

1. Typewrite or print with black fine point ink.
2. Certificates containing alterations or omissions are unacceptable.
3. Items "Date filed," "Certificate No." and this space, reserved for the Department of Health and Mental Hygiene use only.

☐ **I CERTIFY THAT I HAVE IN MY POSSESSION AN AFFIDAVIT OF AUTHORIZATION FOR CREMATION** FD Initials _____

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

If answer to either is yes, do not use this form. Case must be reported by filing a certificate of birth and a certificate of death.

FETUS

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

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

2b. TIME _____ ☐ AM ☐ PM ☐ Unknown

3. SEX ☐ Male ☐ Female ☐ Unknown

4. OBSTETRIC ESTIMATE OF GESTATION _____ # of weeks

5a. NUMBER DELIVERED THIS PREGNANCY _____

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

FETUS Place of Delivery

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

6b. FACILITY NAME/ADDRESS

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

MOTHER/PARENT

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

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

12. BIRTHPLACE City State

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

10. AGE

11. SEX ☐ Male ☐ Female

Country

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

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

FATHER/PARENT

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

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

19. BIRTHPLACE City State

17. AGE

18. SEX ☐ Male ☐ Female

Country

ATTENDANT/CERTIFIER

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

(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)*

VR-17
(REV. 01/10)

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

CONFIDENTIAL MEDICAL REPORT OF SPONTANEOUS TERMINATION OF PREGNANCY (1 of 2)

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

Mother/Parent Medical Record No. _____ CERTIFICATE NO.

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

23. PARENT'S EDUCATION

(Check the box that best describes the highest degree or level of school completed at time of delivery)

a. Mother/Parent	b. Father/Parent
☐ 8th grade or less; none	☐
☐ 9th-12th grade, no diploma	☐
☐ High school graduate or GED	☐
☐ Some college credit, but no degree	☐
☐ Associate degree (e.g., AA, AS)	☐
☐ Bachelor's degree (e.g., BA, AB, BS)	☐
☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	☐
☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	☐
☐ Unknown	☐

24. PARENT'S OCCUPATION

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

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

25. PARENT'S ANCESTRY

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

a. Mother/Parent	b. Father/Parent
Hispanic (Mexican, Puerto Rican, ☐ Cuban, Dominican, etc.) Specify _____ (Mother/Parent)	_____ (Father/Parent)
NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukranian, ☐ Nigerian, Taiwanese, etc.) Specify _____ (Mother/Parent)	_____ (Father/Parent)
☐ Unknown	☐

26. PARENT'S RACE

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

a. Mother/Parent	b. Father/Parent
☐ White	☐
☐ Black or African American	☐
☐ American Indian or Alaska Native. *Name of enrolled or principal tribe* _____ (Mother/Parent)	_____ (Father/Parent)
☐ Asian Indian	☐
☐ Chinese	☐
☐ Filipino	☐
☐ Japanese	☐
☐ Korean	☐
☐ Vietnamese	☐
☐ Other Asian. *Specify* _____ (Mother/Parent)	_____ (Father/Parent)
☐ Native Hawaiian	☐
☐ Guamanian or Chamorro	☐
☐ Samoan	☐
☐ Other Pacific Islander. *Specify* _____ (Mother/Parent)	_____ (Father/Parent)
☐ Other. *Specify* _____ (Mother/Parent)	_____ (Father/Parent)
☐ Unknown	☐

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

a. Mother/Parent	b. Father/Parent
☐ Never lived in United States	☐
If born outside of the United States, how long lived in U.S.? years _____ (Mother/Parent)	_____ (Father/Parent)
or if <1 yr, months _____ (Mother/Parent)	_____ (Father/Parent)

28. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH

a. Initiating Cause/Condition	b. Other Significant Causes or Conditions
(Among the choices below, please select the **one** that most likely began the sequence of events resulting in the death of the fetus).	(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)

☐ Diabetes – Prepregnancy
☐ Diabetes – Gestational
☐ Hypertension – Pre-pregnancy
☐ Hypertension – Gestational
☐ Hypertension – Eclampsia
☐ Previous Preterm Birth
☐ Other previous poor pregnancy outcome
☐ Infertility Treatment – Fertility-enhancing drugs, Artificial/Intrauterine insemination
☐ Infertility Treatment – Assisted Reproductive Technology
☐ Mother had a Previous Cesarean Delivery
If yes, how many? _____
☐ Other
☐ None
☐ Unknown

VR-17
(REV. 01/10)

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF SPONTANEOUS TERMINATION OF PREGNANCY (2 of 2)

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

Mother/Parent Medical Record No. _____ CERTIFICATE NO.

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

31. PREGNANCY FACTORS (cont.)

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

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

32. DELIVERY

a. Method of Delivery

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

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

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

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

5. Hysterotomy/Hysterectomy
☐ Yes ☐ No ☐ Unknown

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

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

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

If yes, name of facility transferred from:

_____

33. FETAL ATTRIBUTES

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

_____ ☐ lb/oz _____ ☐ grams

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

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

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

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

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

DATE FILED
(For Health Dept. Use Only)

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

CERTIFICATE OF INDUCED TERMINATION OF PREGNANCY

Use this form *ONLY* for induced terminations whether surgical or medical.
Only for scientific purposes approved by the Commissioner; not subject to compelled disclosure.

CERTIFICATE NO.
(For Health Dept. Use Only)

FACILITY

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

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

3A. FACILITY NAME

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

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

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

PATIENT

5. PATIENT'S LEGAL NAME
First Name _____|_____ 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
☐ **Outside NYS** _____ (U.S. State)
☐ **New York State (Outside NYC)** City or Town | County | ZIP Code
☐ **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 *(Mexican, Puerto Rican, Cuban, Dominican, etc.)*
Specify _____
☐ NOT Hispanic *(Italian, African American, Haitian, Pakistani, Ukranian, Nigerian, Taiwanese, etc.)*
Specify _____
☐ Unknown

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

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

MEDICAL

14. DATE LAST NORMAL MENSES BEGAN *(Month) (Day) (Year-yyyy)*

15. OBSTETRIC ESTIMATE OF GESTATION
_____ completed weeks

16. PREVIOUS PREGNANCIES
a. Total Number of Previous Live Births _____ ☐ None
b. Born Alive Now Living _____ ☐ None
c. Born Alive Now Dead _____ ☐ None
d. Total Number of Other Pregnancy Outcomes _____ ☐ None
e. Number of Spontaneous Terminations _____ ☐ None
f. Number of Induced Terminations _____ ☐ None

17. TERMINATION PROCEDURE

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

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

18. CONTRACEPTIVE METHOD PRESCRIBED AND/OR DISPENSED AFTER THIS PROCEDURE (Check all that apply)
☐ None Offered ☐ Oral Contraceptive Pills ☐ Injection ☐ Contraceptive Patch ☐ Diaphragm ☐ Emergency Contraception
☐ Offered but Declined ☐ Condoms ☐ Contraceptive Implant ☐ Cervical Vaginal Ring ☐ IUD ☐ Other, Specify _____

ATTENDANT/CERTIFIER

19. ATTENDANT NAME AT TERMINATION:
☐ MD ☐ DO ☐ NP
(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
Signature of Certifier
Name of Certifier
Address
License No. _____/_____/_____ *Date*

VR-18
(REV. 01/13)