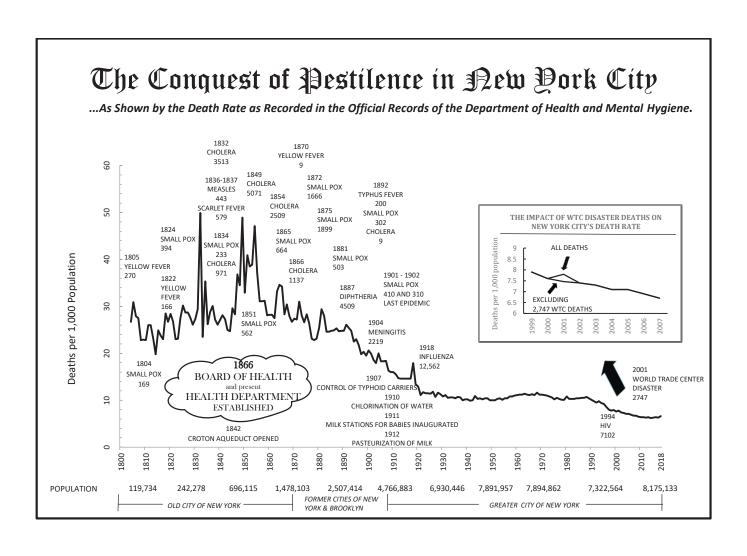
# SUMMARY OF VITAL STATISTICS 2018 THE CITY OF NEW YORK



# SUMMARY OF VITAL STATISTICS 2018 THE CITY OF NEW YORK

New York City Department of Health and Mental Hygiene

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#### December 2020

This report was prepared by the Department of Health and Mental Hygiene, Office of Vital Statistics staff under the direction of Wenhui Li, PhD and Mary Huynh, PhD.

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#### Dear Fellow New Yorker:

Every year 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. These trends are used to inform our programs and policies.

Highlights from our 2018 report, which begins on the next page, include:

- Citywide, life expectancy was 81.3 years, representing a 0.1-year increase since 2017 and a 0.7-year increase since 2009.
- Non-Hispanic Black New Yorkers had the lowest life expectancy among racial/ethnic groups at 77.2 years, while Hispanic New Yorkers had the highest at 82.4 years.
- While the citywide age-adjusted mortality rate has declined by 12.3% since 2009, from 2017 to 2018, the citywide age-adjusted mortality rate increased from 545.7 per 100,000 population to 555.1 per 100,000 population.
- New York City's age-adjusted premature death rate (age <65 years) has declined by 10.0% since 2009. There was a slight increase in the age-adjusted premature death rate from 184.9 per 100,000 population in 2017 to 187.1 per 100,000 population in 2018.
- Deaths due to unintentional drug overdose continued to rise, with a 1.2% increase from 2017.
- The 2018 citywide crude birth rate was 13.6 births per 1,000 population, the same as in 2017. From 2009 to 2018, birth rates fell among all teenagers regardless of age, and the overall rate of teen birth declined by 55.1%.
- While the infant mortality rate reached a historic low of 3.9 deaths per 1,000 live births in 2018, a 9.3% decrease from 2017, the rate for non-Hispanic Black New Yorkers was 3.4 times the rate for non-Hispanic Whites.
- Although the infant mortality rate declined in all neighborhood poverty groups from 2009 to 2018, the infant mortality rate in very high poverty areas was 1.5 times the infant mortality rate in low poverty areas in 2018.

These data illustrate the persistence of racial/ethnic and neighborhood disparities, which are the long-term result of structural racism. The DOHMH remains committed to addressing the root causes of these disparities, including by sharing data which inform our programmatic priorities.

Sincerely,

Dave A. Chokshi, MD, MSc

Commissioner

#### **KEY FINDINGS**

#### Life Expectancy at Birth

- New York City's life expectancy at birth in 2018 was 81.3 years, increasing by 0.1 years since 2017, and increasing by 0.7 years since 2009.
- The New York City 2018 life expectancy at birth was 82.4 years among Hispanics, 81.3 years among non-Hispanic Whites, and 77.2 years among non-Hispanic Blacks. From 2009 to 2018, life expectancy increased by 0.7 years among Hispanics, 0.4 years among non-Hispanic Whites, and 0.6 years among non-Hispanic Blacks.

#### **Mortality**

- The citywide age-adjusted death rate increased over the past year, from 545.7 per 100,000 population in 2017, to 555.1 in 2018 (a 1.7% increase). From 2017 to 2018, the age-adjusted death rate increased among Hispanics by 2.2%, among non-Hispanic Blacks by 3.1%, among non-Hispanic Whites by 0.3%, and among Asians and Pacific Islanders by 1.4%. The increase of rates was partially due to the 2.6% population decrease from 2017 to 2018.
- Over the past ten years, the citywide age-adjusted death rate decreased by 12.3%. Between 2009 and 2018, the age-adjusted death rates decreased by 9.1% among non-Hispanic Blacks, by 11.4% among Hispanics, by 13.8% among non-Hispanic Whites, and by 5.6% among Asians and Pacific Islanders.
- The citywide age-adjusted premature mortality rate increased over the past year, from 184.9 per 100,000 population in 2017 to 187.1 in 2018 (1.2% increase), an increase that was partially due to the 3.2% population decrease among those under the age of 65, from 2017 to 2018. From 2017 to 2018, the age-adjusted premature mortality rate increased among Hispanics by 2.6%, and among non-Hispanic Blacks by 2.0%, yet decreased among non-Hispanic Whites by 1.5%, and among Asians and Pacific Islanders by 1.9%.
- The age-adjusted premature mortality rate declined by 10.0% citywide over the past ten years. From 2009 to 2018, age-adjusted premature death (age < 65 years) rates declined by 10.9% among non-Hispanic Blacks, 11.6% among Hispanics, 10.8% among non-Hispanic Whites, and increased by 4.1% among Asians and Pacific Islanders.
- The opioid epidemic has resulted in an increase in drug-related deaths across New York City. Drug-related deaths include both unintentional drug overdoses and deaths due to chronic drug use. The age-adjusted drug-related death rate was 16.6 per 100,000 population in 2018, remaining the same since 2017, and a 107.5% increase since 2009.

#### **Infant Mortality**

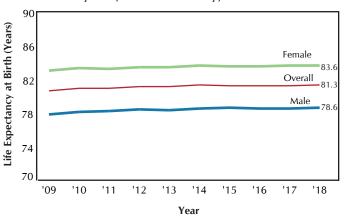
- In 2018, New York City's infant mortality rate reached a historic low of 3.9 infant deaths per 1,000 live births, a decrease since 2017 (4.3 per 1,000 live births). Due to the small number of deaths, the rate will fluctuate from year to year.
- The infant mortality rate declined by 26.4% since 2009.
- The infant mortality rate disparity between non-Hispanic Blacks and non-Hispanic Whites increased slightly from 3.3 in 2017 to 3.4 in 2018. The disparity in infant mortality rates between Puerto Ricans and non-Hispanic Whites decreased from 2.6 in 2017 to 2.3 in 2018. These changes may be due to small counts from year to year.

#### **Pregnancy Outcomes**

- The 2018 citywide crude birth rate was 13.6 births per 1,000 population. New York City's birth rate remained the same as 2017 and decreased by 12.3% since 2009.
- In 2018, the birth rate was highest among Asians and Pacific Islanders at 15.4 births per 1,000 population, followed by 15.0 among non-Hispanic Whites, 12.9 among Hispanics, and 11.4 among non-Hispanic Blacks.
- For 2018, the community district with the highest crude birth rate was Borough Park with 24.9 births per 1,000 population; the community district with the lowest crude birth rate was Bayside with 4.8 births per 1,000 population.
- From 2009 to 2018, birth rates fell among all teenagers regardless of age, and the overall rate of teen birth (births to women < 20) declined by 55.1%. Among teens less than 18 years of age, the birth rate declined over that period by 62.4%; among women 18-19, it declined by 52.4%.
- From 2009 to 2018, teen birth rates declined for all racial/ethnic groups: by 54.9% among Hispanics, 55.8% among non-Hispanic Blacks, 33.3% among non-Hispanic Whites, and 47.1% among Asians and Pacific Islanders.
- Induced and spontaneous terminations of pregnancy both continued to decline from 2017 to 2018, decreasing by 5.0% and 6.8%, respectively.

#### LIFE EXPECTANCY

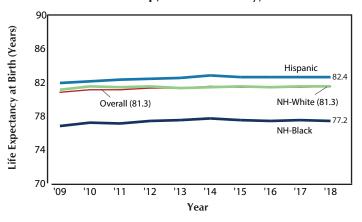
Figure 1. Life Expectancy at Birth, Overall and by Sex, New York City, 2009–2018



- New York City's life expectancy at birth in 2018 was 81.3 years, increasing by 0.1 years since 2017, and increasing by 0.7 years since 2009.
- The life expectancy among males was 78.6 years, a 0.1-year increase since 2017, and a 0.8-year increase since 2009.
- The life expectancy among females was 83.6 years, remaining the same since 2017, and a 0.6-year increase since 2009.

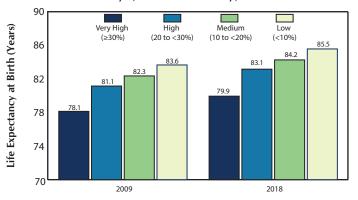
- The New York City 2018 life expectancy at birth was 82.4 years among Hispanics, 81.3 years among non-Hispanic Whites, and 77.2 years among non-Hispanic Blacks.
- Life expectancy increased across all racial/ethnic groups from 2009 to 2018: 0.7 years among Hispanics, 0.4 years among non-Hispanic Whites, and 0.6 years among non-Hispanic Blacks. From 2017 to 2018, life expectancy decreased 0.1 years among non-Hispanic Blacks, and remained the same among Hispanics and non-Hispanic Whites.
- The life expectancy estimate for Asians and Pacific Islanders is not displayed due to small single year age population denominators.

Figure 2. Life Expectancy at Birth by Racial/ Ethnic\* Group, New York City, 2009–2018



\*Life expectancy among Asians and Pacific Islanders is not displayed because the required single-year age population denominators are too small to produce reliable estimates (Appendix B, Technical Notes: Population, Life Expectancy).

Figure 3. Life Expectancy at Birth by Neighborhood Poverty\*, New York City, 2009 and 2018



Neighborhood Poverty and Year

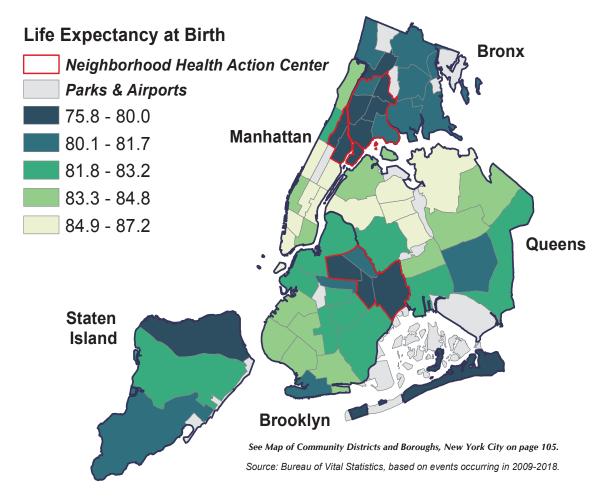
- Life expectancy increased across all categories of neighborhood poverty between 2009 and 2018. For very high poverty areas, life expectancy increased by 1.8 years, compared to 1.9 years for low poverty areas.
- The difference in life expectancy between very high and low poverty areas in 2018 was 5.6 years, compared to 5.5 years in 2009.

<sup>\*</sup>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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 data.

<sup>\*</sup>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, 2009-2018



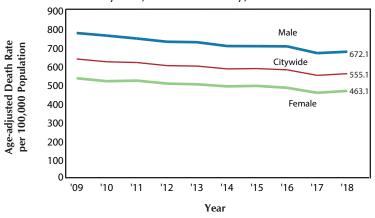
- For 2009-2018, New York City's life expectancy at birth was highest in Greenwich Village/SOHO (87.2), Sunnyside/Woodside (86.9), Murray Hill, the Upper East Side, and Elmhurst/Corona (86.6), Battery Park/Tribeca and the Midtown Business District (86.2); and Jackson Heights (85.9).
- For 2009-2018, life expectancy at birth was lowest in Brownsville (75.8), the Rockaways (76.9), Central Harlem (77.1), Morrisania (77.2), and East Tremont (77.9).

#### Life Expectancy at Birth by Community District (CD) of Residence, New York City, 2009-2018

CD	MANHATTAN	Life Expectancy	CD	BRONX	Life Expectancy	CD	BROOKLYN	Life Expectancy	CD	QUEENS	Life Expectancy
MN01	Battery Park, Tribeca	86.2	BX01	Mott Haven	78.3	BK01	Williamsburg, Greenpoint	82.7	QN01	Astoria, Long Island City	83.7
MN02	Greenwich Village, SOHO	87.2	BX02	Hunts Point	80.1	BK02	Fort Greene, Brooklyn Heights	82.3	QN02	Sunnyside, Woodside	86.9
MN03	Lower East Side	83.8	BX03	Morrisania	77.2	BK03	Bedford Stuyvesant	78.7	QN03	Jackson Heights	85.9
MN04	Chelsea, Clinton	84.8	BX04	Concourse, Highbridge	80.0	BK04	Bushwick	81.7	QN04	Elmhurst, Corona	86.6
MN05	Midtown Business District	86.2	BX05	University, Morris Heights	80.5	BK05	East New York	79.2	QN05	Ridgewood, Glendale	81.9
MN06	Murray Hill	86.6	BX06	East Tremont	77.9	BK06	Park Slope	82.5	QN06	Rego Park, Forest Hills	85.2
MN07	Upper West Side	85.5	BX07	Fordham	80.0	BK07	Sunset Park	83.7	QN07	Flushing	85.0
MN08	Upper East Side	86.6	BX08	Riverdale	81.6	BK08	Crown Heights North	80.6	QN08	Fresh Meadows, Briarwood	84.7
MN09	Manhattanville	82.4	BX09	Unionport, Soundview	80.7	BK09	Crown Heights South	82.3	QN09	Woodhaven	83.4
MN10	Central Harlem	77.1	BX10	Throgs Neck	81.6	BK10	Bay Ridge	84.0	QN10	Howard Beach	82.0
MN11	East Harlem	78.2	BX11	Pelham Parkway	80.4	BK11	Bensonhurst	84.5	QN11	Bayside	84.8
MN12	Washington Heights	84.7	BX12	Williamsbridge	81.6	BK12	Borough Park	84.7	QN12	Jamaica, St. Albans	81.3
						BK13	Coney Island	80.6	QN13	Queens Village	83.2
CD	STATEN ISLAND					BK14	Flatbush, Midwood	82.7	QN14	The Rockaways	76.9
SI01	Port Richmond	79.7				BK15	Sheepshead Bay	83.9			
SI02	Willowbrook, South Beach	81.9				BK16	Brownsville	75.8			
SI03	Tottenville	81.4				BK17	East Flatbush	82.8			
						BK18	Canarsie	82.2			

#### **CITYWIDE MORTALITY**

Figure 5. Age-adjusted Death Rates, Overall and by Sex, New York City, 2009–2018



- Over the past ten years, the citywide ageadjusted death rate decreased by 12.3%. The age-adjusted death rate increased over the past year, from 545.7 per 100,000 population in 2017, to 555.1 in 2018.
- From 2009 to 2018, age-adjusted death rates decreased by 12.9% among males, and by 12.7% among females.
- The increase of rates was partially due to the 2.6% population decrease from 2017 to 2018.

- Between 2009 and 2018, age-adjusted death rates decreased by 9.1% among non-Hispanic Blacks, by 11.4% among Hispanics, by 13.8% among non-Hispanic Whites, and by 5.6% among Asians and Pacific Islanders.
- From 2017 to 2018, the age-adjusted death rate increased among Hispanics by 2.2%, among non-Hispanic Blacks by 3.1%, among non-Hispanic Whites by 0.3%, and among Asians and Pacific Islanders by 1.4%.
- In 2018, the death rate for non-Hispanic Blacks was 21.0% 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 2017 (the death rate for non-Hispanic Blacks was 18.0% higher than the rate for non-Hispanic Whites in 2017).

Figure 6. Age-adjusted Death Rates by Racial/ Ethnic Group, New York City, 2009–2018

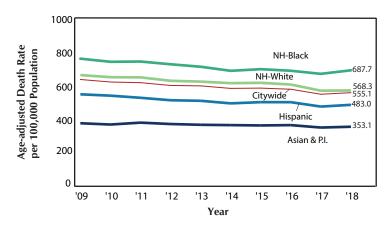
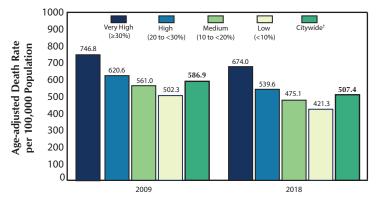


Figure 7. Age-adjusted Death Rates by Neighborhood Poverty\*, New York City Residents, 2009 and 2018

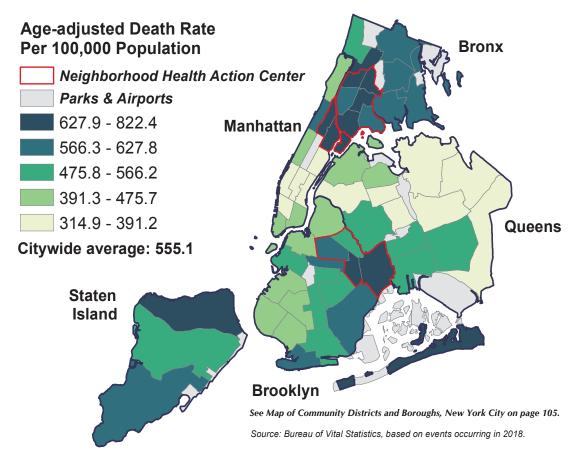


**Neighborhood Poverty and Year** 

- Since 2009, age-adjusted death rates decreased across all categories of neighborhood poverty. Over that period, the rate decreased by 9.7% in very high poverty areas and by 16.1% 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 2018, an increase in disparity since 2009 (1.5 times the rate).
- \*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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 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, 2018



- In 2018, Brownsville had the highest age-adjusted death rate, at 822.4 deaths per 100,000 population, followed by 799.0 in Central Harlem, 765.4 in the Rockaways, 747.9 in East Tremont, and 724.6 in East Harlem.
- In 2018, age-adjusted death rates were lowest in Sunnyside/Woodside at 314.9 deaths per 100,000 population, followed by 345.2 in the Midtown Business District, 350.4 in Bayside, 354.7 in Greenwich Village/SOHO, and 362.6 in Murray Hill.

#### Age-adjusted Death Rates per 100,000 Population by Community District (CD) of Residence, New York City, 2018

CD	MANHATTAN	Age- adjusted Death Rates	CD	BRONX	Age- adjusted Death Rates	CD	BROOKLYN	Age- adjusted Death Rates	CD	QUEENS	Age- adjusted Death Rates
MN01	Battery Park, Tribeca	401.0	BX01	Mott Haven	723.2	BK01	Williamsburg, Greenpoint	472.4	QN01	Astoria, Long Island City	475.7
MN02	Greenwich Village, SOHO	354.7	BX02	Hunts Point	600.7	BK02	Fort Greene, Brooklyn Heights	474.1	QN02	Sunnyside, Woodside	314.9
MN03	Lower East Side	466.6	BX03	Morrisania	673.1	BK03	Bedford Stuyvesant	621.5	QN03	Jackson Heights	393.7
MN04	Chelsea, Clinton	364.3	BX04	Concourse, Highbridge	617.9	BK04	Bushwick	504.7	QN04	Elmhurst, Corona	375.1
MN05	Midtown Business District	345.2	BX05	University/Morris Heights	631.6	BK05	East New York	693.0	QN05	Ridgewood, Glendale	500.1
MN06	Murray Hill	362.6	BX06	East Tremont	747.9	BK06	Park Slope	498.5	QN06	Rego Park, Forest Hills	390.1
MN07	Upper West Side	420.0	BX07	Fordham	648.7	BK07	Sunset Park	444.8	QN07	Flushing	391.2
MN08	Upper East Side	367.2	BX08	Riverdale	563.7	BK08	Crown Heights North	594.0	QN08	Fresh Meadows, Briarwood	387.3
MN09	Manhattanville	574.6	BX09	Unionport, Soundview	584.4	BK09	Crown Heights South	566.2	QN09	Woodhaven	483.6
MN10	Central Harlem	799.0	BX10	Throgs Neck	577.7	BK10	Bay Ridge	436.3	QN10	Howard Beach	505.8
MN11	East Harlem	724.6	BX11	Pelham Parkway	623.7	BK11	Bensonhurst	413.0	QN11	Bayside	350.4
MN12	Washington Heights	457.0	BX12	Williamsbridge	573.1	BK12	Borough Park	438.5	QN12	Jamaica, St. Albans	532.4
						BK13	Coney Island	625.0	QN13	Queens Village	366.9
CD	STATEN ISLAND					BK14	Flatbush, Midwood	536.3	QN14	The Rockaways	765.4
SI01	Port Richmond	648.0				BK15	Sheepshead Bay	503.1			
SI02	Willowbrook, South Beach	547.2				BK16	Brownsville	822.4			
SI03	Tottenville	627.8				BK17	East Flatbush	519.2			
						BK18	Canarsie	579.0			

### **LEADING CAUSES OF DEATH**

2000 2009 2018 Diseases of Heart\* **─**Malignant Neoplasms -Influenza and Pneumonia Diabetes Mellitus Cerebrovascular Diseases -Chronic Lower Respiratory Diseases Use of or Poisoning by Psychoactive **Substancet** Essential Hypertension and Renal Diseases Alzheimer's Disease Accidents Except Drug Poisoning Nephritis, Nephrotic Syndrome and Nephrosis -HIV Disease

Figure 9. Leading Causes of Death, New York City, 2000, 2009, and 2018

- 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 2009, to the 16th in 2018.
- Nephritis, nephrotic syndrome and nephrosis dropped from the 10th leading cause in 2000 to the 16th in 2009, then rose to the 13th in 2018.
- Alzheimer's disease has risen from the 21st leading cause in 2000, and the 11th leading cause in 2009, to the 9th in 2018.
   Although this change in ranking reflects the aging of the population, sharp increases in Alzheimer's disease observed since 2009 may be partly attributed to efforts to improve cause of death reporting.

<sup>\*</sup> 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.

<sup>†</sup>Appendix B Technical Notes: Drug-Related Deaths.

## **LEADING CAUSES OF DEATH**

Table 1. Leading Causes of Death by Sex, New York City, 2018\*

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	Influenza and Pneumonia	Influenza and Pneumonia
6	Cerebrovascular Diseases	Diabetes Mellitus
7	Chronic Lower Respiratory Diseases	Alzheimer's Disease
8	Accidents Except Poisoning by Psychoactive Substance	Essential Hypertension and Hypertensive Renal Disease
9	Essential Hypertension and Hypertensive Renal Disease	Use of or Poisoning by Psychoactive Substance
10	Intentional Self-harm (Suicide)	Accidents Except Poisoning by Psychoactive Substance

<sup>\*</sup> Counts and percentages for this table can be found in Table M7.

- Heart disease and malignant neoplasms (cancer) are the leading causes of death among both males and females.
- Use of or poisoning by psychoactive substance is the 3rd leading cause of death among males but ranks 9th among females.
- Cerebrovascular disease is the 3rd leading cause of death among females but ranks 6th 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 (7th).

### **LEADING CAUSES OF DEATH**

Table 2. Leading Causes of Death by Racial/Ethnic Group\*, New York City, 2018<sup>†</sup>

Rank	Puerto Rican	Other Hispanic	Asian and Pacific Islander	Non-Hispanic White	Non-Hispanic Black	
1	Diseases of Heart					
2	Malignant Neoplasms					
3	Influenza and Pneumonia	Use of or Poisoning by Psychoactive Substance	Cerebrovascular Diseases	Chronic Lower Respiratory Diseases	Diabetes Mellitus	
4	Diabetes Mellitus	Diabetes Mellitus	Influenza and Pneumonia	Influenza and Pneumonia	Influenza and Pneumonia‡	
5	Chronic Lower Respiratory Diseases	Cerebrovascular Diseases	Diabetes Mellitus	Cerebrovascular Diseases	Cerebrovascular Diseases‡	
6	Use of or Poisoning by Psychoactive Substance	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	Essential Hypertension and Hypertensive Renal Disease	
8	Cerebrovascular Diseases	Essential Hypertension and Hypertensive Renal Disease	Accidents Except Poisoning by Psychoactive Substance	Diabetes Mellitus	Use of or Poisoning by Psychoactive Substance	
9	Essential Hypertension and Hypertensive Renal Disease	Alzheimer's Llisease		Essential Hypertension and Hypertensive Renal Disease	Alzheimer's Disease	
10	Chronic Liver Disease and Cirrhosis	Chronic Lower Respiratory Diseases	Intentional Self-harm (Suicide)	Accidents Except Poisoning by Psychoactive Substance	Accidents Except Poisoning by Psychoactive Substance	

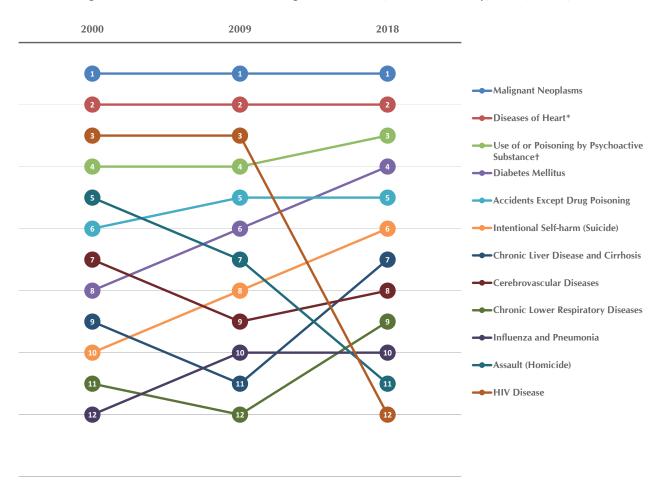
<sup>\*</sup> Decedents of other or multiple races, or with unknown ethnicities are not shown.

- Heart disease and malignant neoplasms (cancer) are the leading causes of death among all racial/ethnic groups.
- Diabetes mellitus is the 3rd leading cause of death among non-Hispanic Blacks; it ranks 4th among Puerto Ricans and Other Hispanics, 5th among 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.
- Essential hypertension and hypertensive renal disease is a leading cause of death among all groups. It ranks 9th among Puerto Ricans and non-Hispanic Whites, 8th among Other Hispanics, 6th among Asians and Pacific Islanders, and 7th among non-Hispanic Blacks.
- Intentional self-harm (suicide) is a leading cause of death among Asians and Pacific Islanders only (10th).

<sup>†</sup> Counts and percentages for this table can be found in Table M8.

<sup>‡</sup> Tied ranking

Figure 10. Leading Causes of Premature Death (Age < 65 Years), New York City, 2000, 2009, and 2018



<sup>\*</sup> 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.

- 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 2009, to the 12th in 2018.
- Assault (homicide) has also dropped in ranking from the 5th leading cause of premature death in 2000, and the 7th leading cause in 2009, to the 11th in 2018.
- Diabetes has risen from the 8th leading cause of premature death in 2000, and the 6th leading cause in 2009, to the 4th in 2018.
- Intentional self-harm (suicide) rose from the 10th leading cause of premature death in 2000, and the 8th leading cause in 2009, to the 6th in 2018.

<sup>†</sup>Appendix B Technical Notes: Drug-Related Deaths.

Table 3. Leading Causes of Premature Death (Age <65 Years) by Sex, New York City, 2018\*

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

<sup>\*</sup> Counts and percentages for this table can be found in Table M9.

- Malignant neoplasms (cancer) and heart disease are the leading causes of premature death among both males and females.
- Use of or poisoning by psychoactive substance is the 3rd leading cause of premature death among males and females.
- Assault (homicide) is a leading cause of premature death among males only (8th). Chronic lower respiratory diseases is ranked as a leading cause among females only (5th).

Table 4. Leading Causes of Premature Death (Age < 65 Years) by Racial/Ethnic Group\*, New York City, 2018<sup>†</sup>

Rank	Puerto Rican	Other Hispanic	Asian and 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	Accidents Except Poisoning by Psychoactive Substance	Intentional Self-harm (Suicide)	Diabetes Mellitus	
5	Chronic Lower Respiratory Diseases	· ' II )iahetes Mellitiis‡		Chronic Liver Disease and Cirrhosis	Assault (Homicide)	
6	Chronic Liver Disease and Cirrhosis	Chronic Liver Disease and Cirrhosis‡	Cerebrovascular Diseases	Accidents Except Poisoning by Psychoactive Substance	Human Immunodeficiency Virus (HIV) Disease	
7	Influenza and Pneumonia	Cerebrovascular Diseases	Use of or Poisoning by Psychoactive Substance	Diabetes Mellitus	Chronic Lower Respiratory Diseases	
8	Accidents Except Poisoning by Psychoactive Substance	Intentional Self-harm (Suicide)	Certain Conditions Originating in the Perinatal Period	Chronic Lower Respiratory Diseases	Cerebrovascular Diseases	
9	Human Immunodeficiency Virus (HIV) Disease			Mental Disorders Due to Use of Alcohol	Accidents Except Poisoning by Psychoactive Substance	
10	Cerebrovascular Diseases	Mental Disorders Due to Use of Alcohol	Mental Disorders Due to Use of Alcohol	Congenital Malformations,Deformations	Influenza and Pneumonia	

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

- Malignant neoplasms (cancer) and heart disease are the leading causes of premature death among all racial/ethnic groups.
- 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 8th among Other Hispanics, and 4th among non-Hispanic Whites. 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 (9th), and non-Hispanic Blacks (6th). It is not ranked as a leading cause of premature death among Asians and Pacific Islanders, Other Hispanics, and non-Hispanic Whites.
- Assault (homicide) is a leading cause of premature death among Other Hispanics (9th) and non-Hispanic Blacks (5th), but is not a leading cause among other racial/ethnic groups.

<sup>†</sup> Counts and percentages for this table can be found in Table M10.

<sup>‡</sup> Tied ranking

- The age-adjusted premature death rate was 187.1 per 100,000 population in 2018, a 1.2% increase since 2017, and a 10.0% decrease since 2009.
- The increase in the premature death rate was partially due to the 3.2% population decrease among those under the age of 65, from 2017 to 2018.
- The age-adjusted premature death rate for females has been consistently lower than the rate for males.

Figure 11. Age-adjusted Premature Death (Age <65 years) Rates, Overall and by Sex, New York City, 2009–2018

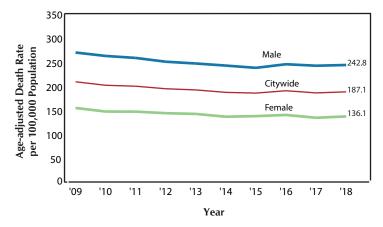
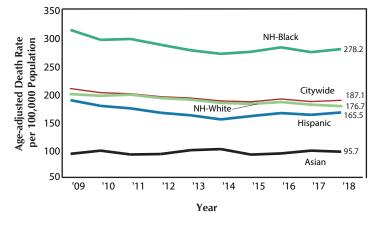


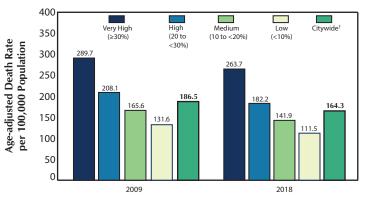
Figure 12. Age-adjusted Premature Death (Age < 65 years) Rates by Racial/Ethnic Group,
New York City, 2009–2018



- From 2009 to 2018, age-adjusted premature death rates declined by 10.9% among non-Hispanic Blacks, 11.6% among Hispanics, 10.8% among non-Hispanic Whites, and increased by 4.1% among Asians and Pacific Islanders.
- From 2017 to 2018, the age-adjusted premature mortality rate increased among Hispanics by 2.6%, and among non-Hispanic Blacks by 2.0%, yet decreased among non-Hispanic Whites by 1.5%, and among Asians and Pacific Islanders by 1.9%.
- Non-Hispanic Blacks had the highest age-adjusted premature death rate (57.4% higher than non-Hispanic Whites), and were the only racial/ethnic group above the citywide average.

- The age-adjusted premature mortality rate decreased across all categories of neighborhood poverty between 2009 and 2018. Over that time, it decreased by 15.3% in low poverty neighborhoods, 14.3% in medium poverty neighborhoods, 12.4% in high poverty neighborhoods, and 9.0% in very high poverty neighborhoods.
- Despite declines, 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 2018. This disparity has increased slightly from 2017 (2.1 times in 2017).

Figure 13. Age-adjusted Premature Death (Age < 65 years) Rates by Neighborhood Poverty\*, New York City Residents, 2009 and 2018

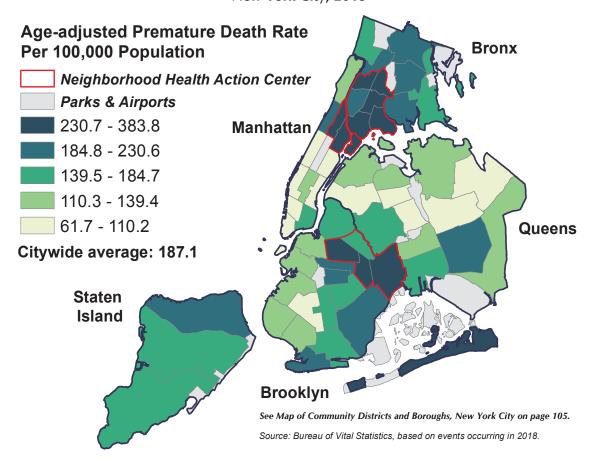


**Neighborhood Poverty and Year** 

<sup>\*</sup>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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 data.

<sup>†</sup>The citywide estimate is restricted to NYC residents.

Figure 14. Age-adjusted Premature Death (Age < 65 years) Rates by Community District of Residence, New York City, 2018

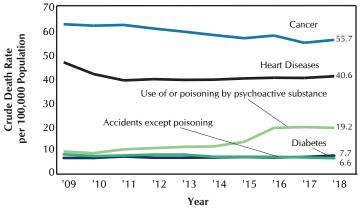


- In 2018, New York City age-adjusted premature death rates were highest in Brownsville at 383.8 deaths per 100,000 population, followed by 351.5 in East Tremont, 328.8 in Mott Haven, 292.7 in East Harlem, and 292.1 in Morrisania.
- In 2018, age-adjusted premature death rates were lowest in Battery Park/Tribeca at 61.7 deaths per 100,000 population, followed by 65.9 in Greenwich Village/SOHO, 72.1 in the Upper East Side, 86.3 in Sunnyside/Woodside, and 89.1 in Bayside.

## Age-adjusted Premature Death Rates per 100,000 Population by Community District (CD) of Residence, New York City, 2018

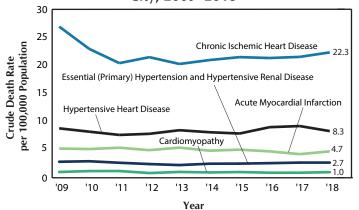
CD	MANHATTAN	Age- adjusted Premature Death Rate	CD	BRONX	Age- adjusted Premature Death Rate	CD	BROOKLYN	Age- adjusted Premature Death Rate	CD	QUEENS	Age- adjusted Premature Death Rate
MN01	Battery Park, Tribeca	61.7	BX01	Mott Haven	328.8	BK01	Williamsburg, Greenpoint	149.1	QN01	Astoria, Long Island City	139.4
MN02	Greenwich Village, SOHO	65.9	BX02	Hunts Point	256.7	BK02	Fort Greene, Brooklyn Heights	138.6	QN02	Sunnyside, Woodside	86.3
MN03	Lower East Side	140.3	BX03	Morrisania	292.1	BK03	Bedford Stuyvesant	264.9	QN03	Jackson Heights	113.3
MN04	Chelsea, Clinton	107.5	BX04	Concourse, Highbridge	228.9	BK04	Bushwick	167.7	QN04	Elmhurst, Corona	107.3
MN05	Midtown Business District	111.0	BX05	University, Morris Heights	264.4	BK05	East New York	290.7	QN05	Ridgewood, Glendale	143.0
MN06	Murray Hill	93.0	BX06	East Tremont	351.5	BK06	Park Slope	132.2	QN06	Rego Park, Forest Hills	94.3
MN07	Upper West Side	95.3	BX07	Fordham	230.6	BK07	Sunset Park	112.0	QN07	Flushing	113.5
MN08	Upper East Side	72.1	BX08	Riverdale	161.0	BK08	Crown Heights North	197.3	QN08	Fresh Meadows, Briarwood	109.0
MN09	Manhattanville	190.7	BX09	Unionport, Soundview	215.0	BK09	Crown Heights South	195.1	QN09	Woodhaven	138.6
MN10	Central Harlem	286.1	BX10	Throgs Neck	184.4	BK10	Bay Ridge	118.4	QN10	Howard Beach	154.2
MN11	East Harlem	292.7	BX11	Pelham Parkway	223.1	BK11	Bensonhurst	114.5	QN11	Bayside	89.1
MN12	Washington Heights	130.4	BX12	Williamsbridge	218.5	BK12	Borough Park	110.2	QN12	Jamaica, St. Albans	190.2
						BK13	Coney Island	197.6	QN13	Queens Village	118.9
CD	STATEN ISLAND					BK14	Flatbush, Midwood	149.1	QN14	The Rockaways	261.8
SI01	Port Richmond	212.9				BK15	Sheepshead Bay	155.5			
SI02	Willowbrook, South Beach	152.0				BK16	Brownsville	383.8			
SI03	Tottenville	163.0				BK17	East Flatbush	184.7			
						BK18	Canarsie	192.7			

Figure 15. Leading Causes of Premature Death (Age < 65 years), New York City, 2009–2018



- \*See the 2010 Summary of Vital Statistics: Mortality Special Section: Cause of Death Quality Improvement Initiative.
- Breast (female) and lung cancers account for the highest cancer death rates in New York City, at 12.3 and 9.0 deaths per 100,000 population, respectively.
   Breast (female) cancer and lung cancer death rates declined by 8.2% and 23.1%, respectively, since 2009. The breast (female) cancer rate increased 15.0% from 2017 to 2018.
- Lymphoid and blood, colon, and liver cancers account for the 3rd, 4th, and 5th highest rates of cancer deaths, at 5.9, 5.5, and 3.3 deaths per 100,000 population, respectively. Death rates for these cancers have declined since 2009, except for colon cancer, which has remained the same.

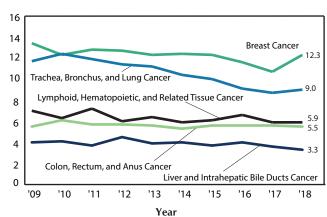
Figure 17. Leading Causes of Premature Heart Disease Deaths (Age <65 years), New York City, 2009–2018



\*See the 2010 Summary of Vital Statistics: Mortality – Special Section: Cause of Death Quality Improvement Initiative.

- In 2018, cancer and heart disease premature death rates were higher than rates for any other causes (55.7 and 40.6 per 100,000 population, respectively). Over the past ten years, rates have declined for both (by 10.5% and 12.5%, respectively). The sharper decline in heart disease death rates from 2009 to 2011 was partly due to improved cause of death reporting\*.
- 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 2018.
- The rate of premature drug-related deaths (use of or poisoning by psychoactive substance) decreased by 1.5% from 2017 to 2018, yet increased by 104.3% since 2009. These trends are consistent with national reports.
- Other accident deaths (accidents except poisoning) declined from 2009 to 2018 (19.5%) and declined slightly since 2017 (4.3%). Rates for diabetes deaths increased since 2009 (14.9%) and increased slightly over the past year by 8.5%.

Figure 16. Leading Causes of Premature Cancer Deaths (Age < 65 years), New York City, 2009–2018



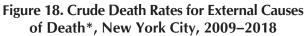
- The crude rate of the leading cause of premature heart disease deaths, chronic ischemic heart disease, has decreased 17.1% since 2009. The sharper decline from 2009 to 2011 was partly due to efforts to improve the accuracy of cause of death reporting\*.
- Since 2009, hypertensive heart disease decreased by 5.7%, acute myocardial infarction decreased by 9.6%, and essential hypertension and hypertensive renal disease decreased by 6.9%. The rate for cardiomyopathy remained the same since 2009.

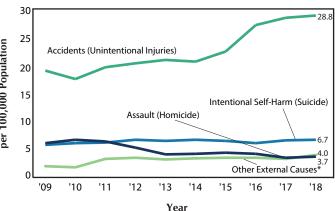
Crude Death Rate per 100,000 Population

#### EXTERNAL CAUSES OF DEATH

- Deaths due to accidents continued to account for the largest share of deaths due to external causes. In 2018, the accident death rate exceeded the rate from ten years ago (28.8 per 100,000 population in 2018 vs. 19.0 per 100,000 population in 2009), primarily due to the increase of drugrelated deaths.
- The rate of deaths due to assault (homicide) declined over the past ten years by 39.3%.
- The suicide rate has risen over the past ten years from 5.8 per 100,000 population in 2009, to 6.7 per 100,000 population in 2018. The rate has increased slightly since 2017.
- The death rate due to all other external causes combined was higher in 2018 (4.0 per 100,000 population) than ten years ago (2.0 per 100,000 population)<sup>†</sup>. The rate has been between 3.2 and 4.0 per 100,000 population since 2011.

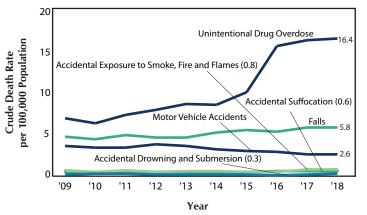
per 100,000 Population Crude Death Rate 15 10





- \*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, 2009-2018



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

- The unintentional drug overdose\* rate increased by 1.2% from 2017 (16.2 per 100,000 population in 2017 vs. 16.4 per 100,000 population in 2018), and by 137.7% from 2009 (6.9 per 100,000 population in 2009).
- Unintentional drug overdose exceeds all other causes, with a crude rate in 2018 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 3.6 deaths per 100,000 population in 2009, to 2.6 per 100,000 population in 2018, a decrease of 27.8%. The falls-related crude death rate has increased by 23.4% since 2009 (5.8 per 100,000 population in 2018 vs. 4.7 per 100,000 population in 2009).
- Death rates due to accidental suffocation and accidental exposure to smoke, fire, and flames increased over the past ten years by 20.0% and 14.3%, respectively. The death rate due to accidental drowning and submersion increased by 50.0%.

Death rates due to suicide were highest among the age group 45 to 64, at 10.7 deaths per 100,000 population in 2018.

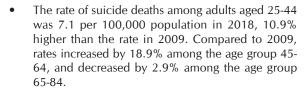
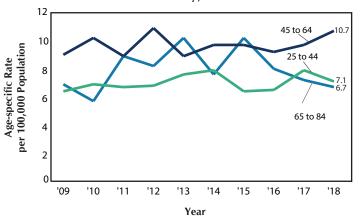
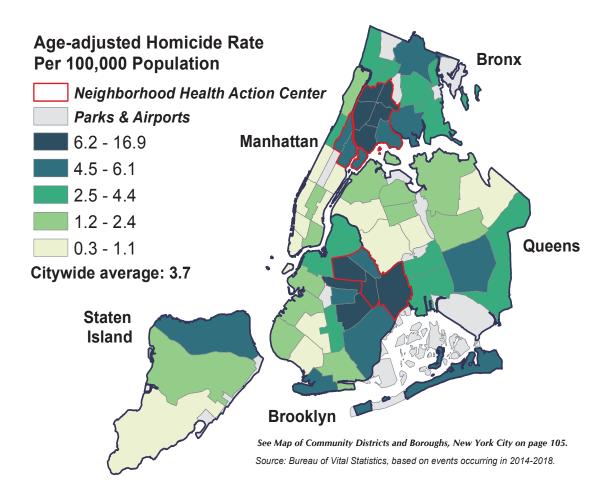


Figure 20. Age-specific Suicide Death Rates, New York City, 2009-2018



#### **EXTERNAL CAUSES OF DEATH**

Figure 21. Age-adjusted Homicide Death Rates (Five-Year Averages) by Community District of Residence, New York City, 2014-2018

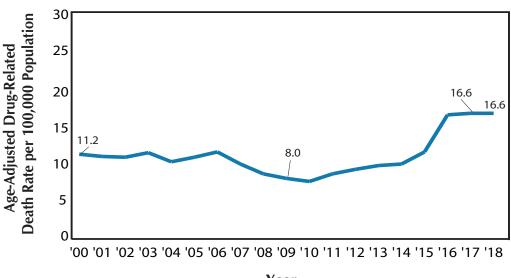


- The five-year average age-adjusted homicide rate was highest in Brownsville with 16.9 deaths per 100,000 population, followed by University/Morris Heights at 10.1, Mott Haven at 9.8, Morrisania at 9.6, and East New York at 9.4.
- In nine community districts, five-year average rates were less than 1.0 per 100,000 population: Battery Park/Tribeca, Greenwich Village/SOHO, Murray Hill, Upper East Side, Bensonhurst, Borough Park, Rego Park/Forest Hills, Bayside, and Tottenville.
- This figure uses five years of data due to the small number of homicide deaths in each community district per year.

## Age-adjusted Homicide Death Rates (Five-Year Averages) per 100,000 Population by Community District (CD) of Residence, New York City, 2014-2018

CD	MANHATTAN	Age- adjusted Homicide Death Rates	CD	BRONX	Age- adjusted Homicide Death Rates	CD	BROOKLYN	Age- adjusted Homicide Death Rates	CD	QUEENS	Age- adjusted Homicide Death Rates
MN01	Battery Park, Tribeca	0.8	BX01	Mott Haven	9.8	BK01	Williamsburg, Greenpoint	2.5	QN01	Astoria, Long Island City	1.9
MN02	Greenwich Village, SOHO	0.8	BX02	Hunts Point	5.7	BK02	Fort Greene, Brooklyn Heights	3.4	QN02	Sunnyside, Woodside	1.1
MN03	Lower East Side	2.4	BX03	Morrisania	9.6	BK03	Bedford Stuyvesant	9.2	QN03	Jackson Heights	1.3
MN04	Chelsea, Clinton	1.1	BX04	Concourse, Highbridge	7.7	BK04	Bushwick	5.1	QN04	Elmhurst, Corona	1.9
MN05	Midtown Business District	1.3	BX05	University, Morris Heights	10.1	BK05	East New York	9.4	QN05	Ridgewood, Glendale	1.0
MN06	Murray Hill	0.8	BX06	East Tremont	9.3	BK06	Park Slope	2.4	QN06	Rego Park, Forest Hills	0.3
MN07	Upper West Side	1.0	BX07	Fordham	4.1	BK07	Sunset Park	1.2	QN07	Flushing	1.6
MN08	Upper East Side	0.4	BX08	Riverdale	2.8	BK08	Crown Heights North	7.9	QN08	Fresh Meadows, Briarwood	1.9
MN09	Manhattanville	3.6	BX09	Unionport, Soundview	6.1	BK09	Crown Heights South	5.0	QN09	Woodhaven	2.5
MN10	Central Harlem	4.8	BX10	Throgs Neck	2.8	BK10	Bay Ridge	1.3	QN10	Howard Beach	3.3
MN11	East Harlem	6.0	BX11	Pelham Parkway	3.8	BK11	Bensonhurst	0.8	QN11	Bayside	0.6
MN12	Washington Heights	1.9	BX12	Williamsbridge	4.8	BK12	Borough Park	0.6	QN12	Jamaica, St. Albans	5.9
						BK13	Coney Island	5.3	QN13	Queens Village	4.4
CD	STATEN ISLAND					BK14	Flatbush, Midwood	4.0	QN14	The Rockaways	5.3
SI01	Port Richmond	4.8				BK15	Sheepshead Bay	2.2			
SI02	Willowbrook, South Beach	1.9				BK16	Brownsville	16.9			
SI03	Tottenville	0.8				BK17	East Flatbush	8.9			
						BK18	Canarsie	6.1			

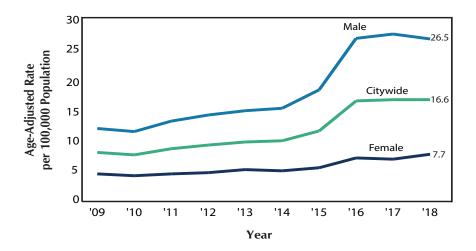




#### Year

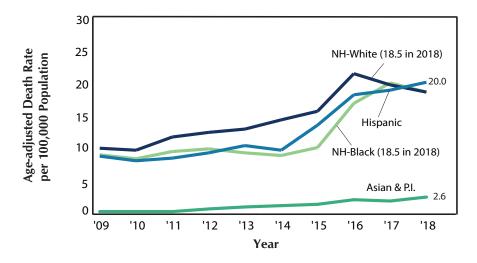
- The special section focuses on drug-related (use of or poisoning by psychoactive substance) deaths, which include deaths due to chronic substance use and drug overdose. All manners of death are included in drug-related deaths. The National Center for Health Statistics uses this definition for categorizing the leading causes of death.
- Drug-related deaths were the 7th leading cause of mortality, and the 3rd leading cause of premature mortality (age < 65
- The age-adjusted mortality rate of drug-related deaths remained the same since 2017, and increased by 107.5% since
- Unintentional drug overdose deaths account for 92% of drug-related deaths. The crude mortality rate for unintentional drug overdose has risen by 1.2% since 2017.

Figure S1. Age-adjusted Drug-related Death Rates, Overall and by Sex, New York City, 2009-2018



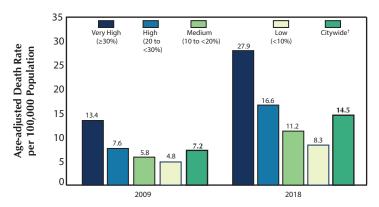
- The age-adjusted drug-related death rate was 16.6 per 100,000 population in 2018, remaining the same since 2017, and a 107.5% increase since 2009.
- The age-adjusted drug-related death rate for males decreased to 26.5 per 100,000 population in 2018, a 2.9% decrease since 2017, yet a 122.7% increase since 2009. The age-adjusted drug-related death rate for females increased to 7.7 per 100,000 population in 2018, a 11.6% increase since 2017 and a 71.1% increase since 2009.

Figure S2. Age-adjusted Drug-related Death Rates by Racial/Ethnic Group New York City, 2009-2018



- Between 2009 and 2018, age-adjusted drug-related death rates increased by 105.6% among non-Hispanic Blacks, by 127.3% among Hispanics, by 85.0% among non-Hispanic Whites, and by 550.0% among Asians and Pacific Islanders.
- In 2018, the drug-related death rate among non-Hispanic Blacks was the same as the rate for non-Hispanic Whites, a change from previous years in which the death rate for non-Hispanic Whites was higher than that for non-Hispanic Blacks (except in 2017).

Figure S3. Age-adjusted Drug-related Death Rates by Neighborhood Poverty\*, New York City, 2009 and 2018



- Neighborhood Poverty and Year
- \*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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 data.
- †The citywide estimate is restricted to NYC residents.

- Since 2009, age-adjusted drug-related death rates increased across all categories of neighborhood poverty.
   Over that period, the rate increased by 108.2% in very high poverty areas and by 72.9% in low poverty areas.
- The age-adjusted drug-related death rate in areas with very high poverty was 3.4 times the rate in areas with low poverty in 2018. In 2009, the rate in areas with very high poverty was 2.8 times the rate of areas with low poverty.

Figure S4. Age-adjusted Drug-related Death Rates by Borough of Residence, New York City, 2009-2018

- Since 2009, age-adjusted drug-related death rates have increased across all boroughs.
- Over that period, age-adjusted drug-related death rates increased by 119.7% in Manhattan, by 124.0% in the Bronx, by 60.0% in Brooklyn, by 116.7% in Queens, and by 92.8% in Staten Island.
- From 2009 to 2018, the Bronx and Staten Island have consistently had higher age-adjusted drug-related death rates, compared to the other three boroughs.

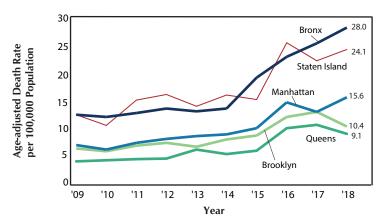
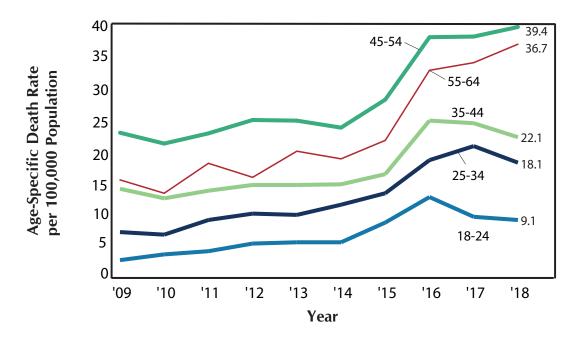
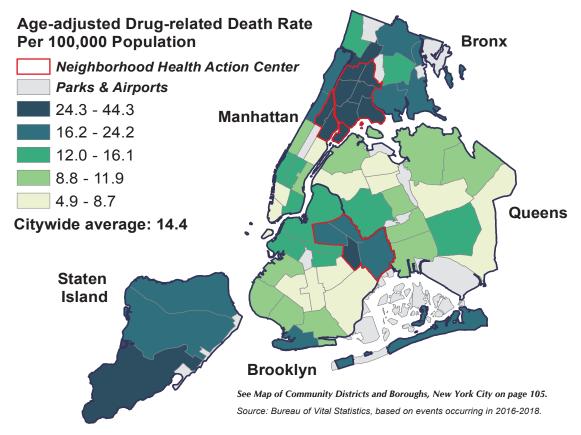


Figure S5. Age-specific Drug-related Death Rates, Ages 18-64, New York City, 2009-2018



- Between 2009 and 2018, age-adjusted drug-related death rates increased for all age groups: by 225.0% for 18-24 year olds, by 151.4% for 25-34 year olds, by 57.9% for 35-44 year olds, by 72.8% for 45-54 year olds, and by 138.3% for 55-64 year olds.
- Since 2009, the drug-related death rate for 45-54 year olds remained consistently higher than all other age groups. However, the drug-related death rate increased most dramatically for 18-24 year olds during this 10-year period.
- 91.6% of drug-related deaths were premature (<65 year olds) in 2018.

Figure S6. Age-adjusted Drug-related Death Rates (Three-Year Averages) by Community District of Residence, New York City, 2016-2018



- The three-year average age-adjusted drug-related death rate was highest in Mott Haven with 44.3 deaths per 100,000 population, followed by East Tremont at 39.7, University/Morris Heights at 34.4, East Harlem at 34.1, and Morrisania at 32.2.
- Age-adjusted drug-related death rates were lowest in Sunnyside/Woodside at 4.9 deaths per 100,000 population, followed by 5.2 in Borough Park, 5.5 in Greenwich Village/SOHO, 5.6 in Battery Park/Tribeca, and 5.8 in the Upper East Side.

## Age-adjusted Drug-Related Death Rates (Three-Year Averages) by Community District (CD) of Residence, New York City, 2016-2018

CD	MANHATTAN	Age- Adjusted Drug- Related Death Rate	CD	BRONX	Age- Adjusted Drug- Related Death Rate	CD	BROOKLYN	Age- Adjusted Drug- Related Death Rate	CD	QUEENS	Age- Adjusted Drug- Related Death Rate
MN01	Battery Park, Tribeca	5.6	BX01	Mott Haven	44.3	BK01	Williamsburg, Greenpoint	12.3	QN01	Astoria, Long Island City	11.9
MN02	Greenwich Village, SOHO	5.5	BX02	Hunts Point	31.6	BK02	Fort Greene, Brooklyn Heights	12.1	QN02	Sunnyside, Woodside	4.9
MN03	Lower East Side	16.1	BX03	Morrisania	32.2	BK03	Bedford Stuyvesant	17.2	QN03	Jackson Heights	7.2
MN04	Chelsea, Clinton	13.2	BX04	Concourse, Highbridge	24.9	BK04	Bushwick	16.3	QN04	Elmhurst, Corona	6.2
MN05	Midtown Business District	12.2	BX05	University, Morris Heights	34.4	BK05	East New York	20.3	QN05	Ridgewood, Glendale	15.7
MN06	Murray Hill	9.4	BX06	East Tremont	39.7	BK06	Park Slope	12.7	QN06	Rego Park, Forest Hills	9.2
MN07	Upper West Side	8.9	BX07	Fordham	28.0	BK07	Sunset Park	8.9	QN07	Flushing	9.8
MN08	Upper East Side	5.8	BX08	Riverdale	14.9	BK08	Crown Heights North	13.9	QN08	Fresh Meadows, Briarwood	7.1
MN09	Manhattanville	21.9	BX09	Unionport, Soundview	19.2	BK09	Crown Heights South	12.4	QN09	Woodhaven	11.5
MN10	Central Harlem	28.6	BX10	Throgs Neck	21.9	BK10	Bay Ridge	11.0	QN10	Howard Beach	9.1
MN11	East Harlem	34.1	BX11	Pelham Parkway	16.0	BK11	Bensonhurst	10.7	QN11	Bayside	10.1
MN12	Washington Heights	16.9	BX12	Williamsbridge	18.7	BK12	Borough Park	5.2	QN12	Jamaica, St. Albans	13.9
						BK13	Coney Island	20.4	QN13	Queens Village	6.8
CD	STATEN ISLAND					BK14	Flatbush, Midwood	7.7	QN14	The Rockaways	19.5
SI01	Port Richmond	24.2				BK15	Sheepshead Bay	10.8			
SI02	Willowbrook, South Beach	21.2				BK16	Brownsville	25.4			
SI03	Tottenville	26.4				BK17	East Flatbush	6.3			
						BK18	Canarsie	8.7			

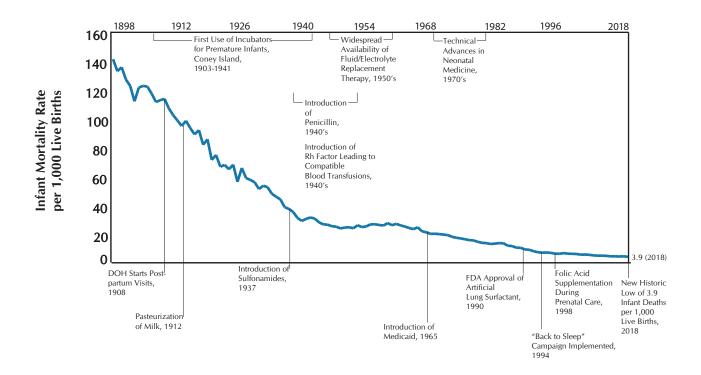
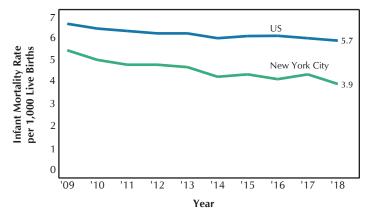


Figure 1. Infant Mortality Rate, New York City and the United States\*, 2009–2018



<sup>\*</sup>Data source: National Center for Health Statistics, National Vital Statistics System.

- Infant mortality is the death of an infant before his or her first birthday. The infant mortality rate (IMR) is the number of
  infant deaths for every 1,000 live births.
- In 2018, the IMR in New York City reached a historic low of 3.9 infant deaths per 1,000 live births. This represents a decrease of 9.3% from 2017 (4.3 per 1,000 live births). The rate has declined by 26.4% since 2009. The IMR may fluctuate from year to year due to the small number of infant deaths.
- In the last 10 years, New York City's IMR has declined by 15.5 percentage points more than the U.S. rate has.

Figure 2. Infant Mortality Rate by Mother's Racial/Ethnic Group, New York City, 2009–2018

- Infant mortality rates declined from 2017 to 2018 among all racial/ethnic groups, except for non-Hispanic Blacks, for which the rate slightly increased from 7.8 infant deaths per 1,000 in 2017, to 7.9 in 2018.
- Although rates fluctuate due to small numbers, they are consistently higher among some groups: the rate for non-Hispanic Blacks was 3.4 times the rate for non-Hispanic Whites in 2018; the rate for Puerto Ricans was 2.3 times the rate for non-Hispanic Whites in 2018.

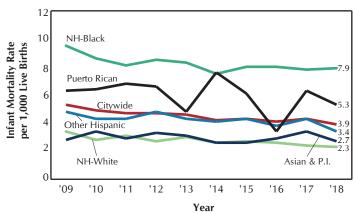
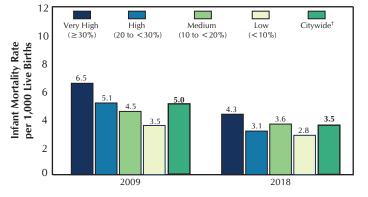


Figure 3. Infant Mortality Rate by Neighborhood Poverty\*, New York City Residents, 2009 and 2018

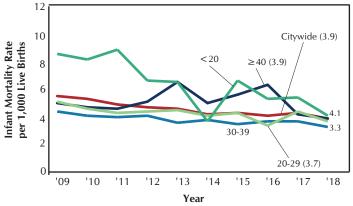


**Neighborhood Poverty and Year** 

- \*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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 data.
- †The citywide estimate is restricted to NYC residents.
- Infant mortality rates have decreased among infants born to women in all age groups since 2009.
- The infant mortality rate in New York City was highest among infants born to the youngest women (<20 years of age). In 2018, the rate among this group was 4.1 infant deaths per 1,000 live births. In 2018, the infant mortality rate for women in the ≥40 age group was 3.9 infant deaths per 1,000 live births. The small number of infant deaths may result in fluctuating rates from year to year.

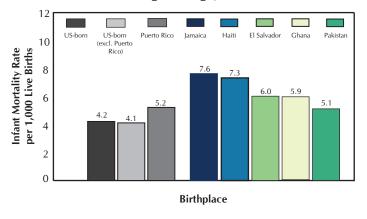
- From 2009 to 2018, the infant mortality rate declined in all poverty groups: by 20.0% in both low and medium poverty areas, by 39.2% in high poverty areas, and by 33.8% in very high poverty areas.
- In spite of these gains, the infant mortality rate in very high poverty areas was 1.5 times the infant mortality rate in low poverty areas in 2018.

Figure 4. Infant Mortality Rate by Mother's Age Group\*, New York City, 2009–2018



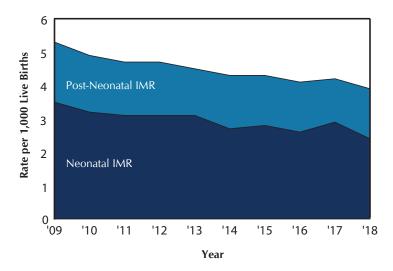
<sup>\*</sup>The fluctuation in the infant mortality rate among infants born to women age <20 and ≥40 is likely due to small numbers.

Figure 5. Infant Mortality Rates by Mother's Birthplace, US-born and Countries of Top 5 IMR, 3-year Moving Average, 2016-2018



- From 2016 to 2018, the infant mortality rate among US-born women (excluding Puerto Rico) was 4.1 infant deaths per 1,000 live births. For the same time period, the infant mortality rate for US-born women (including Puerto Rico) was 4.2 infant deaths per 1,000 live births, and for Puerto Rico-born women, the rate was 5.2 infant deaths per 1,000 live births.
- The infant mortality rate was highest among women born in Jamaica at 7.6 infant deaths per 1,000 live births.
- Women born in Haiti had the second highest infant mortality rate at 7.3 per 1,000 births, followed by El Salvador-born women (6.0), Ghana-born women (5.9), and Pakistan-born women at 5.1 infant deaths per 1,000 live births.

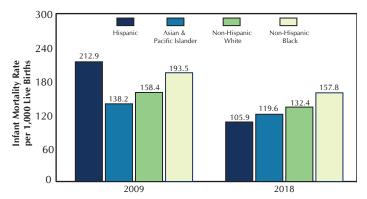
Figure 6. Neonatal and Post-Neonatal Infant Mortality Rate, New York City, 2009-2018



- In 2018, the neonatal (infants who are less than 28 days old) infant mortality rate was 2.4 infant deaths per 1,000 live births, and the post-neonatal (infants 28 days to less than 1 year old) IMR was 1.5 infant deaths per 1,000 live births.
- Figure 6 illustrates the share of the IMR that is attributable to neonatal and post-neonatal deaths. The share of the IMR attributable to neonatal deaths decreased from 66.0% in 2009 to 61.5% in 2018. The share of the IMR attributable to post-neonatal deaths increased from 34.0% in 2009 to 38.5% in 2018.

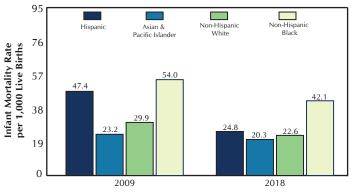
# Figure 7. Infant Mortality Rates by Mother's Racial/Ethnic Group\*, Very Low Birthweight, 2009 and 2018

- From 2009 to 2018, infant mortality rates among very low birthweight infants (born under 1,500 grams, VLBW) declined among all ethnic groups.
- Among VLBW infants in 2018, the infant mortality rate was highest for non-Hispanic Blacks at 157.8 deaths per 1,000 live births, followed by non-Hispanic Whites (132.4), Asians and Pacific Islanders (119.6) and Hispanics (105.9).
- In 2018, the infant mortality rates for non-Hispanic Black, Asian and Pacific Islander, and Hispanic VLBW infants were 1.2, 0.9, and 0.8 times the VLBW infant mortality rate for non-Hispanic White infants, respectively.



Mother's Racial/Ethnic Group and Year

# Figure 8. Infant Mortality Rates by Mother's Racial/Ethnic Group\*, Low Birthweight, 2009 and 2018



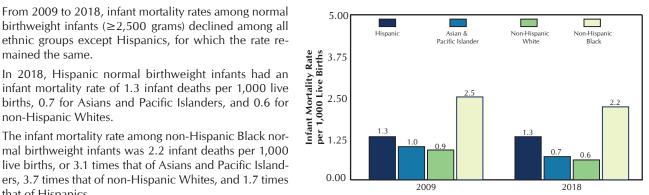
Mother's Racial/Ethnic Group and Year

- From 2009 to 2018, infant mortality rates among low birthweight infants (born under 2,500 grams) declined among all ethnic groups.
- Among low birthweight infants in 2018, the infant mortality rate was highest for non-Hispanic Blacks at 42.1 deaths per 1,000 live births, 1.9 times that of non-Hispanic Whites (22.6).

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

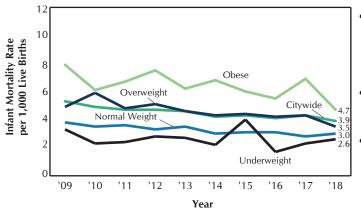
<sup>\*</sup>Other/not stated maternal racial/ethnic groups not included in the figure.

#### Figure 9. Infant Mortality Rates by Mother's Racial/Ethnic Group\*, Normal Birthweight, 2009 and 2018



Mother's Racial/Ethnic Group and Year

#### Figure 10. Infant Mortality Rates by Mother's Pre-Pregnancy Body Mass Index (BMI)\*, 2009-2018



<sup>\*</sup>See Technical Notes for BMI definition.

mained the same.

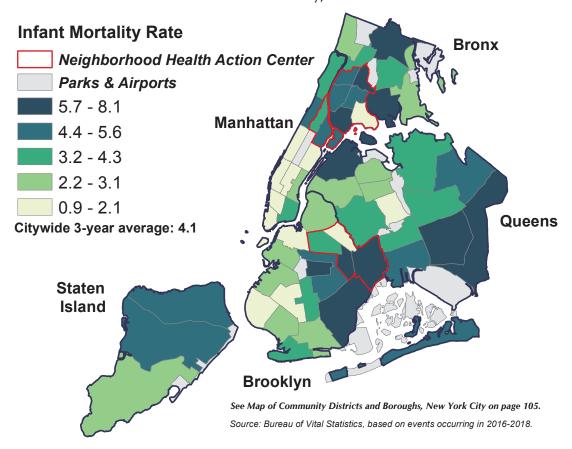
non-Hispanic Whites.

that of Hispanics.

- Women are categorized as underweight if their pre-pregnancy body mass index (BMI) is less than 18.5, normal weight if their BMI is between 18.5 and 24.9, overweight if their BMI is between 25.0 and 29.9, and obese if their BMI is 30 or above.
- Infant mortality rates increased from 2017 to 2018 among underweight and normal weight women, while overweight and obese women saw a decline.
  - Rates fluctuate over time but are consistently higher among overweight and obese women. The rate for overweight women was 1.2 times the rate for normal weight women in 2018; the rate for obese women was 1.6 times the rate for normal weight women in 2018.

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

Figure 11. Average Infant Mortality Rate (Three-Year Averages) by Community District of Residence, New York City, 2016–2018\*



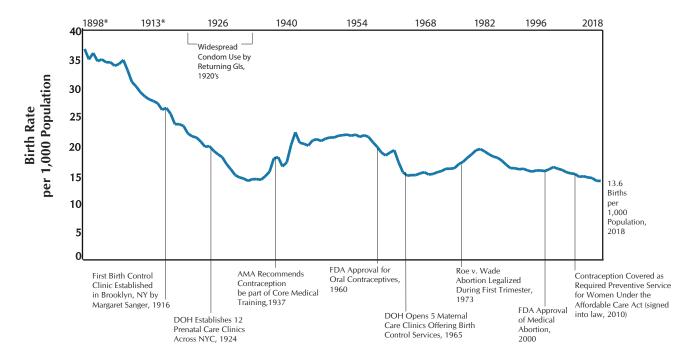
<sup>\*</sup>Due to instability in the infant mortality rates by community district, rates are presented as three-year averages.

- The three-year average infant mortality rate was highest in Queens Village at 8.1 deaths per 1,000 live births, followed by 7.0 in East Tremont, 6.9 in East New York, 6.4 in Canarsie, and 6.3 in Brownsville.
- The lowest three-year average infant mortality rate was in Greenwich Village/SOHO with 0.9 deaths per 1,000 live births, followed by 1.0 in the Upper West Side, 1.3 in Chelsea/Clinton, 1.4 in Bushwick, and 1.5 in Battery Park/Tribeca and Borough Park.

## Average Infant Mortality Rate per 1,000 Population by Community District (CD) of Residence, New York City, 2016-2018

		Infant			Infant			Infant			Infant
CD	MANHATTAN	Mortality	CD	BRONX	Mortality	CD	BROOKLYN	Mortality	CD	QUEENS	Mortality
		Rate			Rate			Rate		,	Rate
MN01	Battery Park, Tribeca	1.5	BX01	Mott Haven	5.7	BK01	Williamsburg, Greenpoint	2.6	QN01	Astoria, Long Island City	6.0
MN02	Greenwich Village, SOHO	0.9	BX02	Hunts Point	2.1	BK02	Fort Greene, Brooklyn Heigl	1.6	QN02	Sunnyside, Woodside	2.8
MN03	Lower East Side	3.8	BX03	Morrisania	5.4	BK03	Bedford Stuyvesant	4.3	QN03	Jackson Heights	2.6
MN04	Chelsea, Clinton	1.3	BX04	Concourse, Highbridge	5.2	BK04	Bushwick	1.4	QN04	Elmhurst, Corona	3.1
MN05	Midtown Business District	1.8	BX05	University, Morris Heights	4.6	BK05	East New York	6.9	QN05	Ridgewood, Glendale	3.2
MN06	Murray Hill	2.8	BX06	East Tremont	7.0	BK06	Park Slope	2.8	QN06	Rego Park, Forest Hills	1.7
MN07	Upper West Side	1.0	BX07	Fordham	4.1	BK07	Sunset Park	2.5	QN07	Flushing	3.6
MN08	Upper East Side	1.8	BX08	Riverdale	2.9	BK08	Crown Heights North	4.4	QN08	Fresh Meadows, Briarwood	3.2
MN09	Manhattanville	4.4	BX09	Unionport, Soundview	5.9	BK09	Crown Heights South	5.9	QN09	Woodhaven	3.8
MN10	Central Harlem	4.0	BX10	Throgs Neck	3.0	BK10	Bay Ridge	1.7	QN10	Howard Beach	4.7
MN11	East Harlem	5.0	BX11	Pelham Parkway	3.4	BK11	Bensonhurst	2.8	QN11	Bayside	4.7
MN12	Washington Heights	3.3	BX12	Williamsbridge	5.7	BK12	Borough Park	1.5	QN12	Jamaica, St. Albans	6.0
						BK13	Coney Island	3.6	QN13	Queens Village	8.1
CD	STATEN ISLAND					BK14	Flatbush, Midwood	3.8	QN14	The Rockaways	4.4
SI01	Port Richmond	5.3				BK15	Sheepshead Bay	2.7			
SI02	Willowbrook, South Beach	5.2				BK16	Brownsville	6.3			
SI03	Tottenville	2.4				BK17	East Flatbush	5.6			
						BK18	Canarsie	6.4			

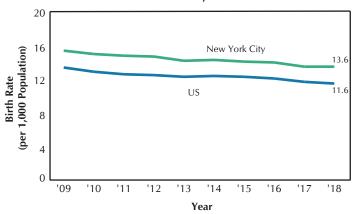
# **PREGNANCY OUTCOMES**



<sup>\*1898-1913</sup> birth counts are estimated, as numbers reported were determined to be incomplete.

#### PREGNANCY OUTCOMES OVERVIEW

Figure 1. Birth Rates, New York City and the United States, 2009–2018



- The 2018 citywide crude spontaneous termination of pregnancy rate (miscarriages and stillbirths) was 4.1 terminations per 1,000 females aged 15 to 44 years. The rate has decreased by 6.8% since 2017, and has been between 4.1 and 7.8 terminations per 1,000 females aged 15 to 44 years since 2009.
- 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 2018 citywide crude rate of induced terminations of pregnancy was 26.8 terminations per 1,000 females aged 15 to 44 years, continuing its decline, down 5.0% since 2017. This rate has decreased each year since 2009. Since 2009, the rate has decreased by 41.1%, from 45.5 to 26.8 terminations per 1,000 females aged 15 to 44 years.

- The 2018 citywide crude birth rate was 13.6 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 2018 citywide crude birth rate remained the same as 2017, matching the historic low in 1936. It decreased by 12.3% since 2009.
- In 2018, live births decreased by 2.3% from 2017, a fourth consecutive year decline. However, due to the population decrease from 2017 to 2018, the rate stayed the same as 2017.
- New York City's 2018 crude birth rate was higher than the United States rate (13.6 vs. 11.6 nationwide), consistent with previous years.

Figure 2. Spontaneous and Induced Termination of Pregnancy Rates, New York City, 2009–2018

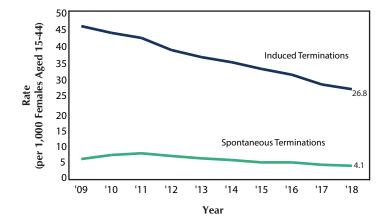
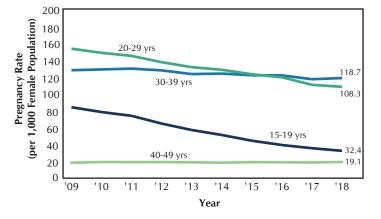


Figure 3. Pregnancy Rates\* by Mother's Age Group, New York City, 2009-2018

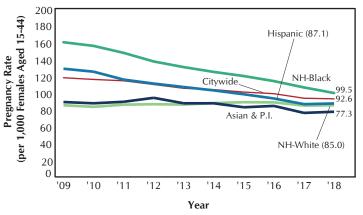


\*See Technical Notes for the definition of pregnancy rate.

- The pregnancy rate is the number of pregnancies (live births, induced terminations, and spontaneous terminations) per 1,000 females aged 15 to 44 years.
- In 2018, women aged 30 to 39 years of age had the highest rate of pregnancy at 118.7 pregnancies per 1,000 females, followed by women 20 to 29 at 108.3, then women 15 to 19 years old and 40 to 49 years old, with pregnancy rates of 32.4 and 19.1, respectively.
- Since 2009, pregnancy rates have increased 4.4% among women aged 40-49 years old.
- Since 2009, pregnancy rates have decreased by 29.4% among women aged 20-29 years old, and by 7.3% among women aged 30-39 years old.
- The teen pregnancy rate (15-19 years of age) decreased by 61.5% since 2009, and 8.7% since 2017.

### PREGNANCY OUTCOMES OVERVIEW

Figure 4. Pregnancy Rates by Mother's Racial/ Ethnic Group, New York City, 2009-2018



- Since 2009, the citywide pregnancy rate has declined by 21.3%, from 117.6 pregnancies per 1,000 females aged 15-44 to 92.6.
- In 2018, the pregnancy rate was highest among non-Hispanic Blacks at 99.5 pregnancies per 1,000 females aged 15-44, followed by 87.1 among Hispanics, 85.0 among non-Hispanic Whites, and 77.3 among Asians and Pacific Islanders.
- From 2009 to 2018, the pregnancy rate decreased among all groups, except for non-Hispanic Whites, for which the rate remained the same. Over the ten year period, non-Hispanic Blacks experienced a 37.7% decline; Hispanics, a 32.1% decline; and Asians and Pacific Islanders, a 13.0% decline.

Figure 5. Pregnancy Rates by Mother's Borough of Residence, New York City, 2009-2018

- In 2018, the pregnancy rate in the Bronx continued to be the highest, at 98.8 pregnancies per 1,000 females aged 15-44, followed by Brooklyn at 90.2, Queens at 80.4, Staten Island at 73.5, and Manhattan at 67.5.
- Since 2009, pregnancy rates have declined in all boroughs. Rates have decreased by 27.5% in the Bronx, by 27.1% in Brooklyn, by 17.0% in Manhattan, by 16.0% in Queens, and by 23.4% in Staten Island.

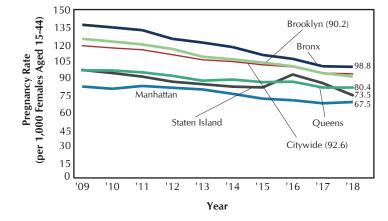
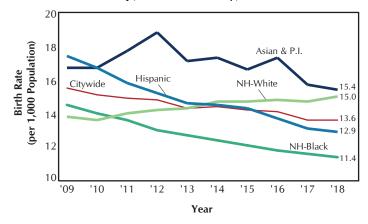


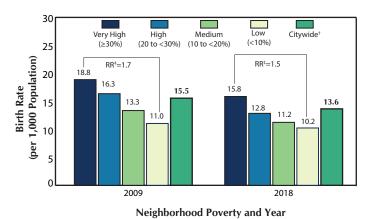
Figure 6. Birth Rates by Mother's Racial/Ethnic Group, New York City, 2009-2018



- In 2018, the birth rate was highest among Asians and Pacific Islanders at 15.4 births per 1,000 population, followed by 15.0 among non-Hispanic Whites, 12.9 among Hispanics, and 11.4 among non-Hispanic Blacks.
- From 2009 to 2018, the birth rate increased among non-Hispanic Whites by 8.7%, and decreased among all other groups. Over the ten year period, non-Hispanic Blacks experienced a 21.4% decline; Hispanics, a 25.9% decline; and Asians and Pacific Islanders, a 7.8% decline.

### **PREGNANCY OUTCOMES OVERVIEW**

Figure 7. Birth Rates by Neighborhood Poverty\*, New York City, 2009 and 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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 data.

- In 2018, the birth rate was highest in the city's very high poverty neighborhoods, at 15.8 births per 1,000 population, compared to 10.2 for the low poverty neighborhoods.
- In 2018, the birth rate in the city's very high poverty neighborhoods was 1.5 times the birth rate of the city's low poverty neighborhoods, compared to 1.7 in 2009.
- Since 2009, birth rates decreased across all categories of neighborhood poverty.

- In 2018, the birth rate among women aged 30 to 39 years of age continued to be the highest, at 88.8 births per 1,000 female population, followed by women 20 to 29 at 64.7, then women 15 to 19 years old and 40 to 49 years old, both with birth rates of 13.1.
- Since 2009, birth rates increased 4.6% among women aged 30-39 years old, and 23.6% among women aged 40-49 years old.
- Among women 20-29 years old, the birth rate has declined by 20.4% since 2009, and 0.2% since 2017.
   The teen birth rate (15-19 years of age) has decreased by 55.1% since 2009, and 5.1% since 2017.

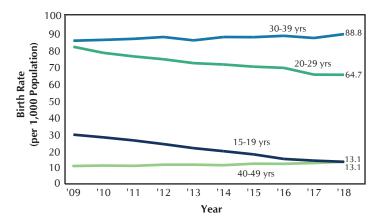
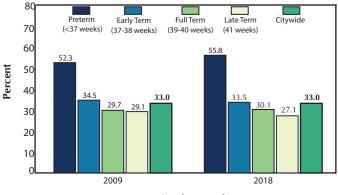


Figure 9. Percent of Cesarean Delivery by Gestational Age, New York City, 2009 and 2018



**Gestational Age and Year** 

- For 2009 and 2018, a majority of preterm (<37 weeks gestational age) infants were delivered by Cesarean section.
- For both years, as gestational age increases, the percent of Cesarean delivery decreases.

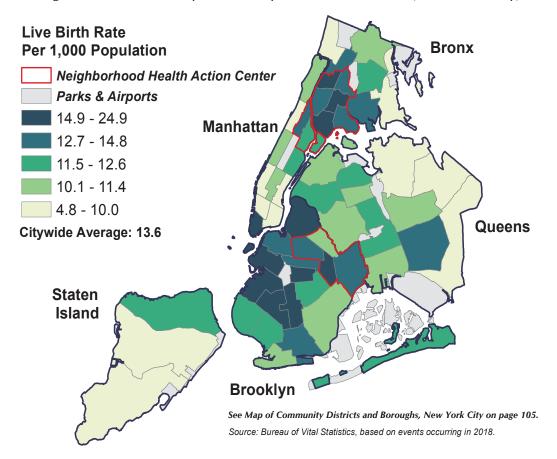
<sup>†</sup>The citywide estimate is restricted to NYC residents.

<sup>‡</sup>Rate Ratio.

Figure 8. Birth Rates by Mother's Age Group, New York City, 2009-2018

### **PREGNANCY OUTCOMES**

Figure 10. Birth Rates by Community District of Residence, New York City, 2018



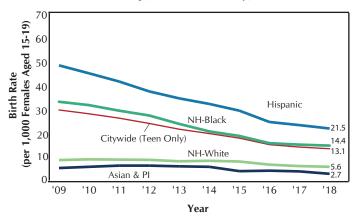
- For 2018, the community district with the highest crude birth rate was Borough Park with 24.9 births per 1,000 population, followed by 18.4 in Williamsburg/Greenpoint, 18.2 in Battery Park/Tribeca, 16.4 in Morrisania, and 15.8 in Sunset Park.
- The community district with the lowest crude birth rate was Bayside with 4.8 births per 1,000 population, then the Lower East Side with 6.9, Chelsea/Clinton with 7.3, Greenwich Village/SOHO with 7.8, and Throgs Neck with 8.2.

### Birth Rates by Community District (CD) of Residence, New York City, 2018

CD	MANHATTAN	Birth Rate	CD	BRONX	Birth Rate	CD	BROOKLYN	Birth Rate	CD	QUEENS	Birth Rate
MN01	Battery Park, Tribeca	18.2	BX01	Mott Haven	14.9	BK01	Williamsburg, Greenpoint	18.4	QN01	Astoria, Long Island City	10.2
MN02	Greenwich Village, SOHO	7.8	BX02	Hunts Point	14.5	BK02	Fort Greene, Brooklyn Heights	14.7	QN02	Sunnyside, Woodside	11.7
MN03	Lower East Side	6.9	BX03	Morrisania	16.4	BK03	Bedford Stuyvesant	14.8	QN03	Jackson Heights	11.9
MN04	Chelsea, Clinton	7.3	BX04	Concourse, Highbridge	14.5	BK04	Bushwick	10.1	QN04	Elmhurst, Corona	11.4
MN05	Midtown Business District	10.3	BX05	University, Morris Heights	15.4	BK05	East New York	14.8	QN05	Ridgewood, Glendale	10.4
MN06	Murray Hill	9.3	BX06	East Tremont	13.7	BK06	Park Slope	15.0	QN06	Rego Park, Forest Hills	11.5
MN07	Upper West Side	11.1	BX07	Fordham	13.9	BK07	Sunset Park	15.8	QN07	Flushing	9.4
MN08	Upper East Side	11.4	BX08	Riverdale	10.0	BK08	Crown Heights North	13.4	QN08	Fresh Meadows, Briarwood	11.3
MN09	Manhattanville	8.5	BX09	Unionport, Soundview	12.7	BK09	Crown Heights South	15.5	QN09	Woodhaven	12.6
MN10	Central Harlem	13.2	BX10	Throgs Neck	8.2	BK10	Bay Ridge	12.1	QN10	Howard Beach	10.4
MN11	East Harlem	11.6	BX11	Pelham Parkway	11.9	BK11	Bensonhurst	12.5	QN11	Bayside	4.8
MN12	Washington Heights	10.2	BX12	Williamsbridge	11.1	BK12	Borough Park	24.9	QN12	Jamaica, St. Albans	12.7
						BK13	Coney Island	10.9	QN13	Queens Village	8.3
CD	STATEN ISLAND					BK14	Flatbush, Midwood	15.1	QN14	The Rockaways	11.7
SI01	Port Richmond	12.1				BK15	Sheepshead Bay	13.2			
SI02	Willowbrook, South Beach	10.0				BK16	Brownsville	15.0			
SI03	Tottenville	9.4				BK17	East Flatbush	11.8			
						BK18	Canarsie	11.4			

### TEEN BIRTHS

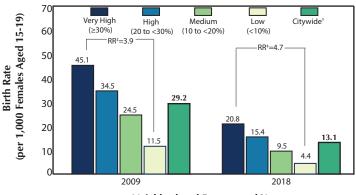
Figure 11. Teen Birth Rates by Mother's Racial/ Ethnic Group, New York City, 2009–2018



- Between 2009 and 2018, teen birth rates declined across all poverty levels: by 53.9% in the city's very high poverty neighborhoods, by 55.4% in high poverty neighborhoods, by 61.2% in medium poverty neighborhoods, and by 61.7% 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 2018, the teen birth rate in very high poverty neighborhoods was 4.7 times that of low poverty neighborhoods; in 2009, it was 3.9 times that of low poverty neighborhoods.

- From 2009 to 2018, the teen birth rate declined by 55.1% overall. Teen birth rates also declined for all racial/ethnic groups: by 54.9% among Hispanics, 55.8% among non-Hispanic Blacks, 33.3% among non-Hispanic Whites, and 47.1% among Asians and Pacific Islanders.
- The teen birth rate among Hispanics remains high compared to that of non-Hispanic Whites. In 2009 the teen birth rate for Hispanics was 5.7 times that of non-Hispanic Whites. In 2018, the teen birth rate for Hispanics was 3.8 times that of non-Hispanic Whites.
- In 2018, the teen birth rate among non-Hispanic Blacks was 2.6 times that of non-Hispanic Whites, reflecting a narrowing of the difference since 2009, when it was 3.9 times that of non-Hispanic Whites.

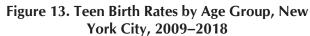
Figure 12. Teen Birth Rate by Neighborhood Poverty\*, New York City Residents, 2009 and 2018

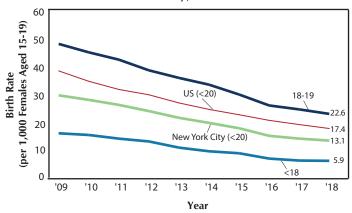


Neighborhood Poverty and Year

†The citywide estimate is restricted to NYC residents.

‡ Rate Ratio



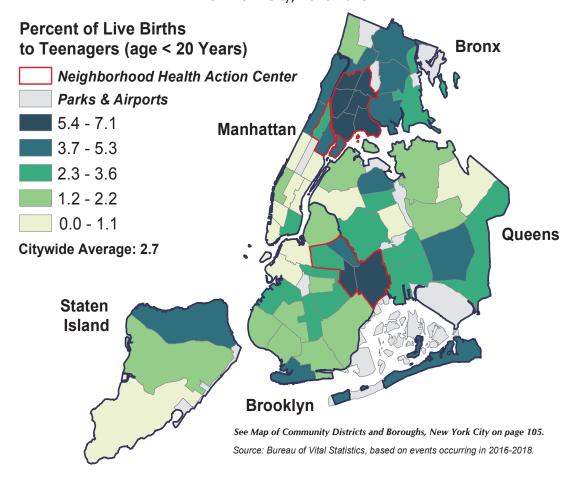


From 2009 to 2018, birth rates declined among all teenagers, regardless of age. Among teens less than 18 years of age, the birth rate declined over this period by 62.4%; among women 18-19, it declined by 52.4%. The overall rate of teen birth (births to women < 20) declined by 55.1%.</li>

<sup>\*</sup>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) 2005-2009 for 2009 data and per ACS 2013-2017 for 2018 data.

### **TEEN BIRTHS**

Figure 14. Percent of Live Births to Teenagers (Three-Year Averages) by Community District of Residence, New York City, 2016-2018



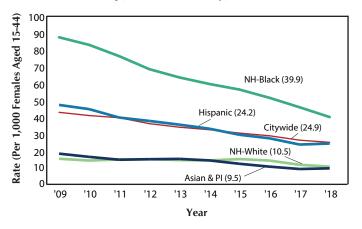
- The community district with the highest percentage (three-year average) of live births to teenagers (< 20 years) was East Tremont with 7.1%, followed by Mott Haven with 6.8%, Brownsville with 6.3%, Hunts Point and University/Morris Heights with 5.7%, and Morrisania and Concourse/Highbridge with 5.5%.
- 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, Park Slope, Rego Park/Forest Hills, Bayside, and
  Tottenville.

### Percent of Live Births to Teenagers (Three-Year Averages) by Community District (CD) of Residence, New York City, 2016-2018

CD	MANHATTAN	Birth Percentage	CD	BRONX	Birth Percentage	CD	BROOKLYN	Birth Percentage	CD	QUEENS	Birth Percentage
MN01	Battery Park, Tribeca	0.0	BX01	Mott Haven	6.8	BK01	Williamsburg, Greenpoint	1.5	QN01	Astoria, Long Island City	2.1
MN02	Greenwich Village, SOHO	0.2	BX02	Hunts Point	5.7	BK02	Fort Greene, Brooklyn Heights	1.1	QN02	Sunnyside, Woodside	1.1
MN03	Lower East Side	2.4	BX03	Morrisania	5.5	BK03	Bedford Stuyvesant	3.5	QN03	Jackson Heights	4.1
MN04	Chelsea, Clinton	1.2	BX04	Concourse, Highbridge	5.5	BK04	Bushwick	5.3	QN04	Elmhurst, Corona	2.9
MN05	Midtown Business District	0.5	BX05	University, Morris Heights	5.7	BK05	East New York	5.4	QN05	Ridgewood, Glendale	2.5
MN06	Murray Hill	0.4	BX06	East Tremont	7.1	BK06	Park Slope	0.7	QN06	Rego Park, Forest Hills	0.7
MN07	Upper West Side	0.7	BX07	Fordham	4.8	BK07	Sunset Park	2.6	QN07	Flushing	1.4
MN08	Upper East Side	0.1	BX08	Riverdale	2.2	BK08	Crown Heights North	2.6	QN08	Fresh Meadows, Briarwood	1.2
MN09	Manhattanville	4.5	BX09	Unionport, Soundview	5.3	BK09	Crown Heights South	1.4	QN09	Woodhaven	2.8
MN10	Central Harlem	3.6	BX10	Throgs Neck	2.9	BK10	Bay Ridge	1.3	QN10	Howard Beach	2.7
MN11	East Harlem	4.0	BX11	Pelham Parkway	3.8	BK11	Bensonhurst	1.6	QN11	Bayside	0.5
MN12	Washington Heights	3.8	BX12	Williamsbridge	5.3	BK12	Borough Park	1.7	QN12	Jamaica, St. Albans	4.0
						BK13	Coney Island	3.7	QN13	Queens Village	2.5
CD	STATEN ISLAND					BK14	Flatbush, Midwood	2.3	QN14	The Rockaways	4.9
SI01	Port Richmond	4.3				BK15	Sheepshead Bay	1.6			
SI02	Willowbrook, South Beach	1.3				BK16	Brownsville	6.3			
SI03	Tottenville	0.6				BK17	East Flatbush	3.6			
						BK18	Canarsie	2.2			

### INDUCED TERMINATION OF PREGNANCY

Figure 15. Age-Adjusted Induced Termination of Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2009–2018



- The 2018 citywide age-adjusted rate of induced terminations of pregnancy (at 24.9 terminations per 1,000 females aged 15 to 44 years) declined by 41.7% since 2009. Similarly, age-adjusted rates among each racial/ethnic group declined: 47.8% among Asians and Pacific Islanders, 48.6% among Hispanics, 54.2% among non-Hispanic Blacks, and 30.9% among non-Hispanic Whites.
- The disparity between non-Hispanic White and non-Hispanic Black induced termination of pregnancy rates has narrowed since 2009. The rate among non-Hispanic Blacks was 3.8 times that of non-Hispanic Whites (39.9 terminations per 1,000 females aged 15-44 vs. 10.5) in 2018, compared to 5.7 times in 2009.

- The 2018 crude citywide rate of induced terminations of pregnancy declined 41.1% since 2009, from 45.5 to 26.8 terminations per 1,000 females aged 15-49 years.
- Since 2009, the age-specific rate declined 64.8% among teens (15 to 19 years of age), from 52.5 terminations per 1,000 females in 2009, to 18.5 in 2018. The rate declined by 39.4% among women 20 to 29 years of age, 31.7% among women 30 to 39 years of age and 24.1% 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.

Figure 16. Age-specific Induced Termination of Pregnancy Rates by Woman's Age Group, New York City, 2009–2018

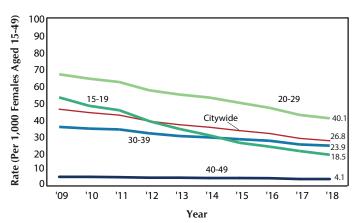
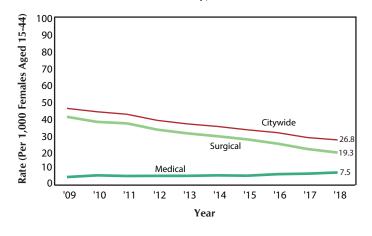
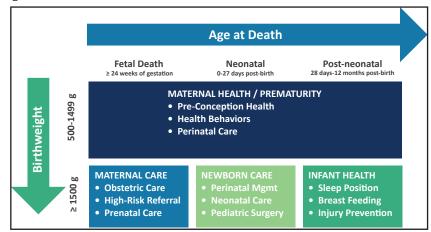


Figure 17. Induced Termination of Pregnancy Rates by Medical vs. Surgical Procedure, New York City, 2009–2018



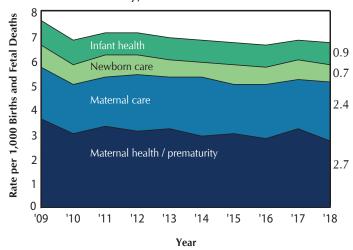
- Medication-induced abortion, using mifepristone in combination with misoprostol, is termed a "medical abortion" and may be performed up to nine weeks of gestation, rather than a surgical procedure, to terminate a pregnancy. Medical abortion is not to be confused with the morning-after pill, also known as emergency contraception, which is used to prevent pregnancy.
- Since 2009, the crude rate of medical abortion in New York City increased 56.3%, to 7.5 terminations per 1,000 females aged 15-44, while the rate of surgical abortion decreased 52.3% to 19.3 terminations per 1,000 females aged 15-44.

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



- 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 Perinatal Periods of Risk (PPOR) methodology was developed to address the complexity of infant mortality. The framework (see above) illustrates four periods of risk based on birthweight and gestational age/age at death, and the labels indicate the primary areas of prevention.
- The PPOR model classifies fetal and infant deaths based on birth weight (500-1,499 grams vs. 1,500 grams or more), and gestational age or age at death. Fetal deaths occur at ≥24 weeks of gestation. Among live births, neonatal deaths occur from 0-27 days post-birth and post-neonatal deaths occur from 28 days to 12 months post-birth.
- 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, 2009-2018



- The overall fetal-infant mortality rate (FIMR) for New York City is 6.7 per 1,000 live births in 2018, decreasing by 13.0% since 2009, and decreasing by 1.5% from 2017.
- 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 40.3% to the FIMR in 2018, indicating that prevention efforts should focus on maternal health/prematurity risk factors.
- The share of the FIMR attributable to the infant health period increased from 13.0% in 2009 to 13.4% in 2018 (post-neonatal deaths with a birthweight of 1,500 grams or greater). The contribution of the maternal care period to the FIMR increased from 27.3% in 2009 to 35.8% in 2018 (fetal deaths with a birthweight of 1,500 grams or greater). The share of the FIMR attributable to the newborn care period decreased 11.1% between 2009 and 2018 (neonatal deaths with a birthweight of 1,500 grams or greater), from 11.7% to 10.4%.

Table 1. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk, Year, and Mother's Racial/Ethnic Group, New York City, 2014-2018

	Births &	Mater	nal								
	Fetal	Healt	th/	Mater	nal	Newb	orn	Infar	nt	Total F	etal-
	Deaths*	Premat	urity	Car	e	Car	e	Heal	th	Infant Mo	ortality
Year	Number	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
2014	122,416	354	2.9	295	2.4	71	0.6	107	0.9	827	6.8
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
Mother's Racial/Ethnic Group	o, 2014-201	8									
Puerto Rican	34,963	115	3.3	59	1.7	32	0.9	36	1.0	242	6.9
Other Hispanic	135,224	355	2.6	252	1.9	86	0.6	127	0.9	820	6.1
Asian and Pacific Islander	102,182	213	2.1	158	1.5	60	0.6	61	0.6	492	4.8
Non-Hispanic White	202,769	334	1.6	326	1.6	129	0.6	101	0.5	890	4.4
Non-Hispanic Black	112,880	644	5. <i>7</i>	393	3.5	124	1.1	185	1.6	1,346	11.9
Other or Unknown	9,027	93	-	125	-	7	-	8	-	233	_
NEW YORK CITY	597,045	1,754	2.9	1,313	2.2	438	0.7	518	0.9	4,023	6.7

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

Table 2. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk and Community District of Residence, New York City, 2014-2018

	Births & Fetal	Maternal Health/	ealth/	Maternal	Newborn	oom	Intant	nt	lotal Fetal-Intant	-Infant
	Deaths*	Prematurity	ξį	Care	Care	e.	Health	Ith	Mortality	lity
Community District of Residence	Number	Number	Rate	Number Rate	Number	Rate	Number	Rate	Number	Rate
MANHATTAN	86,451	158	1.8	137 1.6	5 62	0.7	52	9.0	409	4.7
Battery Park, Tribeca (01)	5,611	9	1.1	9 1.6	4	0.7	2	0.4	21	3.7
Greenwich Village, SOHO (02)	3,733	4	1.1	2 0.5	3	0.8	1	'	6	2.4
Lower East Side (03)	6,489	18	2.8	11 1.7	9	0.0	3	0.5	38	5.9
Chelsea, Clinton (04)	5,062	9	1.2	7 1.4	3	9.0	2	0.4	18	3.6
Midtown Business District (05)	2,819	2	0.7	4.1	1	0.7	'	0.0	8	2.8
Murray Hill (06)	6,464	10	1.5	11 1.7	3	0.5	2	0.3	26	4.0
Upper West Side (07)	12,264	7	9.0	26 2.1	6	0.7	5	0.4	47	3.8
Upper East Side (08)	12,834	20	1.6	13 1.0	5	0.4	2	0.2	40	3.1
Manhattanville (09)	5,134	16	3.1	2 0.4	4	0.8	9	1.2	28	5.5
Central Harlem (10)	7,808	25	3.2	1.7	-	1.3	12	1.5	09	7.7
East Harlem (11)	7,497	15	2.0	18 2.4		0.7	11	1.5	49	6.5
Washington Heights (12)	10,736	29	2.7	21 2.0	8	0.7	7	0.7	65	6.1
BRONX	97,717	373	3.8	255 2.6	5 73	0.7	133	1.4	834	8.5
Mott Haven (01)	7,934	36	4.5	29 3.7	8	1.0	16	2.0	68	11.2
Hunts Point (02)	4,162	10	2.4		_	0.7	1	'	25	0.9
Morrisania (03)	7,294	24	3.3	23 3.2		1.0	13	1.8	29	9.2
Concourse, Highbridge (04)	12,316	37	3.0	42 3.4	10	0.8	17	4.1	106	8.6
University/Morris Heights (05)	11,025	37	3.4	10 0.9	_	1.3	13	1.2	74	6.7
East Tremont (06)	6,343	19	3.0		3	0.8	11	1.7	26	8.8
Fordham (07)	10,831	45	4.2		2	0.5	80	0.7	83	7.7
Riverdale (08)	5,390	19	3.5	2.	-	0.7	2	0.4	33	6.1
Unionport, Soundview (09)	11,968	22	4.6	30 2.5	8	0.7	25	2.1	118	6.6
Throgs Neck (10)	5,025	23	4.6			0.7	5	1.0	43	8.6
Pelham Parkway (11)	6,820	25	3.7		<u></u>	1.0	15	2.2	22	8.1
Williamsbridge (12)	8,609	43	2.0			0.7	8	0.0	85	6.6
BROOKLYN	199,384	286	2.9	455 2.3	143	0.7	174	0.0	1358	6.8
Williamsburg, Greenpoint (01)	18,285	28	1.5	40 2.2	11	9.0	17	0.0	96	5.3
Fort Greene, Brooklyn Heights (02)	8,508	12	1.4		3	0.4	Ω	9.0	39	4.6
Bedford Stuyvesant (03)	11,307	42	3.7		_	1.0	16	4.	107	9.5
Bushwick (04)	6,409	15	2.3	13 2.0		0.3	4	9.0	34	5.3
East New York (05)	13,341	65	4.9	41 3.1	16	1.2	18	1.3	140	10.5
Park Slope (06)	8,615	41	1.6	1.5	2	9.0	7	0.8	36	4.2
Sunset Park (07)	12,236	36	2.9	20 1.6	^	9.0	7	9.0	70	5.7
Crown Heights North (08)	6,422	23	3.6	15 2.3	9	0.0	3	0.5	47	7.3
Crown Heights South (09)	7,453	29	3.9	19 2.5		0.0	10	1.3	65	8.7
Bay Ridge (10)	9,226	20	2.2			0.3	-	0.1	44	4.8
Bensonhurst (11)	13,306	25	1.9		5 13	1.0	10	0.8	69	5.2
Borough Park (12)	26,639	20	1.9	,	3 18	0.7	12	0.5	128	4.8
Coney Island (13)	991'9	18	2.9	1.0	5	0.8	9	1.0	39	6.3
Flatbush, Midwood (14)	12,770	22	4.3	23 1.8	9	0.5	5	0.4	88	7.0
Sheepshead Bay (15)	11,274	25	2.2	18 1.6	7	9.0	10	0.0	09	5.3
Brownsville (16)	6,578	32	4.9	25 3.8	4	9.0	12	1.8	73	11.1
East Flatbush (17)	109'6	51	5.3	38 4.0	9	9.0	18	1.9	113	11.8
07	070 77									

Continued on next page.

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, 2014-2018 (Continued)

	Births & Fetal	Maternal Health	Health/	Maternal	nal	Newborn	om	Infant	Ħ	Total Fetal-Infant	-Infant
	Deaths*	Prematurity	urity	Care	a)	Care	d)	Health	lth	Mortality	lity
Community District of Residence	Number	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
QUEENS	130,639	354	2.7	270	2.1	74	9.0	107	0.8	805	6.2
Astoria, Long Island City (01)	9,834	29	2.9	19	1.9	12	1.2	12	1.2	72	7.3
Sunnyside, Woodside (02)	8,344	13	1.6	18	2.2	3	0.4	4	0.5	38	4.6
Jackson Heights (03)	12,064	31	2.6	20	1.7	4	0.3	14	1.2	69	5.7
Elmhurst, Corona (04)	12,448	29	2.3	20	1.6	8	9.0	4	0.3	61	4.9
Ridgewood, Glendale (05)	9,392	21	2.2	16	1.7	3	0.3	9	9.0	46	4.9
Rego Park, Forest Hills (06)	6,959	11	1.6	8	1.1	2	0.3	4	9.0	25	3.6
Flushing (07)	13,987	29	2.1	25	1.8	2	0.1	15	1.1	71	5.1
Fresh Meadows, Briarwood (08)	9,021	19	2.1	16	1.8	5	9.0	7	0.8	47	5.2
Woodhaven (09)	9,406	35	3.7	30	3.2	8	0.0	3	0.3	92	8.1
Howard Beach (10)	6,389	20	3.1	13	2.0	2	0.3	4	9.0	39	6.1
Bayside (11)	3,309	4	1.2	4	1.2	2	_	3	6.0	13	3.9
Jamaica, St. Albans (12)	14,796	09	4.1	46	3.1	10	0.7	19	1.3	135	9.1
Queens Village (13)	8,221	32	3.9	22	2.7	7	0.0	9	0.7	29	8.1
The Rockaways (14)	6,469	21	3.2	13	2.0	9	0.0	9	0.0	46	7.1
STATEN ISLAND	26,346	71	2.7	89	2.6	24	6.0	19	0.7	182	6.9
Port Richmond (01)	11,510	37	3.2	43	3.7	14	1.2	12	1.0	106	9.2
Willowbrook, South Beach (02)	7,084	27	3.8	13	1.8	7	1.0	2	0.3	49	6.9
Tottenville (03)	2,696	7	0.0	12	1.6	3	0.4	5	9.0	27	3.5
New York City Residents	540,537	1,384	2.6	1,048	1.9	314	9.0	433	0.8	3,179	5.9
Non-Residents	56,411	184	3.3	102	1.8	29	1.0	31	0.5	376	6.7
Residence Unknown	26	28	1	26	'	3	1	2	1	59	1

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. \*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.

# SUMMARY OF VITAL STATISTICS 2018 THE CITY OF NEW YORK Appendix A

Supplemental Population, Mortality, Infant Mortality, and Pregnancy Outcome Data Tables



### **POPULATION CHARACTERISTICS**

Table PC1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2018

		Live	Births	Fertility Rates	Total Fertility Rates	Marri	ages†	De	aths	Infant M	ortality
Year	Population	Total	Rate per 1,000	Per 1,000 Women	Per 1,000 Women	Total	Rate per 1,000	Total	Rate per 1,000	Deaths Under	Rate per 1,000
		Reported*	Population	Aged 15-44		Reported*	Population	Reported*	Population	One Year*	Live Births
1898-1900	3,358,000	119,000	35.4			30,535	9.1	67,503	20.1	16,264	136.
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
1911-1915	5,049,000	140,581	27.8			51,157	10.1	74,666	14.8	14,060	100.
1916-1920	5,492,000	136,101	24.8			59,081	10.8	80,435	14.6	12,004	88.
1921-1925	6,175,000	130,462	21.1			62,710	10.2	69,303	11.2	8,985	68.
1926-1930	6,703,000	125,590	18.7			62,278	9.3	75,395	11.2	7,662	61.
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.
1941-1945	7,597,000	126,495	16.7			76,086	10.0	78,382	10.3	3,525	27.
1946-1950	7,815,000	158,926	20.3			90,914	11.6	79,708	10.2	4,139	26.
1951-1955	7 967 000	162 526	20.8			71 600	9.1	80,583	10.2	3,986	24.
1951-1955	7,867,000 7,806,000	163,526 166,949	20.6			71,689 68,281	8.7	84,290	10.2	4,290	25.
1961-1965	7,816,200	165,197	21.1			68,318	8.7	87,597	11.2	4,333	26.
1966-1970	7,872,972	147,294	18.7			71,653	9.1	88,779	11.3	3,477	23.
1971-1975	7,652,200	115,941	15.1			67,737	8.9	82,113	10.7	2,313	19.
1076	7 401 000	100.00=	140			FF 000		77 500	10 =	2.000	40
1976 1977	7,401,000 7,318,000	109,995 110,486	14.9 15.1			55,829 52,804	7.5 7.2	77,538 75,011	10.5 10.3	2,092 1,971	19.0 17.0
1977	7,316,000	106,720	14.7			54,247	7.5	73,011	10.3	1,827	17.0
1979	7,154,000	106,021	14.8			58,532	8.2	72,079	10.1	1,767	16.3
1980	7,071,639	107,066	15.1	63.6		58,637	8.3	76,625	10.8	1,719	16.
1981	7,097,000	108,547	15.3	63.9		61,775	8.7	73,329	10.3	1,678	15.
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 1985	7,172,000 7,197,000	113,332 118,542	15.8 16.5	65.1 67.6		76,336 77,897	10.6 10.8	74,278 74,852	10.4 10.4	1,540 1,591	13.4 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 1990	7,297,000 7,322,564	137,673 139,630	18.9 19.1	76.0 76.5		69,758 71,301	9.6 9.7	75,957 73,875	10.4 10.1	1,827 1,620	13.3
		,						,			
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 9.4	1,366	10.2
1994 1995	7,590,000 7,658,000	133,662 131,009	17.6 17.1	71.8 70.1		70,438 71,507	9.3 9.3	71,038 70,769	9.4	1,207 1,155	9.0
.555	7,050,000	131,003	.,,,,	70.1		71,307	5.5	70,703	3.2	1,133	0
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.
1998	7,866,000	124,252	15.8	65.5		53,661	6.8	61,010	7.8	843	6.8
1999 2000	7,937,000 8,008,278	123,739 125,563	15.6 15.7	64.9 65.5	1918.4	55,075 58,291	6.9 7.3	62,470 60,839	7.9 7.6	848 839	6.9
2000	0,000,270	123,303	13.7	03.3	1510.4	30,231	7.5	00,033	7.0	033	0.7
2001‡	8,060,000	124,023		64.5	1884.2	72,587	9.0	62,964	7.8	760	6.1
2001‡	8,060,000			ng World Trade				60,218	7.5		
2002‡	8,072,000	122,937	15.2		1866.4	65,490	8.1	59,651	7.4	742	6.0
2003‡	8,068,000	124,345	15.4		1890.5	61,101	7.6	59,213	7.3	807	6.5
2004‡ 2005‡	8,043,000 8,013,000	124,099 122,725	15.4 15.3	65.3 65.0	1898.3 1890.7	62,057 66,348	7.7 8.3	57,466 57,068	7.1 7.1	760 732	6.0
2003+	0,013,000	122,723	15.5	03.0	1030.7	00,340	0.5	37,000	7.1	732	0.0
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		1937.2	66,670	8.3	54,193	6.7	698	5
2009	8,132,000	126,774	15.6		1902.0	65,542	8.1	52,881	6.5	668	5
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.
2012	8,336,697	123,231	14.8		1824.5	74,362	8.9	52,455	6.3	583	4.
2013	8,405,837	120,457	14.3	62.6	1768.7	77,678	9.2	53,409	6.4	551	4.
2014	8,491,079	122,084	14.4	62.9	1767.2	78,409	9.2	53,034	6.2	516	4.3
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.
2017	8,622,698	117,013			1688.8	82,866	9.6	54,319	6.3	500	4.
2018	8,398,748	114,296			1714.2	76,688	9.1	55,081	6.6	446	3.

<sup>\*</sup>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

F See Technical Notes: Births, Mother's Marital Status.
 Population data may vary by publication year. See Technical Notes: Population, Citywide population.

# **POPULATION CHARACTERISTICS**

Table PC2. Population Estimates by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2018

Age in		All			Hispanic		Non	Non-Hispanic White	hite	Non	Non-Hispanic Black	ack	Asian a	Asian and Pacific Islander	lander	Other o	Other or Multiple Races	Races
Years	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Ages	8,398,748	4,005,969	4,392,779	2,449,450	1,184,548	1,264,902	2,694,258	1,316,078	1,378,180	1,849,077	838,089	1,010,988	1,236,871	587,377	649,494	169,092	79,877	89,215
Under 5	535,240	273,556	261,684	185,851	94,507	91,344	148,747	76,529	72,218	108,715	55,094	53,621	69,805	36,238	33,567	22,122	11,188	10,934
2-9	485,720	248,478	237,242	176,302	726,68	86,325	125,932	64,646	61,286	104,065	52,785	51,280	61,526	31,989	29,537	17,895	9,081	8,814
10-14	450,993	229,697	221,296	160,972	81,827	79,145	115,563	59,321	56,242	105,152	52,976	52,176	56,644	29,248	27,396	12,662	6,325	6,337
15-19	444,167	223,219	220,948	158,486	80,432	78,054	109,910	55,251	54,659	107,749	53,488	54,261	57,049	28,571	28,478	10,973	5,477	5,496
20-24	534,372	257,674	276,698	177,735	88,246	89,489	144,188	68,049	76,139	123,527	59,183	64,344	76,761	36,566	40,195	12,161	5,630	6,531
25-29	776,107	377,117	398,990	217,541	110,644	106,897	263,078	126,091	136,987	160,578	77,849	82,729	118,509	54,942	63,567	16,401	7,591	8,810
30-34	723,193	356,269	366,924	198,976	101,986	066'96	261,561	130,629	130,932	135,786	64,494	71,292	113,061	52,852	60,209	13,809	6,308	7,501
35-39	613,975	299,914	314,061	179,608	90,195	89,413	201,902	103,341	98,561	122,055	55,728	66,327	209'66	45,669	53,938	10,803	4,981	5,822
40-44	532,840	256,675	276,165	159,792	78,456	81,336	164,615	84,712	79,903	111,997	49,559	62,438	87,720	40,049	47,671	8,716	3,899	4,817
45-49	529,007	253,777	275,230	155,071	75,004	290'08	159,715	82,435	77,280	118,274	51,764	66,510	87,607	40,757	46,850	8,340	3,817	4,523
50-54	527,046	251,324	275,722	151,287	71,128	80,159	154,320	80,084	74,236	130,535	57,624	72,911	82,813	38,741	44,072	8,091	3,747	4,344
55-59	522,675	246,047	276,628	137,342	62,890	74,452	162,626	82,487	80,139	132,371	57,882	74,489	82,770	39,350	43,420	7,566	3,438	4,128
60-64	477,320	219,423	257,897	115,768	51,304	64,464	163,499	79,261	84,238	114,947	49,044	65,903	76,541	36,787	39,754	6,565	3,027	3,538
69-59	394,415	175,747	218,668	90,196	38,392	51,804	150,835	70,177	80,658	88,935	36,692	52,243	59,817	28,442	31,375	4,632	2,044	2,588
70-74	304,703	130,134	174,569	68,544	28,001	40,543	125,307	56,425	68,882	67,383	25,655	41,728	40,201	18,677	21,524	3,268	1,376	1,892
75-79	218,228	88,597	129,631	49,795	19,187	30,608	89,481	38,498	50,983	49,288	17,646	31,642	27,464	12,333	15,131	2,200	933	1,267
80-84	153,134	59,718	93,416	33,274	12,093	21,181	66,137	27,550	38,587	32,820	10,986	21,834	19,493	8,552	10,941	1,410	537	873
85 & Over	175,613	58,603	117,010	32,910	10,279	22,631	86,842	30,592	56,250	34,900	9,640	25,260	19,483	7,614	11,869	1,478	478	1,000
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Data Source: US Census Bureau, population estimates, 2018 vintage.

Table PC3. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2018

		Number	ıber			Average	Average Per Day	
				Infant				Infant
Months	Marriages*	Births	Deaths	Deaths	Marriages	Births	Deaths	Deaths
January	5,120	9,894	5,636	32	165	319	182	1.0
February	5,307	8,602	4,644	31	190	307	166	<u></u>
March	5,910	9,390	4,739	45	191	303	153	1.5
April	6,420	8,961	4,468	30	214	299	149	1.0
May	7,301	9,703	4,328	29	236	313	140	6.0
June	968'9	9,643	4,227	20	230	321	141	1.7
July	7,052	9,818	4,300	43	227	317	139	4.
August	8,241	10,170	4,305	33	266	328	139	7.
September	6,324	9,442	4,263	41	211	315	142	4.
October	6,837	9,794	4,720	44	221	316	152	4.
November	5,443	9,381	4,579	36	181	313	153	1.2
December	5,837	9,498	4,872	32	188	306	157	1.0
Total	76,688	114,296	55,081	446	210	313	151	1.2

<sup>\*</sup> See Technical Notes: Births, Mother's Marital Status.

# Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2018

					BOROUGH	GH OF RESIDENC	DENCE			S	SEX	
							Staten		Residence			ICD-10/ICD-9 Comparability
Cause (	Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	Manhattan	Bronx	Brooklyn	Queens	Island	Nonresidents	Unknown	Male	Female	Ratio
Total Deaths	eaths	55,081	002'6	9,343	15,345	12,519	3,608	4,425	141	27,392	27,689	
Natura	Natural Causes	51,454	660'6	8,617	14,477	11,762	3,411	4,073	75	24,760	26,694	
*-	1.*   Tuberculosis (A16-A19)	20	5	-	5	_	-	-	-	19		0.88
	Respiratory tuberculosis (A16)	17	2	-	3	9	_	-	ı	16		
	Septicemia (A40-A41)	430	83	112	118	77	10	29	-	206		
*.	Viral Hepatitis (B15-B19)	165	27	4	20	19	6	19	1	86	29	0.71
	Human Immunodeficiency Virus (HIV) Disease (B20-B24)	331	19	101	104	31	8	25	-	230		
	All Other Infective and Parasitic Diseases (Rest of A01-B99)	343	78	75	73	89	16	33	1	152		
*.9	Malignant Neoplasms (C00-C97)	13,037	2,297	1,960	3,435	2,806	865	1,664	10	6,391	6,646	
	Lip, oral cavity, and pharynx (C00-C14)	210	36	31	53	42	20	28	-	139		96:0
	Esophagus (C15)	237	38	32	45	09	22	40	1	180	57	0.99
	Stomach (C16)	425	71	59	111	116	22	46	1	241	_	1.01
	Colon. rectum, and anus (C18-C21)	1.175	190	171	351	260	86	116		296		ľ
	Liver and intrahepatic bile ducts (C22)	069	115	123	152	158	20	91	-	463		96.0
	Pancreas (C25)	1,075	212	142	296	208	64	152	-	520	555	
	Larynx (C32)	80	80	20	22	13		10	1	63		ľ
	Trachea, bronchus, and lung (C33-C34)	2,426	430	391	989	546	184	235	4	1,272		
	Melanoma of skin (C43)	104	22	10	18	19	9	29	1	. 67		0.95
	Mesothelioma (C45)	37	4	2	17		-	9	-	20	17	
	Breast (C50)	1,133	187	158	345	791	19	120	-	12	1,121	1.01
	Cervix uteri (C53)	121	15	20	40	31		8	1	ľ	121	
	Corpus uteri and uterus, part unspecified (C54-C55)	393	62	78	124	9	22	42	1	ľ	393	
	Ovary (C56)	363	65	37	120	71	27	43	ı	'	363	0.99
	Prostate (C61)	722	146	115	183	173	4	64	1	722		1.01
	Kidney and renal pelvis (C64-C65)	252	39	45	28	24	23	33	1	175		1.00
	Bladder (C67)	340	29	48	78	89	30	49	1	228		
	Meninges, brain, and other parts of central nervous system (C70-C72)	314	56	20	2/9	74	19	39	1 ,	180		
	Lymphoid, hematopoietic and related tissues (C81-C96)	1,383	250	184	308	259	98	295	-	77.2	611	1.00
	Hodgkin's disease (C81)	76	n :	7	= 1	4	7	4	1	8		
	Non-Hodgkin's lymphoma (C82-C85)	468	101	- 5	96 F	85.	25	96	1	27.1	197	
	Muniple myeloma and immunopromerative neoplasms (C66, C90)	167	7 4 2	94 0	131	113	17	10.	٠.	103		1.04
*	Leunching (C91-C93) In City or Donion Monalcone of Hassatain of Hassatain Or Halmourn Bohavior (D00 D49)	363	102	90	131	2 7	00 -	44-		122		
* a	_	75	33	13	60	‡ <del>-</del>	0 0	04		122		
	Michilias (LOC-D04) Diahates Mallitus (F10-F14)	1 963	307	370	07	410	132	92		1 033	0	1 0.3
	Month and Rehavioral Disorders Due to Hone Adopt (1910)	980	300	5 6	600	63	1 1 1	0 4	'	100,1		
	Mental and Behavioral Disorders Due to Ose of Arcoffol (FIO) Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding	7007	CC	76	6	70	È	2	t	177	o d	
т	Alcohol and Tobacco (F11-F16, F18-F19) ‡	125	35	43	17	-	с.	1	2	85		
12.	Diseases of Nervous System (G00-G98)	2,596	639	111	572	695	186	92	-	1,018	1,578	
*	Meningitis (G00,G03)	16	2	4	3	-	4	2	1	-		1.01
*	Parkinson's disease (G20-G21)	144	131	09	106	66	27	18	1	276	165	
	Alzheimer's disease (G30)	1,195	318	230	273	300	42	31	-	354		
13.	Major Cardiovascular Diseases (100-178)	21,328	3,418	3,456	6,362	5,301	1,576	1,183	32	10,210	11,118	
*	Diseases of heart (100-109, 111, 113, 120-151)	17,743	2,759	2,788	5,470	4,408	1,404	884	30	8,640	9,103	
	Acute rheumatic fever and chronic rheumatic heart diseases (100-109)	51	17	9	15	9	-	9	1	23	78	0.88
	Hypertensive heart disease (111)	2,442	427	470	820	471	151	94	6	1,133	1,309	
	Hypertensive heart and renal disease (113)	197	33	52	19	34		10	1	114	83	1.13
	Chronic ischemic heart disease (120, 125)	11,655	1,654	1,673	3,591	3,173	1,006	539	19	5,706	5,949	1.01
	Acute myocardial infarction (121-122)	1,796	294	326	536	363	173	103	-	920	876	
	Cardiomyopathy (142)	147	30	50	39	24	9	19	_	α	(9	

Continued on the next page.

Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2018 (Continued)

					BOROL	BOROUGH OF RESIDENCE	SIDENCE			S	SEX	
							Staten		Residence			ICD-10/ICD-9 Comparability
Cause	Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	Manhattan	Bronx	Brooklyn	Queens	Island	Nonresidents	Unknown	Male	Female	Ratio
	Heart failure (150)	398	95	62	107	104	4	16	ľ	197	201	1.04
*	Essential hypertension and hypertensive renal disease (110, 112, 115)	1,272	278	247	330	296	48	73	'	539	733	1.12
*	Cerebrovascular diseases (160-169)	1,888	324	355	458	475	88	186	2	812	1,076	1.05
*	Atherosclerosis (I70)	162	4	22	27	64	24	11	'		66	0.97
*	Aortic aneurysm and dissection (171)	149	19	25	40	38	8	19	0		52	1.00
4. *.	'n	2,004	291	405	641	467	94	102	4	1	991	0.70
15.*	Chronic Lower Respiratory Diseases (J40-J47)	1,781	317	359	449	410	132	110	4		994	1.04
	Emphysema (143)	93	18	16	20	29	5	3	2	50	43	96.0
	Asthma (145-146)	174	35	26	43	29	5	5	_	99	108	0.89
16.	Pneumoconiosis Due to Asbestos and Other Mineral Fibres (161)	0		'	'	'	'		'	Ľ	ľ	
17.*		135	23	18	42	37	7	8	'	64	71	1.10
18.*		98	23	16	24	25	4	5	-	54	44	0.97
*.61	Chronic Liver Disease and Cirrhosis (K70, K73-K74)	571	98	114	137	118	29	85	2	411	160	1.03
		398	29	87	95	79	20	57		309	89	1.00
20.*		64	15	14	15	4	2	4	'	32	32	96.0
21.*	Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)	459	83	21	192	72	27	34	'	250	209	1.26
		441	75	20	188	20	27	31	'	243	198	1.33
22.*	Pre	32	4	7	6	2	_	9	'		32	1.14
		23	3	4	8	3	•	5	'		23	
23.*	Certain Conditions Originating in the Perinatal Period (P00-P96)	220	20	42	69	42	10	39	2	131	89	1.08
24.*	Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00	230	20	47	28	45	10	20	•	127	103	06:0
25.	Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)	370	105	29	95	65	20	26	1	159	211	0.98
	$\overline{}$	_	1 ,	_	1 (	1 ,	'	1			,	4
76.	$\overline{}$	2	- 60	- 0	7 7 7	- 1	' L	- 001	' '	4 00		1.06
  -	All Omer Natural Causes (Rest of Aug-R99)	4,524	983	279	1,160	/16	735	400			770,7	
Exteri	External Causes	3,627	199	726	898	757	197	352	99	2,	995	
	Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)	219	13	22	85	43	6	12	•	198	21	1.00
28.	Accidents (V01-X59,Y85-Y86)	2,415	442	270	532	487	151	236	47	1,729	989	1.03
	Accidental poisoning by psychoactive substances, excluding alcohol and											
	tobacco (X40-X42, X44) ‡	1,375	244	369	263	215	11	145	28	1,051	324	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) ‡	1,500	279	412	280	226	114	156	33	<del>-</del>	364	
+	Accidents except poisoning by psychoactive substance use	1,040	198	151	269	272	40	91	19	678	362	
	Motor vehicle accidents	219	21	30	59	73	=	22	3		29	0.95
	Accidental falls (W00-W19)	489	121	69	120	116	23	36	4		190	0.77
29.*	Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)	562	122	9	133	155	31	54	2	412	150	1.00
30.*	Assault (Homicide) (U01-U02, X85-Y09, Y87.1)	311	22	86	103	54	3	28	3	258	53	1.00
31.*	Legal Intervention (Y35, Y89.0)	9	-	2	-	-	-	'	'	5	_	0.94
32.	Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	296	29	37	06	21	10	27	41	208	88	0.99
33.*	Complications of Medical and Surgical Care (Y40-Y84, Y88)	37	7	4	6	6	_	7	'	20	17	0.63
34.*	34.*   Operations of War and Their Sequelae (Y36,Y89.1)	0	•	1	1	•	•	-	1	'	-	
* Elis	* Eligible to be ranked as leading causes nationally and in New York City.											

Ligher to be leaved as reason be added to the contract of the # See Technical Notes: Deaths, Drug-Related Deaths.

<sup>§</sup> 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, Ethnic Group, and Sex, New York City, 2018

						L											L					H						ð	Other/Multiple	iple
Age in			₹					His	Hispanic				Non	Non-Hispanic White	c White			Z	Non-Hispanic Black	anic Blac	¥		<	sian an	Asian and Pacific Islander	Islande	_	Rac	Race/Unknown	nwc
Years	Total	$\vdash$	Male	H	Female	L	Total	<u> </u>	Male	Fen	male	Total	le le	Male	L	Female	Ľ	Total	Male	le le	Female	le e	Total	L	Male	Ë	Female	Total	Male	Male Female
	No. Ra	Rate	No. Re	Rate	No. Rate	e No.	o. Rate	o N O	Rate	ON	Rate	Š	Rate	No.	Rate	No. Rate	e No.	Rate	Š	Rate	S	Rate	No.	Rate	No. Ra	Rate No.	o. Rate	ġ	o N	Š
All Ages	55,081	6.6 27,392		6.8 27,689		6.3 10,94	941 4.5	5 5,620	0.4.7	7 5,321	4.2	23,412	8.7	11,490	8.7 11,922	922 8.7	.7 14,785	5 8.0	986'9	8.3	7,797	7.7	4,655	3.8 2,	2,521	4.3 2,1	2,134 3.3	1,288	773	515
Age-		$\vdash$		L				L		L							L					H				L				
Adjusted	-1	5.6		6.7	4	4.6	4.8	8	0.9	0	3.9		5.7		6.7	4	4.8	6.9		8.5		5.8		3.5	_	4.3	2.9			
Under 5	520	1.0	303	1.1	217 0	0.8	121 0.7		61 0.6	09 9	0.7	125	0.8	74	1.0	51 0.	0.7 178	1.6	118	2.1	09	1.1	49	0.7	24 (	0.7	25 0.7	47	26	21
5-9	57 (	0.1		0.1	28 0	0.1	15 0.1	_	7 0.1	3	3 0.1	19	0.2	6	0.1	10 0.	0.2	19 0.2	6	0.2	10	0.2	33	0.0	3	0.1	0	_	-	
10-14	63 (	0.1	33	0.1	30 0	0.1	21 0.1		13 0.2	2 8	3 0.1	=	0.1	3	0.1	8 0.1		22 0.2	12	0.2	10	0.2	2	0.1	4	0.1	1 0.0	4	-	3
15-19	136 (	0.3	92	0.4	44	0.2	43 0.3		31 0.4	4	9.0	34	0.3	20	0.4	14 0.	0.3	48 0.4	34	9.0	4	0.3	10	0.2	9	0.2	4 0.1	_	-	
20-24	274 (	0.5	194	8.0	80 0	0.3	89 0.5		68 0.8	8 21	0.7	9/	0.5	48	0.7	28 0.	0.4	71 0.6	54	6.0	17	0.3	33	0.4	20 (	0.5	13 0.3	2	4	-
25-29	485 (	9.0	350	6.0	135 0	0.3	158 0.7	7 116	0.1 9	0 42	9.4	128	0.5	87	0.7	41 0.	0.3 152	2 0.9	114	1.5	38	0.5	34	0.3	24 (	0.4	10 0.2	13	6	4
30-34	577 (	8.0	399	1.1	178 0	0.5	160 0.8	8 122	2 1.2	č	9.0	197	0.8	139	1.1	58 0.	0.4 147	7.1.1	94	1.5	23	0.7	42	0.4	23 (	0.4	19 0.3	31	21	10
35-39	688	1.	457	1.5	231 0	0.7	237 1.3	3 182	2 2.0	0 55	9.0	176	6.0	119	1.2	57 0.	0.6 199	9 1.6	107	1.9	92	4.	54	0.5	34 (	0.7	20 0.4	22	15	^
40-44	926	1.7	220	2.2	356 1	1.3	264 1.7	7 179	9 2.	3 85	1.0	244	1.5	154	1.8	90 1.	1.1 317	7 2.8	174	3.5	143	2.3	80	6.0	. 47	1.2	33 0.7	21	16	2
45-49	1,424	2.7	828	3.4	566 2	2.1	404 2.6	6 257	7 3.4	147	1.8	383	2.4	251	3.0	132 1.	1.7 463	3 3.9	244	4.7	219	3.3	126	4.	73	1.8	53 1.1	48	33	12
50-54	2,193	4.2 1,	1,328	5.3	865 3	3.1	534 3.5	5 330	0 4.6		1 2.5	589	3.8	387	4.8	202 2.	2.7 836	6.4	469	8.1	367	2.0	173	2.1	102	2.6	71 1.6	61	40	21
55-59	3,237 6	6.2 2,	2,034	8.3 1,2	1,203 4	4.3	723 5.3	3 456	6 7.3	3 267	3.6	928	5.9	642	7.8	316 3.	3.9 1,220	0 9.2	718	12.4	205	6.7	240	2.9	153	3.9	87 2.0	96	92	31
60-64	4,085	8.6 2,	2,439 1	11.1	1,646 6	6.4	868 7.5	5 521	10.2	2 347	5.4	1,381	8.4	. 098	10.9	521 6.2	1,402	12.2	758	15.5	644	9.8	317	1.4	218	5.9	99 2.5	117	82	35
69-59	4,779 12	12.1 2,	2,748 1	15.6 2,0	2,031 9	9.3	958 10.6	6 578	12.1	1 380	7.3	1,784	11.8	1,043	14.9	741 9.2	.2 1,496	16.8	775	21.1	721	13.8	395	9.9	254 8	8.9	141 4.5	146	98	48
70-74	5,373 17	17.6 2,	2,960 2	22.7 2,4	2,413 13	13.8 1,0	1,023 14.9	9 559	9 20.0	0 464	11.4	2,222	17.7	1,286	22.8	936 13.6	.6 1,537	7 22.8	779	30.4	758	18.2	455 1	11.3	256 13	13.7	199 9.2	136	80	26
75-79	5,965 27	27.3 3,	3,047 3	34.4 2,9	2,918 22	22.5 1,1	1,161 23.3		31.4		18.3	2,429	27.1	1,273	33.1 1,1	1,156 22.7	.7 1,752	2 35.5	804	45.6	948	30.0	491 1	17.9	283 22	22.9 2	208 13.7	132	82	47
80-84	6,610 43	43.2 3,	3,156 5	52.8 3,4	3,454 37	37.0 1,3	1,397 42.0	0 625	5 51.7	7 772	36.4	2,909	44.0	1,432	52.0 1,4	1,477 38.3	.3 1,538	8 46.9	189	62.0	857	39.3	632 3	32.4	340 39	39.8	292 26.7	134	78	26
≥85	17,689 100	100.7 6,	6,395 10	1.09.1	11,294 96	96.5 2,7	2,765 84.0	0 913	3 88.8	8 1,852	81.8	9,747	112.2	3,663 1	119.7 6,0	6,084 108.	.2 3,388	8 97.1	1,044	108.3	2,344	92.8	1,516 7	77.8	657 86	86.3 8	859 72.4	273	118	155
Mean age				_																										
at death	73.5		6.69	_	77.0		70.1	9	65.8	7.4	74.7	77.6	9	74.1		80.9		70.0	66.2	.2	73.3		73.9		71.8		76.4	67.4	65.4	70.4
Median		-																												
age at death	77		73	_	81		74		89		62	81		77		85		72	89		9/		78		75		81	70	89	75
-	-		9	۱					-		.	];																		

\* Population data are from US Census Bureau estimates for July 1, 2018, released in the 2019 vintage file.

Table M3. Deaths by Ancestry\* and Borough of Residence, New York City, 2018

A A oth out o A magatimusk	Total			Borough of	Residence			Residence
Mother's Ancestry*	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Nonresidents	Unknown
Total	55,081	9,700	9,343	15,345	12,519	3,608	4,425	141
Hispanic								
Colombian	332	37	19	25	222	7	22	
Cuban	396	119	76	52	110	10	27	2
Dominican	2,281	769	837	274	299	21	81	
Ecuadorian	480	65	92	74	215	4	29	1
Mexican	411	53	87	114	107	28	21	1
Puerto Rican	4,850	912	1,910	1,187	488	146	197	10
Other Hispanic	2,191	355	686	470	461	65	132	22
North American and the Caribbean								
African-American	10,161	1,980	2,526	3,187	1,778	161	502	2
American	10,380	2,787	826	2,081	2,246	827	1,609	4
Guyanese	996	16	105	331	500	6	38	
Haitian	948	48	27	608	207	4	53	
Jamaican	1,168	36	283	526	226	8	89	
Trinidadian	439	16	24	260	108	6	25	
Other North American and the Caribbean	1,030	72	129	625	134	13	57	
African								
Egyptian	112	10	3	18	37	25	18	•
Ghanaian	65	4	46	11	1	0	3	(
Nigerian	83	4	12	26	21	10	10	(
Other African	181	50	59	21	27	11	13	(
European								
English	203	54	17	29	33	29	41	(
German	615	119	74	68	223	79	52	(
Irish	1,288	95	208	158	424	259	144	(
Italian	3,580	130	372	819	843	1,077	339	(
Polish	559	62	25	172	203	58	39	(
Russian	926	65	26	640	125	52	18	(
Other European	2,544	278	153	960	804	195	152	2
Asian								
Asian Indian	361	35	20	23	198	22	62	1
Bangladeshi	246	4	52	53	123	1	13	(
Chinese	2,607	666	38	836	909	82	76	(
Filipino	266	47	11	17	133	17	41	(
Korean	372	35	17	16	258	11	34	
Pakistani	181	6	8	66	68	10	23	(
Other Asian	650	100	55	147	234	39	74	1
Other								
Jewish or Hebrew	1,786	193	88	977	266	58	204	(
Other or Not Stated	2,393	478	432	474	488	267	187	67

 $<sup>^{\</sup>ast}~$  See Technical Notes: Race, Ancestry, and Ethnic Group.

Table M4. Deaths by Place of Death\*, New York City, 2014-2018

	20	14	20	15	20	16	20	17	20	18
Place of Death	Deaths	%								
Total	53,034	100.0	54,120	100.0	54,280	100.0	54,319	100.0	55,081	100.0
Hospital Inpatient	25,559	48.2	25,152	46.5	25,111	46.3	24,883	45.8	24,964	45.3
Emergency/Outpatient	4,423	8.3	4,457	8.2	4,584	8.4	4,646	8.6	4,997	9.1
Dead on Arrival (DOA)	585	1.1	800	1.5	706	1.3	682	1.3	668	1.2
Nursing Home/Long Term Care Facility	7,340	13.8	7,631	14.1	7,381	13.6	7,779	14.3	7,945	14.4
Hospice Facility	2,157	4.1	2,711	5.0	2,611	4.8	1,936	3.6	1,387	2.5
Decedents' Residence	12,318	23.2	12,657	23.4	13,045	24.0	13,610	25.1	14,326	26.0
Other	652	1.2	712	1.3	842	1.6	783	1.4	794	1.4
Unknown or Not Stated	-	-	-	-	-	-	-	-	-	-

<sup>\*</sup> See Technical Notes: Geographical Units, Place of Death.

Table M5. Deaths by Birthplace and Borough of Residence, New York City, 2018\*

Birthplace	Total		Boro	ugh of Reside	ence		Non-	Residence
ыппрасе	TOtal	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Residents	Unknown
Total	55,081	9,700	9,343	15,345	12,519	3,608	4,425	141
United States	32,791	6,472	6,374	7,865	6,162	2,787	3,092	39
United States (excluding Puerto Rico)	28,822	5,684	4,744	6,904	5,803	2,689	2,967	31
Puerto Rico	3,969	788	1,630	961	359	98	125	8
China	2,376	616	33	793	799	70	65	-
Dominican Republic	2,189	747	817	264	277	20	64	-
Jamaica	1,412	50	366	576	300	9	111	-
Ukraine	1,100	39	21	860	116	48	15	1
Guyana	1,059	18	118	358	515	8	42	-
Italy	1,000	39	117	294	298	156	96	-
Haiti	966	54	29	616	217	4	46	-
Trinidad and Tobago	671	26	38	401	154	13	39	-
Poland	521	68	21	223	163	18	28	-
Russia	512	42	29	324	88	16	13	-
Ecuador	468	64	90	72	209	5	27	1
Cuba	395	115	80	53	109	14	22	2
Mexico	377	47	80	110	95	27	1 <i>7</i>	1
Germany	336	99	28	49	108	16	36	-
Greece	335	17	13	62	208	20	15	-
Korea	325	29	13	13	226	11	32	1
India	322	34	11	19	174	23	61	-
Colombia	321	37	16	25	218	7	18	-
Barbados	281	13	23	202	34	3	6	-
Philippines	273	48	10	19	140	18	38	-
Bangladesh	268	4	52	56	144	-	12	-
Ireland	245	28	53	25	86	14	39	-
Romania	232	27	8	88	91	6	11	1
Panama	220	13	16	152	26	5	8	-
Belarus	219	6	1	180	17	12	3	-
Other or Not Stated	5,867	948	886	1,646	1,545	278	469	95

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

Table M6. Deaths by Birthplace\* and Age Group, New York City, 2018

					Age	Group (Ye	ars)			
Birthplace	Total	< 15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	55,081	640	410	1,062	1,614	3,617	7,322	10,152	12,575	17,689
United States	32,791	609	299	740	989	2,233	4,599	6,190	7,212	9,920
United States (excluding Puerto Rico)	28,822	608	299	721	948	2,101	4,233	5,351	5,949	8,612
Puerto Rico	3,969	1	-	19	41	132	366	839	1,263	1,308
China	2,376	-	11	25	36	108	201	338	579	1,078
Dominican Republic	2,189	3	17	46	62	167	299	435	559	601
Jamaica	1,412	4	4	18	39	85	200	283	379	400
Ukraine	1,100	2	1	9	12	26	65	116	267	602
Guyana	1,059	2	4	11	26	90	148	229	282	267
Italy	1,000	-	-	-	4	13	52	119	250	562
Haiti	966	-	7	4	23	44	135	202	252	299
Trinidad and Tobago	671	1	-	9	16	49	106	162	190	138
Poland	521	-	2	2	14	26	65	70	61	281
Russia	512	-	1	7	7	19	34	69	142	233
Ecuador	468	2	2	18	24	28	54	89	116	135
Cuba	395	-	-	-	1	2	39	48	99	206
Mexico	377	-	9	40	95	89	53	33	31	27
Germany	336	-	-	2	1	8	8	47	61	209
Greece	335	-	-	1	3	4	20	57	98	152
Korea	325	-	-	1	12	18	39	59	93	103
India	322	-	2	12	14	27	49	67	79	72
Colombia	321	-	1	2	12	16	30	44	89	127
Barbados	281	-	-	-	4	7	35	60	82	93
Philippines	273	1	2	2	11	15	35	66	93	48
Bangladesh	268	-	5	7	13	37	60	80	51	15
Ireland	245	-	-	1	5	6	13	29	72	119
Romania	232	-	-	-	1	2	18	34	47	130
Panama	220	1	-	2	1	8	33	55	54	66
Belarus	219	-	-	-	2	6	15	1 <i>7</i>	47	132
Other or Not Stated	5,867	15	43	103	187	484	917	1,154	1,290	1,674

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

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2018

		Al		Ma	le	Fen	nale
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	17,743	32.2	8,640	31.5	9,103	32.9
2	Malignant Neoplasms	13,037	23.7	6,391	23.3	6,646	24.0
3	Influenza and Pneumonia	2,004	3.6	1,013	3.7	991	3.6
4	Diabetes Mellitus	1,963	3.6	1,033	3.8	930	3.4
5	Cerebrovascular Diseases	1,888	3.4	812	3.0	1,076	3.9
6	Chronic Lower Respiratory Diseases	1,781	3.2	787	2.9	994	3.6
7	Use of or Poisoning by Psychoactive Substance	1,500	2.7	1,136	4.1	364	1.3
8	Essential Hypertension and Hypertensive Renal Disease	1,272	2.3	539	2.0	733	2.6
9	Alzheimer's Disease	1,195	2.2	354	1.3	841	3.0
10	Accidents Except Poisoning by Psychoactive Substance	1,040	1.9	678	2.5	362	1.3
	All Other Causes	11,658	21.2	6,009	21.9	5,649	20.4
	Total	55,081	100.0	27,392	100.0	27,689	100.0
Rank	< 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	98	22.0	51	19.1	47	26.3
2	Short Gestation and Low Birthweight	73	16.4	42	15.7	31	17.3
3	External Causes	57	12.8	38	14.2	19	10.6
4	Cardiovascular Disorders Originating in the Perinatal Period	53	11.9	32	12.0	21	11.7
5	Newborn Affected by Complications of Pregnancy	17	3.8	11	4.1	6	3.4
6	Bacterial Sepsis of Newborn	12	2.7	6	2.2	6	3.4
7	Newborn Affected by Complications of Placenta	10	2.2	7	2.6	3	1.7
8	Diseases of Heart	8	1.8	5	1.9	3	1.7
9	Influenza and Pneumonia	7	1.6	7	2.6	0	0.0
10	Respiratory Distress of Newborn	6	1.3	2	0.7	4	2.2
	All Other Causes	105	23.5	66	24.7	39	21.8
	Total	446	100.0	267	100.0	179	100.0
Rank	1 - 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	48	24.7	30	30.6	18	18.8
2	Congenital Malformations, Deformations	29	14.9	10	10.2	19	19.8
3	Accidents Except Poisoning by Psychoactive Substance	14	7.2	7	7.1	7	7.3
4	Diseases of Heart	10	5.2	5	5.1	5	5.2
5	Influenza and Pneumonia	9	4.6	4	4.1	5	5.2
5	Chronic Lower Respiratory Diseases	9	4.6	4	4.1	5	5.2
	All Other Causes	75	38.7	38	38.8	37	38.5
	Total	194	100.0	98	100.0	96	100.0
Rank	15 - 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	67	16.3	47	16.4	20	16.1
2	Assault (Homicide) Intentional Self-harm (Suicide)	65					
3			15.9	58	20.3	7	
		59	14.4	41	14.3	18	5.6 14.5
4	Malignant Neoplasms	59 48	14.4 11.7	41 26	14.3 9.1	18 22	14.5 17.7
5	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance	59 48 36	14.4 11.7 8.8	41 26 25	14.3 9.1 8.7	18 22 11	14.5 17.7 8.9
5 6	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart	59 48 36 15	14.4 11. <i>7</i> 8.8 3. <i>7</i>	41 26 25 10	14.3 9.1 8.7 3.5	18 22 11 5	14.5 17.7 8.9 4.0
5 6 7	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations	59 48 36 15	14.4 11.7 8.8 3.7 3.2	41 26 25 10	14.3 9.1 8.7 3.5 3.5	18 22 11 5 3	14.5 17.7 8.9 4.0 2.4
5 6 7 8	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases	59 48 36 15 13	14.4 11.7 8.8 3.7 3.2 2.2	41 26 25 10 10	14.3 9.1 8.7 3.5 3.5	18 22 11 5 3	14.5 17.7 8.9 4.0 2.4 4.0
5 6 7 8 9	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia	59 48 36 15 13 9	14.4 11.7 8.8 3.7 3.2 2.2 1.7	41 26 25 10 10 4 5	14.3 9.1 8.7 3.5 3.5 1.4	18 22 11 5 3 5	14.5 17.7 8.9 4.0 2.4 4.0
5 6 7 8	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus	59 48 36 15 13 9 7	14.4 11.7 8.8 3.7 3.2 2.2 1.7	41 26 25 10 10 4 5	14.3 9.1 8.7 3.5 3.5 1.4 1.7	18 22 11 5 3 5 2	14.5 17.7 8.9 4.0 2.4 4.0 1.6
5 6 7 8 9	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes	59 48 36 15 13 9 7 6 85	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7	41 26 25 10 10 4 5 4	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6	18 22 11 5 3 5 2 2	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4
5 6 7 8 9 10	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total	59 48 36 15 13 9 7 6 85	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0	41 26 25 10 10 4 5 4 56 286	14.3 9.1 8.7 3.5 1.4 1.7 1.4 19.6 100.0	18 22 11 5 3 5 2 2 2 29 124	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0
5 6 7 8 9 10	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS	59 48 36 15 13 9 7 6 85 410	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent	41 26 25 10 10 4 5 4 56 286	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent	18 22 111 5 3 5 2 2 2 2 124 Deaths	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0
5 6 7 8 9 10 Rank	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS Use of or Poisoning by Psychoactive Substance	59 48 36 15 13 9 7 6 85 410 Deaths	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent	41 26 25 10 10 4 5 4 56 286 Deaths	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6	18 22 11 5 3 5 2 2 2 2 9 124 Deaths	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0 Percent
5 6 7 8 9 10 Rank	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS Use of or Poisoning by Psychoactive Substance Malignant Neoplasms	59 48 36 15 13 9 7 6 85 410 Deaths 271 121	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4	41 26 25 10 10 4 5 4 56 286 Deaths	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3	18 22 11 5 3 5 2 2 2 2 2 9 124 Deaths 57 59	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0 Percent 18.2
5 6 7 8 9 10 Rank 1 2 3	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide)	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102	14.4 11.7 8.8 3.7 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4 9.6	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5	18 22 11 5 3 5 2 2 2 2 2 124 Deaths 57 59 31	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0 Percent 18.2 9.9
5 6 7 8 9 10 Rank 1 2 3 4	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102 96	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4 9.6 9.0	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4	18 22 11 5 3 5 2 2 2 2 2 124 Deaths 57 59 31 18	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0 Percent 18.2 9.9
5 6 7 8 9 10 Rank 1 2 3 4 5	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS  Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance Assault (Homicide)	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102 96 91	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4 9.6 9.0 8.6	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78 82	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4 10.9	18 22 111 5 33 5 2 2 2 29 124 Deaths 57 59 31 18 9	14.: 17.: 8.9 4.( 2 4.( 1.0 23 100.0 Percent 18.: 9.9 5.8
5 6 7 8 9 10 Rank 1 2 3 4 5 6	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance Assault (Homicide) Diseases of Heart	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102 96 91 61	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4 9.6 9.0 8.6 5.7	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78 82 41	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4 10.9 5.5	18 22 11 5 3 5 2 2 2 2 12 4 Deaths 57 59 31 18 9 20	14 17 8.9 4.1 2 4.1 1.1 23 100.0 Percent 18 18.4 9.9 5.6 6
5 6 7 8 9 10 Rank 1 2 3 4 5 6 7	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS  Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance Assault (Homicide) Diseases of Heart Mental Disorders Due to Use of Alcohol	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102 96 91 61 24	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4 9.6 9.0 8.6 5.7 2.3	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78 82 41	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4 10.9 5.5 2.1	18 22 11 5 3 5 2 2 2 2 2 9 124 Deaths 57 59 31 18 9 20 8	14 17 8.9 4.0 2 4.0 1.0 1.0 1.0 Percent 18 18.0 9.0 5.0 6.0 2.0
5 6 7 8 9 10 Rank 1 2 3 4 5 6 7 8	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS  Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance Assault (Homicide) Diseases of Heart Mental Disorders Due to Use of Alcohol Chronic Lower Respiratory Diseases	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102 96 91 61 24 21	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 9.6 9.0 8.6 5.7 2.3 2.0	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78 82 41 16	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4 10.9 5.5 2.1	18 22 11 5 33 5 2 2 2 29 124 Deaths 57 59 31 18 9 20 8 11	14.: 17.: 8.9 4.0 2 4.0 1.0 1.0 Percent 18.: 18.6 9.9 5.8 2.9 6 2.0 3.:
5 6 7 8 9 10 Rank 1 2 3 4 5 6 7 8 8	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance Assault (Homicide) Diseases of Heart Mental Disorders Due to Use of Alcohol Chronic Lower Respiratory Diseases Human Immunodeficiency Virus (HIV) Disease	59 48 36 15 13 9 7 6 85 410  Deaths 271 121 102 96 91 61 24 21	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 25.5 11.4 9.6 9.0 8.6 5.7 2.3 2.0 2.0	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78 82 41 16 10 10	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4 10.9 5.5 2.1 1.3	18 22 11 5 33 5 2 2 2 29 124 Deaths 57 59 31 18 9 20 8 11 6	14.: 17.: 8.9 4.0 2.e 4.1. 1.0 1.0 23.e 100.0 Percent 18.2 2.9 5.8 2.9 6.e 2.0 3.: 1.9
5 6 7 8 9 10 Rank 1 2 3 4 5 6 7 8	Malignant Neoplasms Accidents Except Poisoning by Psychoactive Substance Diseases of Heart Congenital Malformations, Deformations Chronic Lower Respiratory Diseases Influenza and Pneumonia Diabetes Mellitus All Other Causes Total  25 - 34 YEARS  Use of or Poisoning by Psychoactive Substance Malignant Neoplasms Intentional Self-harm (Suicide) Accidents Except Poisoning by Psychoactive Substance Assault (Homicide) Diseases of Heart Mental Disorders Due to Use of Alcohol Chronic Lower Respiratory Diseases	59 48 36 15 13 9 7 6 85 410 Deaths 271 121 102 96 91 61 24 21	14.4 11.7 8.8 3.7 3.2 2.2 1.7 1.5 20.7 100.0 Percent 9.6 9.0 8.6 5.7 2.3 2.0	41 26 25 10 10 4 5 4 56 286 Deaths 214 62 71 78 82 41 16	14.3 9.1 8.7 3.5 3.5 1.4 1.7 1.4 19.6 100.0 Percent 28.6 8.3 9.5 10.4 10.9 5.5 2.1	18 22 11 5 33 5 2 2 2 29 124 Deaths 57 59 31 18 9 20 8 11	14.5 17.7 8.9 4.0 2.4 4.0 1.6 23.4 100.0 Percent 18.2 9.9

Continued on next page.

Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2018 (Continued)

р '	35 - 44 YEARS	A		Ma		Fem	
Rank		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	335	20.8	149	14.5	186	31
2	Use of or Poisoning by Psychoactive Substance	254	15.7	204	19.9	50	10
3	Diseases of Heart	197	12.2 5.3	136	13.2	61	10
4 5	Intentional Self-harm (Suicide)	86	5.3	65 71	6.3	21 13	3
6	Accidents Except Poisoning by Psychoactive Substance Diabetes Mellitus	64	4.0	48	4.7	16	2
6	Chronic Liver Disease and Cirrhosis	64	4.0	46	4.5	18	3
8	Assault (Homicide)	48	3.0	41	4.0	7	1
8	Mental Disorder Due to Use of Alcohol	48	3.0	37	3.6	11	1
10	Human Immunodeficiency Virus (HIV) Disease	33	2.0	19	1.9	14	2
10	All Other Causes	401	24.8	211	20.5	190	32
	Total	1,614	100.0	1,027	100.0	587	100
DI.		Deaths				Deaths	
Rank	45 - 54 YEARS		Percent	Deaths	Percent		Percent
1	Malignant Neoplasms	979	27.1	444	20.3	535	37
2	Diseases of Heart	713	19.7	488	22.3	225	15
3	Use of or Poisoning by Psychoactive Substance	416	11.5	304	13.9	112	7
4	Diabetes Mellitus	167	4.6	100	4.6	67	4
5	Chronic Liver Disease and Cirrhosis	106	2.9	81	3.7	25	1
6	Cerebrovascular Diseases	103	2.8	60	2.7	43	3
7	Accidents Except Poisoning by Psychoactive Substance	94	2.6	75	3.4	19	
8	Intentional Self-harm (Suicide)	89	2.5	66	3.0	23	1
9	Human Immunodeficiency Virus (HIV) Disease	83	2.3	52	2.4	31	:
10	Influenza and Pneumonia	73	2.0	45	2.1	28	2
	All Other Causes	794	22.0	471	21.5	323	2.
	Total	3,617	100.0	2,186	100.0	1,431	10
Rank	55 - 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	2,449	33.4	1,274	28.5	1,175	4
2	Diseases of Heart	1,902	26.0	1,293	28.9	609	2
3	Use of or Poisoning by Psychoactive Substance	367	5.0	271	6.1	96	
4	Diabetes Mellitus	294	4.0	180	4.0	114	
5	Chronic Lower Respiratory Diseases	204	2.8	94	2.1	110	
6	Cerebrovascular Diseases	180	2.5	110	2.5	70	
7	Chronic Liver Disease and Cirrhosis	179	2.4	140	3.1	39	
8	Influenza and Pneumonia	163	2.2	101	2.3	62	
9	Accidents Except Poisoning by Psychoactive Substance	142	1.9	101	2.3	41	
10	Intentional Self-harm (Suicide)	130	1.8	101	2.3	29	
	All Other Causes	1,312	1 <i>7</i> .9	808	18.1	504	1
	Total	7,322	100.0	4,473	100.0	2,849	100
Rank	65 - 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,465	34.1	1,794	31.4	1,671	3
2	Diseases of Heart	2,968	29.2	1,778	31.1	1,190	2
3	Diseases of Fleat	460	4.5	255	4.5	205	
4	Chronic Lower Respiratory Diseases	362	3.6	196	3.4	166	
5	Influenza and Pneumonia	349	3.4	200	3.5	149	
6	Cerebrovascular Diseases	326	3.4	172	3.0	154	
7		219	2.2	119	2.1	100	
8	Essential Hypertension and Hypertensive Renal Disease Accidents Except Poisoning by Psychoactive Substance		1.5	101		52	
9	Chronic Liver Disease and Cirrhosis	153 132	1.3	92	1.8	40	
10	Use of or Poisoning by Psychoactive Substance	106	1.0	80	1.6 1.4	26	
10	0 , ,						
	All Other Causes	1,612 10,152	15.9 100.0	921 5,708	16.1 100.0	691 4,444	10
n 1	Total		_		_		10
Rank	75 - 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percen
1	Diseases of Heart	4,409	35.1	2,255	36.4	2,154	3
2	Malignant Neoplasms	3,255	25.9	1,593	25.7	1,662	2
3	Cerebrovascular Disease	544	4.3	232	3.7	312	
4	Diabetes Mellitus	507	4.0	264	4.3	243	
5	Influenza and Pneumonia	505	4.0	256	4.1	249	
6	Chronic Lower Respiratory Diseases	494	3.9	224	3.6	270	
7	Essential Hypertension and Hypertensive Renal Disease	316	2.5	132	2.1	184	
8	Alzheimer's Disease	246	2.0	86	1.4	160	
9	Parkinson's Disease	175	1.4	114	1.8	61	
10	Accidents Except Poisoning by Psychoactive Substance	167	1.3	94	1.5	73	
	All Other Causes	119	1.0	52	0.8	67	
	Total	12,575	100.0	6,203	100.0	6,372	10
		Deaths	Percent	Deaths	Percent	Deaths	Percen
Rank	≥85 YEARS	Deatis		2,629	41.1	4,831	
Rank			42.21				-
	Diseases of Heart	7,460	42.2 13.2		15.9	1.318	
1 2	Diseases of Heart Malignant Neoplasms	7,460 2,335	13.2	1,017	15.9 3.7	1,318 645	
1 2 3	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia	7,460 2,335 881	13.2 5.0	1,017 236	3.7	645	
1 2 3 4	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease	7,460 2,335 881 852	13.2 5.0 4.8	1,017 236 373	3.7 5.8	645 479	
1 2 3 4 5	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease Cerebrovascular Diseases	7,460 2,335 881 852 687	13.2 5.0 4.8 3.9	1,017 236 373 208	3.7 5.8 3.3	645 479 479	
1 2 3 4 5 6	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease Cerebrovascular Diseases Chronic Lower Respiratory Diseases	7,460 2,335 881 852 687 597	13.2 5.0 4.8 3.9 3.4	1,017 236 373 208 208	3.7 5.8 3.3 3.3	645 479 479 389	
2 3 4 5 6 7	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease Cerebrovascular Diseases Chronic Lower Respiratory Diseases Essential Hypertension and Hypertensive Renal Disease	7,460 2,335 881 852 687 597 543	13.2 5.0 4.8 3.9 3.4 3.1	1,017 236 373 208 208 172	3.7 5.8 3.3 3.3 2.7	645 479 479 389 371	
1 2 3 4 5 6 7 8	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease Cerebrovascular Diseases Chronic Lower Respiratory Diseases Essential Hypertension and Hypertensive Renal Disease Diabetes Mellitus	7,460 2,335 881 852 687 597 543 446	13.2 5.0 4.8 3.9 3.4 3.1 2.5	1,017 236 373 208 208 172 170	3.7 5.8 3.3 3.3 2.7 2.7	645 479 479 389 371 276	
1 2 3 4 5 6 7 8 9	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease Cerebrovascular Diseases Chronic Lower Respiratory Diseases Essential Hypertension and Hypertensive Renal Disease Diabetes Mellitus Accidents Except Poisoning by Psychoactive Substance	7,460 2,335 881 852 687 597 543 446	13.2 5.0 4.8 3.9 3.4 3.1 2.5	1,017 236 373 208 208 172 170	3.7 5.8 3.3 3.3 2.7 2.7	645 479 479 389 371 276	
1 2 3 4 5 6 7 8	Diseases of Heart Malignant Neoplasms Influenza and Pneumonia Alzheimer's Disease Cerebrovascular Diseases Chronic Lower Respiratory Diseases Essential Hypertension and Hypertensive Renal Disease Diabetes Mellitus	7,460 2,335 881 852 687 597 543 446	13.2 5.0 4.8 3.9 3.4 3.1 2.5	1,017 236 373 208 208 172 170	3.7 5.8 3.3 3.3 2.7 2.7	645 479 479 389 371 276	2

Table M8. Leading Causes of Death by Racial/Ethnic Group\* and Sex, New York City, 2018

Rank	Puerto Rican	Al	<u> </u>	Ma	le	Fen	nale
Kalik	i deito kican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,431	29.5	693	29.1	738	29.9
2	Malignant Neoplasms	985	20.3	533	22.4	452	18.3
3	Influenza and Pneumonia	219	4.5	93	3.9	126	5.1
4	Diabetes Mellitus	217	4.5	95	4.0	122	4.9
5	Chronic Lower Respiratory Diseases	207	4.3	83	3.5	124	5.0
6	Use of or Poisoning by Psychoactive Substance	190	3.9	142	6.0	48	1.9
7	Alzheimer's Disease	181	3.7	41	1.7	140	5.7
8	Cerebrovascular Diseases	170	3.5	56	2.4	114	4.6
9	Essential Hypertension and Hypertensive Renal Disease	101	2.1	43	1.8	58	2.3
10	Chronic Liver Disease and Cirrhosis	80	1.6	60	2.5	20	0.8
	All Other Causes	1,069	22.0	541	22.7	528	21.4
	Total	4,850	100.0	2,380	100.0	2,470	100.0
Donle		1,000		_,,,,,			
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,542	25.3	787	24.3	755	26.5
2	Malignant Neoplasms	1,402	23.0	697	21.5	705	24.7
3	Use of or Poisoning by Psychoactive Substance	309	5.1	250	7.7	59	2.1
4	Diabetes Mellitus	255	4.2	141	4.4	114	4.0
5	Cerebrovascular Diseases	245	4.0	115	3.5	130	4.6
6	Influenza and Pneumonia	199	3.3	100	3.1	99	3.5
7	Accidents Except Poisoning by Psychoactive Substance	196	3.2	145	4.5	51	1.8
8	Essential Hypertension and Hypertensive Renal Disease	161	2.6	67	2.1	94	3.3
9	Alzheimer's Disease	154	2.5	51	1.6	103	3.6
10	Chronic Lower Respiratory Diseases	150	2.5	63	1.9	87	3.1
	All Other Causes	1,478	24.3	824	25.4	654	22.9
	Total	6,091	100.0	3,240	100.0	2,851	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,310	28.1	700	27.8	610	28.6
2	Malignant Neoplasms	1,301	27.9	711	28.2	590	27.6
3	Cerebrovascular Diseases	216	4.6	102	4.0	114	5.3
4	Influenza and Pneumonia	196	4.2	117	4.6	79	3.7
5	Diabetes Mellitus	184	4.0	99	3.9	85	4.0
6	Essential Hypertension and Hypertensive Renal Disease	123	2.6	57	2.3	66	3.1
7	Chronic Lower Respiratory Diseases	118	2.5	78	3.1	40	1.9
8	Accidents Except Poisoning by Psychoactive Substance	117		84			
9		91	2.5 2.0	30	3.3	33 61	1.5
	Alzheimer's Disease				1.2		2.9
10	Intentional Self-harm (Suicide)	74	1.6	46	1.8	28	1.3
	All Other Causes	925	19.9	497	19.7	428	20.1
	Total	4,655	100.0	2,521	100.0	2,134	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,207	35.1	3,959	34.5	4,248	35.6
2	Malignant Neoplasms	5,783	24.7	2,833	24.7	2,950	24.7
3	Chronic Lower Respiratory Diseases	841	3.6	364	3.2	477	4.0
4	Influenza and Pneumonia	827	3.5	436	3.8	391	3.3
5	Cerebrovascular Diseases	699	3.0	296	2.6	403	3.4
6	Use of or Poisoning by Psychoactive Substance	533	2.3	413	3.6	120	1.0
7	Alzheimer's Disease	530	2.3	161	1.4	369	3.1
8	Diabetes Mellitus	487	2.1	307	2.7	180	1.5
9	Essential Hypertension and Hypertensive Renal Disease	430	1.8	177	1.5	253	2.1
10	Accidents Except Poisoning by Psychoactive Substance	421	1.8	244	2.1	177	1.5
10	All Other Causes	4,654	19.9	2,300	20.0	2,354	19.7
	Total	23,412	100.0	11,490	100.0	11,922	100.0
		23,412	100.0	11,490	100.0	11,922	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,802	32.5	2,250	32.2	2,552	32.7
2	Malignant Neoplasms	3,343	22.6	1,485	21.3	1,858	23.8
3	Diabetes Mellitus	764	5.2	357	5.1	407	5.2
4	Influenza and Pneumonia	516	3.5	240	3.4	276	3.5
4	Cerebrovascular Diseases	516	3.5	217	3.1	299	3.8
6	Chronic Lower Respiratory Diseases	430	2.9	173	2.5	257	3.3
7	Essential Hypertension and Hypertensive Renal Disease	420	2.8	173	2.5	244	3.1
8	Use of or Poisoning by Psychoactive Substance	394	2.7	271	3.9	123	1.6
9	0 , ,		1.5				
9	Alzheimer's Disease	225		65 129	0.9	160	2.1
10							
10	Accidents Except Poisoning by Psychoactive Substance	208	1.4		1.8	79	1.0
10	Accidents Except Poisoning by Psychoactive Substance All Other Causes Total	3,167 14,785	21.4 100.0	1,625 6,988	23.3	1,542 7,797	19.8 100.0

 $<sup>\</sup>ensuremath{^*}$  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, 2018

		Al	I	Ма	le	Fer	nale
Rank	Cause of Death	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,982	27.2	1,987	21.9	1,995	35.8
	Trachea, bronchus, and lung	641	4.4	361	4.0	280	5.0
	Breast	455	3.1	5	0.1	450	8.1
	Colon, rectum, and anus	391	2.7	218	2.4	173	3.1
	Pancreas	275	1.9	160	1.8	115	2.1
	Liver and intrahepatic bile ducts	238	1.6	174	1.9	64	1.1
2	Diseases of Heart	2,906	19.8	1,978	21.8	928	16.6
3	Use of or Poisoning by Psychoactive Substance	1,375	9.4	1,040	11.4	335	6.0
4	Diabetes Mellitus	550	3.8	344	3.8	206	3.7
5	Accidents Except Poisoning by Psychoactive Substance	474	3.2	361	4.0	113	2.0
6	Intentional Self-harm (Suicide)	471	3.2	346	3.8	125	2.2
7	Chronic Liver Disease and Cirrhosis	355	2.4	273	3.0	82	1.5
8	Cerebrovascular Diseases	331	2.3	200	2.2	131	2.3
9	Chronic Lower Respiratory Diseases	328	2.2	159	1.7	169	3.0
10	Influenza and Pneumonia	298	2.0	184	2.0	114	2.0
	All Other Causes	3,595	24.5	2,214	24.4	1,381	24.8
	Total	14,665	100.0	9,086	100.0	5,579	100.0

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

Table M10. Leading Causes of Premature Death (Age < 65 Years) by Racial/Ethnic Group\* and Sex, New York City, 2018

Rank         Puerto Rican         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         290         23,9         170         22           2         Diseases of Heart         232         19,1         152         19,9           3         Use of or Poisoning by Psychoactive Substance         168         13,8         123         16           4         Diabetes Mellitus         55         4,5         28         3         2           5         Chronic Lower Respiratory Diseases         48         4,0         22         2           6         Chronic Liver Disease and Cirrhosis         39         3,2         27         3           7         Influenza and Preumonia         34         2.8         14         1.           8         Accidents Except Poisoning by Psychoactive Substance         32         2.6         26         3           9         Human Immunodefficiency Virus (HIV) Disease         30         2.5         17         7         8         1.           10         Cerebrovascular Diseases         215         1.7         8         1.         1.           11         Malignant Neoplasms         565         2.4	Deaths .1 120 .8 80	Percent 26.9
1         Malignant Neoplasms         290         23.9         170         22.           2         Diseases of Heart         232         19.1         152         19.9           3         Use of or Poisoning by Psychoactive Substance         168         13.8         123         16.           4         Diabetes Mellitus         55         4.5         28         3.           5         Chronic Liver Disease and Cirrhosis         39         3.2         27         3.           6         Chronic Liver Disease and Cirrhosis         39         3.2         27         3.           7         Influenza and Pneumonia         34         2.8         14         1.           8         Accidents Except Poisoning by Psychoactive Substance         30         2.5         19         2.           9         Human Immunodeficiency Virus (HIV) Disease         30         2.5         19         2.           10         Cerebrovascular Diseases         265         2.18         179         23.           10         Cerebrovascular Diseases         265         2.18         179         23.           10         Malignant Neoplasms         585         24.1         20         18         100	.8 80	26.9
3   Use of or Poisoning by Psychoactive Substance		
4         Diabetes Mellitus         55         4.5         28         3.           5         Chronic Lover Respiratory Diseases         48         4.0         22         2.           6         Chronic Liver Disease and Cirrhosis         39         3.2         27         3.           7         Influenza and Pneumonia         34         2.8         1.4         1.           8         Accidents Except Poisoning by Psychoactive Substance         32         2.6         26         3.           9         Human Immunodeficiency Virus (HIV) Disease         30         2.5         19         2.           10         Cerebrovascular Diseases         21         1.7         8         1.           All Other Causes         265         21.8         1179         23           Total         1.214         10.0         768         100.           Rank         Other Hispanic         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         585         24.1         28         11         1.7         8         1.0           2         Diseases of Heart         375         15.5         25         16         1.7         2.1 <td< td=""><td></td><td>17.9</td></td<>		17.9
5         Chronic Lower Respiratory Diseases and Cirrhosis         48         4.0         22         2.2         3.3           7         Influenza and Pneumonia         34         2.8         14         1.           8         Accidents Except Poisoning by Psychoactive Substance         32         2.6         26         3.           9         Human Immundedficiency Virus (HIV) Disease         30         2.5         19         2.           10         Cerebrovascular Diseases         21         1.7         8         1.           All Other Causes         265         21.8         179         2.           Total         1,214         100.0         768         100.           Rank         Other Hispanic         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         585         24.1         281         17.           2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         139         5.7         116         7.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.	.0 45	10.1
6         Chronic Liver Disease and Cirrhosis         39         3.2         27         3.3           7         Influenza and Pneumonia         34         2.8         14         1.           8         Accidents Except Poisoning by Psychoactive Substance         32         2.6         26         3.           9         Human Immunodeficiency Virus (HIV) Disease         30         2.5         19         2.           10         Cerebrovascular Diseases         21         1.7         8         1.           All Other Causes         265         21.8         179         23.           Total         1.214         100.0         768         100.           Rank         Other Hispanic         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         585         24.1         281         1.7           2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         139         5.7         116         7.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes	.6 27	6.1
8         Accidents Except Poisoning by Psychoactive Substance         32         2.6         26         3.3           9         Human Immunodeficiency Virus (HIV) Disease         30         2.5         119         2.           10         Cerebrovascular Diseases         21         1.7         8         1.           All Other Causes         265         21.8         1.79         23.           Rank         Other Hispanic         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         585         24.1         281         17.           2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.         16         7.           5         Chronic Liver Disease and Cirrhosis         87         3.6         59         3.         16         7.           6         Cerebrovascular Diseases         68	.9 26	5.8
8         Accidents Except Poisoning by Psychoactive Substance         30         2.6         26         3.           9         Human Immunodeficiency Virus (HIV) Disease         30         2.5         19         2.           10         Cerebrovascular Diseases         21         1.7         8         1.           All Other Causes         265         21.8         179         23.           Total         Other Hispanic         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         585         24.1         281         17.           2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         39         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         59         3.           6         Creebrovascular Diseases         68         2.2         6         49         3.      <	.5 12	2.7
Human Immunodeficiency Virus (HIV) Disease   30   2.5   19   2.		4.5
10	.4 6	1.3
All Other Causes   265   21.8   179   23.     Total	.5 11	2.5
Total	.0 13	2.9
Rank         Other Hispanic         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         585         24.1         281         17.           2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         1116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.         100         1,575         100. <td>.3 86</td> <td>19.3</td>	.3 86	19.3
1         Malignant Neoplasms         585         24.1         281         17.           2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         68         2.8         46         2.2         4           7         Cerebrovascular Diseases         68         2.8         46         2.2         3.           8         Intentional Self-harm (Suicide)         60         2.5         55         3.           9         Assault (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         474         40.7         251	.0 446	100.0
2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.         4.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         100.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent         Deaths         Percent <t< td=""><td>Deaths</td><td>Percent</td></t<>	Deaths	Percent
2         Diseases of Heart         375         15.5         258         16.           3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.         4.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         100.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent         Deaths         Percent <t< td=""><td>.8 304</td><td>35.8</td></t<>	.8 304	35.8
3         Use of or Poisoning by Psychoactive Substance         296         12.2         242         15.           4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.           8         Intentional Self-harm (Suicide)         62         2.6         49         3.           9         Assault (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         100.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart	.4 117	13.8
4         Accidents Except Poisoning by Psychoactive Substance         139         5.7         116         7.           5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         100.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         44 <td></td> <td>6.4</td>		6.4
5         Diabetes Mellitus         87         3.6         59         3.           5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assalut (Homicide)         60         2.5         57         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         10.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         31		2.7
5         Chronic Liver Disease and Cirrhosis         87         3.6         72         4.           7         Cerebrovascular Diseases         68         2.8         46         2.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         62         2.6         49         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         Asian and Pacific Islander         Deaths         Percent         Deaths         2.1         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0		3.3
7         Cerebrovascular Diseases         68         2.8         46         2.           8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         62         2.6         49         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         100.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35 <td< td=""><td></td><td>1.8</td></td<>		1.8
8         Intentional Self-harm (Suicide)         67         2.8         52         3.           9         Assault (Homicide)         62         2.6         49         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Con		2.6
9         Assault (Homicide)         62         2.6         49         3.           10         Mental Disorders Due to Use of Alcohol         60         2.5         57         3.           All Other Causes         597         24.6         343         21.           Total         2,423         100.0         1,575         100.           Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.         3.         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.         7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.         3.         2.         7 <td></td> <td></td>		
Mental Disorders Due to Use of Alcohol   60   2.5   57   3.		1.5
All Other Causes   597   24.6   343   21.     Total   2,423   100.0   1,575   100.     Rank   Asian and Pacific Islander   Deaths   Percent   Deaths   Percent     1		0.4
Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           Total         1,166         100.0         731         100           Rank		
Rank         Asian and Pacific Islander         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Tot		
1         Malignant Neoplasms         474         40.7         251         34.           2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21           Total         1,166         100.0         731         100           Rank         Non-Hispanic White <td< td=""><td>Deaths</td><td>Percent</td></td<>	Deaths	Percent
2         Diseases of Heart         189         16.2         148         20.           3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms </td <td></td> <td></td>		
3         Intentional Self-harm (Suicide)         64         5.5         39         5.           4         Accidents Except Poisoning by Psychoactive Substance         41         3.5         34         4.           5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart		9.4
4       Accidents Except Poisoning by Psychoactive Substance       41       3.5       34       4.         5       Diabetes Mellitus       38       3.3       24       3.         6       Cerebrovascular Diseases       35       3.0       20       2.         7       Use of or Poisoning by Psychoactive Substance       31       2.7       23       3.         8       Certain Conditions Originating in the Perinatal Period       23       2.0       10       1.         9       Influenza and Pneumonia       22       1.9       14       1.         10       Mental Disorders Due to Use of Alcohol       18       1.5       12       1.         All Other Causes       231       19.8       156       21.         Total       1,166       100.0       731       100.         Rank       Non-Hispanic White       Deaths       Percent       Deaths       Percent         1       Malignant Neoplasms       1,347       31.2       700       25.         2       Diseases of Heart       804       18.6       596       21.         3       Use of or Poisoning by Psychoactive Substance       496       11.5       383       13.         4 <td></td> <td>5.7</td>		5.7
5         Diabetes Mellitus         38         3.3         24         3.           6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide		1.6
6         Cerebrovascular Diseases         35         3.0         20         2.           7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver		3.2
7         Use of or Poisoning by Psychoactive Substance         31         2.7         23         3.           8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         A		3.4
8         Certain Conditions Originating in the Perinatal Period         23         2.0         10         1.           9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7		
9         Influenza and Pneumonia         22         1.9         14         1.           10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Dis		3.0
10         Mental Disorders Due to Use of Alcohol         18         1.5         12         1.           All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders D		
All Other Causes         231         19.8         156         21.           Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders Due to Use of Alcohol         77         1.8         55         2.		1.4
Total         1,166         100.0         731         100.           Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders Due to Use of Alcohol         77         1.8         55         2.		
Rank         Non-Hispanic White         Deaths         Percent         Deaths         Percent           1         Malignant Neoplasms         1,347         31.2         700         25.           2         Diseases of Heart         804         18.6         596         21.           3         Use of or Poisoning by Psychoactive Substance         496         11.5         383         13.           4         Intentional Self-harm (Suicide)         222         5.1         169         6.           5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders Due to Use of Alcohol         77         1.8         55         2.		
1     Malignant Neoplasms     1,347     31.2     700     25.       2     Diseases of Heart     804     18.6     596     21.       3     Use of or Poisoning by Psychoactive Substance     496     11.5     383     13.       4     Intentional Self-harm (Suicide)     222     5.1     169     6.       5     Chronic Liver Disease and Cirrhosis     142     3.3     105     3.       6     Accidents Except Poisoning by Psychoactive Substance     133     3.1     91     3.       7     Diabetes Mellitus     100     2.3     81     2.       8     Chronic Lower Respiratory Diseases     82     1.9     44     1.       9     Mental Disorders Due to Use of Alcohol     77     1.8     55     2.	Deaths	Percent
2       Diseases of Heart       804       18.6       596       21.         3       Use of or Poisoning by Psychoactive Substance       496       11.5       383       13.         4       Intentional Self-harm (Suicide)       222       5.1       169       6.         5       Chronic Liver Disease and Cirrhosis       142       3.3       105       3.         6       Accidents Except Poisoning by Psychoactive Substance       133       3.1       91       3.         7       Diabetes Mellitus       100       2.3       81       2.         8       Chronic Lower Respiratory Diseases       82       1.9       44       1.         9       Mental Disorders Due to Use of Alcohol       77       1.8       55       2.		42.3
3       Use of or Poisoning by Psychoactive Substance       496       11.5       383       13.         4       Intentional Self-harm (Suicide)       222       5.1       169       6.         5       Chronic Liver Disease and Cirrhosis       142       3.3       105       3.         6       Accidents Except Poisoning by Psychoactive Substance       133       3.1       91       3.         7       Diabetes Mellitus       100       2.3       81       2.         8       Chronic Lower Respiratory Diseases       82       1.9       44       1.         9       Mental Disorders Due to Use of Alcohol       77       1.8       55       2.		
4       Intentional Self-harm (Suicide)       222       5.1       169       6.         5       Chronic Liver Disease and Cirrhosis       142       3.3       105       3.         6       Accidents Except Poisoning by Psychoactive Substance       133       3.1       91       3.         7       Diabetes Mellitus       100       2.3       81       2.         8       Chronic Lower Respiratory Diseases       82       1.9       44       1.         9       Mental Disorders Due to Use of Alcohol       77       1.8       55       2.		13.6
5         Chronic Liver Disease and Cirrhosis         142         3.3         105         3.           6         Accidents Except Poisoning by Psychoactive Substance         133         3.1         91         3.           7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders Due to Use of Alcohol         77         1.8         55         2.		7.4
6       Accidents Except Poisoning by Psychoactive Substance       133       3.1       91       3.         7       Diabetes Mellitus       100       2.3       81       2.         8       Chronic Lower Respiratory Diseases       82       1.9       44       1.         9       Mental Disorders Due to Use of Alcohol       77       1.8       55       2.		3.5
7         Diabetes Mellitus         100         2.3         81         2.           8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders Due to Use of Alcohol         77         1.8         55         2.		2.4
8         Chronic Lower Respiratory Diseases         82         1.9         44         1.           9         Mental Disorders Due to Use of Alcohol         77         1.8         55         2.		2.7
9 Mental Disorders Due to Use of Alcohol 77 1.8 55 2.		
10   Congenital Malformations, Deformations   65   1.5   37   1.		1.4
All Oil C		
All Other Causes 853 19.7 532 19.		
Total 4,321 100.0 2,793 100.		
Rank Non-Hispanic Black Deaths Percent Deaths Percent		Percent
1 Diseases of Heart 1,216 24.0 762 26.		
2 Malignant Neoplasms 1,196 23.6 534 18.		
3 Use of or Poisoning by Psychoactive Substance 347 6.8 235 8.		5.2
4 Diabetes Mellitus 251 4.9 141 4.		
5 Assault (Homicide) 164 3.2 145 5.		
6 Human Immunodeficiency Virus (HIV) Disease 139 2.7 93 3.		
	.0 80	
	.6 58	
9 Accidents Except Poisoning by Psychoactive Substance 119 2.3 84 2.		
10 Influenza and Pneumonia 115 2.3 70 2.		2.1
All Other Causes 1,256 24.8 708 24.		25.3
Total 5,074 100.0 2,905 100.	.0 2,169	100.0

<sup>\*</sup> 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 Ethnic Group\* and Sex, New York City, 2018

Total Particle   Tota		_								Ethnic	Ethnic Group*						-			Sex		
Course (Death)  No. Greek Adji, No. Greek Adji			Total		I	ispanic		Non-Hisp	anic Whi		Jon-Hisp	anic Blac		າ and Pac	ific Island		or vn	Male			Female	
Signal of Signal	Cause of Death	O V	Crude Rate	Age- Adj. Rate				0 =			0 =			_	4.	_	Š	Crude	Age- Adj. Rate	No.	Crude Rate	
the convergence of the convergen	All Causes†	55,081	9.9	5.6	10,941		1		┖				6	1	1	ľ				1.,		
cherny Vincestate 133 1 33 2 36 3 5 3 3 3 3 5 3 5 3 5 3 5 3 5 3 5 3	Natural Causes	51,454	612.6	515.0	9,975		1									ľ						
sss of strong-the-made anties   1,15   1,18	Human Immunodeficiency Virus (HIV) Disease	331	3.9	3.6	98															_		
range dysamenth and answer of special state of 1117 5 128 5 121 8 121 5 121 8	Malignant Neoplasms	13,037	155.2	133.8	2,387															_		
sss of frickeye, browthey, and anises.  1172 128 138 199 165 179 188 139 130 134 189 189 189 189 189 189 189 189 189 189	Malignant neoplasm of stomach	425	2.1	4.4	111															ш		
snot phenoreas, and lung finale   1,12   2,5   2,04   99   814   215   310   256   126   310   3	Malignant neoplasms of colon, rectum, and anus	1,175	14.0	12.0	208															_		
sns of trackeds bronchus, and lung finale 1322 313 9308 165 122 131 9308 165 124 125 131 9308 165 124 132 131 9308 165 124 132 132 131 9308 165 134 91 91 91 91 91 91 91 91 91 91 91 91 91	Malignant neoplasm of pancreas	1,075	12.8	10.9	198															╙		
sne of tracher leaves by the control of tracks and lung flemale) 1154 26.3 20.4 135 12.5 12.5 20.4 135 12.5 12.5 20.4 135 12.5 12.5 20.5 135 12.5 12.5 20.5 135 12.5 12.5 20.5 135 12.5 12.5 20.5 135 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.	Malignant neoplasms of trachea, bronchus, and lung (male)	1,272	31.8	30.8	198				ш											_		
non covary (tennale) 121 2.55 2.05 185 146 13.0 475 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0	Malignant neoplasms of trachea, bronchus, and lung (female)	1,154	26.3	20.4	158															Ľ	26.3	
sm of possible finale) 3.63 a 3.6 c 3.8 c 3.8 c 3.6 c 3.8 c 3.8 c 3.6 c 3.8 c	Malignant neoplasm of breast (female)	1,121	25.5	20.5	185												17			Ľ	25.5	
sm of possite (male)	Malignant neoplasm of cervix uteri (female)	121	2.8	2.3	35												-	_			2.8	
snn of prostate (male)	Malignant neoplasm of ovary (female)	363	8.3	6.7	29																89	
5 8         7 0         4 1         3 2         4 1         5 4         4 2         1 5         4 4         3 2         4 4         3 4         4 4         3 4         4 4         3 4         4 4         3 4         4 4         3 4         4 4         4 5         4 4         3 4         4 5         4 4         3 4         3 4         4 5         4 4         3 4         4 4         3 4         4 4         3 4         4 4         3 4         4 4         3 4         4 4 <td>Malignant neoplasm of prostate (male)</td> <td>722</td> <td>18.0</td> <td>17.9</td> <td>134</td> <td></td>	Malignant neoplasm of prostate (male)	722	18.0	17.9	134																	
1953 234 200 472 193 200 942 194 194 194 194 194 194 194 194 194 194	Leukemia	588	7.0	6.1	102																9.9	
Heart Greenee Heart Green Heart Greenee Heart Green Heart Greenee Heart Greenee Heart Green Heart	Diabetes Mellitus	1,963	23.4	20.0	472																21.2	
inter S Disease  I, 195	Parkinson's Disease	441	5.3	4.3	84																3.8	
ses of Heart sesses   1773   2113   1739   2933   1214   1318   8420   3464   1389   9420   1364   1310   1059   999   451   8460   2157   2134   9103   2072   1399   1354   9100   999   451   8460   2142   242	Alzheimer's Disease	1,195	14.2	11.0	335																19.	
Pertensive heard lisease 1442 29.1 24.2 469 19.1 20.9 863 22.0 49.8 412 21.0 13.0 40.8 12.0 13.0 412.4 11.3 59.0 13.4 142.0 13.9 13.4 141.0 13.0 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2	Diseases of Heart	17,743	211.3	173.9	2,973															_	207.	
rote ic between control ic seases         11,655         118.8         113.6         14.23         24.7         22,12         12,73         15.5         11.3         907         73.3         69.2         31.2         5,706         14.3         59.4         13.5           ute myocardial infarction         1,796         21.4         17.2         12.2	Hypertensive heart disease	2,442	29.1	24.2	469															·	29.8	
ute myocardial infarction         1,796         21.4         17.8         319         13.0         14.3         805         29.9         18.6         47.2         25.5         21.6         15.5         12.6         11.8         45.0         22.5         11.8         430         16.0         94         420         22.7         12.1         12.4         26.2         10.7         11.9         430         16.0         94         420         22.7         12.0	Chronic ischemic heart diseases	11,655	138.8	113.6	1,829															Ė	135.4	
ential (Primary) Hypertensive Renal Disease 1,272 15,1 12,4 262 16,7 11,9 430 16,0 9,4 420 2,2,7 12,0 12,0 12,0 12,0 12,0 12,0 12,0 12,0	Acute myocardial infarction	1,796	21.4	17.8	319																19.6	
provascular Diseases         1,888         2.25         18.7         415         16.9         18.7         699         25.9         15.8         21.0 </td <td>Essential (Primary) Hypertension and Hypertensive Renal Disease</td> <td>1,272</td> <td>12.1</td> <td>12.4</td> <td>262</td> <td></td> <td>11.9</td> <td></td>	Essential (Primary) Hypertension and Hypertensive Renal Disease	1,272	12.1	12.4	262		11.9															
nove and Pneumonia         204         239         197         418         17.1         18.8         827         36.7         18.1	Cerebrovascular Diseases	1,888	22.5	18.7	415	16.9	18.7													-		
Incrementation Diseases Increm	Influenza and Pneumonia	204	23.9	19.7	418	17.1	18.8															
thma         174         2.1         1.9         66         2.7         2.8         2.1         3.9         3.7         9         0.7	Chronic Lower Respiratory Diseases	1,781	21.1	17.8	357	14.6	15.9															
Figure   Disease and Cirrhosis   S71   6.8   6.1   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.6   8.9   2.1   8.0   8.0   8.9   8.0   8	Asthma	174	2.1	1.9	99	2.7	2.8															
External Causes         3,627         43.2         40.1         966         39.4         1,375         51.0         43.9         45.8         45.8         45.8         26.3         26.3         27.3	Chronic Liver Disease and Cirrhosis	571	6.8	6.1	211	9.8	8.9															
rVehicle Accidents         219         2.6         2.4         67         2.7         2.7         2.2         45         2.4         2.3         2.9         2.3         2.9         2.3         2.9         2.3         2.9         2.3         2.9         2.4         2.7	External Causes	3,627	43.2	40.1	996	39.4	39.4															
ing by Psychoactive Substances, Excluding Alcohol 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	Motor Vehicle Accidents	219	5.6	2.4	29	2.7	2.7															
562 6.7 6.3 99 4.0 4.0 279 10.4 9.3 94 5.1 5.0 74 6.0 5.8 16 412 10.3 9.8 150 3.4 131 3.7 3.7 83 3.4 12.1 127 4.7 4.3 4.0 4.0 2.2 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	Falls	489	5.8	4.8	101	4.1	4.5															
311 3.7 3.7 83 3.4 3.3 31 1.2 1.2 173 9.4 9.6 11 0.9 0.9 13 258 6.4 6.4 53 1.2 1.2 1.2 1.2 1.3 18.5 18.5 1.3 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5	Intentional Self-harm (Suicide)	295	6.7	6.3	66	4.0	4.0															
296 3.5 3.4 51 2.1 127 4.7 4.3 74 4.0 4.0 22 1.8 1.9 22 208 5.2 5.1 88 2.0 1.50 17.9 16.9 4.9 20.4 20.0 5.3 19.8 18.5 3.9 21.3 5.7 2.5 5.1 2.5 5.1 2.5 5.1 88 2.0 5.2 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	Assault (Homicide)	311	3.7	3.7	83	3.4	3.3															
1,500 17.9 16.9 499 20.4 20.0 533 19.8 18.5 39.4 21.3 18.5 33 2.7 2.6 41 1,136 28.4 26.5 36.4 8.3	Events of Undetermined Intent	296	3.5	3.4	21	2.1	2.1															
C.O +0.C C.O.O +0.C 0.C 1.	Mental and Behavioral Disorders Due to Use of or Accidental	1	1	0 91	900	20.4	0 00			0						4						
	robolining by rayciloactive substances, excituding Arconol	000,1	6.7.	0.0	477	t. 7	20.0			0.0						0 0	4					

\* 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 data are from the 2018 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, 2018

The control of the co			All Cause	All Causes (Rate per 1,000)	er 1,000)	Heart Diseases	iseases	Malignant Neoplasm	gnant lasms	HIV Disease		Influenza and Pneumonia		Cerebrovascular Diseases		Chronic Lower Respiratory Diseases		Chronic Liver Disease & Cirrhosis	ΩŽ	Diabetes Mellitus	Me Disorde Substan Acci Pois	Mental Disorders due to Substance Use & Accidental Poisoning	Acciden Drug Po	Accidents Except Drug Poisoning	Intentional Self- harm (Suicide)		Assault† (Homicide)		Events of Undetermined Intent
Marked   Septem   S	Community District of Residence	Population 2018 Estimates			Age- Adjusted Rate	ÖZ	Crude Rate		Crude Rate					l				Crude		Crude		Crude	Š	Crude Rate			l .		Crude No. Rate
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	ALL DEATH EVENTS	8,398,748		9.9	9		211.3	13,037		_	_	4	L_	88	1.0		L				L.			12.4	22	6.7	_	3.7	296
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	MANHATTAN#	1,618,823		0.9			169.6	2,280		19	3.8	290												12.0	121	7.5	21	1.3	29
Mathematical Control   Mathematical Control	Battery Park, Tribeca (01)	62,037		3.1	4.0	53	85.4	54		2	3.2	9	9.7	4	6.4	.6 9	7	-	us.	4 6.4		3.2		191	-	9.1	-	1.6	-
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	Greenwich Village, SOHO (02)	89,452	404	4.5	3.5	124	138.6	103	115.1	-	-	12	13.4	Ξ	12.3	19 21.	2	3,		Ì		5.6		5.6	^	7.8	2	2.2	9
14,479   1,579   1,519   1,5	Lower East Side (03)	168,490		6.8	4.7	360	213.7	249	-	2	3.0	45	26.7		27.9		2							20.8	10	5.9	Э	1.8	3
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Chelsea, Clinton (04)	134,313	549	4.1	3.6	158	117.6	131		2	1.5	18	13.4		11.9	22 16.	4							10.4	Ξ	8.2	-	0.7	_
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Midtown Business District (05)	55,921	211	3.8	3.5	59	105.5	54		2	3.6	-	1.8		17.9		2							12.5	9	10.7	-	1.8	-
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Murray Hill (06)	141,450	758	5.4	3.6	217	153.4	221	- '		0.7	= :	7.8		15.6									14.1	23	16.3	1 (	1 0	2 1
1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1	Upper West Side (07)	210,691	1,409	6.7	4.2	416	197.4	338	- ,	Φ •	80. 0	52	24.7		22.8		o ,							10.0	9 9	2.8	7 7	0.0	<b>\</b>
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Upper East Side (U8)	6//177	1,333	0.0	3.7	396	1/8.0	313		4 0	0 7	4 '	0.0		5.0		-							; ;	٥,	0.0	- (	0.0	1 0
1,1,1,1,   1,1,1,1,1,1,1,1,1,1,1,1,1,1	Mannatanville (09)	113 281	0/0	7.0	). 0	240	210.6	21.7		ο (1	4. 7	0 90	3.8		30.4		4 0							7.0	4 0	7.0	7 -	0. 0	\ α
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Fact Harlem (11)	121 513	1 004	, «	7.0	253	208.2	208	-	- α	0 9	33	07.0		20.6								,	6.0	0 0	U. 7	- હ	0.0	0 0
1,14,4,6,10   3,86   6,5   6,5   1,20   1,12   1,12   1,12   1,12   1,13   1,14   1,15   1,14   1,15   1,	Washington Heights (12)	191 321	1 066	, r.	4.6	286	149.5	225	-	0 0	2.0	30	15.7		18.3									11.0	, <del>L</del>	. ι	-	10	) 1.
95,940         646         67         72         10         183         13         183         13         18         13         18         13         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         2         18         <	BRONX#	1.434.692	9.385	6.5	6.2	2.801	195.2	1.977	-	101	7.0	405	28.2			L				L		L	Ľ	10.6	65	7 4	. 6	8.9	37
	Mott Haven (01)	96.949		6.7	7.2	178	183.6	132	-	13	13.4	3 15	32.0			L.			L	L		L		10.3	9	6.2	6	0.0	2 4
	Hunts Point (02)	55.346		5.4	0.9	85	153.6	57	103.0	4	7.2	12	21.7	L	23.5									10.8			· cc	4.5	2
1.1.   1.1.	Morrisania (03)	89,843		5.8	6.7	133	148.0	108	-	6	10.0	30	33.4		15.6		9						-	12.2	4	5.4	6	10.0	2
0.00 1336/72 645 656 550 151 1112 0 148 1110 112 112 112 112 112 112 112 112 11	Concourse, Highbridge (04)	153,378	852	5.6	6.2	250	163.0	190	-	Ξ	7.2	14	26.7		18.9		-		Ĺ				Ì	8.5	3	2.0	^	4.6	æ
8.85   8.4   8.4   8.5	University/Morris Heights (05)	133,672		5.0	6.3	151	113.0	148	-	17	12.7	38	28.4		18.0		2						12	9.0	2	3.7	17	12.7	-
14,584   843   548   643   548   644   748   7	East Tremont (06)	85,916		6.3	7.5	128	149.0	116	-	13	12.1	22	25.6		15.1		2							11.6	2	5.8	13	15.1	-5
10,004   953   94   56   56   57   54   94   194   194   54   95   95   95   95   95   95	Fordham (07)	145,864		5.8	6.5	221	151.5	167	-	9	4.1	27	18.5		26.1						27	35.6		4.1	80	5.5	9	1.4	-
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	Riverdale (08)	101,694		4.6	5.6		349.1	193	-	2	4.9	31	30.5		28.5									18.7	4	3.9	e.	3.0	c
144,457   14,645   14,65   14,65   14,64   1	Unionport, Soundview (09)	181,891	1,096	0.9	5.0		179.8	236	- 0	6	4.9	55	30.2		21.4					1	3.5	19.2		10.4	00 1	4.	18	6.6	7
13446   914   615   61	Ihrogs Neck (10)	120,318	1,061	xo o	5.0	340	282.6	249		1 1		84 :	9.95		43.2									18.3	0 1	7.7	- 4	8.0	- 0
Column   C	Williamshaide (12)	114,46/	/16	0.8	9.7	317	276.9	170		n 0	4. n	14 0	35.8		38.4		,							10.5	, ç	1.9	O 11	2.5	20 0
Hand	BROOKLYN	2 582 830	15 339	0.0	2,3	5 470	2118	3 434	- -	104	0.4	641	24.8			L	-		L					10.3	133	7. 1.	103	0.5	9
ights (0.0)         (12.19)         61.2         5.0         4.7         193         158.0         14.7         11.0         5         4.1         3.0         4.7         19.0         17.2         26         21.3         5         4.1         2.3         18.8         13         10.6         5         4.1         3.0         4.2         4.2         4.5         4.6         4.5         4.5         4.6         4.5         4.6         4.5         4.6         4.5         4.6         4.5         4.6         4.7         4.6	Williamsburg, Greenboint (01)	196.441	768	3.9	7.4	238	121.2	172		2	100	40	20.4											9.2	6	4.6	2 6	1.5	2 ~
144731         886         6.0         6.2         2.80         1895         6.0         6.2         4.4         1.3         2.4         3.5         2.3.7         2.8         1.0         7         4.5         6.7         4.5         6.7         4.5         1.4         1.6         1.3         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.4         1.6         1.1         1.1         1.4         1.6         1.1         1.1         1.1         1.1         1.1         1.4         1.6         1.1         1.	Fort Greene, Brooklyn Heights (02)	122,191	612	5.0	4.7	193	158.0	143	_	22	4.1	30	24.6		17.2						13	10.6		4.1	6	7.4	c	2.5	2
1990-42   445   41   50   448   41   41   41   42   46   46   48   41   41   41   41   42   48   42   42   43   44   44   44   44   44	Bedford Stuyvesant (03)	147,731	988	0.9	6.2	280	189.5	167	113.0	21	14.2	36	24.4		23.7		0	7		Ì	22	14.9	1	7.4	80	5.4	19	12.9	9
175613   1,224   7.0   6.9   4.8   2.80   2.60   1481   19   10.8   3.5   19.9   3.7   2.11   2.6   14.8   19   17.5   4   3.7   19.1   19.2   3.0   17.1   3.0   17.1   3.0   17.1   3.0   17.1   3.0   17.1   3.0   17.1   3.0   17.1   3.0   17.1   3.0   17.2   3.0   17.1   3.0   17.2   3.0   17.1   3.0   17.2   3.0	Bushwick (04)	109,042		4.1	5.0	143	131.1	94	86.2	С	2.8	19	17.4		16.5		Ì				1	13.8	5	4.6	^	6.4	9	5.5	с
108,330         480         44         50         147         135.7         116         107.1         11.5         48         19         17.5         4         37         19         17.5         11         10.2         6         55         2         1.8         2           19,8388         490         3.8         4.4         11.01         12.5         96.3         11.6         12.5         11.6         20.2         2.3         4         31.1         10.2         6         5.5         12.1         10.2         6         5.7         11.6         10.2         11.6	East New York (05)	175,613	1,224	7.0	6.9	418	238.0	260	-	19	10.8	35	19.9		21.1	26 14.					3.2	18.2		17.1	2	1.1	Ξ	6.3	2
12938 490 38 44 143 110.1 125 96.3 1 0.08 116 12.3 15 11.6 29 22.3 4 3.1 15 11.6 10 7.7 12 12.9 19.2 12.9 1 1.0 10.4 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14	Park Slope (06)	108,330		4.4	2.0	147	135.7	116	-	2	1.8	19	17.5		14.8		2	3.			=	10.2		5.5	2	1.8	2	1.8	•
94,871 595 6.3 5.9 120. 244 121 131 132 139. 1 4 4.2 2 0 21.1 18 19.0 12 12.6 6 6.3 28 29.5 16 16.9 12 12.6 3 3 3.2 4 4 14.0 14.0 14.0 14.0 14.0 14.0 14.0	Sunset Park (07)	129,838		3.8	4.	143	110.1	125		-	0.8	91	12.3		9.11	29 22.	e,	4.			2	7.7	12	9.2	12	9.5	-	0.8	4
96.267 647 657 557 229 140 1455 3 3.1.1 24 24.9 25 56.0 17 17.7 2 2.1 49 50.9 10 10.4 14 146 4 4 4.2 10 10.4 145.0 10 140,026    1040,220 647 65.7 5.2 129.7 140 1455 3 3.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Crown Heights North (08)	94,871	292	6.3	5.9	203	214.0	132	-	4	4.2	20	21.1		19.0	12 12.	9	9			-	16.9		12.6	c	3.2	4	4.2	7
140,265 796 5.7 44 277 13 9.4 277 13 14.0 7 33 23.5 16 11.4 32 22.8 12 8.6 15 10.7 13 9.3 18 18 12.8 6 4.3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Crown Heights South (09)	96,207	647	6.7	2.7	221	229.7	140	-	c	3.1	24	24.9		26.0	17 17.		2 2.	Ì		=	10.4		14.6	4	4.2	0	10.4	7
202,413 1,127 5.6 4.4 142 20.7 2.8 134.9 42 20.7 2.8 13.8 45 22.2 4 2.0 30 14.8 17 8.4 24 119 10 4.9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bay Ridge (10)	140,265	962	5.7	4.	277	197.5	200	_	-	0.7	33	23.5		4.1.	32 22.	00	2 8.				9.3		12.8	9	£.	7	4.	4
198,588 874 44 44 44 41 14 62 532 23.23 23.8 21 13.2	Bensonhurst (11)	202,413	1,127	2.6	4.	420	207.5	273	_	1	1	42	20.7		13.8	45 22.	7	2.			-	4.8	.,	11.9	10	6.4	-	0.5	m
105,483 1,204 114 6.2 552 23.3.3 225 22.28 1 0.9 4.2 99.8 31 29.4 27 25.6 6 5.7 33 31.3 19 18.0 15 114.2 12 11.4 11.4 11.4 11.4 11.4 11.4	Borough Park (12)	198,508	874	4.	4.4	314	158.2	197	,	١,	1 (	79	39.8		11.6	21 10.	9	. 5.	2 2	3 11.0				5.0	<b>\</b>	3.5	-	0.5	<u> </u>
16,1245 961 5.9 5.4 362 223.7 212 131.0 9 5.6 58 35.8 25 15.4 22 13.6 4 2.5 32 19.8 14 8.7 13 8.0 13 8.0 6 15 17 12 13.1 8.0 15 17 12 13.1 8.0 15 18 18 18 18 18 18 18 18 18 18 18 18 18	Coney Island (13)	105,483	1,204	4.	6.2	252	523.3	235	7	-	0.9	4.2	39.8		29.4	27 25.	9	6 5.				18.0		14.2	12	4.	-	6.0	0
1/2,122   1,310   7.6   3.0   364   32.7   2.9   1.9   1.0   1.9   1.0   1.9   2.3   2.1   3.9   3.9   1.0	Flatbush, Midwood (14)	161,845		5.9	4.0	362	223.7	212	٦,	D (	2.6	200	35.8		15.4	22 13.	9	4 .			7	20 1		8.0	- 13	0. r	9 (	3.7	ກຸ
1 50,720 009 0.2 2.2 2.4 2.7 1 10,70 1 1 2 2.4 2.7 1 10,0 1 1 2 2.4 2.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sheepshead Bay (13)	01 736		0. /	0.0	224	077.1	197	1676	2		† -	0.02		20.3	10 22	0 0	- 0				10.6		4.01	1 0	0.0	0 5	17.1	2 4
190,003 1,291 68 5.8 4.73 24.89 309 162.6 51 26.8 4.0 21.1 32 16.8 2 1.1 57 30.0 17 8.9 2.1 11.1 10 5.3 9	Fast Flatbush (17)	150.004		4 4	5.2	298	198.7	23.1	154.0	16	10.7	5 4	22.7		18.0	20 13.	4 60					8		10.7	ی .	0 4	. 4	2.7	7
	Canarcia (18)	190 003	-	. 80	1 00		248 9	309	-	, 10	2.6		36.8		21 1	32 16	, α	- C					ľ	: [	, 01	. r.	. 0	. 4	1 =

Continued on next page.

Table M12. Deaths and Death Rates\* per 100,000 Population from Selected Underlying Causes by Community District of Residence, New York City, 2018 (Continued)

		All Caus	es (Rate p	All Causes (Rate per 1,000) Heart Diseases	Неап Di	iseases	Malignant Neoplasms		HIV Disease		Influenza and Pneumonia		Cerebrovascular Diseases		Chronic Lower Respiratory Diseases	Chronic Liver Disease & Cirrhosis	Liver e & osis	Diabetes Mellitus		Mental sorders due ostance Use Accidental Poisoning	e & Acci	Mental Disorders due to Substance Use & Drug Poisoning harm (Suicide) Poisoning	pt Intent	Intentional Self- harm (Suicide)		Assault† (Homicide)	Events of Undetermined Intent	s of mined nt
Community District of Residence		ŏZ	Crude Rate	Age- Crude Adjusted Rate Rate	Ž	Crude Rate	Š	Crude Rate	No.	Crude Rate No	Crude No. Rate	de Te No.	Crude	N S	Crude	ò	Crude Rate	Š.	Crude Rate N	Crude No. Rate	Crude Rate No.	Crude	Š	Crude	ö	Crude Rate	òŽ	Crude Rate
QUEENS	2,286,224	12,517	5.5	4.4	4,408	192.8	2,806	122.7	30	1.3	467 2	20.4	475 20	20.8 410	0 17.9	118	5.2	410	17.9	226	6.6	272 11.9		155 6.8	54	2.4	51	2.2
Astoria, Long Island City (01)	192,988	979	5.1	4.8	368	190.7	222	115.0	4	2.1	50 2	25.9	32 16	16.6 37	7 19.2	9	3.1	23	11.9	20	10.4	18	9.3	6 3.1	8	1.4	4	2.1
Sunnyside, Woodside (02)	139,002	471	3.4	3.1	143	102.9	113	81.3	'		20 1	4.4	19 13	13.7 18	9 12.9	4	2.9	15	10.8	80	5.8	21 15.1		13 9.4	2	4.1	3	2.2
Jackson Heights (03)	175,142	740	4.2	3.9	232	132.5	157	9.68	3	1.7	29 1	9.91	33 18	18.8 23	3 13.1	6	2.1	15	9.6	17	9.7	18 10.3	ε.	9 5.1	4	2.3	7	4.0
Elmhurst, Corona (04)	183,315	5 710	3.9	3.8	230	125.5	172	93.8	2	17	33 1	18.0	29 15	15.8 23	3 12.5		3.8	18	9.8	6	4.9	20 10.9	6.	9 4.9	_	0.5	2	1.1
Ridgewood, Glendale (05)	161,281	910	5.6	5.0	331	205.2	212	131.4	2	1.2	30 1	18.6	30 18	18.6 34	4 21.1	12	7.4	22	13.6	19	1.8	26 16.1		12 7.4	-	9.0	2	1.2
Rego Park, Forest Hills (06)	112,369	750	6.7	3.9	267	237.6	187	166.4	•	,	35 3	31.1	19 16	16.9	9 16.0	2	4.4	12	10.7	6	8.0	15 13.3		13 11.6	,	'	3	2.7
Flushing (07)	257,854	1,634	6.3	3.9	295	218.0	386	149.7	33	1.2	74 2	28.7	67 26	26.0 54	4 20.9	10	3.9	40	15.5	23	8.9	38 14.7		24 9.3	4	1.6	4	1.6
Fresh Meadows, Briarwood (08)	152,197	828	5.4	3.9	327	214.9	183	120.2	-	0.7	27 1	17.7	40 26	26.3 26	17.1	9	3.9	53	1.61	9	3.9	15 9.	6.6	9 5.9	4	2.6	5	3.3
Woodhaven (09)	144,161	969	4.8	4.8	247	171.3	148	102.7	-	0.7	21 1	14.6	33 22	22.9	7 11.8	12	8.3	53	20.1	15	10.4	20 13.9	6	9 6.2	_	0.7	3	2.1
Howard Beach (10)	122,227	7 710	5.8	5.1	227	185.7	153	125.2	-	8.0	24	9.61	41 33	33.5 20	16.4	10	8.2	39	31.9	6	7.4	12 9.	9.8	14 11.5	5	4.1	5	4.1
Bayside (11)	116,589	999	5.7	3.5	245	210.1	161	138.1	•	,	12 1	10.3	20 17	17.2	15.4		0.9	^	0.9	=	9.4	8	6.9	12 10.3	_	0.9	4	3.4
Jamaica, St. Albans (12)	227,621	1,453	6.4	5.3	210	224.1	332	145.9	9	5.6	57 2	25.0	48 21	21.1 30	13.2	6	4.0	81	35.6	35	15.4	19 8.	8.3	8 3.5	6	4.0	2	6.0
Queens Village (13)	189,526	946	5.0	3.7	309	163.0	211	111.3	2	1:1	16	8.4	33 17	17.4 33	3 17.4		3.7	31	16.4	12	7.9	25 13.2	7	8 4.2	8	4.2	4	2.1
The Rockaways (14)	111,171	1,024	9.2	7.7	410	368.8	169	152.0	2	4.5	39 3	35.1	31 27	27.9 59	9 53.1	14	12.6	49	1.44	30	27.0	17 15.3	3	9 8.1	9	5.4	3	2.7
STATEN ISLAND	476,179	3,608	7.6	6.1	1,404	294.8	865	181.7	8	1.7	94	19.7	88 18	18.5 132	2 27.7	29	6.1	132	27.7	114	23.9	40 8.	8.4	31 6.5	3	9.0	10	2.1
Port Richmond (01)	182,379	1,297	7.1	6.5	532	291.7	290	159.0	9	3.3	17	9.3	28 15	15.4 44	4 24.1	15	8.2	63	34.5	47	25.8	16 8.	8.8	6 3.3	3	1.6	4	2.2
Willowbrook, South Beach (02)	135,823	1,112	8.2	5.5	434	319.5	278	204.7	-	0.7	34 2	25.0	28 20	20.6 47	7 34.6	4	2.9	34	25.0	22	16.2	15 11.0		13 9.6	-	'	5	3.7
Tottenville (03)	157,252	1,198	7.6	6.3	438	278.5	296	188.2	-	9.0	43 2	27.3	32 20	20.3 41	1 26.1	10	6.4	35	22.3	45	28.6	9 5.	5.7	12 7.6	-	'	1	9.0
NONRESIDENTS		- 4,425	_	-	884	1	1,664	-	25	-	102	-	186	- 110	- ر	85	-	92	-	156	-	91	- 2	54	- 28	-	27	1
RESIDENCE UNKNOWN		- 141			30	•	10	'	-	-	4	-	2	7		2	•	•	•	33	•	19	_	2	3		14	•

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 2018 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

Rate per 1,000 live births  Neonatal Deaths (under 28 days)  Rate per 1,000 live births  Early Neonatal Deaths (under 7 Days)  Rate per 1,000 live births  Fetal Deaths (28 Weeks Gestation and Older)  Ratio per 1,000 live births  Perinatal mortality ratio†  Pregnancy, Childbirth, and the Puerperium (O00-O99)  Rate per 100,000 live births  Maternal Causes       (A34, O00-O95, O98-O99)  Ratio per 100,000 live births  Respiratory Tuberculosis (A16)  Rate  Other Forms of Tuberculosis (A17-A19)  Rate  HIV Disease (B20-B24)‡  Rate  Malignant Neoplasms (C00-C97)  Rate  Trachea, bronchus, and lung, male (C33-C34)  Rate  Trachea, bronchus, and lung, female (C33-C34)  Rate  Colon, rectum, and anus (C18-C21)  Rate  Breast, female (C50)  Rate  Diabetes Mellitus (E10-E14)  Rate  Major Cardiovascular Diseases (100-178)	1901- 1905 15,611 120.8 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ 694 538.0 8,154 215.4 \$\$ \$\$	1906- 1910 16,609 115.2 \$\$ \$\$ \$\$ \$\$ 745 517.4 8,832 197.5 \$\$	1911- 1915 14,060 100.0 5,143 37.4 \$\$ \$\$ \$\$ \$\$ 694 493.7 8,745 173.2 \$\$	1916- 1920 12,004 88.22 4,894 36.0 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	1921- 1925 8,895 68.9 4,309 33.0 \$\$ \$\$ \$\$ \$\$	1926- 1930 7,662 61.0 3,892 31.0 \$\$ \$\$ \$\$	1931- 1935 5,521 52.0 3,152 29.7 \$\$ \$\$	1936- 1940 4,079 39.8 2,631 25.7 2,110 20.5 2,589 25.3 44.7 §§	1941- 1945 3,828 30.3 2,764 21.9 2,338 18.5 2,709 21.4 39.1 §§	1946- 1948 4,298 26.8 3,298 20.5 2,845 17.7 2,902 18.1 35.1	1949- 1951 3,882 24.5 2,989 18.9 2,604 16.4 2,441 15.4 31.3	1952- 1955 4,021 24.6 3,032 18.5 2,713 16.6 2,310 14.1
Infant Deaths (under 1 year) Rate per 1,000 live births Neonatal Deaths (under 28 days) Rate per 1,000 live births Early Neonatal Deaths (under 7 Days) Rate per 1,000 live births Fetal Deaths (28 Weeks Gestation and Older) Ratio per 1,000 live births Perinatal mortality ratio† Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes       (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Breast, female (C50) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	15,611 120.8 §\$ §\$ §\$ §\$ §\$ \$\$ 694 538.0 8,154 215.4 §\$	16,609 115.2 \$\$ \$\$ \$\$ \$\$ \$\$ 55 745 517.4 8,832 197.5 \$\$	14,060 100.0 5,143 37.4 §\$ \$\$ \$\$ \$\$ \$\$ \$\$ 8\$ \$\$ 8\$ 1094 493.7 8,745 173.2	12,004 88.2 4,894 36.0 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	8,895 68.9 4,309 33.0 \$\$ \$\$ \$\$	7,662 61.0 3,892 31.0 \$\$ \$\$	5,521 52.0 3,152 29.7 \$\$ \$\$	4,079 39.8 2,631 25.7 2,110 20.5 2,589 25.3 44.7	3,828 30.3 2,764 21.9 2,338 18.5 2,709 21.4 39.1	4,298 26.8 3,298 20.5 2,845 17.7 2,902 18.1	3,882 24.5 2,989 18.9 2,604 16.4 2,441 15.4	4,021 24.6 3,032 18.5 2,713 16.6 2,310
Rate per 1,000 live births  Neonatal Deaths (under 28 days)  Rate per 1,000 live births  Early Neonatal Deaths (under 7 Days)  Rate per 1,000 live births  Fetal Deaths (28 Weeks Gestation and Older)  Ratio per 1,000 live births  Perinatal mortality ratio†  Pregnancy, Childbirth, and the Puerperium (O00-O99)  Rate per 100,000 live births  Maternal Causes       (A34, O00-O95, O98-O99)  Ratio per 100,000 live births  Respiratory Tuberculosis (A16)  Rate  Other Forms of Tuberculosis (A17-A19)  Rate  HIV Disease (B20-B24)‡  Rate  Malignant Neoplasms (C00-C97)  Rate  Trachea, bronchus, and lung, male (C33-C34)  Rate  Trachea, bronchus, and lung, female (C33-C34)  Rate  Colon, rectum, and anus (C18-C21)  Rate  Breast, female (C50)  Rate  Diabetes Mellitus (E10-E14)  Rate  Major Cardiovascular Diseases (100-178)	120.8 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ 694 538.0 8,154 2154 \$\$ \$\$ \$\$	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ 517.4 8,832 197.5 \$\$	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	88.2 4,894 36.0 \$\$ \$\$ \$\$ \$\$ \$\$ 664 487.9 7,915	68.9 4,309 33.0 \$\$ \$\$ \$\$ \$\$	61.0 3,892 31.0 \$\$ \$\$	52.0 3,152 29.7 \$\$ \$\$	39.8 2,631 25.7 2,110 20.5 2,589 25.3 44.7	30.3 2,764 21.9 2,338 18.5 2,709 21.4 39.1	26.8 3,298 20.5 2,845 17.7 2,902 18.1	24.5 2,989 18.9 2,604 16.4 2,441 15.4	24.6 3,032 18.5 2,713 16.6 2,310
Neonatal Deaths (under 28 days) Rate per 1,000 live births Early Neonatal Deaths (under 7 Days) Rate per 1,000 live births Fetal Deaths (28 Weeks Gestation and Older) Ratio per 1,000 live births Perinatal mortality ratio† Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes         (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$5 \$38.0 8,154 215.4 \$\$ \$\$ \$\$	\$\$ \$\$ \$\$ \$\$ \$\$ \$5 745 517.4 8,832 197.5 \$\$	5,143 37.4 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ 493.7 8,745 173.2	4,894 36.0 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	4,309 33.0 \$\$ \$\$ \$\$ \$\$	3,892 31.0 \$\$ \$\$ \$\$	3,152 29.7 §§ §§	2,631 25.7 2,110 20.5 2,589 25.3 44.7	2,764 21.9 2,338 18.5 2,709 21.4 39.1	3,298 20.5 2,845 17.7 2,902 18.1	2,989 18.9 2,604 16.4 2,441 15.4	3,032 18.5 2,713 16.6 2,310
Rate per 1,000 live births Early Neonatal Deaths (under 7 Days) Rate per 1,000 live births Fetal Deaths (28 Weeks Gestation and Older) Ratio per 1,000 live births Perinatal mortality ratio† Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes       (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate  Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	\$\$ \$\$ \$\$ \$\$ \$5 \$38.0 8,154 215.4 \$\$ \$\$ \$\$	\$\$ \$\$ \$\$ \$\$ 745 517.4 8,832 197.5 \$\$	37.4 §§ §§ §§ §§ §§ 694 493.7 8,745 173.2	36.0 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ 664 487.9 7,915	33.0 \$\$ \$\$ \$\$ \$\$ \$\$	31.0 \$\$ \$\$ \$\$ \$\$	29.7 §§ §§	25.7 2,110 20.5 2,589 25.3 44.7	21.9 2,338 18.5 2,709 21.4 39.1	20.5 2,845 17.7 2,902 18.1	18.9 2,604 16.4 2,441 15.4	18.5 2,713 16.6 2,310
Early Neonatal Deaths (under 7 Days) Rate per 1,000 live births  Fetal Deaths (28 Weeks Gestation and Older) Ratio per 1,000 live births  Perinatal mortality ratio†  Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births  Maternal Causes       (A34, O00-O95, O98-O99) Ratio per 100,000 live births  Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate  HIV Disease (B20-B24)‡ Rate  Malignant Neoplasms (C00-C97) Rate  Trachea, bronchus, and lung, male (C33-C34) Rate  Trachea, bronchus, and lung, female (C33-C34) Rate  Colon, rectum, and anus (C18-C21) Rate  Breast, female (C50) Rate  Diabetes Mellitus (E10-E14) Rate  Major Cardiovascular Diseases (100-178)	\$\$ \$\$ \$\$ 694 538.0 8,154 215.4 \$\$ \$\$	\$\$ \$\$ \$\$ 745 517.4 8,832 197.5 \$\$	\$\$ \$\$ \$\$ \$\$ \$\$ 694 493.7 8,745 173.2	\$\$ \$\$ \$\$ \$\$ \$\$ 664 487.9 7,915	\$\$ \$\$ \$\$ \$\$ \$\$	\$\$ \$\$ \$\$ \$\$	\$\$ \$\$ \$\$	2,110 20.5 2,589 25.3 44.7	2,338 18.5 2,709 21.4 39.1	2,845 17.7 2,902 18.1	2,604 16.4 2,441 15.4	2,713 16.6 2,310
Rate per 1,000 live births  Fetal Deaths (28 Weeks Gestation and Older) Ratio per 1,000 live births Perinatal mortality ratio†  Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes       (A34, O00-O95, O98-O99) Ratio per 100,000 live births  Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	\$\$ \$\$ \$\$ 694 538.0 8,154 215.4 \$\$ \$\$	\$\$ \$\$ \$\$ 745 517.4 8,832 197.5 \$\$	\$\$ \$\$ \$\$ 694 493.7 8,745 173.2	\$\$ \$\$ \$\$ 664 487.9 7,915	\$\$ \$\$ \$\$ \$\$	\$\$ \$\$ \$\$	§§ §§	20.5 2,589 25.3 44.7	18.5 2,709 21.4 39.1	17.7 2,902 18.1	16.4 2,441 15.4	16.6 2,310
Fetal Deaths (28 Weeks Gestation and Older) Ratio per 1,000 live births Perinatal mortality ratio† Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes         (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	\$\$ \$\$ 694 538.0 8,154 215.4 \$\$ \$\$ 2,621 69.2	\$\$ \$\$ 745 517.4 8,832 197.5 \$\$	\$\$ \$\$ 694 493.7 8,745 173.2	\$\$ \$\$ 664 487.9 7,915	§§ §§	§§ §§	§§	2,589 25.3 44.7	2,709 21.4 39.1	2,902 18.1	2,441 15.4	2,310
Ratio per 1,000 live births Perinatal mortality ratio† Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes      (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	\$\$ \$\$ 694 538.0 8,154 215.4 \$\$ \$\$ 2,621 69.2	\$\$ \$\$ 745 517.4 8,832 197.5 \$\$	\$\$ \$\$ 694 493.7 8,745 173.2	\$\$ \$\$ 664 487.9 7,915	§§ §§	§§ §§	§§	25.3 44.7	21.4 39.1	18.1	15.4	
Perinatal mortality ratio† Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes      (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	\$\$ 694 538.0 8,154 215.4 \$\$ \$\$ \$\$ \$\$ 2,621 69.2	\$\$ 745 517.4 8,832 197.5 \$\$	694 493.7 8,745 173.2	\$\$ 664 487.9 7,915	§§ 689	\$\$		44.7	39.1			1/11
Pregnancy, Childbirth, and the Puerperium (O00-O99) Rate per 100,000 live births Maternal Causes       (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	\$\$ 694 538.0 8,154 215.4 \$\$ \$\$ \$\$ \$\$ 2,621 69.2	\$\$ 745 517.4 8,832 197.5 \$\$	694 493.7 8,745 173.2	\$\$ 664 487.9 7,915	§§ 689	\$\$				35.1	31.3	
Rate per 100,000 live births Maternal Causes       (A34, O00-O95, O98-O99) Ratio per 100,000 live births Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	694 538.0 8,154 215.4 §§ §§	745 517.4 8,832 197.5 §§	694 493.7 8,745 173.2	664 487.9 7,915	689		§§	§§	881		55	30.2
Maternal Causes         (A34, O00-O95, O98-O99) Ratio per 100,000 live births  Respiratory Tuberculosis (A16) Rate  Other Forms of Tuberculosis (A17-A19) Rate  HIV Disease (B20-B24)‡ Rate  Malignant Neoplasms (C00-C97) Rate  Trachea, bronchus, and lung, male (C33-C34) Rate  Trachea, bronchus, and lung, female (C33-C34) Rate  Colon, rectum, and anus (C18-C21) Rate  Breast, female (C50) Rate  Diabetes Mellitus (E10-E14) Rate  Major Cardiovascular Diseases (I00-I78)	538.0 8,154 215.4 §§ §§ 2,621 69.2	517.4 8,832 197.5 §§	493.7 8,745 173.2	487.9 7,915		651		- 1	33	§§	§§	§§
Ratio per 100,000 live births  Respiratory Tuberculosis (A16)  Rate Other Forms of Tuberculosis (A17-A19)  Rate HIV Disease (B20-B24)‡  Rate Malignant Neoplasms (C00-C97)  Rate Trachea, bronchus, and lung, male (C33-C34)  Rate Trachea, bronchus, and lung, female (C33-C34)  Rate Colon, rectum, and anus (C18-C21)  Rate Breast, female (C50)  Rate Diabetes Mellitus (E10-E14)  Rate Major Cardiovascular Diseases (I00-I78)	538.0 8,154 215.4 §§ §§ 2,621 69.2	517.4 8,832 197.5 §§	493.7 8,745 173.2	487.9 7,915		651						
Respiratory Tuberculosis (A16) Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (100-178)	8,154 215.4 §§ §§ 2,621 69.2	8,832 197.5 §§	8,745 173.2	7,915	528 1		608	372	255	178	115	102
Rate Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	215.4 §§ §§ 2,621 69.2	197.5 §§	173.2			518.4	572.6	363.2	201.6	110.8	72.6	62.3
Other Forms of Tuberculosis (A17-A19) Rate HIV Disease (B20-B24)‡ Rate  Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	\$\$ \$\$ 2,621 69.2	§§			4,937	4,574	4,068	3,680	3,281	2,932	2,173	1,178
Rate HIV Disease (B20-B24)‡ Rate Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	\$\$ 2,621 69.2		§§	144.1	80.0	68.2	57.3	50.0	43.2	37.7	27.4	15.0
HIV Disease (B20-B24)‡ Rate  Malignant Neoplasms (C00-C97) Rate  Trachea, bronchus, and lung, male (C33-C34) Rate  Trachea, bronchus, and lung, female (C33-C34) Rate  Colon, rectum, and anus (C18-C21) Rate  Breast, female (C50) Rate  Diabetes Mellitus (E10-E14) Rate  Major Cardiovascular Diseases (I00-I78)	2,621 69.2	§§	- 1	§§	§§	§§	§§	§§	§§	225	174	97
Rate  Malignant Neoplasms (C00-C97)  Rate  Trachea, bronchus, and lung, male (C33-C34)  Rate  Trachea, bronchus, and lung, female (C33-C34)  Rate  Colon, rectum, and anus (C18-C21)  Rate  Breast, female (C50)  Rate  Diabetes Mellitus (E10-E14)  Rate  Major Cardiovascular Diseases (I00-I78)	2,621 69.2	§§								2.9	2.2	1.2
Rate  Malignant Neoplasms (C00-C97)  Rate  Trachea, bronchus, and lung, male (C33-C34)  Rate  Trachea, bronchus, and lung, female (C33-C34)  Rate  Colon, rectum, and anus (C18-C21)  Rate  Breast, female (C50)  Rate  Diabetes Mellitus (E10-E14)  Rate  Major Cardiovascular Diseases (I00-I78)	2,621 69.2		§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Malignant Neoplasms (C00-C97) Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	69.2		- 55	- 55	- 55	- 55	- 55	- 55	- 55	- 55	- 55	
Rate Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	69.2	3,334	4,256	4,993	6,229	7,637	9,062	11,257	13,169	14,627	15,556	16,553
Trachea, bronchus, and lung, male (C33-C34) Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)		74.5	84.3	90.9	100.9	113.9	127.6	152.9	173.3	188.2	196.0	210.6
Rate Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	33	§§	§§	§§	§§	§§	§§	§§	§§	828	847	1.021
Trachea, bronchus, and lung, female (C33-C34) Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)		33	33	33	33	33	33	33	33	21.9	22.2	27.0
Rate Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	§§	§§	§§	§§	§§	§§	§§	§§	§§	220	179	228
Colon, rectum, and anus (C18-C21) Rate Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	33	33	33	33	33	33	33	33	33	5.5	4.4	5.6
Breast, female (C50) Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	cc	cc	0.0	cc	cc	0.0	0.0	cc	c c	1 420	1 470	1 517
Diabetes Mellitus (E10-E14) Rate Major Cardiovascular Diseases (I00-I78)	§§	§§	§§	§§	§§	§§	§§	§§	§§	1,429	1,476	1,517
Rate Major Cardiovascular Diseases (100-178)	520	600	016	1.063	1 20 4	1.634	2 1 10	2.707	2 121	35.9	36.4	37.3
Major Cardiovascular Diseases (100-178)	520	690	916	1,063	1,284	1,624	2,140	2,787	3,131	3,423	1,583	1,644
	13.7	15.4	18.1	19.4	20.8	24.2	30.1	37.9	41.2	44.0	19.9	20.9
	5,954	9,148	12,699	14,792	18,114	21,815	23,706	25,711	30,886	32,539	36,206	37,724
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
Cerebrovascular disease (160-169)	2,593	1,790	970	834	719	723	1,333	3,846	3,611	3,710	5,099	5,688
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
	10,425	10,985	10,528	17,136	8,935	9,989	8,205	5,337	3,453	3,014	2,469	2,664
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
Other Respiratory Diseases (J00-J06, J20-J99)	3,224	2,307	1,458	1,407	689	622	594	536	492	424	450	461
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
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
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
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
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
Use of Psychoactive Substance (F11-F16, F18-F19)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	81
Rate												1.0
Accidental Drug Poisoning (X40-X42, X44)††	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												
Motor Vehicle Accidents¶	§§	§§	253	658	929	1,175	1,167	920	728	635	600	634
Rate			5.0	12.0	15.0	17.5	16.4	12.5	9.6	8.2	7.6	8.1
Home Accidents	§§	§§	§§	§§	§§	§§	§§	1,546	1,823	1,941	1,699	1,568
Rate	- 00	0.0	- 00	0.0	0.0		- 00	21.0	24.0	25.0	21.4	19.9
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
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
Intentional Self-harm (Suicide) (X60-X84, Y87.0)	761	825	686	742	842	1,163	1,369	1,191	907	930	863	649
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
Assault (Homicide) (X85-Y09, Y87.1)	143	247	293	271	334	405	522	351	265	362	318	340
Rate	3.8	5.5	5.8	4.9	5.4	6.0	7.4		3.5	4.7	4.0	4.3
								4.5				
Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate		0.0	0.0	0.0	0.01	6.0	0.0	0.0	0.0	0.0		
Alzheimer's Disease (G30)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate	I	2.5										
Asthma (J45-J46) Rate	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§.	§§

<sup>\*</sup>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.

<sup>§</sup>Data for 1982-1985.

<sup>||</sup>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.

<sup>††</sup>Beginning January 2007, causes of death coding was changed. See Technical Notes: Deaths, Cause of Death Coding.

<sup>‡‡</sup> Codes following causes in parenthesis are the International Classification of Diseases, Tenth Revision.

<sup>§§</sup>Data are not available or not applicable.

<sup>||||</sup>See Technical Notes: Maternal Death and Maternal Mortality.

### Population for Selected Causes, New York City, 1901-2018

AVERAC	iΕ																	
1956-	1961-	1966-	1971-	1976-	1981-	1986-	1991-	1996-	2001-	2006-								
1960	1965	1970	1975	1980	1985	1990	1995	2000		2010		2012	2013	2014	2015	2016	2017	2018
4,290	4,333	3,477	2,312	1,875	1,624	1,691	1,339	881	760	682	577	583	551	516	526		500	446
25.7	26.2	23.6	19.9	17.4	14.4 1,097	12.8	10.0 912	7.1	6.1	5.4	4.7 378	4.7 383	4.6 377	4.2	4.3 342	4.1 312	4.3	3.9 278
3,220 19.3	3,226 19.5	2,602 17.7	1,714 14.8	1,333 12.3	9.7	1,159 8.8	6.8	609 4.9		445 3.5	3.1	383	3.1	326 2.7	2.8	2.6	344 2.9	2.4
2,909	2,922	2,351	1,480	1,131	927	972	753	478		335	293	301	283	254	242	230	250	219
17.4	17.7	16.0	12.8	10.5	8.2	7.4	5.6	3.8		2.6	2.4	2.4	2.3	2.1	2.0	1.9	2.1	1.9
2,362	2,276	1,885	1,288	835	719	698	686	518		388	368	379	371	401	345	388	347	378
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
31.1	31.0	28.4	23.6	18.1	14.5	12.6	10.6	8.0		5.7	5.4	5.5	5.4	5.3	4.8	5.1	5.1	5.2
§§	§§	§§	§§	§§	§§	§§	§§	30	32	39	37	29	30	27	39	24	43	32
107	100	7.2	26	20	22	20	26	24.1 22	25.7 29	30.5	30.1 30	23.5	24.9	22.1	32.1	19.9	36.7	28.0 23
64.1	109 66.0	73 49.6	36 31.1	28 25.9	33 29.2	29 22.3	19.2	17.5		32 25.4	24.4	23 18.7	25 20.8	18.8	35 28.8	18 15.0	25 21.4	20.1
824	624	432	235	141	125	174	13.2	39		16		13	13	22	17	15.0	13	17
10.6	8.0	5.5	3.1	2.0	1.7	2.4	1.8	0.5		0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2
52	43	39	32	22	35	55	34	14		5	5	3	4	9	3	5	2	3
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		
§§	§§	§§	§§	§§	768§	3,703	6,257	2,716		1,032	766	609	579	523	483	432	369	331
- 16.060	.=				10.7	50.9	83.2	36.4		12.7	9.3	7.3	6.9	6.2	5.6	5.1	4.3	3.9
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
216.1 1,157	222.1 1,294	226.3 1,890	226.3 2,434	228.7 2,387	222.3 2,217	214.7 2,201	201.9 2,083	192.2 1,849	169.9 1,713	162.1 1,565	162.6 1,538	160.8 1,585	159.0 1,569	157.6 1,405	155.8 1,453	158.5 1,354	154.2 1,297	155.2 1,272
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
261	303	474	777	970	1,169	1,315	1,426	1,416		1,340	1,340	1,302	1,349	1,254	1,271	1,165	1,170	1,154
6.4	7.4	11.4	19.1	25.0	30.6	33.9	36.7	35.9		31.4	30.9	29.8	30.7	28.2	28.4	26.1	25.9	26.3
§§	§§	§§	§§	§§	§§	§§	1,805	1,685	1,546	1,414	1,374	1,380	1,329	1,268	1,275	1,311	1,304	1,175
							24.0	22.6		17.4	16.6	16.6	15.8	14.9	14.9	15.4	15.1	14.0
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
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
1,581 20.3	1,789 22.9	1,867 23.7	2,064 27.0	1,547 21.4	1,436 20.1	1,198	1,348 17.9	1,659 22.2	1,770 21.9	1,662 20.4	1,770 21.4	1,813 21.7	1,844 21.9	1,798 21.2	1,852 21.7	1,796 21.0	1,802 20.9	1,963 23.4
38,988	39,943	41,981	40,639	37,978	37,818	16.5 33,527	32,074	29,330	26,663	23,414	20,044	19,808	19,967	19,715	20,502	20,597	21,031	21,328
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
6,013	6,174	6,277	5,433	4,174	3,194	2,927	2,256	2,058		1,555	1,750	1,647	1,707	1,787	1,847	1,842	1,901	1,888
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
3,459	3,394	3,562	3,164	3,000	2,740	3,354	2,810	2,548		2,372	2,492	2,245	2,472	2,220	2,096	2,019	1,945	2,004
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
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
8.3 1,858	12.3 2,386	18.1 2,936	21.3 2,440	21.9 2,185	27.2	34.5 1,289	25.8 946	27.1 697	25.2 521	23.5 493	27.5 550	26.5 534	28.0 586	28.6 589	27.9 610	26.2 522	27.9 605	28.8
23.8	30.5	37.3	31.9	30.2	1,789 25.0	1,209	12.6	9.3	6.5	6.1	6.7	6.4	7.0	6.9	7.1	6.1	7.0	571 6.8
573	509	447	372	381	383	816	311	564		429	453	461	464	486	437	416	388	459
7.3	6.5	5.7	4.9	5.3	5.4	11.2	4.1	7.6		5.3	5.5	5.5	5.5	5.7	5.1	4.9	4.5	5.5
96	263	551	677	414	573	787	947	875	866		158	152	148	170	195	172	134	125
1.2	3.4	7.0	8.8	5.7	8.0	10.8	12.6	11.7		3.2	1.9	1.8	1.8	2.0	2.3	2.0	1.6	1.5
§§	§§	§§	§§	§§	1	143	49	26		353	600	660	724	723	856	1,320	1,398	1,375
	=4 -		00.		<u> </u>	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
655	714 9.1	887	834	606	477	624	554	419		315	283	315	305	271	258	245	221	219
8.4 1,095	9.1	11.3 871	10.9 755	8.4 525	6.7 486	8.6 589	7.4 508	5.6 §§	4.8 §§	3.9 §§	3.4 §§	3.8 §§	3.6 §§	3.2 §§	3.0 §§	2.9 §§	2.6 §§	2.6 §§
14.0	12.1	11.1	9.9	7.3	6.8	8.1	6.8	39	39	38	39	33	33	23	33	38	23	33
2,091	1,947	1,730	1,239	926	812	880	394	493	792	712	735	719	731	755	798	752	832	821
26.8	24.9	22.0	16.2	12.8	11.4	12.1	5.2	6.6				8.6	8.7	8.9	9.3	8.8	9.6	9.8
<i>7</i> 11	908	680	641	711	603	600	599	514	483	477	509	557	550	565	552	525	565	562
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
366	592	992	1,663	1,700	1,763	1,902	1,815	778	624	549	528	440	343	353	379	362	298	311
4.7	7.6	12.6	21.7	23.5	24.7	26.2	24.1	10.4		6.8	6.4	5.3	4.1	4.2	4.4	4.2	3.5	3.7
§§	§§	946 10.9	1,062	699	696	504	161	151 2.0	232	212	247	241	227	253	265	259	245	296
	§§	10.9 §§	13.9 §§	9.7 §§	9.7 §§	6.9 §§	2.0 84	115		2.6 400	3.0 626	2.9 696	2.7 740	3.0 789	3.1 1,079	3.0 1,100	2.8 1,116	3.5 1,195
99	99	98	98	99	98	88	1.2	1.5		4.9		8.3	8.8	9.3	1,079	12.9	1,116	1,195
§§	§§	§§	§§	§§	§§	§§	269	243			171	166	180	182	167	157	161	174
33	33	33	33	33	,,,	33	3.7	3.3		1.9		2.0	2.1	2.1	2.0		1.9	2.1

Table M14. Alcohol-attributable Deaths Due to Excessive Alcohol Use, Age ≥ 20 Years\*, New York City, 2016-2018

		2016			2017			2018	
Total for All Causes	Total†	Male	Female	Total†	Male	Female	Total†	Male	Female
	1,959	1,414	545	2,120	1,500	620	2,036	1,458	578
Chronic Causes*									
Acute pancreatitis	12	6	6	11	6	4	11	7	5
Alcohol abuse	68	58	10	57	49	8	112	88	24
Alcohol cardiomyopathy	9	7	2	6	5	1	9	8	1
Alcohol dependence syndrome	194	157	37	167	128	39	124	93	31
Alcohol-induced chronic pancreatitis	1	1	-	-	-	-	1	1	
Alcoholic gastritis	-	-	-	-	-	-	1	1	-
Alcoholic liver disease	369	276	93	424	313	111	398	309	89
Alcoholic psychosis	4	3	1	4	2	2	50	40	10
Breast cancer (females only)	12	-	12	17	-	17	14	-	14
Chronic hepatitis	< 1	< 1	< 1	< 1	-	< 1	< 1	-	< 1
Chronic pancreatitis	4	3	2	3	1	2	3	3	-
Epilepsy	5	2	2	6	4	2	7	3	4
Esophageal cancer	7	5	2	10	8	2	6	4	1
Esophageal varices	1	< 1	1	2	< 1	2	< 1	-	< 1
Fetal alcohol syndrome	-	-	-	1	-	1	-	-	-
Gastroesophageal hemorrhage	1	1	-	< 1	< 1	-	2	1	1
Hypertension	91	41	49	139	64	75	100	38	62
Ischemic heart disease	20	11	9	32	17	15	22	10	12
Laryngeal cancer	5	4	1	6	5	1	4	3	1
Liver cancer	34	23	11	47	32	15	31	19	12
Liver cirrhosis unspecified	84	45	40	98	47	51	95	52	43
Low birth weight prematurity IUGR‡ death	3	1	1	4	2	2	2	1	1
Oropharyngeal cancer	7	5	1	11	8	3	6	4	2
Portal hypertension	< 1		< 1	1	< 1	< 1	4	4	
Prostate cancer (males only)	4	4		6	6	- ' '	< 1		< 1
Psoriasis	< 1		< 1	_	_	_	` .	_	
Stroke hemorrhagic	24	20	4	39	30	9	25	19	6
Stroke ischemic	10	7	3	11	7	4	11	8	4
Supraventricular cardiac dysrhythmia	3	1	2	5	2	3	3	1	2
Subtotal	972	681	290	1107	738	369	1043	716	326
Acute Causes	372	001	250	1107	7.50	303	1013	710	320
Alcohol poisoning	75	56	19	76	64	12	53	45	8
Aspiration	4	3	1	3	3	< 1	4	3	1
Child maltreatment	3	1	2	2	1	1	3	2	1
Drowning	2	2	_	4	3	1	7	4	2
Fall injuries	142	87	55	159	94	65	156	96	61
Fire injuries	16	10	6	23	13	10	28	13	14
Firearm injuries		-	_			-	< 1	< 1	
Homicide	163	134	29	134	107	27	139	116	23
Hypothermia	3	3		4	3	1	8	6	3
Motor-vehicle nontraffic crashes	3	_	_		_		< 1	< 1	
Motor-vehicle traffic crashes	70	54	15	67	59	8	60	50	11
Occupational and machine injuries	1	1	13	0/	39	0	1	1	11
Other road vehicle crashes	5	4	< 1	5	5	< 1	5	4	1
Poisoning (not alcohol)	385	297	89	407	320	88	401	307	94
Suicide	120	82	38	129	92	36	128	94	34
Suicide by and exposure to alcohol	120	02	30	129	92	36	120	94	34
Water transport	< 1	< 1	-	< 1	< 1	-	< 1	< 1	
Subtotal	988	732	255	1013	763	251	994	742	252
Note: Alcohol prevalence data are provided by the Burea							994	/42	

Note: Alcohol prevalence data are provided by the Bureau of Epidemiology Services. The definition of alcohol consumption levels was changed in 2014. See Technical Notes: Deaths, Alcohol and Smoking Attributable Mortality. 2017 data were revised slightly due to a

glitch fix in the CDC Alcohol Related Disease Impact (ARDI) website.

\* 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. ‡ IUGR – Intrauterine growth restriction.

Table M15. Smoking-attributable Deaths and Age-adjusted Death Rates, Age ≥ 35 Years, New York City, 2015-2018

			20	2015					2016	9		Г			2017			_			2018			
Disease Category				Age-adjusted (per 100,0	e-adjusted Ra (per 100,000	Rates				Age-ad (per	Age-adjusted Rates (per 100,000	tes				Age-adj (per	Age-adjusted Rates (per 100,000	ıtes				Age-adju (per 1	Age-adjusted Rates (per 100,000	s
		Deaths		Po	Population)		_	Deaths		Pok	Population)		]	Deaths		Pop	Population)		ď	Deaths		Popu	Population)	
	Male	Male Female Total	Total	Male Female	-emale	Total	Male	Female	Total	Male F	Male Female Total	H	Male F	Female <sup>-</sup>	Total	Male Fe	Female 1	Total	Male Fer	Female T	Total	Male Fer	Female To	Total
Total	4,657	3,390	8,047	242.9	127.3	176.3	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	666'2	223.7	118.8	163.1
Cerebrovascular disease	63	57	121	3.5	2.2	2.7	54	55	109	2.8	2.0	2.4	70	62	132	3.5	2.1	2.7	99	89	134	3.3	2.3	2.7
Chronic obstructive pulmonary disease (ages ≥ 65)	200	265	1,065	29.6	21.3	24.5	424	529	953	24.1	19.6	21.4	464	593	1,088	26.6	20.5	22.8	502	277	6/0′1	26.3	19.8	22.4
Coronary heart disease	1,542	1,113	2,655	80.3	47.4	29.0	1,322	1,073	2,395	8.99	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
Diabetes mellitus	62	31	93	3.1	1.1	2.0	54	33	98	5.6	1.2	1.8	63	32	95	2.9	Ξ	1.8	29	31	8	2.7	11	1.7
Influenza, pneumonia, Tuberculosis, and COPD (ages 35-64)	190	126	316	7.7	4.6	0.9	197	121	318	7.9	4.3	0.9	167	123	290	8.9	4.3	5.5	186	128	314	7.6	4.6	0.9
Influenza, pneumonia, and tuberculosis (ages ≥ 65)	174	93	267	1.01	3.5	6.1	157	92	233	8.8	2.8	5.2	183	83	266	9.8	2.9	2.6	184	06	274	9.7	3.1	5.7
Lung cancer	1,177	925	2,102	61.0	34.3	45.3	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
Other cancers	616	259	875	31.7	9.5	18.7	929	247	822	28.7	8.9	17.2	699	263	932	32.7	0.6	18.8	902	251	856	29.4	9.8	17.3
Other cardiovascular diseases (ages 35-64)*	203	89	271	9.8	2.7	5.5	180	26	237	7.8	2.2	4.9	205	64	269	8.7	2.4	5.4	199	29	366	9.8	2.7	5.5
Other heart disease (ages $\geq$ 65)†	74	87	161	4.2	3.3	3.7	51	77	128	2.8	2.9	5.9	70	98	156	3.7	3.0	3.3	70	82	152	3.7	2.8	3.2
Other vascular diseases (ages ≥ 65)‡	57	65	121	3.2	2.5	2.8	09	99	125	3.2	2.4	2.8	70	22	127	3.7	2.0	2.7	63	99	129	3.3	2.3	2.7
Note: Smoking prevalence rates are from the New York City Community Health Survey and calculated by	y Commun	nity Health	Survey a	nd calculate	ed by the	Bureau of	Epidemio	logy Servi	ces, New	York City	the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene.	nt of Heal	th and Me	ntal Hygie	ne.									

naver. Survaving prevarence rates are noninure new rork Cuty Community realin survey and carculated by the Bureau of Epidemiology Services, New York Cuty 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.

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

<sup>†</sup> Other heart diseases are comprised of rheumatic heart disease, pulmonary heart disease, and other forms of heart disease.

<sup>‡</sup> Other vascular diseases are comprised of atherosclerosis, aortic aneurysm, and other arterial diseases.

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

								ALL										
	JP& RACIAL/ETHNIC GROUP*	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	1983-2006	2007	2008	2009
ALL AGES	Total	75,642	1,115	1,073	933	832	766	609	579	523	483	432	369	331	57,706	711	702	603
	Puerto Rican	14,138	224	217	187	196	186	115	138	88	102	70	63	44	10,383	142	138	125
	Other Hispanic	6,735	103	118	105	72	46	37	34	43	29	54	43	42	5,487	76	84	71
	Asian & Pacific Islander	487	5	10	3	6	4	5	8	2	5	6	5	3	431	3	7	2
	Non-Hispanic White	18,860	143	129	90	100	94	80	73	62	50	45	45	48	16,401	103	104	68
	Non-Hispanic Black	31,593	625	583	537	449	421	359	311	298	277	231	201	180	21,940	377	356	329
	Other or Unknown	3,829	15	16	11	9	15	13	15	30	20	26	12	14	3,064	10	13	8
0-24	Total	2,396	21	17	15	8	16	13	8	9	8	7	2	2	1,315	10	7	6
	Puerto Rican	452	7	3	2	1	4	2	-	-	2	-	-	1	253	3	-	-
	Other Hispanic	264	5	-	3	-	-	2	-	-	1	-	1	-	162	4	-	
	Asian & Pacific Islander	14	-	-	-	1	-	-	-	-	-	-	-	-	9	-	-	
	Non-Hispanic White	360	1	1	3	-	-	-	1	2	1	-	-	-	220	1	1	2
	Non-Hispanic Black	1,174	8	13	7	6	12	9	7	7	4	7	1	1	605	2	6	4
	Other or Unknown	132	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	
25-34	Total	17,109	52	77	49	37	40	34	29	28	28	31	33	21	12,326	32	48	32
	Puerto Rican	3,535	8	8	7	11	2	3	5	4	5	3	2	-	2,466	3	5	6
	Other Hispanic	1,808	4	11	3	8	8	6	4	3	2	3	5	3	1,439	4	10	2
	Asian & Pacific Islander	92	1	-	1	-	2	1	-	-	1	1	2	1	78	-	-	
	Non-Hispanic White	4,063	3	6	5	1	3	1	2	1	1	-	2	2	3,383	2	4	5
	Non-Hispanic Black	6,715	35	52	33	17	25	23	17	19	18	24	21	14	4,287	22	29	19
	Other or Unknown	896	1	-	-	-	-	-	1	1	1	-	1	1	673	1	-	
35-44	Total	31,631	311	246	190	142	125	90	73	60	64	54	46	33	24,242	177	144	111
	Puerto Rican	5,769	64	57	45	34	28	17	22	12	8	7	4	6	4,293	41	30	26
	Other Hispanic	2,664	27	37	28	19	8	4	3	7	5	10	5	6	2,179	17	23	16
	Asian & Pacific Islander	195	2	3	1	-	1	2	3	1	3	1	2	-	181	1	3	1
	Non-Hispanic White	8,307	46	34	18	16	12	15	7	10	4	5	5	-	7,237	32	22	12
	Non-Hispanic Black	13,103	168	113	98	71	76	49	37	28	40	30	30	18	9,076	83	65	56
	Other or Unknown	1,593	4	2	-	2	-	3	1	2	4	1	-	3	1,276	3	1	
45-54	Total	17,364	448	425	352	330	287	217	215	167	143	106	96	83	13,921	289	275	225
	Puerto Rican	3,210	84	89	65	85	75	46	55	34	38	16	13	13	2,463	58	56	51
	Other Hispanic	1,361	43	46	46	29	15	14	14	16	9	13	17	9	1,165	32	33	35
	Asian & Pacific Islander	122	-	5		3	-	-	1	1	1	1	-	-	112	-	3	
	Non-Hispanic White	4,340	61	45	35	37	41	28	28	16	15	11	14	9	3,931	40	37	25
	Non-Hispanic Black	7,459	256	231	200	173	150	123	111	87	76	58	45	48	5,496	156	139	111
	Other or Unknown	872	4	9	6	3	6	6	6	13	4	7	7	4	754	3	7	3
55-64	Total	5,531	213	231	241	239	213	169	172	174	141	150	117	116	4,621	154	173	164
	Puerto Rican	960	39	49	49	51	54	34	42	24	33	25	25	10	746	23	38	30
	Other Hispanic	488	18	15	18	11	9	5	11	13	4	21	11	16	416	13	13	12
	Asian & Pacific Islander	46	1			2		2	3		_	1		1	38	1		
	Non-Hispanic White	1,378	22	32	21	36	30	24	21	20	16	15	17	27	1,271	19	30	17
	Non-Hispanic Black	2,397	128	131	150	136	112	101	92	106	80	78	61	58	1,919	96	88	102
	Other or Unknown	262	5	4	3	3	8	3	3	11	8	10	3	4	231	2	4	3
≥65	Total	1,610	70	77	86	76	85	86	82	85	99	84	75	76	1,280	49	55	65
	Puerto Rican	212	22	11	19	14	23	13	14	14	16	19	19	14	162	14	9	12
	Other Hispanic	150	6	9	7	5	6	6	2	4	8	7	4	8	126	6	5	6
	Asian & Pacific Islander	18	1	2	1	3	1	3	1	-7	3	2	1	1	13	1	1	1
	Non-Hispanic White	412	10	11	8	10	8	12	14	13	13	14	7	10	359	9	10	7
	Non-Hispanic Black	745	30	43	49	46	46	54	47	51	59	34	43	41	557	18	29	37
	Other or Unknown	743	1	1	2	1	1	1	4/	3	3	8	1	2	63	10	1	2

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.

### New York City, 1983-2018

				MALE										FI	MALE						
2010	2011	2012	2013	2014	2015	2016	2017	2018	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
574	528	402	398	359	332	296	249	230	17,936	404	371	330	258	238	2072	181	164	151	136	120	101
135	123	75	94	56	68	50	44	31	3,755	82	79	62	61	63	40	44	32	34	20	19	13
54	39	28	28	36	19	44	34	30	1,248	27	34	34	18	7	9	6	7	10	10	9	12
3	2	4	5	1	3	6	4	3	56	2	3	1	3	2	1	3	1	2	-	1	
76	75	63	53	50	40	36	34	33	2,459	40	25	22	24	19	17	20	12	10	9	11	15
297	277	223	204	196	185	140	124	122	9,653	248	227	208	152	144	136	107	102	92	91	77	58
9	12	9	14	20	17	20	9	11	765	5	3	3	.52	3	4	1	10	3	6	3	3
4	13	6	6	7	5	2	1	2	1,081	11	10	9	4	3	7	2	2	3	5	1	3
- :	2	-	_	- 1	2		- 1	1	199	4	3	2	1	2	2	-		_	-		_
	-	1	_		-	_	1	- 1	102	1	_	3	- 1		1	_	_	1	_	_	_
1	_	- 1	_	_	_	_	- 1	_	5		_	_	_	_	- :	_	_		_	_	_
	_	_	_	2	1	_	_	_	140	_	_	1	_	_		1	_		_	_	_
3	11	5	6	5	2	2	_	1	569	6	7	3	3	1	4	1	2	2	5	1	_
		-	- 1				_	- 1	66	-	- 1	-	-	- 1	- 1	- 1	- 1				_
27	29	24	27	17	21	24	22	15	4,783	20	29	17	10	11	10	2	11	7	7	11	6
7	2	2	5		2	2	1	-	1,069	5	3	1	4	-	1		4	3	1	1	-
6	7	5	4	3	2	3	4	2	369	-	1	1	2	1	1	-	- 1	-		1	1
-	1	1	-	-	1	1	2	1	14	1	-	1	-	1	-	-	-	-	-		-
1	2	1	1	1	1	_	1	2	680	1	2	_	-	1	-	1	_	-	_	1	_
13	17	15	16	12	14	18	14	9	2,428	13	23	14	4	8	8	1	7	4	6	7	5
_	_		1	1	1		_	1	223			_	-			-	_	-		1	
94	77	54	45	33	32	31	29	19	7,389	134	102	79	48	48	36	28	27	32	23	17	14
20	17	10	10	4	6	6	3	4	1,476	23	27	19	14	11	7	12	8	2	1	1	2
14	8	1	3	5	2	8	4	4	485	10	14	12	5	-	3	-	2	3	2	1	2
_		1	1		1	1	2	-	14	1	_	_	-	1	1	2	1	2	_	_	_
11	10	13	3	7	1	4	5	-	1,070	14	12	6	5	2	2	4	3	3	1	-	-
47	42	28	27	16	20	12	15	9	4,027	85	48	42	24	34	21	10	12	20	18	15	9
2	-	1	1	1	2	-	-	2	317	1	1	-	-	-	2	-	1	2	1	_	1
219	183	136	140	115	97	63	62	52	3,443	159	150	127	111	104	81	75	52	46	43	34	31
62	43	29	38	22	25	10	9	5	747	26	33	14	23	32	17	17	12	13	6	4	8
20	12	12	10	13	7	11	13	7	196	11	13	11	9	3	2	4	3	2	2	4	2
1	-	-	1	1	1	1	-	-	10	-	2	-	2	-	-	-	-	-	-	-	-
28	30	22	20	13	11	8	11	7	409	21	8	10	9	11	6	8	3	4	3	3	2
105	95	69	65	55	50	28	24	30	1,963	100	92	89	68	55	54	46	32	26	30	21	18
3	3	4	6	11	3	5	5	3	118	1	2	3	-	3	2	-	2	1	2	2	1
179	159	120	118	130	103	109	84	88	910	59	58	77	60	54	49	54	44	38	41	33	28
38	41	25	33	21	20	19	19	9	214	16	11	19	13	13	9	9	3	13	6	6	1
10	7	4	10	11	1	16	8	13	72	5	2	6	1	2	1	1	2	3	5	3	3
1	-	2	2	-	-	1	-	1	8	-	-	-	1	-	-	1	-	-	-	-	-
28	25	19	16	18	15	12	12	17	107	3	2	4	8	5	5	5	2	1	3	5	10
99	78	67	54	75	59	54	42	44	478	32	43	48	37	34	34	38	31	21	24	19	14
3	8	3	3	5	8	7	3	4	31	3	-	-	-	-	-	-	6	-	3	-	-
51	67	62	62	57	74	67	51	54	330	21	22	21	25	18	24	20	28	25	17	24	22
8	18	9	8	9	13	13	12	12	50	8	2	7	6	5	4	6	5	3	6	7	2
4	5	5	1	4	7	6	4	4	24	-	4	1	1	1	1	1	-	1	1	-	4
-	1	-	1	-	-	2	-	1	5	-	1	-	-	-	-	-	-	-	-	1	-
8	8	8	13	9	11	12	5	7	53	1	1	1	2	-	4	1	4	2	2	2	3
30	34	39	36	33	40	26	29	29	188	12	14	12	16	12	15	11	18	19	8	14	12
1	1	1	3	2	3	8	1	1	10	-	-	-	-	-	-	1	1	-	-	-	1

Table M17. Selected Characteristics of Deaths Due to Fatal Occupational Injuries, New York City, 2018\*

			S	elected event o	or exposure†‡		
Characteristics	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	73	11	12		17	12	19
Selected Industries							
Government§ (Federal, State, Local)	10				5		
Private industry§	63	10	11		12	11	19
Goods producing	26				7	4	12
Construction & Manufacturing	22				7	3	11
Service providing	37	9	9		5	7	7
Trade, transportation, and utilities	17	4	7				4
Financial activities							
Professional and business services	6						
Educational and health services	5						
Leisure and hospitality	4	3					
Other services, except public adminstration							
Sex							
Female	9				5		
Male	64	9	12		12	12	18
Race or ethnic origin							
Non-Hispanic White	21	6	4		4	3	3
Non-Hispanic Black	13				5	4	
Hispanic	25	5	3		4	3	10
Asian	11		3		4		3
Age Group							
<25 years							
25-34 years	14		4			3	3
35-44 years	8				4		
45-54 years	18	4			4	3	5
55-64 years	16		3		4	3	3
>65 years	14				5		5

 $<sup>*</sup>Source: Bureau \ of \ Labor \ Statistics: Fatal \ Occupational \ Injuries \ in \ New \ York \ City \ https://www.bls.gov/iif/oshwc/cfoi/tgs/2018/iiffw68.htm$ 

§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.

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

<sup>‡</sup>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.

Table M18. Deaths Due to Accidents, Overall and by Age Group and Sex, New York City, 2018

		_	0-4	2-9	9	10-14	4	15-19	9	70-74	4.	25-34	4	35-44	_	45-54		55-64	_	65-74	_	ر ا
Туре	All Ages		Male Female	Male Ferr	Female	Male	Female	Male F	Female	Male F	Female	Male Fe	Female /	Male Fe	Female N	Male Fen	Female M	Male Fe	Female 1	Male Fe	Female	Male Female
Total	2,415	5	9	3	4	3	-	13	9	59	23	286	74	262	52	357	121	342	124	169	92	230
Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist	32	,		1	1	'	1	1	1	-	-	4	1	80	2	3	'	4	-	3	7	1
Injury to Pedestrians	142		_	2	-	1	1	-	-	-	-	12	4	80	3	12	2	20	6	16	80	16
Collision with motor vehicle	124	_	_	2	-	'	1	1	-	-	1	9	3		3	6	2	17	6	15	80	15
Collision with railway transportation	17	Ĺ	-	'	-	1	1	-	1	1	-	9	-	-	-	3		3	•	1	•	-
Other collision		Ľ		'	'	'	1	'	'	'	'	'	1	1	'	'	'	'	'	-	1	'
Injury to Pedal Cyclist	18			'		-	1	1	'	2	2	'	1	3	1	4	1	4	'	2	'	
Collision with motor vehicle	1	Ľ		ľ	'	-	'	'	'	-	-	'	'	-	'	3	'	e	'	-	'	'
Other collision	_			'	1	1	1	1	1	-	-	1	1	2	-	-	1	-	1	-	1	1
Injury to Motorcyclist	36			-		'	1	1	'	4	-	15	-	9	•	9	1	1	'	1	1	7
Water Transport Accidents	2	Ľ		'	'	'	1	'	'	'	'	2	1	1	'	'	'	'	'	'	1	'
Air and Space Transport Accidents	0	Ė		'		'	1	1	1	'	'	'	1	1	'	'	1	1	'	1	1	1
Other Transport Accidents	17			'	'	'	'	-	-	2	'	4	-	2	'	'		7	7	'	'	7
Sequelae (Late Effects) of Transport Accidents	=	Ĺ		1	1	1	1	1	1	-	1		1	7	-	7	-	7	'	7	1	-
Fall	489	_		1	1	1	1	-	-	2	-	12	2	12	2	16	80	37	15	52	23	167
Firearm Discharge	_	Ė		1	1	1	1	-	1	1	•	1	1	1	•	•	•	1	1	1	•	-
Drowning and Submersion	21	Ĺ	1	1	1	-	1	-	•	-	-	2	2	-	2	-	•	33	-	1	-	-
Smoke, Fire, and Flames	70	·	-	1	2	1	-	1	-	-	•	-	2	4	-	2	9	^	3	80	80	6
Poisoning by Noxious Substances	1,434	_	-	'	1	1	1	_	2	43	16	218	26	206	40	292	105	251	84	20	27	15
Poisoning by psychoactive substances*	1,375			'		1	1	9	2	4	16	208	26	191	39	282	102	241	83	89	24	4
Poisoning by other noxious substances	59	Ĺ		1	1	1	1	-	•	2	1	10	1	15	-	10	3	10	-	7	3	<del>-</del>
Exposure to Excessive Natural Heat	4	Ė	-	1	1	1	1	1	1	1	1	1	1	2	1	•	•	1	1	-	1	1
Exposure to Excessive Natural Cold	21			'	1	1	1	1	'	1	1	•	1	-	1	3	•	33	1	3	4	4
Suffocation	20	3	4	1	_	-	1	1	1	-	1	2	9	-	-	4	•	2	3	9	3	2
Contact with Machinery	2		1	1	1	1	1	-	1	1	1	1	1	2	1	-	•	<del>-</del>	1	1	1	1
Other Nontransport Accidents	46		-	'	1	1	1	1	'	1	1	10	1	3	1	7	•	4	4	4	1	2
Sequelae (Late Effects) of Nontransport Accidents	91			'		1	1	1	1	1	1	1	'	-	-	4	•	7	7	7	1	c

Table M19. Deaths Due to Intentional Self-harm (Suicide), Overall and by Age Group and Sex, New York City, 2018

			4	٠.)	5-9	10-1	4	15-19		20-24		25-34		35-44	_	45-54		55-64	_	65-74		711
Method	All Ages	s Male	Female	All Ages Male Female Male	Female	Male	Female	Male Fer	Female N	Male Fer	Female M	Male Ferr	Female Ma	Male   Ferr	Female M	Male Female	ale Male	e Female	e Male	Female	e Male	l a)
Total	562		0	0	0	2	3	12	8	29	10	71	31	65	21	99	23 10	101	29 2	29 1	14 37	
Poisoning by Drug and Medicinal Substances	84	4	_	Ĺ	'	'	-	-	-	3	-	3	8	9	2	6	7	5	_	_	9	2
Poisoning by Other Substances	7	^			'	'	1	-	'	'	1	'	-	-	-	-	-	2		_		
Hanging, Strangulation, and Suffocation	198	3			'	-	-	4	3	10	7	76	4	22	10	24		35 1	0	_	1	_
Drowning and Submersion	26	5			'	'	1	'	-	2	7	-	-	9	'	2	2	2	_	2	2	- 1
Firearm Discharge	26	5			'	'	1	'	•	-	-	8	-	6	-	8	-	4	2	4	_	6
Sharp Object	18	33			'	'	1	'	'	'	'	c	-	7	-	2	-	5		3	_	_
Blunt Object	0	0				'		•	•	1	•	•	•		1					_	_	-
Jumping From High Place	117	^				-	7	7	<b>,</b>	10	3	15	_	17	4	4	9	_	4	4	2	9
Jumping or Lying Before Moving Object	48	33			'	1	'	4	-	3	-	4	-	7	3	3	_	6	_	2	_	3
Other and Unspecified Means	5	10			'	'	1	'	-	'	'	'	-	-	'	'	-	2				T
Sequelae (Late Effects)	3	3		ĺ		'	1	1	•	'	•	-	•	•	•	1			_	_		_

Table M20. Deaths Due to Assault (Homicide) and Legal Intervention, Overall and by Age Group and Sex, New York City, 2018

		<u></u>	0-4	2-9		10-14	15-19	20-24	2	25-34	35-44	4	45-54	_	55-64		65-74	711	≥75
Method	All Ages	All Ages Male Female	Female	Male Female		Male Female	Male Female	e Male Female		Male Female	Male Female	emale	Male Female		Male Female		Male Female	L	Male Female
Total	317	10	4	2	0	0 0	28	2 31	5 82	2 9	14	7	35	15	41	8	15	3	5
Poisoning by Noxious Substances		_	-	-		'	-	'		_	-	-	-	-	-		-	_	
Hanging, Strangulation, and Suffocation	0	, 2	'	1	,	'	-	1	_	- 2	-	-	'	1	'	7		_	-
Drowning and Submersion	0	_	1	1	-	1	1	1	-	1	1	1	•	•	-	-		_	
Firearm Discharge	158					1	19	1 20	3 61	1 2	23	3	6	2	2	<del>-</del>	2	_	
Smoke, Fire, and Flames	4	1	'	1		1	•	•	,	_	'	1	-	-	-	,		1	_
Sharp Object	72		'	1	-	'	9	1 10	-	14 2	10	-		9	3	4	9	_	
Blunt Object	0			1		1	•	•	_	'	'	1	'		'	,			
Pushing From High Place	3	_	ľ	-	,	1	'	1			1	1	-						
Bodily Force	4		ľ	1	,	1	'	1			1	1	3						_
Neglect, Abandonment, and Other Maltreatment		3	2	1		'	•	1	_	'	'	1	'	'	'	-	-	-	
Other and Unspecified Means	38	3	_	1	-	'	-	-	1	1	4	-	80	-	4	-	4	_	2
Sequelae (Late Effects)	15		'	1		'	1	1		-	4	-	4		-	,	2	_	
Legal Intervention, All*	9	1	'	1		1	-	•		'	'	1	e	-	'	,	-		

Table M21. Deaths Due to Events of Undetermined Intent, Overall and by Age Group and Sex, New York City, 2018

		0-4	4	2-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64	_	65-74	711	≥75
Method	All Ages	Male	Female	All Ages Male Female Male Female	-	Male Fe	Female 1	Male Fe	Female N	Aale Fer	Female N	Male   Fer	Female M	Male   Fer	Female Ma	Male Female	ile Male	le Female	e Male	e Female	Male	Female
Total	736	27	14	0	0	-	0	4	0	9	2	30	11	35	11	. 28	10	43 1.	7	61	1.	5 11
Poisoning by Noxious Substances	28	-		-	-	-	-	-	-	-	-	2	4	4	1	-	3	4	3	-	_	2 1
Hanging, Strangulation, and Suffocation	2	-	_	•	1	1	1	•	1	_	•	•	1	•	•	•	-	•			_	1
Drowning and Submersion	12	_	-	•	1	1	'	-	1	7	1	2		33	-	-	-	-		-	_	-
Firearm Discharge	0	•	-	•	1	1	'	1	1	•	'	•	1	-	-	-	-					-
Smoke, Fire, and Flames	4	•		•	1	-	•	1	1	•	'	•	1	7	-	-		-				-
Sharp or Blunt Object				•	1	1	•	1	1		'	•	1	-	1			-				1
Falling From High Place	16			•	'	1	•	-	1	•	-	2	<del>-</del>	4	1	-	-	4	_	-		-
Other and Unspecified Means	228	26	14	•	1	1	1	2	1	7	33	24	2	22	10	26	9	30	3		1	1 10
Sequelae (Late Effects)	5			1	'	'	'	•	•	'	•	'	•	-	•	-	,	7		-		7

Table M22. Deaths Due to Complications of Medical and Surgical Care, Overall and by Age Group and Sex, New York City, 2018

		0-4	4	2-9	- 6	10-14	4	15-19	19	20-24	24	25-34	34	35-44	4	45-54	_	55-64		65-74		≥75
Method	All Ages Male Female Male Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male Fe	Female N	Male Female		Male Fe	Female N	Male Female
Fotal	37	-	0	0	0	0	0	-	0	-	0	0	-	3	-	3	-	2	3	3	4	9
Adverse Effects From Drugs, Medicaments, and Biological Substances for Therapeutic Use	7	-	'	'	'	'	'	-	'	'	'	'	-	-	'	7	'	'	'	'	'	'
Medical Misadventures to Patients During Surgical and Medical Care	2	-	'	1	1	'	1	'	1	1	1	1	'	1	1	1	1	1	1	'	-	-
Adverse Effects from Medical Devices for Therapeutic Use	0	-	'	'	'	'	'	'	'	1	'	1	'	'	'		'	'	1	'	'	'
Other and Unspecified Means	28		'	1	1	1	1	1	1	<del>-</del>	'	1	1	2	-	-	-	2	3	3	3	2
Sequelae (Late Effects)	0	'	'	1	1	1	'	1	1	'	'	'	1	'	1	'	1	1	'	1	'	-

Table M23. Deaths Due to Firearms (All Causes), Overall and by Age Group and Sex, New York City, 2018

nale N
15-19         20-24         25-34         3.           Aale         Female         Male         Female         Male         Male
5-19 20-24 Female Male Female
Femal
ıΙΣΙ
10-14 Male Female
5-9 Male Female
0-4 Male Female
All Ages

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

		INC	W TOIK City,	, 1999-2001		.011		
Event Age in		1000	-2001†	A	II	200	9-2011	
Exact Age in Years		1999		N. 11: :		200		N. 111 .
	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	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	<i>77</i> .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		14.5	17.0	17.8	16.7	16.0
			15.1					
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
				Ma	ıle		<u>'</u>	
Exact Age in		1999	-2001†	1710		2009	9-2011	
Years	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	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		44.5	44.9	44.9	40.8
				37.2				
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
				Fem	iale			
Exact Age in		1999	-2001†			2009	9-2011	
Years	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	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
		34.5					34.8	
50	32.6		32.6	30.3	34.9	36.2		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.

<sup>\*</sup> US Census population data for 2000 and 2010 are used to calculate 1999-2001 and 2009-2011 life expectancy, respectively. See Technical Notes: Population.

<sup>+</sup> 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, 2009-2018

Age in					To	otal				
years	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
0	80.6	80.9	80.9	81.1	81.1	81.3	81.2	81.2	81.2	81.3
1	80.0	80.3	80.3	80.5	80.4	80.6	80.5	80.5	80.6	80.6
5	76.1	76.3	76.3	76.5	76.5	76.6	76.6	76.5	76.6	76.6
10	<i>7</i> 1.1	71.4	71.4	71.6	71.5	71.7	71.6	71.6	71.7	71.7
15	66.2	66.4	66.4	66.6	66.6	66.8	66.7	66.6	66.7	66.7
20	61.3	61.6	61.5	61.7	61.6	61.8	61.7	61.7	61.8	61.8
25	56.4	56.7	56.7	56.9	56.8	57.0	56.9	56.8	56.9	56.9
30	51.6	51.9	51.9	52.0	51.9	52.1	52.1	52.0	52.1	52.1
35	46.8	47.1	47.1	47.2	47.1	47.3	47.3	47.2	47.3	47.3
40	42.0	42.3	42.3	42.5		42.6	42.5		47.3	42.5
					42.4			42.5		
45	37.4	37.6	37.6	37.8	37.7	37.9	37.8	37.8	37.9	37.9
50	33.0	33.1	33.2	33.3	33.1	33.3	33.2	33.2	33.3	33.3
55	28.7	28.8	28.8	28.9	28.8	28.9	28.9	28.9	28.9	28.8
60	24.6	24.7	24.7	24.7	24.6	24.7	24.6	24.7	24.6	24.6
65	20.6	20.8	20.7	20.7	20.6	20.7	20.6	20.6	20.6	20.5
70	16.9	17.0	17.0	17.0	16.9	17.0	16.9	17.0	16.9	16.8
75	13.4	13.5	13.4	13.5	13.4	13.6	13.5	13.6	13.6	13.4
80	10.2	10.3	10.3	10.4	10.4	10.5	10.5	10.6	10.6	10.6
85	7.5	7.5	7.4	7.5	7.4	7.5	7.4	7.6	7.6	7.5
										7.5
Age in	2022	2012	2011	0010		ale	2015	2011	2017	00/-
years	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
0	77.8	78.1	78.2	78.4	78.3	78.5	78.6	78.5	78.5	78.6
1	77.3	77.5	77.6	77.8	77.7	77.9	77.9	77.8	77.9	77.9
5	73.3	73.6	73.6	73.9	73.8	74.0	74.0	73.8	73.9	74.0
10	68.4	68.6	68.7	68.9	68.8	69.0	69.0	68.9	69.0	69.0
15	63.4	63.6	63.8	64.0	63.9	64.1	64.1	63.9	64.0	64.1
20	58.6	58.8	58.9	59.1	59.0	59.2	59.2	59.0	59.1	59.2
25	53.8	54.1	54.2	54.3	54.2	54.4	54.4	54.2	54.3	54.4
30	49.1	49.3	49.4	49.6	49.4	49.6	49.6	49.4	49.6	49.6
35	44.3	44.5	44.6	44.8	44.6	44.9	44.9	44.7	44.9	44.9
40	39.6	39.8	39.9	40.1	39.9	40.2	40.2	40.1	40.3	40.2
45	35.0	35.2	35.3	35.5	35.3	35.5	35.5	35.5	35.6	35.6
50	30.7	30.8	30.9	31.1	30.9	31.1	31.0	31.0	31.1	31.1
55	26.6	26.7	26.7	26.9	26.6	26.8	26.8	26.7	26.8	26.8
60	22.6	22.7	22.8	22.8	22.6	22.8	22.7	22.7	22.7	22.7
65	18.9	19.0	19.1	19.1	18.8	19.0	18.8	18.8	18.8	18.8
70	15.4	15.5	15.5	15.6	15.4	15.6	15.5	15.5	15.4	15.3
75	12.2	12.2	12.3	12.3	12.2	12.4	12.2	12.3	12.3	12.2
80	9.3	9.3	9.4	9.4	9.4	9.5	9.5	9.6	9.5	9.5
85	6.8	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.8	6.7
ige in					_	nale				
years	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
0	83.0	83.3	83.2	83.4	83.4	83.6	83.5	83.5	83.6	83.6
1	82.3	82.7	82.6	82.7	82.7	82.9	82.8	82.8	83.0	82.8
5	78.4	78.7	78.6	78.8	78.8	79.0	78.8	78.9	79.0	78.9
10	73.4	73.8	73.7	73.8	73.8	74.0	73.9	73.9	74.0	73.9
15	68.5	68.8	68.7	68.9	68.9	69.0	68.9	68.9	69.1	69.0
20	63.5	63.9	63.8	63.9	63.9	64.1	63.9	64.0	64.1	64.0
25	58.6	58.9	58.9	59.0	59.0	59.2	59.0	59.1	59.2	59.1
30	53.7	54.0	53.9	54.1	54.1	54.3	54.1	54.2	54.3	54.2
35	48.8	49.1	49.1	49.2	49.2	49.4	49.3	49.3	49.4	49.3
40	44.0	44.3	44.2	44.4	44.4	44.6	44.5	44.5	44.6	44.5
45	39.3	39.6	39.5	39.6	39.6	39.8	39.7	39.8	39.8	39.7
50	34.8	35.0	34.9	35.0	35.0	35.1	35.1	35.1	35.1	35.0
55	30.4	30.5	30.5	30.5	30.5	30.6	30.5	30.6	30.6	30.5
60	26.0	26.2	26.1	26.2	26.1	26.2	26.2	26.2	26.1	26.0
65	21.9	22.0	21.9	22.0	21.9	22.0	21.9	22.0	21.9	21.7
70	17.9		18.0				17.9	18.0	17.9	
		18.1		18.0	18.0	18.0				17.8
75	14.2	14.4	14.2	14.3	14.3	14.3	14.3	14.5	14.4	14.2
80	10.8	10.9	10.8	11.0	11.0	11.1	11.1	11.2	11.3	11.2
85	7.8	7.8	7.7	7.8	7.8	7.9	7.8	8.0	8.0	8.0

Note: Population data from 2009 are interpolated based on 2000 and 2010 Census counts. Population data for 2011-2018 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, 2018

	All		Mal	e	Fema	le
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	428,236	100.0	265,359	100.0	162,877	100.0
Malignant Neoplasms	102,693	24.0	51,263	19.3	51,430	31.6
Trachea, bronchus, and lung	15,027	3.5	8,231	3.1	6,796	4.2
Breast	11,451	2.7	130	0.0	11,321	7.0
Colon, rectum, and anus	9,521	2.2	5,327	2.0	4,194	2.6
Pancreas	6,451	1.5	3,712	1.4	2,739	1.7
Liver & intrahepatic bile ducts	5,898	1.4	4,317	1.6	1,581	1.0
Heart Disease	72,864	17.0	48,592	18.3	24,272	14.9
Use of or Poisoning by Psychoactive Substance	42,083	9.8	32,072	12.1	10,011	6.1
Accidents Except Poisoning by Psychoactive Substance	16,325	3.8	12,265	4.6	4,060	2.5
Motor vehicle	5,188	1.2	4,090	1.5	1,098	0.7
Intentional Self-harm (Suicide)	15,884	3.7	11,423	4.3	4,461	2.7
Diabetes Mellitus	14,413	3.4	9,012	3.4	5,401	3.3
Assault (Homicide)	12,339	2.9	10,501	4.0	1,838	1.1
Chronic Lower Respiratory Diseases	9,172	2.1	4,591	1.7	4,581	2.8
Cerebrovascular Diseases	9,081	2.1	5,326	2.0	3,755	2.3
Influenza and Pneumonia	8,907	2.1	5,590	2.1	3,317	2.0
Chronic Liver Disease and Cirrhosis	8,752	2.0	6,657	2.5	2,095	1.3
HIV Disease	6,449	1.5	4,359	1.6	2,090	1.3
Mental and Behavioral Disorders Due to Use of Alcohol	6,285	1.5	4,762	1.8	1,523	0.9
Viral Hepatitis	1,769	0.4	1,166	0.4	603	0.4
All Other Causes	101,220	23.6	57,780	21.8	43,440	26.7

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

Table M27. Death Rates by Poverty Level Indicator, New York City, 2009 and 2018

	Lo	ow (< 109	%)	Mediu	m (10 to	< 20%)	High	(20 to <	30%)	Very	High (≥3	80%)
Age-adjusted Death Rates	2018	2009	Change 2009 to 2018 (%)	2018	2009	Change 2009 to 2018 (%)	2018	2009	Change 2009 to 2018 (%)	2018	2009	Change 2009 to 2018 (%)
All Causes	421.3	502.3	-16.1%	475.1	561.0	-15.3%	539.6	620.6	-13.1%	674.0	746.8	-9.7%
Premature Deaths	111.5	131.6	-15.3%	141.9	165.6	-14.3%	182.2	208.1	-12.4%	263.7	289.7	-9.0%
10 Leading Causes												
Diseases of Heart	137.4	200.7	-31.5%	161.4	228.5	-29.4%	176.7	244.3	-27.7%	205.0	255.8	-19.9%
Malignant Neoplasms	106.3	132.9	-20.0%	111.2	136.4	-18.5%	118.0	138.9	-15.0%	139.2	167.1	-16.7%
Influenza and Pneumonia	13.5	21.6	-37.5%	16.8	26.6	-36.8%	19.9	28.4	-29.9%	30.1	30.7	-2.0%
Diabetes Mellitus	11.7	12.3	-4.9%	16.9	17.5	-3.4%	24.0	25.9	-7.3%	31.4	32.3	-2.8%
Cerebrovascular Diseases	13.0	14.1	-7.8%	15.9	15.5	2.6%	18.5	16.6	11.4%	23.3	20.7	12.6%
Chronic Lower Respiratory Diseases Use of or Poisoning by Psychoactive	13.7	16.1	-14.9%	14.5	15.4	-5.8%	17.5	1 <i>7</i> .5	0.0%	24.2	23.5	3.0%
Substances	8.3	4.8	72.9%	11.2	5.8	93.1%	16.6	7.6	118.4%	27.9	13.4	108.2%
Essential Hypertension and Hypertensive Renal Diseases	8.6	7.8	10.3%	10.9	8.7	25.3%	14.8	12.6	17.5%	15. <i>7</i>	1 <i>7</i> .5	-10.3%
Alzheimer's Disease	9.6	6.2	54.8%	10.1	5.0	102.0%	11.3	4.6	145.7%	13.4	7.1	88.7%
Accidents Except Poisoning by Psychoactive Substances	8.5	9.9	-14.1%	9.2	10.8	-14.8%	10.7	10.3	3.9%	11.0	12.0	-8.3%

Note: The 2009 poverty level is based on the 2005-2009 US Census Bureau American Community Survey, and the 2018 poverty level is based on the 2013-2017 US Census Bureau American Community Survey.

M28. Leading Causes of Death, New York City, 2009, 2017 and 2018

	2	2018		2017			2009	
Cause	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to <b>2018</b> (%)	Rank	Crude Death Rate	Change to 2018 (%)
Diseases of Heart*	1	211.3	1	202.8	4.2%	1	239.4	-11.7%
Malignant Neoplasms	2	155.2	2	154.2	0.6%	2	157.1	-1.2%
Influenza and Pneumonia	3	23.9	3	22.6	5.8%	3	27.1	-12.0%
Diabetes Mellitus	4	23.4	4	20.9	12.0%	6	20.1	16.2%
Cerebrovascular Diseases	5	22.5	5	22.0	2.3%	4	17.3	30.4%
Chronic Lower Respiratory Diseases	6	21.2	6	20.5	3.4%	5	18.2	16.4%
Use of or Poisoning by Psychoactive Substance†	7	17.9	7	17.8	0.6%	10	8.3	115.2%
Essential Hypertension and Renal Diseases	8	15.1	8	14.1	7.1%	9	11.2	35.1%
Alzheimer's Disease	9	14.2	9	12.9	10.1%	16	6.2	129.2%
Accidents Except Drug Poisoning	10	12.4	10	12.2	1.6%	8	12.0	3.7%

<sup>\*</sup>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.

<sup>†</sup>Appendix B Technical Notes: Drug-Related Deaths.

Table IM1. Infant Deaths by Cause, Sex, and Age, New York City, 2018

			Ma	ale	Fen	nale
			Neonatal	Post-	Neonatal	Post-
	Cause of Death (ICD-10 Codes)	Total	(<28 Days)	Neonatal	(<28 Days)	Neonatal
	Total	446	164	103	114	65
1	HIV Infection (B20-B24)*	-	-	-	-	-
2	Diseases of the Circulatory System (I00-I99)*	12	1	7	1	3
3	Influenza and Pneumonia (J10-J18)*	7	-	7	-	-
4	Newborn Affected by Maternal Complications of Pregnancy (P01)*	17	11	-	5	1
5	Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)*	10	6	1	2	1
6	Short Gestation and Low Birthweight (P07)*	73	39	3	29	2
7	Intrauterine Hypoxia and Birth Asphyxia (P20-P21)*	3	2	-	1	-
8	Respiratory Distress of Newborn (P22)*	6	2	-	4	-
9	Pulmonary Hemorrhage Originating in the Perinatal Period (P26)*	3	3	-	-	-
10	Atelectasis (P28.0-P28.1)*	1	-	-	1	-
11	Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)†	5	1	2	1	1
12	Cardiovascular Disorders Originating in the Perinatal Period (P29)†	53	31	1	21	-
13	Infections Specific to the Perinatal Period (P35-P39)†	15	8	1	6	-
	Bacterial sepsis of newborn (P36)	12	6	-	6	-
14	Neonatal Hemorrhage (P50-P52, P54)*	4	3	-	1	-
15	Necrotizing Enterocolitis of Newborn (P77)*	4	2	-	1	1
16	Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)	18	11	1	6	-
17	Congenital Malformations, Deformations (Q00-Q99)*	98	37	14	26	21
	Congenital malformations of heart (Q20-Q24)	33	8	9	6	10
18	Sudden Infant Death Syndrome (R95)*	5	1	3	1	-
19	All Other Diseases (Rest of A00-R99)	55	3	28	4	20
20	External Causes (V01-Y89)†	57	3	35	4	15

<sup>\*</sup>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, 2018

															Iniam Deaths	earns									
		Liw	Live Births				ĭ	Total				Early-Neonatal (<		days)			Neonatal (< 28	(< 28 da	days)			Post-Neonatal (≥	78	days)	
Characteristics	Total	Total Hismanic	Y A	사 전	Asian & P. I	Total Hispanic		NH.	NH- Andrew	Asian &	Total	Hispanic	Y NH	Har	Asian &	Loto	V Signature V	- HW	A HZ	Asian &	Tota	Hispanic V	V.P.ife	T A	Asian &
Total	114.296	31.706	40.327		19.024	446	1	14	ي	21	6	-	29	02	24	œ	-	-	95	33	α,	+_	25	71	18
Sex of Child																									
Male	58,443	16,034	20,653	10,799 9,876	9,876	267	63	28	112	25	128	29	37	45	10	164	36	4	62	15	103	27	4	20	10
Female	55,853	15,672	19,674	10,346	9,148	179	29	36	54	26	91	24	22	25	4	114	32	25	33	18	9	24	=	21	80
Birthweight at Delivery (Grams)																					•	'	'	1	
Low birthweight (<2,500)	9,737	2,658	2,474	2,710	1,673	281	99	26	114	34	182	45	45	62	19	220	51	21	81	26	19	15	5	33	80
Very low birthweight (< 1,500)	1,563	472	272	602	184	213	20	36	95	22	145	36	30	22	4	175	39	35	72	19	38	11	-	23	(T)
2,500-4,000	97,693	27,020	34,817	17,436 16,688	16,688	110	36	20	39	12	24	2	80	^	c	38	11	10	12	4	72	25	10	27	80
Above 4,000	6,853	2,026	3,030	866	663	_	3	-	2	-	'	1	'	'	'	2	-	0	0	-	ιΩ	2	-	2	
Not stated	13	2	9	-	•	4	-	7	-	•	4	-	2	-		4	-	2	-			•	•	'	
Unmatched*	'	1	•	•	•	4	13	15	10	4	6	2	4	0	2	4	4	9	-	2	30	6	6	6	2
Gestational Age (Weeks)																					•	1	1	1	
Preterm (<37)	10,293	3,041	2,745	2,726	1,570	273	09	25	117	32	175	43	4	63	17	213	47	48	82	25	09	13	4	35	
Very preterm (<32)	1,677	492	330	634	183	218	49	39	6	23	153	38	33	22	15	182	40	38	74	20	36	6	-	23	(m)
Full-term	103,993	28,664	37,580	18,418 17,454	17,454	129	46	27	39	15	35	8	4	7	10	21	17	15	12	9	78	29	12	27	51
Not stated	10	-	2	-	•	1	•	'	•	•	'	•	'	•	•	'	•	'	'	'	•	1	•	'	
Unmatched*		1	•	•	•	4	13	15	10	4	6	2	4	0	2	4	4	9	-	2	30	6	6	6	7
Plurality																						•	'	'	
Singletons	110,310	30,790	38,794	20,253 18,459	18,459	349	100	22	137	44	170	46	35	22	21	221	29	42	79	30	128	41	13	28	7
Multiples	3,985	916	1,533	892	292	23	9	24	19	3	40	10	70	13	-	43	7.	71	15	-	10	-	3	4	7
Unmatched*		1	•			4	13	15	10	4	6	2	4	0	7	4	4	9	-	2	30	6	6	6	2
Plurality unknown	-																		l				l	Ī	

Table IM3. Infant Mortality Rate by Mother's Racial/Ethnic Group and Characteristics of Infant, New York City, 2018

Total Hisp 3.9 4.6 3.2 28.9	2				Early- Neolialdi (< / days)	ala   (/	days			Neonata	Neonatal (< 26 days)	(SA)	_		Post-Neonatal ( $\geq 28$ days)	arai (≥ 20	days	
704al Hispa 3.9 4.6 3.2 28.9	=	÷	Asian			¥	¥	Asian &			¥	¥	Asian &			¥	¥	Asian &
3.9	nic White	te Black	& P.I.	Total	Hispanic	White	Black	P.I.	Total	Hispanic	White	Black	P.I.	Total	Hispanic	White	Black	P.I.
3.2	3.8	2.3 7.	7.9 2.7	1.9	1.7	1.5	3.3	1.3	2.4	2.1	1.7	4.5	1.7	1.5	1.6	9.0	3.4	0.0
3.2																		
3.2	3.9	2.8 10.4	4 2.5	2.2	1.8	1.8	4.2	1.0	2.8	2.2	2.1	2.7	1.5	1.8	1.7	0.7	4.6	1.0
28.9	3.6	1.8	5.2 2.8	1.6	1.5	1	2.4	1.5	2.0	2.0	1.3	3.2	2.0	1.2	1.5	9.0	2.0	0.0
28.9																		
	24.8 2	22.6 42.1	1 20.3	18.7	16.9	18.2	22.9	11.4	22.6	19.2	20.6	29.9	15.5	6.3	2.6	2.0	12.2	4.8
Very low birthweight (<1,500)   136.3   10	105.9 13	132.4 157.8	8 119.6	97.8	76.3	110.3	91.4	76.1	112.0	82.6	128.7	119.6	103.3	24.3	23.3	3.7	38.2	16.3
1.1	1.3	0.6	2.2 0.7		0.2	0.2	0.4	0.2	4.0	0.4	0.3	0.7	0.2	0.7	0.0	0.3	1.5	0.5
Above 4,000	1.5	0.3	2.0 1.5	•	•	•	•	•	0.3	0.5	1	•	1.5	0.7	1.0	0.3	2.0	•
Gestational Age (Weeks)																		
26.5	19.7	18.9 42.9			14.1	14.9	23.1	10.8	20.7	15.5	17.5	30.1	15.9	2.8	4.3	1.5	12.8	4.5
Very preterm (<32) 130.0	9.66	118.2 153.0	0 125.7	91.2	77.2	100.0	89.9	82.0	108.5	81.3	115.2	116.7	109.3	21.5	18.3	3.0	36.3	16.4
Full-term 1.2	1.6	0.7	2.1 0.9	0.3	0.3	0.4	0.4	0.3	0.5	9.0	0.4	0.7	0.3	0.8	1.0	0.3	1.5	0.5
Plurality																		
Singletons 3.2	3.2	1.4	6.8 2.4	1.5	1.5	0.0	2.8	<u></u>	2.0	1.9	<u>:</u>	3.9	1.6	1.2	1.3	0.3	2.9	0.8
Multiples 13.3	6.6	15.7 21.3	3 5.3	10.0	5.5	13.0	14.6	1.8	10.8	5.5	13.7	16.8	1.8	2.5	1.1	2.0	4.5	3.5

Table IM4. Live Births and Infant Mortality, Overall and by Mother's Racial/Ethnic Group, New York City, 2014–2018

Mother's Racial/Ethnic Group	2014	2015	2016	2017	2018
Live Births, Total	122,084	121,673	120,367	117,013	114,296
Puerto Rican	7,897	7,561	7,159	6,307	5,995
Other Hispanic	27,753	27,994	26,915	26,553	25,711
Asian and Pacific Islander	20,746	20,535	21,566	20,110	19,024
Non-Hispanic White	40,443	40,607	40,633	40,345	40,327
Non-Hispanic Black	23,680	23,116	22,465	21,992	21,145
Other or Unknown	1,565	1,860	1,629	1,706	2,094
Infant Deaths (< 1 year), Total	516	526	491	500	446
Puerto Rican	60	46	24	40	32
Other Hispanic	113	119	102	115	87
Asian and Pacific Islander	53	54	62	69	51
Non-Hispanic White	107	110	105	95	94
Non-Hispanic Black	177	186	180	171	166
Other or Unknown	6	11	18	10	16
Infant Mortality Rate, Total	4.2	4.3	4.1	4.3	3.9
Puerto Rican	7.6	6.1	3.4	6.3	5.3
Other Hispanic	4.1	4.3	3.8	4.3	3.4
Asian and Pacific Islander	2.6	2.6	2.9	3.4	2.7
Non-Hispanic White	2.6	2.7	2.6	2.4	2.3
Non-Hispanic Black	7.5	8.0	8.0	7.8	7.9
Neonatal Deaths (< 28 days), Total	326	342	312	344	278
Puerto Rican	40	34	17	26	21
Other Hispanic	66	80	65	76	47
Asian and Pacific Islander	37	33	43	52	33
Non-Hispanic White	75	75	65	66	69
Non-Hispanic Black	103	112	109	121	95
Neonatal Mortality Rate, Total	2.7	2.8	2.6	2.9	2.4
Puerto Rican	5.1	4.5	2.4	4.1	3.5
Other Hispanic	2.4	2.9	2.4	2.9	1.8
Asian and Pacific Islander	1.8	1.6	2.0	2.6	1.7
Non-Hispanic White	1.9	1.8	1.6	1.6	1.7
Non-Hispanic Black	4.3	4.8	4.9	5.5	4.5

Table IM5. Infant Mortality Rate by Mother's Birthplace\*, New York City, 2012–2018

Birthplacet	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
New York City	4.5	4.4	4.2	4.2	4.1
United States‡	4.8	4.8	4.5	4.4	4.2
United States (excluding Puerto Rico)	4.8	4.8	4.5	4.4	4.1
Puerto Rico	5.3	4.8	5.5	6.0	5.2
Jamaica	7.9	6.1	6.8	6.5	7.6
Haiti	6.2	7.4	7.0	7.6	7.3
El Salvador	4.2	5.0	5.5	4.1	6.0
Ghana	2.9	3.3	3.8	6.3	5.9
Pakistan	5.2	5.5	6.7	6.4	5.1
Yemen Arab Republic	3.7	2.7	3.8	4.7	4.9
Guyana	4.9	4.8	4.3	4.8	4.5
Philippines	2.3	1.9	1.9	2.4	4.5
Bangladesh	3.5	3.6	3.1	4.5	4.2
Colombia	3.0	3.4	4.6	5.0	3.9
Trinidad and Tobago	7.3	6.7	7.2	5.2	3.6
Nigeria	4.5	2.8	0.9	1.6	3.1
Guatemala	1.6	2.0	2.4	3.1	3.1
Mexico	3.7	2.8	2.4	3.0	3.1
Ecuador	3.2	3.7	3.8	3.8	3.0
Dominican Republic	4.4	4.1	3.9	3.7	2.9
Israel	2.2	2.6	2.7	1.2	2.8
Russia	1.3	1.0	2.0	2.0	2.8
Egypt	2.8	3.5	3.4	3.8	2.6
India	6.1	3.2	2.8	2.4	2.6
Japan	1.3	2.0	2.8	2.9	2.4
Honduras	6.8	4.4	3.5	2.2	2.2
Uzbekistan	1.7	1.8	1.1	1.8	2.2
Ukraine	0.0	0.4	1.1	1.5	2.0
China	1.5	1.5	1.6	1.7	1.8
Korea	3.6	5.0	2.6	3.3	1.6
Canada	3.0	4.1	3.0	2.6	1.5
Poland	1.8	1.4	1.5	2.1	1.1
United Kingdom	1.3	1.3	0.6	1.3	0.7

<sup>\*</sup>The infant mortality rate is listed only for countries with 500 or more live births in any year from 2012-2018.

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

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

Table IM6. Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2014–2018

		2014-	2016*	2015-	2017*	2016-2018*			
ommunity District		Infant Mortality Rate	Neonatal+ Mortality Rate	Infant Mortality Rate	Neonatal+ Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate		
District	NEW YORK CITY	4.2	2.7	4.2	2.8	4.1	2		
	MANHATTAN	3.3	2.2	3.1	2.1	2.6	1		
101	Battery Park, Tribeca	3.0	2.7	2.4	1.8	1.5			
102	Greenwich Village, SOHO	1.7	1.7	0.9	0.9	0.9			
103	Lower East Side	3.2	2.4	3.9	2.8	3.8	3		
104	Chelsea, Clinton	2.3	1.3	1.3	1.0	1.3	1		
105	Midtown Business District	1.8	1.2	0.6	0.6	1.8	1		
106	Murray Hill	1.8	1.6	2.4	1.6	2.8	2		
107	Upper West Side	2.3	1.3	1.4	0.9	1.0	(		
108	Upper East Side	1.8	0.9	2.1	1.4	1.8	1		
109	Manhattanville	5.0	3.8	5.7	3.8	4.4	3		
110 111	Central Harlem East Harlem	6.7 5.2	3.8 3.0	6.5 5.1	3.7 2.9	4.0 5.0			
112	Washington Heights	4.2	3.2	4.0	3.1	3.3			
	BRONX	4.8	2.9	5.0	3.2	4.8			
201	Mott Haven	4.6	2.2	4.8	2.3	5.7	4		
202	Hunts Point	2.7	2.3	2.9	2.5	2.1			
203 204	Morrisania Concourse, Highbridge	4.8 3.4	2.3 2.4	5.1 4.7	2.8 2.8	5.4 5.2			
205	University/Morris Heights	4.6	3.1	5.5	4.0	4.6			
206	East Tremont	4.1	3.0	6.3	4.7	7.0			
207	Fordham	4.2	2.7	4.1	2.9	4.1			
208	Riverdale	4.3	3.0	3.7	2.1	2.9			
209	Unionport, Soundview	5.8	3.3	6.4	3.4	5.9			
210	Throgs Neck	3.9	2.6	5.0	3.3	3.0			
211	Pelham Parkway	7.8	4.2	5.0	2.5	3.4			
212	Williamsbridge	6.2	4.1	5.5	4.1	5. <i>7</i>			
	BROOKLYN	3.7	2.3	3.6	2.3	3.5			
301	Williamsburg, Greenpoint	2.8	1.4	3.2	1.6	2.6			
302	Fort Greene, Brooklyn Heights	2.4	1.6	2.8	1.6	1.6			
303	Bedford Stuyvesant	4.9	2.6	4.6	2.2	4.3			
304 305	Bushwick	3.4 6.2	1.7	2.1	0.8	1.4			
305	East New York Park Slope	2.3	4.2 1.1	5.7 2.4	4.5 1.2	6.9 2.8			
306	Sunset Park	2.3	1.1	2.4	1.2	2.8			
308	Crown Heights North	4.9	3.1	4.7	3.4	4.4			
309	Crown Heights South	3.8	2.0	4.1	2.3	5.9			
310	Bay Ridge	1.0	0.9	0.9	0.7	1.7			
311	Bensonhurst	3.6	2.6	3.0	1.7	2.8			
312	Borough Park	2.2	1.4	1.9	1.5	1.5			
313	Coney Island	4.7	3.7	3.7	2.9	3.6			
314	Flatbush, Midwood	4.3	2.9	4.4	3.0	3.8			
315	Sheepshead Bay	2.1	1.0	2.7	1.5	2.7			
316	Brownsville	5.4	3.2	6.0	3.8	6.3			
31 <i>7</i> 318	East Flatbush Canarsie	8.5 5.0	4.9 3.2	6.7 6.4	4.0 4.3	5.6 6.4			
310			2.7			4.1			
401	QUEENS Astoria, Long Island City	<b>4.0</b> 5.0	4.0	<b>4.2</b> 6.7	<b>2.9</b> 5.0	6.0			
402	Sunnyside, Woodside	3.1	2.0	3.4	2.8	2.8			
403	Jackson Heights	4.6	2.7	3.3	2.3	2.6			
404	Elmhurst, Corona	3.3	2.5	3.7	2.5	3.1			
405	Ridgewood, Glendale	2.2	1.2	2.8	1.8	3.2			
406	Rego Park, Forest Hills	2.8	1.6	2.4	1.7	1.7			
407	Flushing	3.0	1.8	3.4	1.8	3.6			
408	Fresh Meadows, Briarwood	2.5	1.8	3.1	2.2	3.2			
409	Woodhaven	4.4	3.5	4.2	3.4	3.8			
410	Howard Beach	5.5	4.2	4.7	3.6	4.7			
411	Bayside	1.9	0.9	3.9	2.4	4.7			
412	Jamaica, St. Albans	6.1	3.4	5.9	3.8	6.0			
413 414	Queens Village	5.6 5.2	4.0	6.7	4.6	8.1			
414	The Rockaways		3.9	4.6	3.1	4.4			
FO1	STATEN ISLAND	3.6	2.3	4.5	3.3	4.4			
501	Port Richmond Willowbrook, South Roach	4.8	2.7	5.4	3.9	5.3			
502	Willowbrook, South Beach	2.8	2.1 1.7	5.1 2.6	3.9 2.0	5.2 2.4			

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

<sup>†</sup>Neonatal infants are those less than 28 days old.

Table IM7. Live Births and Infant Mortality Rate by Characteristics of Mother and Infant, New York City, 2018

			Infa	ınt Mortali	ty Rate (IM	R) per 1,0	00 Live Births	
	Live Bi	rths	A	II	Neon	atal*	Post-Nec	onatal*
Characteristics	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	114,296	100.0	446	3.9	278	2.4	168	1.5
Race/Ethnicity								
Puerto Rican	5,995	5.2	32	5.3	21	3.5	11	1.8
Other Hispanic	25,711	22.5	87	3.4	47	1.8	40	1.6
Asian and Pacific Islander	19,024	16.6	51	2.7	33	1.7	18	0.9
Non-Hispanic White	40,327	35.3	94	2.3	69	1.7	25	0.6
Non-Hispanic Black	21,145	18.5	166	7.9	95	4.5	71	3.4
Other and Unknown	2,094	1.8	16	-	13	-	3	
Borough of Residence								
Manhattan	16,595	14.5	35	2.1	23	1.4	12	0.7
Bronx	18,511	16.2	84	4.5	48	2.6	36	1.9
Brooklyn	37,933	33.2	125	3.3	82	2.2	43	1.1
Queens	24,325	21.3	95	3.9	57	2.3	38	1.6
Staten Island	5,067	4.4	17	3.4	11	2.2	6	1.2
Non-NYC residents	11,859	10.4	86	7.3	53	4.5	33	2.8
Unknown	6	_	4	-	4	-	0	
Age Group					·		Ŭ	
Age <18	744	0.7	5	6.7	1	1.3	4	5.4
Age 18-19	2,148	1.9	7	3.3	2	0.9	5	2.3
Age 20-29	43,737	38.3	163	3.7	99	2.3	64	1.5
Age 30-39		52.9	199	3.3	142	2.3	57	0.9
0	60,458							
Age ≥40	7,208	6.3	28	3.9	20	2.8	8	1.1
Age unknown	1	-		-		-	-	-
Unmatched†	-	-	44	-	14	-	30	-
Education								
11th grade or less/12th grade, no diploma	17,786	15.6	80	4.5	39	2.2	41	2.3
High school graduate or GED	25,408	22.2	122	4.8	81	3.2	41	1.6
Some college/associate degree	24,008	21.0	88	3.7	56	2.3	32	1.3
Bachelor's degree	25,364	22.2	60	2.4	45	1.8	15	0.6
Master's degree or higher	21,294	18.6	36	1.7	27	1.3	9	0.4
Woman's education unknown	436	0.4	16	-	16	-	0	-
Unmatched†	-	-	44	-	14	-	30	_
Marital Status‡								
Not married	40,981	35.9	213	5.2	127	3.1	86	2.1
Married	73,315	64.1	189	2.6	137	1.9	52	0.7
Unmatched†	7 5,515	0 1.1	103	2.0	137	1.5	32	0.7
Birthplace§								
US born, including territories	57,118	50.0	222	3.9	147	2.6	75	1.3
Foreign born	57,096	50.0	169	3.9	106	1.9	63	1.1
				3.0		1.9	63	1.1
Birthplace unknown	82	0	11	-	11	-	-	
Unmatched†	-	-	44	-	14	-	30	
Primary Payer for This Birth								
Medicaid/Family Plus/Child PlusB/Other govt	65,431	57.2	249	3.8	150	2.3	99	1.5
Other	48,292	42.3	149	3.1	111	2.3	38	0.8
Coverage unknown	573	0.5	4	-	3	-	1	-
Unmatched†	-	-	44	-	14	-	30	-
Plurality								
Singletons	110,311	96.5	349	3.2	221	2.0	128	1.2
Multiples	3,985	3.5	53	13.3	43	10.8	10	2.5
Unmatched†	-	-	44	-	14	-	30	
First Prenatal Care Visit								
No prenatal care	585	0.5	10	17.1	8	13.7	2	3.4
First trimester (1-3 months)	84,015	73.5	267	3.2	176	2.1	91	1.1
Second trimester (4-6 months)	19,881	17.4	69	3.5	43	2.2	26	1.3
Third Trimester (7-9 months)	6,672	5.8	20	3.0	10	1.5	10	1.5
Prenatal care unknown	3,143	2.7	36	5.0	27	- 1.5	9	1.5
Unmatched†	3,143	2.7	44	_	14		30	
Pre-pregnancy Body Mass Index (BMI)	_	_			14		30	
Underweight (BMI < 18.5)	5,778	5.1	15	2.6	9	1.6	6	1.0
Normal weight (18.5 ≤ BMI < 25)	58,574	51.2	174	3.0	108	1.8	66	1.1
Overweight $(25 \le BMI < 30)$	28,762	25.2	102	3.5	67	2.3	35	1.2
Obese (BMI≥30)	20,515	17.9	96	4.7	67	3.3	29	1.4
Pre-pregnancy BMI unknown	667	0.6	15	-	13	-	2	
Unmatched†	-	-	44	-	14	-	30	
Birthweight	-							
Very low birthweight (< 1,500 grams)	1,563	1.4	213	136.3	175	112.0	38	24.3
Low birthweight (1,500-2,499 grams)	8,174	7.2	68	8.3	45	5.5	23	2.8
Normal birthweight	104,546	91.5	117	1.1	40	0.4	77	0.7
Birthweight unknown	13	-	4	-	4	-	-	-
Unmatched†	-	-	44	-	14	-	30	_
*Neonatal infants are those less than 28 days old: post-n	ennatal infants are	those 28 da	ove to less th	an 1 year ol				

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

<sup>†</sup>Infants who died in New York City who were born elsewhere were classified as unmatched.

<sup>‡</sup>See Technical Notes: Births, Woman's Marital Status.

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

### Table PO1. Live Births by Borough of Birth\* and Institution, New York City, 2018

Borough and Institution	Births
Manhattan	
Bellevue Hospital Center	1,
Harlem Hospital Center	
Lenox Hill Hospital	3,
Metropolitan Hospital Center	
Mount Sinai Hospital	8,
Mount Sinai West	5,
New York Weill Cornell Medical Center	5,
New York-Presbyterian/Columbia University Medical Center	4,
New York-Presbyterian/Lower Manhattan Hospital	3,:
New York-Presbyterian/The Allen Hospital	2,
NYU Langone - Tisch Hospital	6,
Home†	
Places other than a hospital or home‡	
Bronx	
Bronx Lebanon Hospital Center	1,
Jack D. Weiler Hospital	3,
Jacobi Medical Center	1,8
Lincoln Medical and Mental Health Center	1,8
Montefiore Medical Center - Wakefield Division	1,
Montefiore Medical Center (Henry & Lucy Moses Division)	·
North Central Bronx Hospital	1,
St. Barnabas Hospital	
Home†	
Places other than a hospital or home‡	
Brooklyn	
Brookdale University Hospital and Medical Center	
Brooklyn Birthing Center	
Brooklyn Hospital Center	2,:
Coney Island Hospital	1,
Kings County Hospital Center	1,
Lutheran Medical Center	4,
Maimonides Medical Center	8,
New York-Presbyterian/Brooklyn Methodist Hospital	5,
The Birthing Center of NY§	3,
University Hospital of Brooklyn	1,
Woodhull Medical and Mental Health Center	1,
Wyckoff Heights Medical Center	1,.
Home†	
Places other than a hospital or home‡	
Queens	
Elmhurst Hospital Center	2,
Flushing Hospital Medical Center	2,
Jamaica Hospital Medical Center	2,
Long Island Jewish Forest Hills	1,
Long Island Jewish Medical Center	9,
New York Hospital Medical Center of Queens	3,
Queens Hospital Center	1,-
St. John's Episcopal Hospital South Shore	
Zucker Hillside Hospital	
Home†	
Places other than a hospital or home‡	
Staten Island	
Richmond University Medical Center	2,
Staten Island University Hospital	2,
Home†	
Places other than a hospital or home‡	
Foundling	
York City Total	114,2

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

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

<sup>‡</sup> Places other than a hospital or home include ambulances, taxis, and airplanes.

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

Table PO2. Live Births by Mother's Ancestry\* and Borough of Residence, New York City, 2018

				Boro	ough of Resic	lence		
Mother's Ancestry	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non- Residents	Residence Unknown
Total	114,296	16,595	18,511	37,933	24,325	5,067	11,859	$\epsilon$
Hispanic						<u> </u>		
Colombian	1,021	95	52	119	589	38	128	
Cuban	307	75	43	71	44	18	56	
Dominican	10,417	1,729	5,187	1,474	1,366	127	532	2
Ecuadorian	2,639	137	373	445	1,532	50	102	
Mexican	4,899	463	1,235	1,417	1,313	344	127	
Puerto Rican	5,995	770	2,286	1,354	821	384	380	
Other Hispanic	6,428		1,616	1,467	1,765	206	583	
North American and the Caribbean	1							
African-American	12,118	1,254	2,859	5,063	1,773	403	764	2
American	11,432		304	4,240	1,451	879	1,912	
Guyanese	1,615		117	400	977	5	100	
Haitian	1,409		41	833	335	9	150	
Jamaican	1,715		417	597	480	11	160	
Trinidadian	598		39	282	194	8	62	
Other North American and the Caribbean	1,327	189	144	582	258	23	131	
African	1,527	103		302	250		131	
Egyptian	677	41	17	230	231	90	68	
Ghanaian	566		440	29	37	22	17	
Nigerian	711	27	168	207	172	79	58	
Other African	2,006		995	383	225	76	93	
European	2,000	251	333	303	223	70	33	
English	573	212	12	208	36	10	95	
German	617		14	200	73	18	116	
Irish	1,447	360	36	365	217	116	353	
Italian	2,707	488	59	540	338	620	662	
Polish	849		15	211	293	66	135	
Russian	1,396		15	588	264	117	156	
Other European	4,434		291	1,729	718	301	542	
Asian	1,131	033	231	1,7 23	7.10	301	312	
Asian Indian	1,942	338	53	161	810	41	539	
Bangladeshi	2,930		559	596	1,643	17	59	
Chinese	7,521	914	54	2,927	2,740	300	586	
Filipino	7,321		52	99	343	41	119	
Korean	856		12	167	244	11	130	
Pakistani	1,669		103	698	453	113	238	
Other Asian	6,469	902	469	2,663	1,734	227	474	
Other	0,100	332	.03	2,003	177.51		17 1	
Jewish or Hebrew	5,037	432	34	3,912	116	90	453	
Other or not stated	9,222		400	3,675	740	207	1,780	2

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

Table PO3. Live Births by Mother's Racial/Ethnic Group and Age Group, New York City, 2018

	•			-	_				
					Age Gro	oup (Years)			
Racial/Ethnic Group	Total	< 18	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Total	114,296	744	2,148	16,298	27,439	36,064	24,394	7,208	1
Puerto Rican	5,995	98	303	1,346	1,675	1,448	873	252	-
Other Hispanic	25,711	382	897	4,852	6,927	6,858	4,442	1,353	-
Asian and Pacific Islander	19,024	15	62	1,631	5,061	6,960	4,178	1,117	-
Non-Hispanic White	40,327	38	268	4,737	7,696	14,326	10,313	2,949	-
Non-Hispanic Black	21,145	197	582	3,477	5,627	5,823	4,052	1,387	-
Non-Hispanic Other	718	2	10	114	207	188	152	45	-
Non-Hispanic of two or more races	1,159	10	20	110	199	406	323	91	-
Not Stated	217	2	6	31	47	55	61	14	1

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age Group, New York City, 2018

	<sub>Tarr</sub>				Age Grou	p (Years)			
	Total	< 18	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Total Live Births	114,296	744	2,148	16,298	27,439	36,064	24,394	7,208	1
Sex									
Male	58,443	367	1,117	8,287	14,111	18,409	12,543	3,608	1
Female First Live Birth	55,853	377	1,031	8,011	13,328	17,655	11,851	3,600	
Yes	48,740	693	1,842	10,058	11,950	14,737	7,435	2,025	
No	65,541	50	306	6,238	15,485	21,322	16,958	5,182	
Unknown	15	1	-	2	4	5	1	1	1
Pre-pregnancy Body Mass Index (BMI)									
Underweight (BMI < 18.5)	5,778	69	147	1,207	1,660	1,617	847	231	
Normal weight (18.5≤BMI<25)	58,574	416	1,119	8,250	13,317	19,344	12,605	3,523	
Overweight $(25 \le BMI < 30)$	28,762	159	526	3,912	7,015	8,768	6,350	2,032	
Obese (BMI≥30)	20,515	92	344	2,817	5,283	6,168	4,444	1,367	1
Unknown Birthweight at Delivery (Grams)	667	8	12	112	164	167	148	55	-
<1500	1,563	6	26	230	356	454	339	152	
1500-2499	8,174	66	177	1,098	1,840	2,469	1,813	711	
2500-3999	97,565	657	1,870	14,153	23,658	30,840	20,490	5,897	
≥4000	6,981	15	75	815	1,581	2,296	1,751	448	
Not Stated	13	-	-	2	4	5	1	-	1
Gestational Age (Weeks)*									
<32	1,677	13	28	220	371	518	368	159	
32-36 ≥37	8,616 103,993	60 671	168 1,951	1,070 15,007	1,790 25,273	2,600 32,945	2,118 21,908	810 6,238	
Unknown	103,993	0/1	1,931	13,007	5	32,943	21,906	0,236	1
Plurality	10		-	-		-			
Single	110,310	738	2,108	15,897	26,655	34,744	23,374	6,794	
Twin	3,868	6	40	392	762	1,279	1,002	387	
Triplet	114	-	-	9	22	41	15	27	
Quadruplet	3	-	-	-	-	-	3	-	
Unknown	1	-	-	-	-	-	-	-	1
Apgar Score at 5 Minutes	1,039	8	10	164	221	327	229	72	
≤6 7	1,039	5	18 19	135	249	333	269	85	
8	5,462	26	103	716	1,238	1,750	1,195	434	
9	105,833	701	1,995	15,176	25,533	33,380	22,479	6,569	
10	613	2	6	61	128	209	168	39	
Not Stated	254	2	7	46	70	65	54	9	1
Method of Delivery									
Vaginal	73,792	620	1,701	12,311	18,776	23,014	13,941	3,429	-
Vaginal after any prior C-section	2,809	1	5	242	740	923	725	173	-
Primary C-section	22,059	114	400	2,827	4,831	6,886	5,029	1,972 881	-
Low Risk† Other	11,885 10,174	82 32	284 116	1,848 979	2,847 1,984	3,582 3,304	2,361 2,668	1,091	
Repeat C-section	15,632	9	42	918	3,091	5,240	4,698	1,634	
Unknown	4	-	-	-	1	1	1	-	1
Attendant									
Physician	104,455	625	1,827	14,271	24,735	33,470	22,759	6,768	-
Certified nurse midwife	9,264	116	310	1,935	2,535	2,439	1,517	412	-
Other	577	3	11	92	169	155	118	28	1
Primary Payer for this Birth‡	65 431	677	1.016	12.615	10.451	16.034	0.013	2.025	
Medicaid/Family Plus/Child Health Plus B/Other govt Private	65,431 46,817	677 48	1,916 188	13,615 2,403	19,451 7,435	16,934 18,492	9,813 14,193	3,025 4,058	
Self-pay	737	6	21	108	198	217	14,193	4,036	
Other	738	7	13	109	204	237	131	37	
Not Stated	573	6	10	63	151	184	115	43	
First Visit for Prenatal Care									
First trimester (1-3 months)	84,015	332	1,120	10,595	19,499	27,919	19,045	5,505	
Second trimester (4-6 months)	19,881	235	626	3,725	5,138	5,388	3,589	1,180	
Third trimester (7-9 months)	6,672	119	267	1,250	1,842	1,789	1,094	311	
No care Not Stated	585	17	26 109	133 595	143	140	100	26 186	
Marital Status§	3,143	41	109	393	817	828	566	100	
Not married	40,981	717	1,797	8,942	11,707	9,616	6,101	2,100	1
Married	73,315	27	351	7,356	15,732	26,448	18,293	5,108	
Education Level								,	
11th grade or less/12th grade no diploma	17,786	680	1,034	3,710	4,276	4,209	2,918	959	
High school graduate or GED	25,408	57	787	6,537	7,400	5,908	3,498	1,221	
Some college/associate degree	24,008	4	311	4,532	7,513	6,605	3,930	1,113	
Bachelor's degree	25,364	-	10	1,170	5,383	10,129	6,802	1,870	
Master's degree or higher	21,294	-	-	253	2,776	9,105	7,157	2,003	
Not Stated	436	3	6	96	91	108	89	42	1
Birthplace					40.77				L
United States, including its territories	57,118	500	1,400	9,601	13,039	17,441	11,882	3,254	
Foreign	57,096	241	746	6,684	14,377	18,607	12,491	3,950	
Not Stated	82	3	2	13	23	16	21	4	-

<sup>\*</sup> See Technical Notes: Births, Gestational Age.

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

<sup>‡</sup> See Technical Notes: Births, Birth Reporting.

 $<sup>\</sup>S$  See Technical Notes: Births, Mother's Marital Status.

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

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2018

					p : l/Ed				
					Racial/Ethr	nc Group*		NI	
	Total	Puerto Rican	Other Hispanic	Asian	Non- Hispanic White	Non- Hispanic Black	Non- Hispanic Other	Non- Hispanic Two or More Races	Not Stated
Total Live Births	114,296	5,995	25,711	19,024	40,327	21,145	718	1,159	217
Sex Male	58,443	3,082	12,952	9,876	20,653	10,799	350	601	130
Female	55,853	2,913	12,759	9,148	19,674	10,346	368	558	
First Live Birth									
Yes	48,740	2,461	10,042	9,096	17,457	8,680	315	607	82
No Unknown	65,541 15	3,534	15,667 2	9,927 1	22,867 3	12,463 2	403	552	128
Pre-pregnancy Body Mass Index (BMI)	13				3		-		
Underweight (BMI < 18.5)	5,778	222	666	1,857	2,231	704	31	58	
Normal weight (18.5≤BMI<25)	58,574	2,094	10,557	11,908	25,752	7,175	353	662	73
Overweight $(25 \le BMI < 30)$	28,762	1,636	8,318	3,835	8,086	6,393	208	249	
Obese (BMI≥30)	20,515	2,011	6,056	1,387	4,068	6,659	125	185	
Unknown Birthweight at Delivery (Grams)	667	32	114	37	190	214	1	5	74
<1500	1,563	103	369	184	272	602	10	13	10
1500-2499	8,174	533	1,653	1,489	2,202	2,108	82	85	
2500-3999	97,565	5,002	21,990	16,675	34,756	17,411	583	979	169
≥4000	6,981	356	1,698	676	3,091	1,023	43	82	
Not stated Gestational Age (Weeks)†	13	1	1	-	6	1	-	-	
<32	1,677	107	385	183	330	634	15	15	8
32-36	8,616	567	1,982	1,387	2,415	2,092	69	85	
≥37	103,993	5,321	23,343	17,454	37,580	18,418	634	1,059	
Unknown	10	-	1	-	2	1	-	-	(
Plurality Single	110,310	5,780	25,010	18,459	38,794	20,253	687	1,121	206
Twin	3,868	208	679	556	1,490	856	31	38	
Triplet	114	7	22	9	40	36	-		
Quadruplet	3	-	-	-	3	-	-	-	
Unknown	1	-	-	-	-	-	-	-	1
Apgar Score at 5 Minutes ≤6	1,039	71	194	123	257	364	13	11	(
7	1,095	71	225	126	288	357	10	14	
8	5,462	306	1,128	823	1,737	1,363	36	59	
9	105,833	5,509	23,987	17,850	37,674	18,906	655	1,061	191
10 Not stated	613 254	22 16	126 51	79 23	305 66	69 86	2	10	
Method of Delivery	254	10	31	23	- 00	- 00			,
Vaginal	73,792	3,736	15,922	12,111	28,260	12,415	462	749	137
Vaginal after any prior C-section	2,809	131	645	356	1,188	441	23	19	
Primary C-section Low Risk‡	22,059 11,885	1,225 629	4,825 2,563	3,761 2,213	6,865 3,758	4,915 2,462	150 81	269 156	
Other	10,174	596	2,262	1,548	3,107	2,453	69	113	
Repeat C-section	15,632	903	4,319	2,795	4,014	3,373	83	122	
Unknown	4	-	-	1	-	1	-	-	1
Attendant Physician	104,455	5,368	23,003	18,255	36,936	18,982	670	1,067	174
Certified nurse midwife	9,264	582	2,580	717	3,228	1,989	46	85	
Other	577	45	128	52	163	174	2	7	
Primary Payer for this Birth§									
Medicaid/Family Plus/Child Health Plus B/Other govt	65,431	4,183	20,159	10,649	15,064	14,409	454	387	120
Private Self-pay	46,817	1,714 27	5,191	8,060 198	24,721 144	6,059	249	744	79
Other	738	45	128	77	304	165		16	
Not stated	573	26	102	40	94	282	9	9	1
First Visit for Prenatal Care	04.015	4.000	17.550	14.041	22.766	12 144	F01	000	114
First trimester (1-3 months) Second trimester (4-6 months)	84,015 19,881	4,090 1,279	17,558 5,553	14,941 2,954	32,766 5,165	13,144 4,574	501 136	899 172	
Third tremester (7-9 months)	6,672	363	1,748	824	1,201	2,411	55	52	
No care	585	60	127	59	121	206		3	
Not stated	3,143	203	725	246	1,074	810	23	33	29
Marital Status   Not married	40,981	4,445	15,162	2,723	4,266	13,656	240	379	110
Married	73,315	1,550	10,549	16,301	36,061	7,489	478	780	
Education Level									
11th grade or less/12th grade, no diploma	17,786	1,411	7,479	2,815	2,892	2,994	104	74	
High school graduate or GED	25,408	1,616	6,300	3,583	7,576	5,963	203	138	
Some college/associate degree Bachelor's degree	24,008 25,364	1,915 675	6,841 3,369	3,091 5,187	5,067 12,056	6,637 3,601	178 121	260 334	
Master's degree or higher	25,364	371	1,670	4,328	12,036	1,848	105	352	
Not stated	436	7	52	20	142	102	7	1	
Birthplace¶ United States, including its territories Foreign	57,118 57,096	5,969 24	8,232 17,471	2,475 16,545	27,362 12,957	11,811 9,322	300 417	847 312	122 48

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

<sup>†</sup> See Technical Notes: Births, Gestational Age. ‡ Low Risk: Primiparous, Full-term, Singleton, and Vertex/Cephalic (head first).

<sup>§</sup> See Technical Notes: Births, Birth Reporting.

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

¶ See Technical Notes: Geographical Units, Birthplace Presentation.

Table PO6. Live Births by Selected Characteristics and Mother's Ancestry, New York City, 2018

				Perce	ent of Total	Live Births v	with Specifi	ed Characte	ristics		
Mother's Ancestry	Live Births	Foreign- born*	First Live Birth	Low Birth Weight (<2,500 Grams)	Preterm Birth (<37 Weeks)†	Late or No Prenatal Care	Not Married	On Medicaid‡	Pre- pregnancy Obesity	Teenaged (<20 Years)	Exclusive Breast Feeding
Total	114,296	50.0	42.6	8.5	9.0	6.5	35.9	57.5	18.1	2.5	42.3
Hispanic											
Colombian	1,021	67.4	53.4	7.0	7.8	5.7	43.9	53.9	16.0	2.2	48.7
Cuban	307	16.0	51.8	10.4	9.1	3.4	34.5	33.2	20.2	3.3	56.7
Dominican	10,417	72.3	42.7	8.2	9.0	9.1	59.5	81.6	23.1	5.1	27.7
Ecuadorian	2,639	80.4	34.9	5.6	8.5	7.4	50.8	82.4	20.8	4.4	34.8
Mexican	4,899	71.2	29.6	7.0	8.7	6.0	64.6	88.4	25.6	6.2	36.0
Puerto Rican	5,995	0.4	41.1	10.6	11.2	7.3	74.1	70.1	33.7	6.7	33.0
Other Hispanic	6,428	56.0	39.2	8.9	10.4	6.7	60.8	71.3	25.6	4.5	39.8
North America and the Caribbean											
African-American	12,118	16.9	42.5	13.3	13.8	8.9	75.4	69.5	33.7	5.0	30.0
American	11,432	3.1	43.1	6.9	7.1	1.8	16.1	32.1	12.9	0.9	57.1
Guyanese	1,615	89.1	44.7	14.3	12.0	12.9	41.7	63.5	21.3	2.8	37.0
Haitian	1,409	81.6	41.7	11.4	13.6	14.7	38.5	65.5	30.0	1.7	28.1
Jamaican	1,715	91.5	42.0	12.5	12.8	19.7	62.9	68.1	31.3	2.1	35.7
Trinidadian	598	89.8	40.1	12.7	13.7	17.5	50.8	62.2	27.7	2.0	38.2
Other North America and the Caribbean	1,327	86.4	48.0	10.6	9.6	15.0	39.6	54.2	19.9	1.4	46.1
African											
Egyptian	677	92.2	29.4	6.8	7.8	17.4	2.5	76.4	21.0	0.3	40.0
Ghanaian	566	97.5	29.2	12.5	11.1	20.9	47.3		29.7	0.2	31.1
Nigerian	711	95.8	37.7	10.8	11.4	24.7	28.0	62.2	27.2	0.3	38.3
Other African	2,006	96.6	32.8	9.1	7.5	19.2	31.9	81.8	21.0	1.1	36.9
European											
English	573	46.4	56.9	4.0	4.0	2.7	9.1	9.8	6.5	0.0	78.9
German	617	28.4	61.1	4.7	5.8	2.5	11.8	7.6	5.7	0.3	75.7
Irish	1,447	8.9	58.5	6.0	7.7	1.6	14.2	11.0	11.3	0.5	65.4
Italian	2,707	9.0	56.1	6.8	8.3	1.7	16.7	13.3	16.2	0.5	54.2
Polish	849	63.3	50.5	5.9	6.2	2.0	15.7	26.5	7.7	0.2	59.0
Russian	1,396	79.8	49.7	5.9	5.7	2.9	22.3	37.2	6.7	0.4	60.5
Other European	4,434	73.4	51.6	5.8	6.9	5.7	16.3	38.1	8.7	0.5	60.1
Asian											
Asian Indian	1,942	80.6	52.5	12.3	9.0	3.8	5.0	33.3	9.7	0.1	50.1
Bangladeshi	2,930	98.0	40.9	12.6	10.0	6.6	2.6		12.1	0.4	28.4
Chinese	7,521	89.0	47.7	6.0	6.8	3.0	21.6	62.4	2.6	0.2	29.2
Filipino	747	76.8	49.4	9.9	9.4	5.8	19.5		9.4	0.4	51.7
Korean	856	67.6	61.3	5.0	5.8	2.3	8.2	16.0	1.5	0.1	62.7
Pakistani	1,669	91.4	37.6	9.7	9.3	8.0	2.7	73.5	16.0	1.0	27.8
Other Asian	6,469	88.4	40.7	7.3	7.5	7.4	12.4	62.1	8.5	2.0	44.2
Other											
Jewish or Hebrew	5,037	13.1	27.0	5.7	5.9	1.2	3.4	63.8	10.4	0.8	44.0
Other or Not Stated	9,222	18.2	45.2	7.3	8.1	3.5	12.6		10.2	0.7	62.1

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

 $<sup>\</sup>ensuremath{^*}$  Beginning in 2006, US Virgin Islands and Guam are not included in the Foreign-born category.

 $<sup>\</sup>dagger$  Clinical gestational age < 37 completed weeks.

<sup>‡</sup> Due to revision of the birth certificate, since 2008 "On Medicaid" also includes Family Health Plus, Other government, and Child Health Plus B.

# Table PO7. Live Births by Selected Characteristics and Community District of Residence, New York City, 2018

	+			1 61			with specific	ed Characteri	Sucs	
Community District of Residence	Live Births	Rate*	Foreign- Born†	First Live Birth	Low Birthweight (<2,500 Grams)	Preterm Birth (<37 weeks)‡	Late or No Prenatal Care	On Medicaid§	Pre- pregnancy Obesity	Exclusive Breast Feeding
NEW YORK CITY	114,296	13.6	50.0	42.6				57.5	18.1	42.3
MANHATTAN	16,500	10.2	39.1	53.3					12.2	61.4
Battery Park, Tribeca (01)	1,127	18.2	36.0	53.7				3.3	2.1	80.0
Greenwich Village, SOHO (02)	694	7.8	32.3	60.5			3.0	6.6	2.0	80.5
Lower East Side (03)	1,159	6.9	45.3	48.1	10.4		4.7	55.7	16.4	56.0
Chelsea, Clinton (04)	984	7.3	42.5	65.3			4.3	19.4	10.4	70.8
Midtown Business District (05) Murray Hill (06)	576 1,309	10.3 9.3	40.2 39.3	63.9 62.0		9.5 7.9	2.9 2.8	12.5 6.3	3.9 4.9	71.4 76.
Upper West Side (07)	2,337	11.1	34.3	52.8		7.9	3.2	12.1	6.2	67.8
Upper East Side (08)	2,539	11.4	31.7	56.0		8.0	1.8	5.8	5.3	74.
Manhattanville (09)	925	8.5	45.7	51.5			7.2	60.4	20.3	45.
Central Harlem (10)	1,491	13.2	37.9	45.3		10.1	10.3	60.1	25.7	47.9
East Harlem (11)	1,404	11.6	35.8	42.8		13.7	7.8	62.2	25.2	38.0
Washington Heights (12)	1,955	10.2	53.1	50.0			5.4	66.2	20.7	40.0
BRONX	18,606	13.0	56.0	38.2			11.6	82.2	27.7	27.0
Mott Haven (01)	1,444	14.9	44.6	34.1	10.1	11.4	11.0	86.3	32.5	25.
Hunts Point (02)	801	14.5	51.3	37.0			15.3	88.1	27.9	22.
Morrisania (03)	1,476	16.4	47.5	33.4	11.4	10.5	11.0	87.0	30.2	24
Concourse, Highbridge (04)	2,227	14.5	62.7	37.4			12.4	86.7	27.2	24.0
University/Morris Heights (05)	2,065	15.4	63.1	36.1	10.3	9.6	13.1	88.1	28.5	22.4
East Tremont (06)	1,180	13.7	46.2	35.1	10.0		11.2	89.0	30.8	24.
Fordham (07)	2,034	13.9	65.7	41.1	9.3		10.1	84.3	23.2	25.
Riverdale (08)	1,016	10.0	48.1	43.1	6.9		7.9	58.2	20.7	37.8
Unionport, Soundview (09)	2,314	12.7	57.1	38.6		9.1	10.5	82.3	26.2	30.9
Throgs Neck (10)	986	8.2	52.3	40.4			10.0	68.0	28.6	35.0
Pelham Parkway (11)	1,365	11.9	60.0	42.0			12.2	73.8	25.6	35.2
Williamsbridge (12)	1,698	11.1	54.8	40.5		13.0	14.7	80.5	32.2	28.2
BROOKLYN	37,930	14.7	45.6	39.9				63.4		41.7
Williamsburg, Greenpoint (01)	3,615	18.4	18.0	37.2			3.3	59.4	11.5	55.1
Fort Greene, Brooklyn Heights (02)	1,795	14.7	27.2 24.6	59.9		8.0 9.2	2.2	17.4	7.9	73.2
Bedford Stuyvesant (03)	2,183	14.8	53.6	38.1 42.6	9.2 8.4	9.2	5.7 6.9	65.9 73.0	19.6	41.9 33.5
Bushwick (04) East New York (05)	1,103 2,595	10.1 14.8	52.5	39.5			11.4	79.6	24.5 29.6	29.6
Park Slope (06)	1,625	15.0	23.0	55.2			2.5	14.4	7.4	76.5
Sunset Park (07)	2,047	15.8	69.1	43.3			2.1	69.2	10.9	38.3
Crown Heights North (08)	1,271	13.4	34.6	48.9				47.0	17.6	54.
Crown Heights South (09)	1,490	15.5	44.6	40.5			7.3	67.2	21.9	49.3
Bay Ridge (10)	1,691	12.1	64.8	41.9			3.8	56.7	12.3	42.7
Bensonhurst (11)	2,535	12.5	79.0	39.5		8.8	4.9	75.3	11.7	34.5
Borough Park (12)	4,946	24.9	32.4	27.0		5.8	2.1	78.5	10.3	33.
Coney Island (13)	1,150	10.9	67.4	39.5	9.7	11.2	8.7	71.9	18.4	37.8
Flatbush, Midwood (14)	2,445	15.1	54.7	38.9	8.4	9.0	6.4	64.5	16.4	38.2
Sheepshead Bay (15)	2,273	13.2	62.1	38.0	6.7	8.0	5.2	60.9	10.7	42.2
Brownsville (16)	1,226	15.0	36.3	39.3	11.7	12.4	13.7	81.6	31.8	23.3
East Flatbush (17)	1,767	11.8	59.3	41.9			12.4	70.6	28.8	26.2
Canarsie (18)	2,173	11.4	48.4	39.4				56.8	27.1	30.8
QUEENS	24,324	10.6	68.3	43.4						40.4
Astoria, Long Island City (01)	1,972	10.2	54.1	52.3						55.4
Sunnyside, Woodside (02)	1,630	11.7	64.5	56.5				44.0	11.4	54.2
Jackson Heights (03)	2,080	11.9	79.0	39.5		8.5		78.8	19.0	36.3
Elmhurst, Corona (04)	2,081	11.4	84.1	39.3			8.0	82.9	17.6	34.2
Ridgewood, Glendale (05)	1,675	10.4	63.6	43.4		7.0		58.7	15.8	38.8
Rego Park, Forest Hills (06)	1,297	11.5 9.4	67.0 86.1	50.3 44.3		7.6		37.2 74.6	9.3	46.4
Flushing (07) Fresh Meadows, Briarwood (08)	2,423 1,726	11.3	66.8	39.7		6.8 9.4		56.2		20
Woodhaven (09)	1,823	12.6	73.1	41.6			7.3	70.2	16.8 18.1	36.4 46.0
Howard Beach (10)	1,023	10.4	68.1	41.5			8.3	62.3	22.3	41.9
Bayside (11)	565	4.8	67.4	45.7			4.2	50.0		30.
lamaica, St. Albans (12)	2,895	12.7	65.7	39.4				70.2	26.1	44.9
Queens Village (13)	1,579	8.3	60.3	44.6				59.1	24.6	36.0
The Rockaways (14)	1,302	11.7	37.6	33.6				69.1	25.2	45
STATEN ISLAND	5,067	10.6	38.1	38.4						31
Port Richmond (01)	2,215	12.1	42.2	37.8					25.3	29.8
Willowbrook, South Beach (02)	1,364	10.0	47.8	36.6			2.1	49.7	16.7	32.
Tottenville (03)	1,474	9.4	23.1	40.8						32.
NEW YORK CITY RESIDENTS	102,427	12.2	51.5	42.5						
non-residents	11,860		37.3	43.9						
RESIDENCE UNKNOWN	9	_	37.5	14.3	12.5	12.5	0.0	100.0	12.5	

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

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

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

 $<sup>\</sup>ddagger$  Clinical gestational age < 37 completed weeks.

<sup>§</sup> Due to revision of the birth certificate, since 2008 "On Medicaid" also includes Family Health Plus, Other government, and Child Health Plus B.

Table PO8. Live Births by Mother's Birthplace and Borough of Residence, New York City, 2018

			Bor	ough of Resider	nce		M	Residence
Birthplace	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non- Residents	Unknown
United States	57,121	10,101	8,126	20,617	7,707	3,138	7,429	3
United States (excluding Puerto Rico)	56,282	9,986	7,728	20,457	7,603	3,117	7,388	3
Puerto Rico	839	115	398	160	104	21	41	-
Dominican Republic	<i>7,</i> 616	1,146	4,062	1,048	953	69	336	2
China	6,486	688	48	2,533	2,484	253	480	-
Mexico	3,51 <i>7</i>	334	895	956	997	260	<i>7</i> 5	-
Bangladesh	2,910	56	548	601	1,631	16	58	-
Ecuador	2,140	107	298	367	1,273	26	69	-
Jamaica	2,112	54	518	766	560	16	198	-
Guyana	1,750	22	118	519	983	6	102	-
Pakistan	1,522	43	98	655	416	101	209	-
India	1,486	206	36	82	700	33	429	-
Uzbekistan	1,397	17	-	952	374	27	27	-
Haiti	1,298	34	35	819	290	5	115	-
Yemen	1,071	60	298	479	185	28	21	-
Russia	952	166	13	445	145	77	106	-
Israel	830	181	13	413	100	30	93	-
Ukraine	817	99	13	484	68	73	80	-
Guatemala	794	15	137	290	285	23	44	-
Trinidad and Tobago	784	26	44	403	232	11	68	-
Nigeria	777	31	183	242	174	87	60	-
Honduras	758	28	299	154	210	30	37	-
El Salvador	720	21	90	117	377	8	107	-
Colombia	702	71	30	88	414	22	77	-
Ghana	686	25	531	32	42	25	31	-
Egypt	668	41	20	218	238	88	63	-
Other or Not Stated	15,382	3,023	2,058	4,653	3,487	615	1,545	1
Total	114,296	16,595	18,511	37,933	24,325	5,067	11,859	6

Table PO9. Live Births by Mother's Birthplace and Age Group, New York City, 2018

				Age Group	p (Years)			
Birthplace	Total	<20	20-24	25-29	30-34	35-39	≥40	Not Stated
United States	57,121	1,900	9,601	13,039	17,443	11,883	3,254	1
United States (excluding Puerto Rico)	56,282	1,857	9,425	12,820	17,260	11,713	3,206	1
Puerto Rico	839	43	176	219	183	170	48	-
Dominican Republic	7,616	348	1,510	2,271	1,953	1,182	352	-
China	6,486	13	410	2,126	2,461	1,162	314	-
Mexico	3,517	84	372	801	1,174	818	268	-
Bangladesh	2,910	10	569	992	878	391	70	-
Ecuador	2,140	61	323	489	619	479	169	-
Jamaica	2,112	47	256	519	614	522	154	-
Guyana	1,750	41	324	472	455	336	122	-
Pakistan	1,522	13	206	537	510	212	44	-
India	1,486	1	56	343	666	341	79	-
Uzbekistan	1,397	28	431	415	340	151	32	-
Haiti	1,298	14	79	254	410	387	154	-
Yemen	1,071	75	250	329	234	130	53	-
Russia	952	2	15	165	461	229	80	-
Israel	830	5	100	140	271	242	72	
Ukraine	817	0	44	184	324	215	50	-
Guatemala	794	51	154	223	217	123	26	-
Trinidad and Tobago	784	11	56	153	274	230	60	-
Nigeria	777	1	32	158	307	197	82	-
Honduras	758	45	152	172	204	143	42	-
El Salvador	720	39	156	177	177	134	37	-
Colombia	702	11	63	171	204	185	68	-
Ghana	686	2	25	146	283	149	81	-
Egypt	668	2	71	236	224	105	30	-
Other or Not Stated	15,382	88	1,043	2,927	5,361	4,448	1,515	
Total	114,296	2,892	16,298	27,439	36,064	24,394	7,208	1

Table PO10. Live Births and Pregnancy Rates\* to Teenagers (Age 15-19 Years) by Racial/Ethnic Group and Borough of Residence, New York City, 2018

	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	744	48	1,416	2,208	126,102	5.9	17.5
,	18-19	2,148	132	2,676	4,956	94,846	22.6	52.3
	Age 15-19	2,892	180	4,092	7,164	220,948	13.1	32.4
Racial/Ethnic Group‡		, i		,	,	· ·		
Hispanic	15-1 <i>7</i>	480	18	505	1,003	45,869	10.5	21.9
	18-19	1,200	36	905	2,141	32,185	37.3	66.5
	Age 15-19	1,680	54	1,410	3,144	78,054	21.5	40.3
Asian and Pacific Islander	15-1 <i>7</i>	15	1	43	59	15,841	0.9	3.7
	18-19	62	1	102	165	12,637	4.9	13.1
	Age 15-19	77	2	145	224	28,478	2.7	7.9
Non-Hispanic White	15-1 <i>7</i>	38	3	87	128	29,058	1.3	4.4
	18-19	268	16	219	503	25,601	10.5	19.6
	Age 15-19	306	19	306	631	54,659	5.6	11.5
Non-Hispanic Black	15-1 <i>7</i>	197	11	584	792	32,200	6.1	24.6
	18-19	582	44	1,040	1,666	22,061	26.4	75.5
	Age 15-19	779	55	1,624	2,458	54,261	14.4	45.3
NYC Events to NYC Residents§	15-1 <i>7</i>	718	46	1,306	2,070	126,102	5.7	16.4
	18-19	2,060	123	2,478	4,661	94,846	21.7	49.1
	Age 15-19	2,778	169	3,784	6,731	220,948	12.6	30.5
Racial/Ethnic Group§	_							
Hispanic	15-1 <i>7</i>	462	18	471	951	45,869	10.1	20.7
	18-19	1,165	36	860	2,061	32,185	36.2	64.0
	Age 15-19	1,627	54	1,331	3,012	78,054	20.8	38.6
Asian and Pacific Islander	15-1 <i>7</i>	15	1	39	55	15,841	0.9	3.5
	18-19	57	1	97	155	12,637	4.5	12.3
	Age 15-19	72	2	136	210	28,478	2.5	7.4
Non-Hispanic White	15-1 <i>7</i>	37	3	75	115	29,058	1.3	4.0
	18-19	240	14	186	440	25,601	9.4	17.2
	Age 15-19	277	1 <i>7</i>	261	555	54,659	5.1	10.2
Non-Hispanic Black	15-1 <i>7</i>	191	9	539	739	32,200	5.9	23.0
	18-19	565	41	961	1,567	22,061	25.6	71.0
	Age 15-19	756	50	1,500	2,306	54,261	13.9	42.5
Borough of Residence								
Manhattan	15-1 <i>7</i>	69	7	197	273	16,438	4.2	16.6
	18-19	206	15	416	637	19,979	10.3	31.9
	Age 15-19	275	22	613	910	36,417	7.6	25.0
Bronx	15-1 <i>7</i>	242	10	397	649	27,413	8.8	23.7
	18-19	676	24	648	1,348	19,186	35.2	70.3
	Age 15-19	918	34	1,045	1,997	46,599	19.7	42.9
Brooklyn	15-1 <i>7</i>	204	19	365	588	40,202	5.1	14.6
	18-19	682	45	718	1,445	27,470	24.8	52.6
	Age 15-19	886	64	1,083	2,033	67,672	13.1	30.0
Queens	15-1 <i>7</i>	160	7	293	460	33,416	4.8	13.8
	18-19	416	33	616	1,065	22,651	18.4	
	Age 15-19	576	40	909	1,525	56,067	10.3	27.2
Staten Island	15-17	43	3	54	100	8,633	5.0	
	18-19	80	6	80	166	5,560	14.4	
	Age 15-19	123	9	134	266	14,193	8.7	18.7
NYC Events to Non-NYC Residents	15-17	26	2	110	138	-	N.A.	N.A
	18-19	88	9	198	295	-	N.A.	N.A
	Age 15-19	114	11	308	433	-	N.A.	N.A

<sup>\*</sup> Population data used to calculate rates are from 2010 Census population estimates. See Technical Notes: Population.

<sup>†</sup> 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.

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

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

N.A. Not applicable.

Table PO11. Live Births to Teenagers (Age < 20 Years), Overall and by Selected Characteristics, New York City, 2014-2018

	2014	2015	2016	2017	2018
Total Live Births	122,084	121,673	120,367	117,013	114,296
Percent to Teenagers (Age < 20)	3.7	3.3	2.8	2.7	2.5
Population* (Females Age 15-19)	235,417	232,369	231,576	229,278	220,948
Birth Rate† (Age 15-19)	19.4	1 <i>7</i> .5	14.8	13.8	13.1
Births to Teenagers	4,572	4,073	3,425	3,1 <i>7</i> 5	2,892
Percent of Births with Specified Characteristics:					
Hispanic	58.5	59.0	59.0	59.9	59.3
Foreign-born‡	30.0	31.8	33.5	32.7	34.2
First Live Birth	85.9	86.1	88.1	87.3	87.7
<2,500 grams	9.6	10.5	9.7	10.6	9.5
Preterm§	9.3	10.0	9.0	10.6	9.3
Prenatal Care in First or Second					
Trimester of Pregnancy	85.4	84.7	85.3	84.3	84.4
Not Married	88.4	86.8	86.1	87.0	86.9
On Medicaid	90.3	91.0	90.3	90.4	90.2
Pre-pregnancy Obesity	13.6	13.9	13.6	14.3	15.2
Infant Mortality Rate¶	3.7	6.6	5.3	5.4	3.9

<sup>\*</sup> For denominator information, see Technical Notes: Population.

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

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

<sup>§</sup> Clinical gestational age < 37 completed weeks.

<sup>| |</sup> See Technical Notes: Births, Birth Reporting.

<sup>¶</sup> Infant mortality rate per 1,000 live births to teenagers.

Table PO12. Live Births to Teenagers (Age < 20 Years) by Selected Characteristics and by Community District of Residence, New York City, 2016-2018\*

	Т									
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	9,492	2.7	33.4	87.7	9.9	9.6	15.3	86.7	90.3	26.6
MANHATTAN	918	1.8	26.5	87.9	10.2	10.9	11.9	93.7	91.7	25.9
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	0.0	0.0	0.0	100.0	100.0	20.0
Lower East Side (03) Chelsea, Clinton (04)	89 35	2.4 1.2	14.9 17.1	87.6 82.9	7.9 11.4	11.4 5.7	11.1 14.3	93.3 97.1	93.0 94.1	39.3 37.1
Midtown Business District (05)	8	0.5	0.0	50.0	0.0	0.0	0.0	87.5	87.5	37.1
Murray Hill (06)	15	0.4	26.7	100.0	13.3	20.0	16.7	93.3	80.0	33.3
Upper West Side (07)	47	0.7	13.0	80.9	12.8	4.3	7.7	95.7	89.4	46.8
Upper East Side (08)	11	0.1	9.1	90.9	0.0	0.0	0.0	100.0	63.6	27.3
Manhattanville (09)	134	4.5	25.6	91.8	7.5	8.2	14.9	94.0	95.5	29.1
Central Harlem (10)	163	3.6	14.7	85.3	13.5	12.9	10.8	95.1	90.2	23.9
East Harlem (11)	177	4.0	15.8	87.0	11.9	16.9	11.0	93.2	90.9	23.2
Washington Heights (12)	233	3.8	53.6	91.0	9.0	8.6	12.8	91.8	92.7	15.9
BRONX Mott Haven (01)	2,973 310	5.2 6.8	33.6	86.8	10.3 12.6	9.1	17.5	92.2	93.6 94.1	21.0
Hunts Point (02)	138	5.7	25.8 25.4	85.2 89.9	8.0	7.2	15.0 17.2	93.5 95.7	93.5	21.3 23.2
Morrisania (03)	237	5.5	19.4	86.1	7.6	8.0	19.2	94.9	91.6	21.9
Concourse, Highbridge (04)	394	5.5	44.2	87.6	9.4	7.6	16.0	91.9	94.6	17.8
University/Morris Heights (05)	373	5.7	41.3	85.4	11.3	10.5	15.4	91.7	93.2	15.8
East Tremont (06)	262	7.1	27.5	84.7	10.3	10.3	14.2	95.4	93.1	21.4
Fordham (07)	306	4.8	50.0	87.6	9.5	8.8	17.2	94.1	95.4	23.2
Riverdale (08)	68	2.2	42.6	91.2	13.2	8.8	17.2	92.6	95.5	20.6
Unionport, Soundview (09)	373	5.3	32.7	89.0	10.2	8.6	21.9	90.9	94.3	23.1
Throgs Neck (10)	87	2.9	16.1	93.1	14.9	9.2	17.4	87.4	88.5	23.0
Pelham Parkway (11) Williamsbridge (12)	155 270	3.8 5.3	34.8 24.1	85.8 84.4	9.7 10.7	9.7 7.8	22.2 19.2	75.5 94.8	92.9 93.0	31.0 18.5
BROOKLYN	2,906	2.5	32.2	88.9	9.1	10.0	13.4	79.6	90.8	24.9
Williamsburg, Greenpoint (01)	162	1.5	13.6	96.3	4.9	8.0	9.9	55.6	90.1	39.8
Fort Greene, Brooklyn Heights (02)	54	1.1	15.1	88.9	13.0	16.7	2.0	98.1	84.9	13.0
Bedford Stuyvesant (03)	232	3.5	19.6	89.7	10.3	8.2	15.3	81.0	92.6	19.4
Bushwick (04)	188	5.3	33.5	91.5	6.9	9.0	16.5	96.3	94.0	22.3
East New York (05)	433	5.4	30.9	87.5	12.2	9.9	15.0	95.6	92.0	28.2
Park Slope (06)	37	0.7	24.3	86.5	10.8	10.8	11.1	89.2	97.2	18.9
Sunset Park (07)	177	2.6	50.3	82.5	5.6	9.6	8.5	84.7	96.0	21.0
Crown Heights North (08) Crown Heights South (09)	100	2.6 1.4	12.0 54.0	83.0 92.1	9.0 6.3	11.0 9.5	20.4 20.0	95.0 85.7	91.9 95.1	15.0 23.8
Bay Ridge (10)	69	1.3	59.4	92.1	8.7	10.1	4.3	66.7	85.3	29.0
Bensonhurst (11)	130	1.6	60.0	89.2	8.5	10.1	10.2	62.3	92.3	29.7
Borough Park (12)	258	1.7	33.3	93.0	5.4	4.3	7.1	34.1	89.5	29.1
Coney Island (13)	135	3.7	31.1	83.7	12.6	14.1	13.3	81.5	97.0	18.5
Flatbush, Midwood (14)	173	2.3	43.9	86.7	10.4	11.0	12.5	74.6	90.1	23.8
Sheepshead Bay (15)	108	1.6	44.4	89.8	6.5	8.3	12.7	43.5	78.7	28.7
Brownsville (16)	242	6.3	15.7	90.1	9.9	11.2	15.6	97.9	89.5	24.0
East Flatbush (17)	198	3.6	37.4	87.4	11.6	15.7	22.3	94.4	90.7	20.2
Canarsie (18)	147	2.2	24.5	89.1	8.2	9.5	15.0	89.1	83.6	27.9
QUEENS Astoria, Long Island City (01)	1,954 122	2.6	43.2 23.0	87.2 85.2	10.1 8.2	8.8 11.5	18.7 21.0	87.5 92.6		39.5 31.7
Sunnyside, Woodside (02)	55	1.1	36.4	90.9	7.3	7.3	23.6	85.5	96.4	32.7
Jackson Heights (03)	279	4.1	54.5	84.9	7.5	7.9	20.0	88.2	91.4	31.7
Elmhurst, Corona (04)	206	2.9	51.0	88.8	7.3	7.8	14.4	88.8	94.1	27.7
Ridgewood, Glendale (05)	137	2.5	35.0	91.2	8.0	10.9	23.3	83.9	85.3	24.8
Rego Park, Forest Hills (06)	30	0.7	63.3	83.3	13.3	10.0	10.0	63.3	93.1	30.0
Flushing (07)	115	1.4	60.9	92.2	5.2	7.0	10.6	81.7	87.8	32.2
Fresh Meadows, Briarwood (08)	64	1.2	42.2	85.9	7.8	3.1	19.4	68.8	84.4	34.4
Woodhaven (09)	158	2.8	44.9	83.5	12.0	10.1	16.7	86.1	88.0	58.9
Howard Beach (10) Bayside (11)	105	2.7	52.4	89.5	12.4	5.7 10.0	17.5	83.8	83.8 100.0	62.9
Jamaica, St. Albans (12)	356	0.5 4.0	40.0 40.3	90.0 87.4	0.0 14.3	9.0	10.0 19.6	90.0 92.1	83.9	30.0 51.1
Queens Village (13)	125	2.5	38.4	94.4	12.0	8.0	19.7	86.4	81.5	40.8
The Rockaways (14)	192	4.9	28.1	80.2	12.0	12.0	22.3	93.8	91.1	38.0
STATEN ISLAND	378	2.4	14.6	84.6	10.6	10.8	7.8	90.5	79.5	20.2
Port Richmond (01)	291	4.3	11.3	84.2	9.3	10.7	9.1	94.5	81.4	19.0
Willowbrook, South Beach (02)	56	1.3	36.4	87.3	10.7	8.9	3.6	78.6		23.2
Tottenville (03)	30		6.7	86.7	23.3	16.7	3.3	76.7	53.3	26.7
NEW YORK CITY RESIDENTS	9,129	2.9	33.7	87.6	9.9	9.6		87.3	90.7	26.7
NON-RESIDENTS	361	1.0	26.9	91.1	11.6	10.2	10.5	71.2		24.4
RESIDENCE UNKNOWN	2	-		100.0	-		-	100.0	50.0	-

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.

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

<sup>†</sup> Due to revision of the birth certificate, since 2008, "On Medicaid" also includes Family Health Plus, Other government, and Child Health Plus B.

Table PO13. Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy, Overall and by Borough of Residence and Woman's Age Group, New York City, 2018\*

					Age C	Group (Years	)		
									Unknown
Borough of Residence /	Total	< 18	18-19	20-24	25-29	30-34	35-39	≥40	or Not
Pregnancy Outcome	1								Stated
NEW YORK CITY	171,731	2,208	4,956	29,995	43,210	48,411	32,399	10,548	4
Live Births	114,296	744	2,148	16,298	27,439	36,064	24,394	7,208	1
Spontaneous Terminations	7,676	48	132	864	1,512	2,109	1,958	1,052	1
Induced Terminations	49,759	1,416	2,676	12,833	14,259	10,238	6,047	2,288	2
MANHATTAN	27,198	273	637	3,534	5,566	8,713	6,338	2,137	-
Live Births	16,595	69	206	1,240	2,653	6,264	4,731	1,432	-
Spontaneous Terminations	1,278	7	15	74	1 <i>7</i> 5	421	390	196	-
Induced Terminations	9,325	197	416	2,220	2,738	2,028	1,217	509	-
BRONX	31,088	649	1,348	6,930	9,041	7,402	4,255	1,463	-
Live Births	18,511	242	676	3,752	5,357	4,800	2,789	895	-
Spontaneous Terminations	1,106	10	24	159	283	266	226	138	-
Induced Terminations	11,471	397	648	3,019	3,401	2,336	1,240	430	-
BROOKLYN	52,468	588	1,445	9,947	13,281	14,131	9,886	3,189	1
Live Births	37,932	204	682	6,446	9,315	11,055	7,857	2,373	-
Spontaneous Terminations	2,259	19	45	306	441	58 <i>7</i>	559	302	-
Induced Terminations	12,277	365	<i>7</i> 18	3,195	3,525	2,489	1,470	514	1
QUEENS	37,245	460	1,065	6,455	9,963	10,460	6,661	2,181	-
Live Births	24,325	160	416	3,255	6,512	7,727	4,883	1,372	-
Spontaneous Terminations	1,838	7	33	229	417	480	419	253	-
Induced Terminations	11,082	293	616	2,971	3,034	2,253	1,359	556	-
STATEN ISLAND	6,697	100	166	937	1,751	2,193	1,208	342	-
Live Births	5,067	43	80	551	1,304	1,841	996	252	-
Spontaneous Terminations	370	3	6	34	74	115	98	40	-
Induced Terminations	1,260	54	80	352	373	237	114	50	-
NON-RESIDENTS	16,948	137	288	2,175	3,587	5,489	4,037	1,235	-
Live Births	11,860	26	88	1,054	2,297	4,373	3,138	884	-
Spontaneous Terminations	823	2	8	62	122	240	266	123	-
Induced Terminations	4,266	109	192	1,059	1,168	876	633	228	1
RESIDENCE UNKNOWN	86	1	7	17	21	23	14	1	2
Live Births	6	-	-	-	1	4	-	-	1
Spontaneous Terminations	2	-	1	-	-	-	-	-	1
Induced Terminations	78	1	6	1 <i>7</i>	20	19	14	1	_

<sup>\*</sup>See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

Table PO14. Spontaneous Terminations of Pregnancy by Gestational Age and Woman's Age Group New York City, 2018

		Age Group (Years)									
Gestational Age (Weeks)	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or not stated		
Total	7,676	48	132	864	1,512	2,109	1,958	1,052	1		
<13	5,727	34	100	604	1,051	1,566	1,522	850	-		
13-15	488	1	4	56	113	140	11 <i>7</i>	57	-		
16-19	586	7	5	72	143	1 <i>7</i> 1	124	64	-		
20-27	495	5	1 <i>7</i>	80	114	135	101	43	-		
≥28	378	1	6	52	91	96	94	38	-		
Not Stated	2	-	-	-	-	1	-	-	1		

<sup>\*</sup>See Technical Notes: Spontaneous and Induced Terminations of Pregnancy.

Table PO15. Selected Characteristics of Spontaneous Terminations of Pregnancy, ≥28 Weeks Gestation, Overall and by Woman's Age Group, New York City, 2018

				Age	Group (Y	ears)		
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	378	1	6	52	91	96	94	38
Sex								
Male	193	-	5	30	42	53	46	17
Female	176	1	1	21	46	42	46	19
Undetermined	9	-	-	1	3	1	2	2
Weight at Delivery (Grams)								
< 500	12	-	-	1	4	3	3	1
500-999	36	-	1	7	9	6	10	3
1,000-1,499	46	-	3	5	13	7	13	5
1,500-1,999	60	1	-	10	12	17	14	6
2,000-2,499	70	-	1	7	20	23	15	4
≥2,500	139	-	1	19	31	35	35	18
Not stated	15	-	-	3	2	5	4	1

<sup>\*</sup>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, 2018\*

				Racial/Ethni	ic Group			
	Total	Puerto Rican	Other Hispanic	Asian and Pacific Islander	Non- Hispanic White	Non- Hispanic Black	Other	Not Stated
Total	378	7	58	47	102	105	12	47
Sex								
Male	193	4	35	23	45	58	7	21
Female	176	2	23	24	53	44	5	25
Undetermined	9	1	-	-	4	3	-	1
Weight at Delivery (Grams)								
< 500	12	1	1	1	4	4	-	1
500-999	36	1	6	4	5	17	-	3
1,000-1,499	46	1	3	5	12	16	3	6
1,500-1,999	60	-	10	7	10	23	1	9
2,000-2,499	70	1	12	9	19	17	4	8
≥2,500	139	2	25	19	45	28	4	16
Not stated	15	1	1	2	7	-	-	4

<sup>\*</sup>See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

Table PO17. Live Births, Spontaneous Terminations of ≥28 Weeks Gestation, and Induced Terminations of Pregnancy by Borough of Residence and Occurrence, New York City, 2018\*

Borough of Residence /	Total -		Boro	ough of Occurre	ence	
Pregnancy Outcome	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	164,433	65,182	21,686	34,708	37,077	5,780
Live Births	114,296	42,945	13,452	28,270	23,963	5,666
Spontaneous Terminations	378	137	45	111	71	14
Induced Terminations	49,759	22,100	8,189	6,327	13,043	100
MANHATTAN	25,963	23,709	1,040	516	687	11
Live Births	16,595	15,893	295	271	126	10
Spontaneous Terminations	43	40	1	2	-	-
Induced Terminations	9,325	7,776	744	243	561	1
BRONX	30,051	9,960	19,183	348	538	22
Live Births	18,511	5,756	12,262	240	231	22
Spontaneous Terminations	69	26	39	4	-	-
Induced Terminations	11,471	4,178	6,882	104	307	
BROOKLYN	50,359	15,237	227	30,242	3,388	1,265
Live Births	37,932	10,048	96	25,065	1,473	1,250
Spontaneous Terminations	150	43	1	97	4	5
Induced Terminations	12,277	5,146	130	5,080	1,911	10
QUEENS	35,483	6,635	216	1,879	26,718	35
Live Births	24,325	4,556	106	1,479	18,150	34
Spontaneous Terminations	76	13	1	5	57	-
Induced Terminations	11,082	2,066	109	395	8,511	1
STATEN ISLAND	6,339	1,028	30	1,011	101	4,169
Live Births	5,067	291	11	662	30	4,073
Spontaneous Terminations	12	2	-	1	-	9
Induced Terminations	1,260	<i>7</i> 35	19	348	<i>7</i> 1	87
NON-RESIDENTS	16,153	8,556	985	<i>7</i> 01	5,634	277
Live Births	11,860	6,400	681	551	3,952	276
Spontaneous Terminations	27	13	3	1	10	-
Induced Terminations	4,266	2,143	301	149	1,672	1
RESIDENCE UNKNOWN	85	57	5	11	11	1
Live Births	6	1	1	2	1	1
Spontaneous Terminations	1	-	-	1	-	-
Induced Terminations	78	56	4	8	10	-

<sup>\*</sup>See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

Table PO18. Induced Terminations of Pregnancy by Selected Characteristics and Woman's Age Group, New York City, 2018\*

					Age Grou	p (Years)			
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Induced Termination of Pregnancy, All	49,759	1,416	2,676	12,833	14,259	10,238	6,047	2,288	2
Racial/Ethnic Group									
Hispanic	14,114	505	905	4,088	4,029	2,653	1,436	498	-
Asian and Pacific Islander	2,998	43	102	646	819	697	509	182	-
Non-Hispanic White	6,593	87	219	1,310	1,866	1,573	1,086	452	-
Non-Hispanic Black	17,252	584	1,040	4,696	5,137	3,382	1,794	618	1
Other	949	21	64	277	278	168	95	46	-
Unknown	7,853	176	346	1,816	2,130	1,765	1,127	492	1
Marital Status									
Married	7,888	17	89	980	2,015	2,259	1,768	760	-
Not married	34,943	1,254	2,312	10,365	10,405	6,348	3,199	1,059	1
Other/Unknown	6,928	145	275	1,488	1,839	1,631	1,080	469	1
Gestational Age (Weeks)									
≤6	21,637	504	1,067	5,417	6,531	4,565	2,586	967	-
7 - 8	14,083	366	726	3,599	4,045	2,925	1,766	656	-
9 - 10	5,712	171	338	1,585	1,582	1,142	659	235	-
11 - 12	2,923	117	199	807	779	535	341	145	-
13 - 15	2,119	83	122	557	520	422	295	120	-
16 - 20	2,033	101	142	573	506	377	228	106	-
≥21	1,171	73	81	277	283	246	157	53	1
Unknown	81	1	1	18	13	26	15	6	1
Type of Primary Termination Procedure									
Suction curettage	31,075	826	1,603	7,780	8,905	6,551	3,908	1,501	1
Sharp curettage / D+C	1,190	30	35	230	273	265	236	121	-
Dilation and evacuation	3,497	158	230	940	862	664	458	185	-
Intrauterine instillation	23			2	4	10	4	3	-
Hysterotomy / hysterectomy	15		2	5	5	2	1		-
Medical (non-surgical)	13,836	399	803	3,860	4,191	2,708	1,407	468	-
Other	58	2	1	4	10	15	18	8	-
Procedure Missing	65	1	2	12	9	23	15	2	1

<sup>\*</sup>See Technical Notes: Spontaneous and Induced Terminations of Pregnancy.

Table PO19. Induced Terminations of Pregnancy by Woman's Marital Status, Age Group, and Racial/Ethnic Group, New York City, 2014-2018\*

	2014	2015	2016	2017	2018
Marital Status (Percent)					
Married	13.9	14.7	14.6	15.3	15.9
Not married	73.6	72.8	75.3	72.9	70.2
Other/Unknown	12.6	12.6	10.1	11.8	13.9
Age Group (Years)					
< 20	7,067	5,908	5,400	4,754	4,092
20 - 24	19,764	18,049	16,218	14,492	12,833
25 - 29	18,345	17,499	17,004	15,576	14,259
30 - 34	12,462	11,979	11,607	10,725	10,238
35 - 39	7,262	7,108	6,981	6,474	6,047
≥40	2,718	2,705	2,642	2,368	2,288
Unknown	2	2	2	2	2
Racial/Ethnic Group					
Hispanic	20,371	18,139	16,718	14,443	14,114
Asian and Pacific Islander	4,547	4,012	3,490	3,047	2,998
Non-Hispanic White	9,401	9,652	9,139	7,471	6,593
Non-Hispanic Black	27,367	25,515	23,209	20,569	17,252
Other	2,477	2,155	1,711	1,930	949
Unknown	3,457	3,777	5,587	6,931	7,853
Total	67,620	63,250	59,854	54,391	49,759

<sup>\*</sup>See Technical Notes: Spontaneous and Induced Terminations of Pregnancy Reporting.

Table PO20. Characteristics of Birth and Pregnancy Outcomes by Neighborhood Poverty\*†, New York City, 2009 and 2018

	Lo	ow (< 10%)	·	Mediu	Medium (10 to < 20%)			(20 to < 30	0%)	Very	High (≥30	)%)
			Chg 2009			Chg 2009			Chg 2009			Chg 2009
			to 2018			to 2018			to 2018			to 2018
Birth Characteristics	2018	2009	(%)	2018	2009	(%)	2018	2009	(%)	2018	2009	(%)
Births	23,582	28,380	-16.9	29,508	32,150	-8.2	22,262	25,654	-13.2	26,990	30,542	-11.6
Population	2,317,327	2,568,779	-9.8	2,631,852	2,409,595	9.2	1,733,143	1,571,814	10.3	1,707,264	1,626,937	4.9
Birth Rate (per 1,000 population)	10.2	11.0	-7.9	11.2	13.3	-16.0	12.8	16.3	-21.3	15.8	18.8	-15.8
Preterm Live Births (%)	8.0	9.0	-11.1	9.0	9.2	-2.2	9.5	9.7	-2.1	9.2	10.1	-8.9
Low Birth Weight (%)	7.5	8.4	-10.7	8.4	8.4	0.0	9.1	8.4	8.3	8.8	9.5	-7.4
Body Mass Indicator												
Normal (%)	61.5	63.1	-2.5	52.0	53.9	-3.5	47.0	51.0	-7.8	43.8	46.9	-6.6
Overweight/Obese (%)	32.8	30.8	6.5	42.9	40.5	5.9	48.1	43.0	11.9	51.2	48.0	6.7
C-section (%)	34.0	36.2	-6.1	33.9	34.3	-1.2	33.9	31.3	8.3	29.7	29.0	2.4
Multiple Births (%)	3.7	4.9	-24.5	3.4	3.4	0.0	3.3	3.1	6.5	3.1	3.0	3.3
Breastfed Exclusively (%)	56.4	39.7	42.1	43.9	29.8	47.3	36.2	26.7	35.6	30.2	28.2	7.1
Late or No Prenatal Care (%)	4.4			6.6			7.8			8.5		
Foreign Born (%)‡	44.0	45.7	-3.7	59.0	61.4	-3.9	58.6	58.8	-0.3	43.9	42.8	2.6

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

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

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, 2018

	Age Group†	Live B	Sirths	Sponta Termir	aneous nations	Indu Termin		Pregr	iancy
	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	2,892	13.1	180		4,092	18.5	7,164	32.4
new roncenys	20-29	43,737	64.7	2,376		27,092	40.1	73,205	108.3
	30-39	60,458	88.8	4,067	6.0	16,285	23.9	80,810	118.7
	40-49	7,208	13.1	1,052	1.9	2,288	4.1	10,548	19.1
	Total	114,296	13.6	7,676	4.1	49,759	26.8	171,731	92.6
Racial/Ethnic Group§	1 5 (6)	111/200	10.0	1,010		10). 00		,	
Hispanic	15-19	1,680	21.5	54	0.7	1,410	18.1	3,144	40.3
mopanie	20-29	14,800	75.4	514	2.6	8,117	41.3	23,431	119.3
	30-39	13,621	73.1	645	3.5	4,089	21.9	18,355	98.5
	40-49	1,605	9.9	175	1.1	498	3.1	2,278	14.1
	Total	31,706	12.9	1,388	2.6	14,114	26.0	47,208	87.1
Asian and Pacific Islander	15-19	77	2.7	2		145	5.1	224	7.9
	20-29	6,692	64.5	183	1.8	1,465	14.1	8,340	80.4
	30-39	11,138	97.6	416	3.6	1,206	10.6	12,760	111.8
	40-49	1,117	11.8	108	1.1	182	1.9	1,407	14.9
	Total	19,024	15.4	709	2.4	2,998	10.2	22,731	77.3
Non-Hispanic White	15-19	306	5.6	19		306	5.6	631	11.5
Tron Paris Trinte	20-29	12,433	58.3	505	2.4	3,176	14.9	16,114	75.6
	30-39	24,639	107.4	1,326	5.8	2,659	11.6	28,624	124.7
	40-49	2,949	18.8	307	2.0	452	2.9	3,708	23.6
	Total	40,327	15.0	2,157	3.7	6,593	11.4	49,077	85.0
Non-Hispanic Black	15-19	779	14.4	55	1.0	1,624	29.9	2,458	45.3
11011 Trispanie Black	20-29	9,104	61.9	589	4.0	9,833	66.9	19,526	132.8
	30-39	9,875	71.8	689	5.0	5,176	37.6	15,740	114.4
	40-49	1,387	10.8	192	1.5	618	4.8	2,197	17.0
	Total	21,145	11.4	1,525	3.8	17,252	43.0	39,922	99.5
Borough of Residence¶	1 5 (1)	2.7		1,020	0.0	,	10.0	00,022	
Manhattan	15-19	275	7.6	22	0.6	613	16.8	910	25.0
	20-29	3,893	24.3	249	1.6	4,958	30.9	9,100	56.8
	30-39	10,995	71.6	811	5.3	3,245	21.1	15,051	98.0
	40-49	1,432	13.8	196		509	4.9	2,137	20.6
	Total	16,595	10.2	1,278	3.2	9,325	23.1	27,198	67.5
Bronx	15-19	918	19.7	34		1,045	22.4	1,997	42.9
	20-29	9,109	79.2	442	3.8	6,420	55.8	15,971	138.8
	30-39	7,589	71.3	492	4.6	3,576	33.6	11,657	109.6
	40-49	895	9.6	138	1.5	430	4.6	1,463	15.6
	Total	18,511	12.9	1,106	3.5	11,471	36.5	31,088	98.8
Brooklyn	15-19	886	13.1	64	0.9	1,083	16.0	2,033	30.0
7	20-29	15,761	75.5	747	3.6	6,720	32.2	23,228	111.2
	30-39	18,912	86.2	1,146	5.2	3,959	18.1	24,017	109.5
	40-49	2,373	14.1	302		514	3.0	3,189	18.9
	Total	37,932	14.7	2,259		12,277	21.1	52,468	90.2
Queens	15-19	576	10.3	40		909	16.2	1,525	27.2
<b>,</b>	20-29	9,767	60.9	646		6,005	37.4	16,418	102.3
	30-39	12,610	73.7	899		3,612	21.1	17,121	100.1
	40-49	1,372	8.9	253		556	3.6	2,181	14.2
	Total	24,325	10.7	1,838		11,082	23.9	37,245	80.4
Staten Island	15-19	123	8.7	9		134	9.4	266	18.7
	20-29	1,855	59.7	108		725	23.3	2,688	86.5
	30-39	2,837	92.6	213		351	11.5	3,401	111.0
	40-49	252	7.9	40		50	1.6	342	10.7
	Total	5,067	10.6	370		1,260	13.8	6,697	73.5

Population data used to calculate rates are 2018 estimates from the US Census Bureau. See Technical Notes: Population.

<sup>\*</sup>See Technical Notes: Population, Vital Event Rates.

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

<sup>‡</sup>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.

<sup>§</sup>Includes all events occurring in NYC regardless of residence.

 $<sup>|\,|\,</sup> Other/unknown \; race \; and \; ethnicity \; are \; excluded.$ 

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

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

Rank		Girls												
Kalik	1898	1928	1948	1980	1990	2000	2005	2010	2013	2014	2015	2016	2017	2018
1	Mary	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Isabella	Sophia	Sophia	Olivia	Olivia	Emma	Emma
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Sophia	Isabella	Isabella	Sophia	Sophia	Olivia	Isabella
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Olivia	Emma	Olivia	Emma/Mia	Emma	Mia	Sophia
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Emily	Olivia	Mia	Isabella	Isabella	Sophia	Mia
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Madison	Mia	Emma	Leah	Mia	Isabella	Olivia
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Mia	Emily	Emily	Emily	Ava	Ava	Ava
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Emma	Leah	Leah	Ava	Emily	Leah	Leah
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Leah	Sofia	Ava	Chloe	Leah	Emily	Sarah
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Sarah	Madison	Sofia	Madison	Sarah	Sarah	Amelia
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Chloe	Chloe	Chloe	Sarah	Madison	Abigail	Chloe

Rank		Boys												
Naiik	1898	1928	1948	1980	1990	2000	2005	2010	2013	2014	2015	2016	2017	2018
1	John	John	Robert	Michael	Michael	Michael	Michael	Jayden	Jayden	Ethan	Ethan	Liam	Liam	Liam
2	William	William	John	David	Christopher	Justin	Daniel	Ethan	Ethan	Jacob	Liam	Jacob	Noah	Noah
3	Charles	Joseph	James	Jason	Jonathan	Christopher	Joshua	Daniel	Jacob	Liam	Noah	Ethan	Jacob	Ethan
4	George	James	Michael	Joseph	Anthony	Matthew	David	Jacob	Daniel	Jayden	Jacob	Noah	Ethan	Jacob
5	Joseph	Richard	William	Christopher	David	Daniel	Justin	David	David	Noah	Jayden	Aiden	David	Aiden
6	Edward	Edward	Richard	Anthony	Daniel	Anthony	Matthew	Justin	Noah	Daniel	Matthew	Matthew	Lucas	David
7	James	Robert	Joseph	John	Joseph	Joshua	Anthony	Michael	Michael	Michael	David	Daniel	Matthew	Lucas
8	Louis	Thomas	Thomas	Daniel	Matthew	David	Christopher	Matthew	Matthew	Alexander	Daniel/Dylan	Lucas	Jayden	Matthew
9	Francis	George	Stephen	Robert	John	Joseph	Joseph	Joseph	Alexander	David	Aiden	Michael	Aiden	Daniel
10	Samuel	Louis	David	James	Andrew	Kevin	Nicholas	Joshua	Liam	Matthew	Michael	Dylan	Daniel	Alexander

Table PO23. Most Popular Baby Names by Sex and Mother's Racial/Ethnic Group, New York City, 2018

			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	Esther	Chloe	Liam	Liam	Noah	David	Muhammad
2	Isabella	Emma	Madison	Leah	Olivia	Noah	Noah	Liam	Joseph	Ethan
3	Sophia	Sophia	Olivia	Sarah	Mia	Ethan	Matthew	Aiden	Michael	Jasper
4	Mia	Mia	Skylar	Olivia	Sophia	Jacob	Dylan	Jeremiah	Moshe	Aiden
5	Olivia	Camila	Amelia	Chaya	Emma	Aiden	Sebastian	Josiah*	Jacob	Ryan
6	Ava	Sofia	Zuri	Emma	Amelia	David	Jacob	Logan*	Benjamin	Lucas
7	Leah	Luna	Riley	Rachel	Emily	Lucas	Jayden	Amir†	Alexander	Jayden
8	Sarah	Valentina	Chloe	Charlotte	Evelyn	Matthew	Ethan	Ethan†	James	Liam
9	Amelia	Abigail	Isabella	Chana	Grace*	Daniel	Lucas	Elijah	William	Noah
10	Chloe	Amelia	Zoey	Sophia	Isabella*	Alexander	Aiden	Jayden	Jack	Daniel

<sup>\*</sup> Tied ranks

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

<sup>†</sup> Tied ranks

# SUMMARY OF VITAL STATISTICS 2018 THE CITY OF NEW YORK Appendix B

# Technical Notes and New York City Vital Event Certificates



### **POPULATION**

### CITYWIDE POPULATION

The 2018 NYC population estimates used in tables and figures are based on the US Census Bureau 2018 Vintage population estimate as extracted from the Census website (https://www.census.gov/data/datasets/2018/demo/popest/counties-detail.html/cc-est2018-alldata-36.csv). The 2018 US Census population estimate for New York City (NYC) is 8,398,748. See Table PC2 for 2018 NYC population estimates by age, mutually exclusive race and Hispanic origin, and sex. Population data used to compute rate trends (2009-2018), regardless of NYC geography presented, was estimated by DOHMH, Epidemiology Services, using the methodology found below under Community District Population Estimates. Population estimates for 2012-2018 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 "other 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 view 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.

### 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 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.

### 2018 Community District estimates

The 2018 Community District population estimates were calculated based on the Census postcensal estimate for 2018 released in June 2019 (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 2011-2018 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 Bureau of Epidemiology Services based on 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 nonresidents 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, with the exception of 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. Puerto Rico, 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," or "Not Stated." When mother's birthplace is classified by country-specific categories, Puerto Rico is included in the United States counts, as well as reported individually so as to identify any emergent health issues.

### **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).

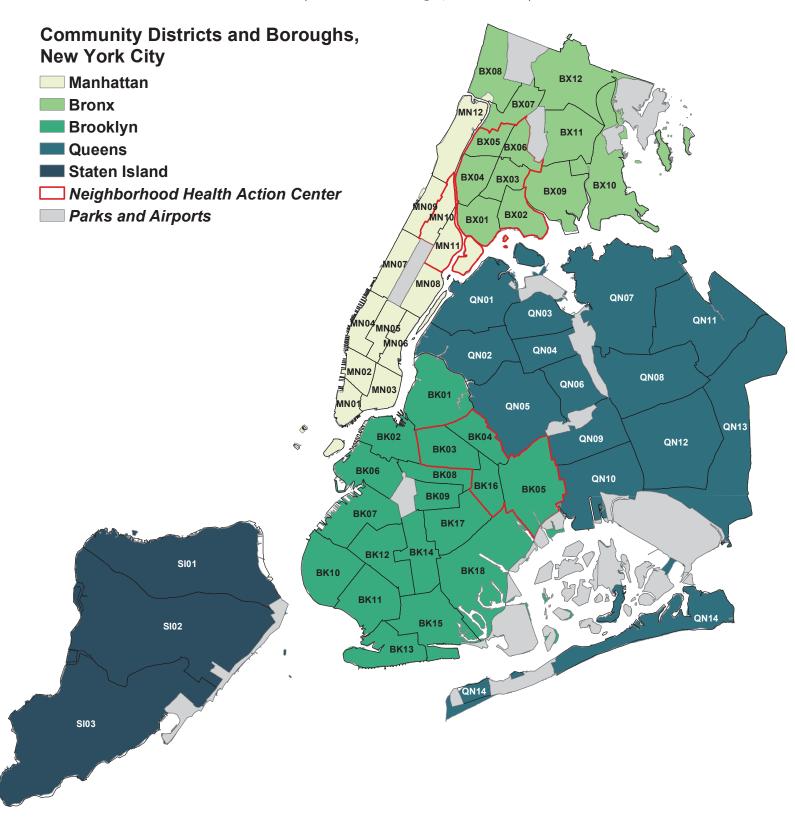
### NEIGHBORHOOD POVERTY INDICATOR

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:	Medium:	High:	Very High:
< 10% of the population	10-19% of the population	20-29% of the population	≥30% of the population
below poverty	below poverty	below poverty	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 poverty indicator can be found at <a href="http://www.hsph.harvard.edu/thegeocodingproject/">http://www.hsph.harvard.edu/thegeocodingproject/</a>.

Community Districts and Boroughs, New York City



### **VITAL EVENT RATES**

### **D**EATH **R**ATES

Death Rate, all causes per 1,000 population	Death Rate, specified causes per 100,000 population					
Deaths to all causes Population x 1,000	Deaths to specific causes (specified ICD10 codes)  Population x 100,000					
Death Rate, age and sex specific per 1,000 population	Death Rate, age -adjusted per 100,000 population					
Deaths to persons of specified age group and sex Population, specified age group and sex	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 A Table M13)					
Deaths due to complications of pregnancy, childbirth and the	e puerperium occurring within 42 days of delivery					
Live births	x 100,000					
*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						
Fetal deaths 28 weeks and o	ver + infant deaths under 7 days x 1,000					
Fetal deaths 28 weeks o						
Infant Mortality Rates						

Infant Mortality Rate		Neonatal Mortality Rate	
Deaths to infants < 1 yr old  Number of live births	1,000	Deaths to infants < 28 days of life  Number of live births	x 1,000
Early Neonatal Mortality Rate		Late Neonatal Mortality Rate	
Deaths to infants < 7 days of life  Number of live births	1,000	Deaths to infants 7-27 days of life  Number of live births	x 1,000

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

### PREGNANCY OUTCOME RATES

Fertility Rate	Pregnancy Rate	
Live births Female population aged 15 to 44 years	$\frac{\sum \textit{(Births, Spontaneous, Induced Terminations)}}{Female \textit{ population aged 15 to 44 years}}$	x 1,000

BIRTH RATES Total birth rate	Age-specific birth rate
Total births  Total population regardless of age or sex	Births among specific age group  Female population of specific age group  x 1,000
Total spontaneous termination rate	Age-specific spontaneous termination rate
Total spontaneous terminations Female population ages 15 to 44 years x 1,000	Spontaneous terminations among specific aged females Female population of specified age group  x 1,000

Total induced termination of pregnancy rate		Age-specific induced termination of pregnancy rate		
Total induced terminations x	1,000	Induced terminations among specific aged females	x 1,000	
Female population age 15 to 44 years		Female population of specified age group		

Fetal-infant Mortality Rate (FIMR)	
[Fetal deaths (weight $\geq 500$ grams and gestational age $\geq 24$ weeks) + infant deaths (under 1 year old)]	— x 1,000
[Live births (birthweight ≥ 500 grams)]	— x 1,000

### 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 in back of 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 due to other certain 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.

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.

### **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 en-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 2017, 94% 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 <a href="https://www1.nyc.gov/site/doh/providers/reporting-and-services/evital.page">https://www1.nyc.gov/site/doh/providers/reporting-and-services/evital.page</a>.

### CAUSE OF DEATH- QUALITY IMPROVEMENT INITIATIVE

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

### CAUSE OF DEATH CODING

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

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

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

Death trends across ICD code revision years may change as a fact 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:

Deaths from cause ICD10

Deaths from cause ICD9

More information on the ICD-10/ICD-9 comparability ratio can be found at Comparability of Cause-of-death Between ICD Revisions (<a href="http://www.cdc.gov/nchs/nvss/mortality/comparability">http://www.cdc.gov/nchs/nvss/mortality/comparability</a> 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 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 p0 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 x 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 <a href="https://chronicdata.cdc.gov/Health-Consequences-and-Costs/Smoking-Attributable-Mortality-Morbidity-and-Econo/w47j-r23n/data">https://chronicdata.cdc.gov/Health-Consequences-and-Costs/Smoking-Attributable-Mortality-Morbidity-and-Econo/w47j-r23n/data</a>.

Beginning 2014, substantial changes in SAM calculation were made based on the 2014 Surgeon General Report that used more age strata and 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 the 2014 Surgeon General Report at the following link: <a href="http://www.surgeongeneral.gov/library/reports/50-years-of-progress/sgr50-chap-12.pdf">http://www.surgeongeneral.gov/library/reports/50-years-of-progress/sgr50-chap-12.pdf</a>

#### **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 using the Alcohol-Related Disease Impact (ARDI) program by applying an alcohol-attributable fraction (AAF). For conditions that, by definition, are caused by alcohol use, the AAF was set equal to 1.0. For other conditions, especially injuries, ARDI directly estimated the AAF 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:

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

where p is the percentage of New York City men and women age 20 years and older who consume alcohol at a specified level of average daily alcohol consumption within a given year, and RR is the likelihood of death from a particular condition at a specified level of average daily alcohol consumption. 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. A detailed description of the methodology is available at <a href="http://nccd.cdc.gov/DPH">http://nccd.cdc.gov/DPH</a> ARDI/default/default.aspx.

Beginning in 2014, the cut points of average drinks per day to define alcohol consumption as "Low", "Medium", and "High" were revised slightly based on Ridolfo and Stevenson's study in 2001 and the study of Bagnardi et al. in 2001. 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. However, there are several exceptions to this rule. See Alcohol Related Disease Impact (ARDI) Custom Data User Manual at the following link for details. http://nccd.cdc.gov/DPH ARDI/Info/ARDI Custom Data User Manual 2014.pdf

#### COMPLICATIONS OF MEDICAL AND SURGICAL CARE (APPENDIX A TABLES M1, M22)

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 on page 108: 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 the NYC Summary of Vital Statistics 2010 Mortality – Special Section: Cause of Death Quality Improvement Initiative for information on the initiative's impact on cause of death reporting, particularly heart disease reporting.

#### **HIV AND AIDS MORTALITY**

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

#### **HOMICIDE** (Mortality Figure 21; 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 a number of 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 (Federal Bureau of Investigation). 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 of 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  $\leq$ 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 cutoff age, 65 or 75, as follows:

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

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 in back of 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: <a href="http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf">http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf</a>. 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.

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 en-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. Effective January 2008, BVS required all hospitals registering more than 100 births per year to use the Electronic Vital Events Registration System (EVERS). After 2012, more than 99% of all births were registered electronically through EVERS (now 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 on page 106.

#### **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 of Health 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 on page 106.

#### **G**ESTATIONAL **A**GE

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

#### SPONTANEOUS AND INDUCED TERMINATIONS OF PREGNANCY REPORTING

#### SPONTANEOUS TERMINATION OF PREGNANCY CERTIFICATE (see copy in back of 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 in back of 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 en-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 week 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 (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 EVERS; 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 on page 106.

#### 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**

#### 2013-2017

Tables and figures with 2013-2017 data use intercensal population estimates determined by Census Bureau in 2013-2017 vintage files. Tables and figures with 2001-2012 data use intercensal population estimates determined by Census Bureau released as of September 2012.

#### 2010-2017

Tables and figures with single-year data use 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 Summaries' 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**

#### 2013-2017

Community District population estimates for 2013-2017 were based on Census intercensal estimates by county, age, race, and sex, 2013-2017 vintages, and interpolated by Bureau of Epidemiology 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 1, 2000, an interpolation by Community District, age, race, and sex was adjusted to the county, age, race, and sex numbers using an iterative proportional fitting procedure. Each year through 2009 was constructed from an interpolation based on the previous year, the modified Census 2010, and the intercensal numbers for that year. The July 1, 2010 numbers were then extrapolated using July 1, 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 Summaries because the 2010 and 2011 Summaries' estimates were adjusted to official intercensal estimates consistent with Census 2010 released in October 2012.

#### 2011

Community District population estimates for the years 2000-2010 use population estimates from Census 2000 and Census 2010 and the official Census intercensal estimates by county, age, race, and sex. To calculate individual year's Community District estimates beginning with July 1, 2000, an interpolation by Community District, age, race, and sex was adjusted to the county, age, race, and sex numbers using an iterative proportional fitting procedure. Each year through 2009 was constructed from an interpolation based on the previous year and Census 2010. The July 1, 2010 numbers were then extrapolated using July 1, 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 Epidemiology Services constructed estimates from the Department of City Planning data and available Census 2000 and 2010 data, ensuring consistency with marginal totals from the Census Intercensal Estimates program. Postcensal estimates as well as the official 2010 modified race summary files were used. Because the 2010 modified race summary file was not available from the Census for single-year age by modified race groups, DOHMH used Census summary file 1 and adjusted the dataset to match the Census modified race summary file. To create the modified race groups, the "some other race" group was removed and race 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.

## **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 and Not Stated. US Virgin Islands and Guam are included in the "Foreign" 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 recoding F10.0 cases as X45 cases. 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: ICD CODING**

### 2008 - present

Unintentional Drug-related Overdose Deaths (Mortality: Figure 19), a definition used in Take Care New York (TCNY) was reported in the Summaries starting in 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.

#### MATERNAL DEATHS AND MATERNAL MORTALITY

#### Through 1998

Currently labeled "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)."

#### Through 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 po is the percentage of adult never-smokers in New York City; p1 is the percentage of adult current smokers in New York City; p2 is the percentage of adult former smokers in New York City; RR1 is the relative risk of death for adult current smokers relative to adult never-smokers; and the RR2 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 x 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, 2002 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, the 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 change after 2010.

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

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.

Father/Parent's SSN 9 N YES Please complete the following: Has parent approved assignment of SSN for child? Mother/Parent's SSN:

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

## **CERTIFICATE OF BIRTH**

			C	CERTIFICATE NO.	
	1. NAME OF CHILD	(First, Middle, Last)			
Cert. No	2. SEX	NUMBER DELIVERED of this pregnancy     If more than one, number of this child in order of delivery	4a. DATE OF (Month) CHILD'S BIRTH	(Day) (Year - yyyy)	4b. TIME ☐ AM ☐ PM
	5. PLACE 5a. OF BIRTH	NEW YORK CITY BOROUGH	5b. Name of Hospital or other facili	ty (if not facility, street address)	
	OF	Hospital Freestanding Birthin Other-specify:		Office Home Delivery: Planned to deliver at	☐ Yes t home? ☐ No ☐ Unknown
	6a. MOTHER/F (First, Middle	PARENT'S NAME (Prior to first marriage , Last) SEXMF	DATE OF BI		RENT'S BIRTHPLACE foreign country
	7. MOTHER/PA USUAL RES a. State		7d. Street and number	Apt. No. ZIP	Code 7e. Inside city limits of 7c?  Yes \( \sigma \) No \( \sigma \)
	8a. FATHER/P/ (First, Middle	ARENT'S NAME (Prior to first marriage) , Last) SEXMF	8b. FATHER/PAI DATE OF BII (Month) (L	RTH City & State or	RENT'S BIRTHPLACE foreign country
	9a. NAME OF	ATTENDANT AT DELIVERY	M.D.     □ RPA       □ D.O.     □ R.N.       □ Lic. Midwife     □ Other-Specify		
Place:	AT THE PL	THAT THIS CHILD WAS BORN ALIVE ACE, DATE AND TIME GIVEN	☐ M.D. ☐ RPA ☐ D.O. ☐ R.N. ☐ Hosp. Admin. ☐ Lic. Midwife		
- Pla	Name of Signe	(Type or I	Other-Specify		
	Legal	Parent's Current (First, Middle, Last)			
Died: Date:			· ·		
Die	City	State	ZIP		

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)
Only for scientific purposes approved by the Commissioner. Not open to inspection or subject to compelled disclosure.

NAME OF CHILD			D'S MEDICAL DRD NO	CERTIF	ICATE			
MOTHER'S/PARENT'S MEDICAL RECORD NO.		MOTHER'S/PARENT'S TELEPHONE  NUMBERS: Day ( ) Evening ( )						
10. PARENT'S RACE	14	I. PARENT'S OCCUP		f. Infections Present and/or Trea (Check all that apply)	ated During Pregnancy			
Race as defined by the U.S. Census (Check <b>one or more</b> to indicate what the parent considers her/himself to be)	a. Was mother/par	ent employed during pre	Yes No egnancy?   2. Kind of business or	Gonorrhea	☐ Hepatitis C			
a. Mother/Parent b. Father/Parent		occupation	industry	Syphilis Herpes Simplex (HSV)	☐ Tuberculosis☐ Rubella			
White	b. Mother/Parent			Chlamydia	Bacterial Vaginosis			
	c. Father/Parent			☐ Hepatitis B	☐ None of the above			
Name of enrolled or principal tribe		15. PRENATAL HIST	ORY	g. 1. Cigarette Smoking in the 3	Months Before or During			
(Mother/Parent) (Father/Parent)	a. 1. Total Numbe	r of Previous Live Births	None	Pregnancy?  ☐ Yes ☐ No				
☐Asian Indian	2. Number Bo	rn Alive and Now Living	None		rettes or Packs/Day (enter 0 if None)			
Chinese	3. Number Bo	rn Alive and Now Dead	None		Cigarettes or Packs/Day			
	b. Those born all or both. Pleas	ive may have been Prete	erm, Low Birth Weight	2. 3 mo. before pregnancy	or			
Korean		eterm (< 37 wks.)	\ \_ None	3. First 3 mo. of pregnancy	or			
Vietnamese		w Birth Weight	LINOITE	4. Second 3 mo. of pregnancy	or			
UOther Asian		ms or 5 lbs. 8 oz.)	None	Third trimester of pregnancy	or			
		of other Pregnancy Out						
(Mother/Parent) (Father/Parent)	` '	nduced Terminations): Spontaneous Termination	None	h. Alcohol Use During This Preg	nancy?			
		cy less than 20 Weeks	None	Yes No				
Samoan		Spontaneous Termination cy 20 Weeks or More	None	i. Illicit and other Drugs Used D	uring This Pregnancy?			
Other Pacific Islander	· ·	Induced Terminations	Indie	☐ Yes ☐ No				
Specify	of Pregnan	су	None	If yes, check all that apply				
(Mother/Parent) (Father/Parent)	d. Date of First Li	ve Birth (m	nm/yyyy)/_	Heroin	Marijuana			
Other	e. Date of Last Liv		nm/yyyy)/	Cocaine	Sedatives			
Specify		er Pregnancy Outcome (m		<ul><li>☐ Methadone</li><li>☐ Methamphetamine</li></ul>	☐ Tranquilizers ☐ Anticonvulsants			
(Mother/Parent) (Father/Parent)				Wethamphetamine	Anticonvalsario			
44 PARENTIO ANGESTRY	g. Date Last Norm	al Menses began (mm/dd	'yyyy)/	j. Mother/Parent Pre-Pregnancy	Weight pounds			
11. PARENT'S ANCESTRY		16. PRENATAL CA						
(Check <b>one</b> box and specify what the parent considers her/himself to be)		f Prenatal Visits for this	Pregnancy	k. Mother/Parent Height	feetinches			
a. Mother/Parent b. Father/Parent	b. Date of First Pr	anatal Caro Visit		I. Obstetric Procedures				
Hispanic (Mexican, Puerto Rican,		ry)//		(Check all that apply)				
Cuban, Dominican, etc.)	c. Date of Last Pr			Cervical cerclage	Fetal genetic testing			
	(mm/dd/yyy	ry)/		☐ Tocolysis☐ External cephalic version:	☐ None of the above			
(Mother/Parent) (Father/Parent)		al Care Provider Type		Successful				
NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukranian,	(Check one)			Failed				
Nigerian, Taiwanese, etc.)	☐ MD/DO☐ C(N)M/NP/PA/	_	Provider Information	m. If woman was 35 or over, was	s fetal genetic testing offered?			
Specify	Clinic	_	her	Yes No, Too Late	No, Other Reason			
(Mother/Parent) (Father/Parent)	e. Risk Factors in	this Pregnancy		47 5104004				
12. PARENT'S LENGTH OF TIME IN US	(Check all that app	oly)			L COVERAGE			
	Pre-pregnancy			a. Primary Payor (Check one)				
Mother/Parent: If born outside of the United States, how long lived in U.S.?	Gestational dia			☐ Medicaid/Family Health Plus	Other			
years <b>or</b> if < 1 yr, months	Gestational hy			☐ Private Insurance	☐ Self-pay			
b. Father/Parent: If born outside of the United States, how long	Cardiac diseas			Other govt/CHPlusB	Unknown			
lived in U.S.?	Structural Functiona			☐ CHAMPUS/TRICARE				
years <b>or</b> if < 1 yr, months	Other serious			b. Is the mother/parent enrolled i care plan?	n an HMO or other managed			
13. PARENT'S EDUCATION	Anemia (Hct.<	-		Yes No				
(Check the box that best describes the highest degree or level of	Rh sensitization	or chronic lung disease		c. Did mother/parent participate	in WIC?			
school completed at time of delivery)	Polyhydramnic			Yes No				
a. Mother/Parent b. Father/Parent	Oligohydramni Hemoglobinop			10 MATERNA	AL MORBIDITY			
8th grade or less; none	Abruptio place	-		-	L WORDIDIT I			
9th-12th grade, no diploma	☐ Eclampsia			(Check all that apply)				
High school graduate or GED	II ·	poor pregnancy outcome		Maternal transfusion				
Some college credit, but no degree	☐ Prelabor referr	al for high risk care		Perineal laceration (3rd or 4th	degree)			
Bachelor's degree (e.g., BA, AB, BS)	II = "	rean section: Number		Ruptured uterus     Unplanned hysterectomy				
Master's degree (e.g., MA, MS, MEng,	☐ Infertility treatr			Admit to ICU				
MEd, MSW, MBA)		ugs, artificial/intrauterine i eproductive technology (e		☐ Unplanned operating room pro	ocedure following delivery			
Doctorate (e.g., PhD, EdD)		embryos implanted (if app	•	Hemorrhage				
or Professional degree (e.g., MD, DDS,	Fetal reduction			Postpartum transfer to a higher	er level of care			
DVM, LLB, JD)	☐ None of the ab	ove		□ None of the above				

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (2 of 2)
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NAME OF CHILD . CERTIFICATE

19. LABOR	AND DELIVERY	20. INFANT									
a. If birth occured in hospital, was before giving birth?	·	a. Birthweight  g. Abnormal Conditions of the Newborn (Check all that apply)									
	acility transferred from	Pounds Ounces	Gra	ms			Assisted ventilation following delivery	required immediately			
☐ Yes		b. If birth weight < 1250 grams (2 lbs	s. 12 oz.)	, reasor	n(s) for		Assisted ventilation	required for more than			
b. Mother/Parent Weight at Deliver	rv	delivery at a less than level III hospital: (Only if applicable)  None   Unknown at this time   NICU admission									
poun	•	☐ None ☐ Unknown at this time (Select <b>all</b> that apply)	(Select all that apply)  Newborn given surfactant replacement therapy								
c. Onset of Labor		Rapid/Advanced Labor Severe pre-eclampsia Antibiotics received by the newborn for suspected neonatal sepsis									
(Check all that apply)		□ Bleeding □ Woman Refused Transfer □ Seizure or serious neurologic dysfunction □ Fetus at Risk □ Other-specify									
Prolonged rupture of membrane	-	Significant birth injury (skeletal fracture(s),									
(12 hours or more)  Premature rupture of membrane	(20 hours or more)	organ hemorrhage which requires intervention)									
(prior to labor)							None of the above				
Precipitous labor (less than 3 ho	· · · · · · · · · · · · · · · · · · ·	d. Clinical Estimate of Gestation				h. Hep	atitis B Inoculation				
d. Characteristics of Labor & Deli (Check all that apply)	very					_	nmunization administered				
☐ Induction of Labor-AROM	Chorioamnionitis	Completed Weeks:				_	, ,,,,	(y)/			
Induction of Labor-Medicinal	Febrile (>100.4F or 38C)	e. Infant Transferred					nmunoglobulin administer				
☐ Augmentation of Labor☐ Placenta previa	<ul><li>✓ Meconium staining</li><li>✓ Fetal intolerance</li></ul>	Within 24 hours of Delivery After 24 hour	s	Not Trar	nsferred		, ,,,	/y)/			
Other excessive bleeding	External electronic fetal monitor			-							
Steroids Antibiotics	☐ Internal electronic fetal monitor ☐ None of the above	f. If transferred, name of facility tra	ınsferre	d to:			fant living at time of rep Yes  No	port?			
e. 1. Anesthesia (Check all that apply)							r is infant being fed? (C Breast milk	Check <b>one</b> )			
☐ Epidural	Paracervical							Neither			
General inhalation General intravenous	☐ Pudendal ☐ Local		$\overline{}$		ļ						
☐ Spinal	☐ None of the above	Congenital Anomalies			I Diagra						
2. Complications from any of t		k. Select all that apply			I. Diagn		m. If Yes, please ind	icate all methods used:			
☐ Yes	□ No		Yes	No	Yes	No	Level II Ultrasound	☐ MSAFP/Triple Screen			
Method of Delivery		1. Anencephaly					Amniocentesis	Other Unknown			
f. Fetal Presentation at Birth		2. Meningomyelocele/	Yes	No	Yes	No	Level II Ultrasound	MSAFP/Triple Screen			
Cephalic Breech	☐ Other	Spina Bifida					Amniocentesis	Other Unknown			
g. Final route and method of deliv	very (Check one)	Cyanotic Congenital     Heart Disease	Yes	No	Yes	No	☐ Level II Ultrasound☐ Other	Unknown			
☐ Vaginal/Spontaneous	☐ Vaginal/Vacuum							Olikilowii			
☐ Vaginal/Forceps	Cesarean	Congenital Diaphragmatic     Hernia	Yes	No	Yes	No	Level II Ultrasound Other	Unknown			
1. If cesarean, was trial of labor	_ '		Yes	No	Yes	No	Level II Ultrasound				
_	□ No	5. Omphalocele					☐ Other	Unknown			
2. Indications for C-Section (Select all that apply)	Unknown  Maternal condition-not pregnancy related		Yes	No	Yes	No	Level II Ultrasound				
Failure to progress	☐ Maternal condition-pregnancy related	6. Gastroschisis					Other	Unknown			
☐ Malpresentation ☐ Previous C-Section	Refused VBAC Elective	7 Limb Dadustica Defeat	Yes	No	Yes	No	Level II Ultrasound				
Fetus at risk/NFS	Other	7. Limb Reduction Defect					Other	Unknown			
3. Was delivery with forceps at	tempted but unsuccessful?	Cleft lip with or without     Cleft Palate	Yes	No	Yes	No	☐ Level II Ultrasound☐ Other	Unknown			
☐ Yes	□ No	Olor Falato									
4. Indications for Forceps 🗌 U	_	9. Cleft Palate alone	Yes	No	Yes	No	Level II Ultrasound	Unknown			
(Select <b>all</b> that apply)	☐ Fetus at Risk☐ Other	10. Down Syndrome	Yes	No	Yes	No	Level II Ultrasound	☐ MSAFP/Triple Screen			
	ctraction attempted but unsuccessful?	☐ Karyotype confirmed					□ cvs	Amniocentesis			
-	No	☐ Karyotype pending					Other	Unknown			
6. Indications for Vacuum U		11. Other Chromosomal Disorder  Karyotype confirmed	Yes	No	Yes	No	Level II Ultrasound	MSAFP/Triple Screen			
(Select <b>all</b> that apply)	Fetus at Risk	☐ Karyotype confirmed					☐ CVS ☐ Other	☐ Amniocentesis ☐ Unknown			
☐ Failure to progress	☐ Other		Yes	No	Yes	No	Level II Ultrasound				
h. Other Procedures Performed at		12. Hypospadias					Other	Unknown			
☐ Episiotomy & repair☐ Sterilization	Repair of lacerations  None of the above	13. None of those listed above			1						
		10. Notice of those hated 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, La	ast)								_
cian)	Place Of Death	2b. Bor	York City rough	2c. Type of Place 1	5 ☐ Hospice Faci patient 6 ☐ Decedent's F	4 \( \to \) Nursing Home/Long Term Care Facility 5 \( \to \) Hospice Facility 5 \( \to \) Hospice Facility 1 \( \to \) Pecedent's Residence 7 \( \to \) Other Specify \( \to \) Unknown						r facility (if no	t facility	, street address)	
<b>P</b> S	Date a	and Time	3a.	(Month) (Day	r) (Year-yyyy	) 3	b. Time		и	4. Sex	5. Date las	st attended l	by a Ph	ıysician	٦
CAIE the Pi		Death							⊒ PM		mm	dd		уууу	7
MEDICAL CERTIFICATE OF DEATH (To be filled in by the Physician)	and		h did not c	eath occurred at the time, d occur in any unusual manne (Type		NATURAL CAUS		e instruction				play any par	t in cau	D.O.	
	7a. Us	sual Resid	ence State	7b. County	7c. City or Town	70	d. Street	and Numbe	r	Apt. N	lo.	ZIP Code		e. Inside City Limits?	_
	8. Dat	te of Birth	(Month	(Day) (Year-yyy	9. Age at last birthe (years)	· —	Unde	Pr 1 Year  Days 3	Unde Hours	er 1 Day Minutes	10. Social Se	curity No.			
Physician)	11a. U Do no	11a. Usual Occupation (Type of work done during most of working life.  11b. Kind of business or industry  12. Aliases or AKAs  15b. Kind of business or industry													
RTICULARS n case of City Burial, by	1 □ 8th grade or less; none 4 □ S 2 □ 9th – 12th grade; no diploma 5 □ A						ne colleg ociate d helor's d	e credit, but egree (e.g., A degree (e.g.,	no degree AA, AS) BA, AB, BS	7 🗆 Mas 8 🗀 Doc Prof	torate (e.g., Philessional degre	.g., MA, MS, D, EdD) or e (e.g., MD,	MEng, N	MEd, MSW, MBA) VM, LLB, JD) rst, Middle, Last)	
PERSONAL PA Funeral Director or, in	18. Father's Name (First, Middle, Last)						19. Moth	ner's Maiden	Name (Pr	ior to first mar	riage) (First, M	liddle, Last)			
PERS(	20a. lı	nformant's	Name		20b. Relationship	to Decedent 2	20c. Address (Street and Number Apt. No. City & State ZIP Code)							ZIP Code)	
be filled in by	1 <b>□</b> B		Disposition Crema		4 ☐ City Cemete		21b. Pla	ce of Dispos	ition (Nam	e of cemetery	r, crematory, ot	her place)			
(To !	21c. l	ocation of	Disposition	n (City & State or Foreign Cou	ntry)					21d. D	ate of isposition	mm	dd	уууу	
	22a. F	uneral Es	tablishme	nt		2	22b. Ad	dress (Street	t and Numl	per	City & State	•	ZI	IP Code)	
														VR 15 (Rev. 01/09	9)

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

			CC	ONFIDE	NTIAL MEDIC	CAL REP	POR	T					
VR 15 (Rev. 01/09)	То	be filled in by FUNERAL DIF	RECTOR or,	in case of	City Burial, by Phys	ician		Certificate No.					
CAUSE OF DEATH-Enter the chain of events—diseases, complications or abnormalities—that directly caused the death. Do NOT enter terminal	23.	Ancestry (Check one box and specify)  I Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)  Specify  NOT Hispanic (Italian, African American, Halitan, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)	indicate who on the control of the c	nat the deceder  rican Indian of the of enrolled of Indian of the of enrolled of the of enrolled of the of enrolled of the of th	the U.S. Census (Checent considered himself 02 ☐ Black or Africa r Alaska Native or principal tribe) 05 ☐ Chinese	or herself to b an American	e to De)						
events such as cardiac arrest, respiratory arrest, or ventricular fibrillation		Specify	der-Specify			DECEDENT'S	LFG	ΔΙΝ	ΔMF	(Type	or Print)		
without showing the etiology.	25	CALISE OF DEATH – List only or					$\overline{}$	DEGEDENT G				(турс	01 1 11111)
etiology.  25. CAUSE OF DEATH – List only one cause on each line. DO NOT ABBREVIATE.  IMMEDIATE CAUSE FINAL disease or condition resulting in death.  a. IMMEDIATE CAUSE									PROXIMATE INTERVAL: ONSET TO 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.	PARTI	b. DUE TO OR AS A CONSEQU	JENCE OF										
OPERATION-Enter in Part II information on		d. DUE TO OR AS A CONSEQU	JENCE OF										
operation or procedure related to disease or conditions listed in Part I.	PART II	OTHER SIGNIFICANT CONDITI	IONS CONTR	RIBUTING TO	DEATH but not resulti	ng in the unde	erlying c	ause given in Part I. Includ	le operat	ion infor	mation.		
SUBSTANCE USE Include the use of tobacco,	26	Sa. Was an autopsy performed? 2	27a. If Female		ear of death			f pregnant within one year th, outcome of pregnancy	:	27c. Date	e of Outco	ome	28. Was this case referred to OCME?
alcohol or other substance if this caused or contributed to death. SPECIFY IN PART I or PART II.	26	Sb. Were autopsy findings available to complete the cause of death?	Pregnant Not pregnat Not pregnat before de	at time of dea ant at death, b ant at death, b ath		ays of death 1 year	1 ☐ Li 2 ☐ S <sub>[</sub> Ec	ive Birth pontaneous Termination/ ctopic Pregnancy iduced Termination 4 □	None	mm	dd	уууу	1 □ Yes 2 □ No
		Did tobacco use contribute to de Yes 2 No 3 Probably 4		30. For infan	t under one year: Nam	e and address	s of hosp	pital or other place of birth					
	ı	m submitting herewith a confi			use of death.								
	SIC	GNATURE		D.O. M.D.	ADDRESS					_ LICE	ENSE NO	)	

## DATE FILED THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE CERTIFICATE OF DEATH Certificate No.

	⊒ ivew																
	☐ Corr/Amend					1											
C	□ Replacement  DOHMH						DECEDENT'S LEGAL NAME										
	USE ONLY					'	LEGAL NAME	(First, Midd	lle, Las	st)							
	BOR	Place Of Death  2a. New York City 2b. Borough 2b. Borough 2c. Type of Place 4 □ Nursing Home/Long Ter 4 □ Nursing Home/Long Ter 5 □ Hospice Facility 2 □ Emergency Dept./Outpatient 6 □ Decedent's Residence 3 □ Dead on Arrival 7 □ Other Specify							Care I	i 1	2d. Any Ho n last 30 d 1  Yes 2  No 3  Unkno	ays	e. Name of	hospital or other	facility (if not	facility, street a	ddress)
HYGIENE	INST	ī	Date and Time of or Found Dead	of Death 3a.	(Month)	(Da	ay) (Ye	ar-yyyy)	3b. Tir		□ AM □ PM	4. Sex		5. OCM	E Case No.		
Ĭ		ΞAΤ	6. Ç P	a. Immediate	cause										- WAL:		
MENTAL	MANNER	MEDICAL CERTIFICATE OF DEATH (To be filled in by the OCME)	6. C P A C R R T	b. Due to or a consequer										HOXMATE INTERVAL: ONSET TO DEATH			
Ĭ		X the	o i	c. Due to or a consequen											APPRO		
HEALTH AND	RESIDENCE	RTIFIC led in b	PART II	Other signific	ant conditions	contributing	to death but not re	esulting in the	underl	lying caus	se given in	Part I. Inclu	de operatio	n information.			
딅		P F	7a. Injury Date (r	mm dd yyyy)	7b. Time	7c. At V		njury – At hom	e, facto	ory, stree	t, etc.						
뾔	CODE	S			□ PI												
Ь		(ED	7f. How Injury O	ccurred													
ᅪ	BP	_	7g. If Transporta	tion Injury Spec	ify 8. Manner	of Death		9. Autopsy	$\neg$	10. On t	he basis of	examination	n and/or inv	estigation, in my	opinion, de	eath occurred	due to
Ĭ			☐ Driver/Operat	or 🛘 Pedestria		further stu		☐ Yes			Signature	d manner as	stated:		D.O. M.D. I	Date	
AR			☐ Passenger				e Undetermined	☐ No Auto Pursuant to	Law						IVI.D. I		
띩	LDIS		☐ Other Specify					☐ No Auto	17		Name (Pri	(Medic		tor) (Deputy Ch		-	_
FILED IN THE DEPARTMENT			11a. Usual Resid	lence State 11	b. County		11c. City or Towr	1	11	d. Street	and Numb	oer	Apt.	No.	ZIP Code	11e. Inside City 1 🔲 Yes 2	' I
입	Н	OCME)	12. Date of Birth	(Month)	(Day) (Y	(ear-yyyy)	13. Age at last bi	rthday	N	Under Months	1 Year Days	Under Hours	r 1 Day Minutes	14. Social Sec	urity No.		
ᇤ		þ	15a. Usual Occu		f work done dur	ing most of	f working life. 15	o. Kind of bus	ness o	or industry	/ 16. Al	iases or AK	As				
SS	ANC	Burial,	Do not use "retir			140 54		h 4h - 4 h 4		h 4h - 1-1			-fhl			`	
CERTIFICATE NOT VALID UNLESS	NH	PARTICULARS r or, in case of City E	17. Birthplace (C	Jity & State or F	-oreign Country	1 🗆 8th 2 🗀 9th	grade or less; nor 1 – 12th grade; no 1 h school graduate	ne 4 l diploma 5 l	☐ Som	scribes the highest degree or level of school completed at the time of death)  Some college credit, but no degree  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)							
ĕ	NH	TIC n cas	19. Ever in U.S.		al/Partnership S	tatus at tim	ne of death							fe, name prior to			
S N		L PAF	Armed Force	No 4 Marri 7 Othe	ed, but separat r, Specify	nestic Partr ed 5 🗖	Never Married	6 Widowe 8 Unknow	d m								
빍	ANC	ONA	22. Father's Nar	ne (First, Middle	e, Last)				2	23. Mothe	er's Maiden	Name (Pric	or to first ma	rriage) (First, Mi	ddle, Last)		
		PERSONAL I Funeral Director	24a. Informant's	Name			24b. Relationsh	ip to Deceden	t 2	24c. Addr	ess (Street	t and Numbe	er Apt. I	No. City	& State	ZIP C	ode)
CER	ICD	in by	25a. Method of 1 D Burial 2		3 🗆 Entorr	bment	4 ☐ City Ceme	tery	2	25b. Plac	e of Dispos	sition (Name	of cemeter	y, crematory, oth	ner place)		
SEL L		filled	5 🗆 Other Spec	ify				_									
F	AUT	(To be	25c. Location of	Disposition (City	& State or Forei	gn Country)			·					Date of Disposition	mm	dd yyy	у
			26a. Funeral Es	tablishment					2	26b. Addı	ress (Stree	et and Numb	er	City & State		ZIP Code	)
L																	+
																VR 16 (R	lev. 01/09)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE **MEDICAL EXAMINER'S SUPPLEMENTARY REPORT** 

VR 16 (Rev. 01/09)

To be filled in by FUNERAL DIRECTO	R or, in case of City Bu	Certificate No.						
27. Ancestry (Check one box and specify)	28. Race as defined b		Check one or more to mself or herself to be)					
Hispanic (Mexican, Puerto	01 🖵 White	02 🖵 Black or	African American					
Rican, Cuban, Dominican, etc.)	03 American Indian (Name of enrolle	n or Alaska Native ed or principal tribe).						
Specify	04 🖵 Asian Indian	05 🖵 Chinese						
Эреспу	06 🖵 Filipino	07 🖵 Japanes	е					
NOT Hispanic (Italian, African	08 🖵 Korean	09 🖵 Vietname	ese					
American, Haitian, Pakistani,	10 🖵 Other Asian-Sp	ecify						
Ukrainian, Nigerian, Taiwanese, etc.)	11 🛘 Native Hawaiian	12 🖵 Guaman	ian or Chamorro					
raiwariese, etc.)	13 ☐ Samoan							
	14 🖵 Other Pacific Isl	ander-Specify						
Specify	15 🗖 Other-Specify _			DECEDENT'S LEGA	L NAME	(Type or Pr	rint)	
29a. If Female				one year of death, outcome of	29c. Date of	Outcome		
<ul><li>1  Not pregnant within 1 year of death</li><li>2  Pregnant at time of death</li></ul>	h		pregnancy  1  Live Birth		mm	dd	уууу	
3  Not pregnant at death, but pregnar	nt within 42 days of dea	th		ination / Ectopic Pregnancy				
4 🖵 Not pregnant at death, but pregnar		, ,						
5 🗖 Unknown if pregnant within 1 year	of death		3 Induced Terminatio	on 4 🗖 None				
30. Did tobacco use contribute to death	1?	31. For infant unde	er one year: Name and add	dress of hospital or other place of birth				
1 ☐ Yes 2 ☐ No 3 ☐ Probably	4 ☐ Unknown							

<b>Cleared For Cremation</b>
If Family Requests

M.E. Signature	

I certify that I personally examined the body on							
at							
(Date)	(Location)						
SIGNATURE:							
1)	Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)						
	or						
I did not personally exam	mine 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.					
only.		heart beat after delivery? 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.					
iene use o	FETUS	NAME (Optional): (First, Middle, Last, Suffix)		2a. DATE OF DELIVERY (Month) (Day) (Year-yyyy)  Unknown  3. SEX  Male Unknown  Female					
tal Hyg	H		ER DELIVERED REGNANCY	IF MORE THAN ONE  5b. Number in order of delivery 5c. Number born alive					
NESS FILED IN THE DEFARI MENT OF HEALTH AND MENTAL HYGIENE point ink. Is or omissions are unacceptable. O." and this space, reserved for the Department of Health and Mental Hygiene use only. POSSESSION AN AFFIDAVIT OF AUTHORIZATION FOR CREMATION FOI Initials	FETUS Place of Delivery	6a. TYPE OF PLACE  Hospital – ER/ED Hospital – Amb. Surg. Hospital – Labor/Labor and Delivery Hospital – Other Unknown		I Y NAME/ADDRESS  ility, street address: (Street Number and Name, City or Town, County, State, Country, Zip Code)					
OF HEA bartment FHORIZ	ENT	7. CURRENT LEGAL NAME: (First, Middle, Last, Suffix)		9. DATE OF BIRTH (Month) (Day) (Year-yyyyy) 12. BIRTHPLACE City State					
timeni able. or the Dep r of AU	MOTHER/PARENT	8. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, La	st, Suffix)	10. AGE					
E DEFAR naccepta served fo FFIDAVI	МОТН	13. RESIDENCE ADDRESS: (Street Number and Name, A	pt. No., City or Town, 0	County, State, Country, Zip Code)  14. INSIDE CITY LIMITS?    Yes   Unknown     No					
ons are u space, re	IER/ ENT	15. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, La	ast, Suffix)	16. DATE OF BIRTH (Month) (Day) (Year-yyyy)  19. BIRTHPLACE City State					
oint ink. or omissions and this spa	FATHER/ PARENT			17. AGE 18. SEX Country  Male  Female					
VALID UNLE black fine poi alterations or tificate No." a	~	20. ATTENDANT NAME AT DELIVERY:		☐ MD ☐ DO ☐ LIC. Midwife ☐ RPA ☐ Other, (specify)					
with black fi with black fi ing alterati "Certificate HAVE IN N	뿝	(First, Middle, Last, Suffix)							
: # : = : = : = : = : = : = : = : = : =	ATTENDANT/CERTIFIER	21. CERTIFIER: I HEREBY CERTIFY THAT THIS EVENT OF INDICATED AND THAT ALL FACTS STATED IN THIS C MY KNOWLEDGE, INFORMATION AND BELIEF.	CCURRED AT THE TIM CERTIFICATE ARE TRU	UETO THE BEST OF  ☐ MD					
KIII-ICALE rrite or prin cates cont; "Date filed,	DAN	Signature of Physician Certifier							
Typewr Certific Items "I	E	Name of Physician Certifier							
3. 15 0 15 15 15 15 15 15 15 15 15 15 15 15 15	٧	Address	/						
		License No.	ELINERAL DIRE	Date					
	s								
	OR.	I hereby certify that I have been employed as Funeral Dire	ector by	(Name of person in control of disposition)					
	YEC	of(Addre	ess)	This statement is made to obtain a disposition permit					
		for this fetus(Signature of Funeral D	Director)	(License No.)					
	FUNERAL DIRECTOR'S CERTIFICATE	Funeral Establishment		Business Registration No.					
	FUNE	Address		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:/		
23. PARENT'S EDUCATION	28. CAUSE/CONDITIONS CON	ITRIBUTING TO FETAL DEATH
(Check the box that best describes the highest degree or level of	a. Initiating Cause/Condition	b. Other Significant Causes or Conditions
school completed at time of delivery)  a. Mother/Parent	(Among the choices below, please select the <b>one</b> that most likely began the sequence of events resulting in the death of the fetus).	(Select or specify all other conditions contributing to death).
□9th-12th grade, no diploma□ □High school graduate or GED□	☐ Maternal Conditions/Diseases (Specify)	☐ Maternal Conditions/Diseases (Specify)
Some college credit, but no degree		
	Complications of Placenta, Cord, or Membranes	Complications of Placenta, Cord, or Membranes
Master's degree (e.g., MA, MS, MEng,	Rupture of membranes prior to onset of labor	Rupture of membranes prior to onset of labor
MEd, MSW, MBA)	Abruptio placenta	Abruptio placenta
☐Doctorate (e.g., PhD, EdD)	☐ Placental insufficiency	Placental insufficiency
or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	☐ Prolapsed cord	☐ Prolapsed cord
Unknown	Chorioamnionitis	Chorioamnionitis
24. PARENT'S OCCUPATION	Other (Specify)	Other (Specify)
Yes No a. Was mother/parent employed during pregnancy?	Other Obstetrical or Pregnancy Complications (Specify)	Other Obstetrical or Pregnancy Complications (Specify)
1. Current/most recent 2. Kind of business	☐ Fetal Anomaly (Specify)	Fetal Anomaly (Specify)
occupation or industry		
b. Mother/Parent		
c. Father/Parent	☐ Fetal Injury (Please consult with OCME)	Fetal Injury (Please consult with OCME)
	☐ Fetal Infection (Specify)	Fetal Infection (Specify)
25. PARENT'S ANCESTRY	Other Fetal Conditions/Disorders (Specify)	Other Fetal Conditions/Disorders (Specify)
(Check <b>one</b> box and specify what the parent considers her/himself to be)		
a. Mother/Parent b. Father/Parent	□Unknown	Unknown
Hispanic (Mexican, Puerto Rican,		
Specify	c. Was this case referred to OCME?	nown If yes, ME Case Number:
(Mother/Parent) (Father/Parent)	FOR GESTATION OF 20 WEEKS OR MORE: ALL ITEMS	BELOW MUST BE COMPLETED (except OCME cases).
NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukranian,		
☐Nigerian, Taiwanese, etc.)	29. PRENATAL	d. Cigarette Smoking  1. Cigarette smoking in the 3 months before or during
(Mother/Parent) (Father/Parent)	a. Primary Payor (Check one)	pregnancy?
Unknown	(chick chic)	☐ Yes ☐ No ☐ Unknown
	☐ Medicaid ☐ Self-pay	If yes, average number of cigarettes or packs/day
26. PARENT'S RACE	☐ Other govt. insurance ☐ None	(enter 0 if None)
Race as defined by the U.S. Census (Check <b>one or more</b> to indicate what the parent considers	☐ Private insurance ☐ Unknown	Cigarettes or Packs/Day  2. 3 mo. before pregnancy or
her/himself to be)		
a. Mother/Parent b. Father/Parent	b. Total Number of Prenatal Visits for this Pregnancy	3. First 3 mo. of pregnancy or
□White	□ None	Second 3 mo. of pregnancy or      Third trimester of pregnancy or
Black or African American	□ None	5. Third trimester of pregnancy or
And the second s	c. Date of First Prenatal Care Visit	e. Alcohol use during this pregnancy?
Name of enrolled or principal tribe	(mm/dd/yyyy)//	☐ Yes ☐ No ☐ Unknown
(Mother/Parent) (Father/Parent)		
□Asian Indian□	d. Date of Last Prenatal Care Visit	f. Illicit and other drugs used during this pregnancy?
Chinese	(mm/dd/yyyy)//	☐ Yes ☐ No ☐ Unknown
Filipino		If yes, check all that apply
Japanese	- Province Live Pinte	☐ Heroin ☐ Sedatives
☐Vietnamese	e. Previous Live Births	☐ Cocaine ☐ Tranquilizers
Other Asian	1. Total Number of Previous Live Births \square None	☐ Methadone ☐ Anticonvulsants
Specify	2. Number Born Alive and Now Living None	☐ Methamphetamine ☐ Other ☐ Marijuana ☐ Unknown
(Mother/Parent) (Father/Parent)	J	☐ Marijuana ☐ Unknown
□Native Hawaiian□	3. Number Born Alive and Now Dead None	31. PREGNANCY FACTORS
Guamanian or Chamorro		a. Risk Factors in this Pregnancy
□Samoan□ □Other Pacific Islander□	f. Date of First Live Birth (mm/yyyy)/	(Check all that apply)
Specify	g. Date of Last Live Birth (mm/yyyy)/	☐ Diabetes – Prepregnancy
(Mother/Parent) (Father/Parent)	g. 240 o. 240 2. 4. (mm//////	☐ Diabetes – Gestational
	h. Total Number of Other Pregnancy Outcomes  None	☐ Hypertension – Pre-pregnancy
Other	(Spontaneous or Induced losses or ectopic pregnancies)	☐ Hypertension – Gestational
Specify	Do not include this fetus	☐ Hypertension – Eclampsia
(Mother/Parent) (Father/Parent)	i Data of Last Other December 2011	☐ Previous Preterm Birth
□Unknown□	i. Date of Last Other Pregnancy Outcome (mm/yyyy)/	Other previous poor pregnancy outcome
27. PARENT'S LENGTH OF TIME IN U.S.	(**************************************	☐ Infertility Treatment – Fertility-enhancing drugs,
a. Mother/Parent b. Father/Parent	30. MOTHER/PARENT HEALTH	Artificial/Intrauterine insemination
		☐ Infertility Treatment – Assisted Reproductive Technology ☐ Mather had a Provious Congress Delivery
If born outside of the United States, how long lived in U.S.?	a. Height feet inches	☐ Mother had a Previous Cesarean Delivery
years(Mother/Parent) (Father/Parent)	b. Pre-Pregnancy Weight pounds	Other If yes, how many?
or if <1 yr, months	c. Weight Immediately Prior to Event pounds	☐ None ☐ Unknown
(Mother/Parent) (Father/Parent)		_ Grindlowii

VR-17 (REV. 01/10)

Mother/Parent Medical Record No. \_

☐ Yes ☐ No ☐ Unknown

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

(Each question MUST be answered)

CERTIFICATE NO.

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

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

FOR OPERATION OF AS WEEK'S OR MORE ALL ITEMS TO SWINGE TO ASSOCIATE ASSOCIATION						
FOR GESTATION OF 20 V	NEEKS OR MORE: ALL ITEMS BELOW MUST BE COMPLETE	D (except OCME cases).				
31. PREGNANCY FACTORS (cont.)						
b. Infection Present and/or Treated During Pregnancy (Check all that apply)	b. Maternal Morbidity (Check all that apply) (Complications associated with labor and delivery)	e. Were autopsy or histological placental examination results used in determining the cause of fetal death?				
☐ Gonorrhea ☐ Tuberculosis	☐ Maternal transfusion	☐ Yes ☐ No ☐ Unknown				
☐ Syphilis ☐ Rubella	☐ Third or fourth degree perineal laceration					
☐ Herpes Simplex (HSV) ☐ Cytomegalovirus	☐ Ruptured uterus	f. Congenital Anomalies of the Fetus				
☐ Chlamydia ☐ Parvovirus	☐ Unplanned hysterectomy	(Check all that apply)				
☐ Bacterial Vaginosis ☐ Toxoplasmosis	Admission to intensive care unit	Anencephaly				
☐ Hepatitis B ☐ Other	☐ Unplanned operating room procedure following delivery	☐ Meningomyelocele/Spina bifida				
☐ Hepatitis C ☐ None	Hemorrhage	Cyanotic congenital heart disease				
☐ Listeria ☐ Unknown	☐ Postpartum transfer to a higher level of care	Congenital diaphragmatic hernia				
☐ Group B Strep	☐ Other	Omphalocele				
	□None	Gastroschisis				
32. DELIVERY	Unknown	Limb reduction defect (excluding congenital amputation and				
a. Method of Delivery		dwarfing syndromes)  Cleft lip with or without cleft palate				
Was delivery with forceps attempted but unsuccessful?	c. Was mother transferred for maternal medical or fetal indication prior to delivery?	Cleft palate alone				
Attempted and successful Attempted and unsuccessful		Down syndrome				
Forceps were not used Unknown	☐ Yes ☐ No ☐ Unknown	☐ Karyotype confirmed				
	If yes, name of facility transferred from:	☐ Karyotype commined				
Was delivery with vacuum extraction attempted but unsuccessful?		☐ Suspected chromosomal disorder				
☐ Attempted and successful ☐ Attempted and unsuccessful		☐ Karyotype confirmed				
☐ Vacuum extraction was not used ☐ Unknown		☐ Karyotype pending				
3. Fetal presentation at delivery	33. FETAL ATTRIBUTES	Hypospadias				
Cephalic	OO. I EIAE AT INIBOTES	☐ Other				
Breech	a. Weight of Fetus (grams preferred, specify unit)	None				
Other		Unknown				
☐ Unknown						
OTIKIOWII	☐ lb/oz ☐ grams					
Final route and method of delivery     (Check one)	b. Estimated Time of Fetal Death					
☐ Vaginal/Spontaneous						
☐ Vaginal/Forceps	☐ Death at time of first assessment, no labor ongoing					
☐ Vaginal/Vacuum	Death at time of first assessment, labor ongoing					
Vaginal delivery after a previous C-section?	☐ Died during labor, after first assessment					
☐ Yes ☐ No ☐ Unknown	☐ Unknown time of fetal death					
☐ Primary Cesarean						
Repeat Cesarean	c. Was an autopsy performed?					
If cesarean, was a trial of labor attempted?	☐ Yes ☐ No ☐ Planned					
☐ Yes ☐ No ☐ Unknown						
5. Hysterotomy/Hysterectomy	d. Was a histological placental examination performed?					

☐ Yes ☐ No ☐ Planned

## 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)

	DATE OF PROCEDURE FOR TERMINATION	(Month) (Day) (Year-yyyy)	2. FACILITY TYPE		
			☐ Hospital	☐ Shared Facility	
1.	3A. FACILITY NAME		☐ Clinic (Article 28)	□ Doctor's Office	
			☐ Clinic (non-Article 28)	☐ Unknown	
=	3B. FACILITY ADDRESS		Other type		
FACILITY	Street Number and Name Apt. #, Suite #, etc.		PRIMARY FINANCIAL COVERAGE THIS TERMINATION		
۱ ۳			☐ Medicaid ☐ Self Pay		
	City or Town County S	tate Country ZIP Code	☐ Other Govt. Insurance	☐ Unknown	
			☐ Private Insurance		
$\vdash$	5. PATIENT'S LEGAL NAME	6. PATIENT'S DATE OF BIRTH	7. PATIENT'S BIRTHPLACE		
	3. I ATIENT S ELGAL NAME	(Month) (Day) (Year-yyyy)		o Country	
	First NameI Last NameI		City or Town State	e Country	
	(First two letters) (First two	<del>, '  </del>			
⊨	8. NEVER LIVED IN UNITED STATES	9. PATIENT'S U	SUAL RESIDENCE (COMPLETE ONL	Y <u>ONE</u> )	
PATIENT	If born outside of the United States,	☐ New York City ZIP CodeI	I I I	☐ Outside NYS	
₽	how long lived in U.S.?	☐ Manhattan ☐ Bronx ☐ Brooklyn			
Δ.	(years)	Unknown	Gucono E otatori isiana	(U.S. State)	
		☐ New York State (Outside NYC)		☐ Outside U.S.	
	Or if less than 1 year,	City or Town County	ZIP Code		
	(months)			(Foreign Country)	
	10. EDUCATION		11. ANCESTRY (CHECK ONE BO)	( AND SPECIFY)	
		□ Associate deserv	☐ Hispanic (Mexican, Puerto R	,	
	☐ 8th grade or less; none	Associate degree	Specify		
ျှ	☐ 9th-12th grade, no diploma☐ High school graduate or GED completed	<ul><li>☐ Bachelor's degree</li><li>☐ Master's degree</li></ul>		an American, Haitian, Pakistani,	
15	Some college credit, but no degree	Doctorate or Professional degree	Ukranian, Nigerian, Taiwane	ese, etc.)	
<u> </u>	Gorne conege credit, but no degree	Unknown	Specify		
PATIENT ATTRIBUTES	10 PACE			RITAL/PARTNERSHIP STATUS	
₩	12. RACE Race as defined by the U.S. Census. (Check one	or more to indicate what the patient considers	harmalf tarbar V	Married	
ΙÞ				Married Domestic Partnership	
=	☐ White ☐ Black or African American	☐ Chinese ☐ Other Asian (specify) ☐ C		Divorced	
₹	☐ American Indian or Alaska Native (specify tribe)	☐ Filipino		Married, but separated	
"	Affierican indian of Alaska Native (specify tribe)	☐ Korean ☐ Guamanian or	· · · · · · · · · · · · · · · · · · ·	Never Married Widowed	
	Asian Indian	Oh a see a see	_	Other, Specify	
		☐ Samoan		Unknown	
	14. DATE LAST NORMAL 15. OBSTETRIC	16.	PREVIOUS PREGNANCIES		
	MENSES BEGAN ESTIMATE OF (Month) (Day) (Year-yyyy) GESTATION	a. Total Number of Previous Live Births			
	(monary (Buy) (rour )))))	b. Born Alive Now Living	☐ None e. Number of Spontaneous	s Terminations None	
	completed weeks	c. Born Alive Now Dead	☐ None f. Number of Induced Ten	minations None	
17. TERMINATION PROCEDURE					
	17A. PRIMARY PROCEDURE (CHECK ONLY ONE) 17B. ADDITIONAL PROCEDURES (CHECK ALL THAT APPLY)				
	☐ Suction Curettage ☐ Mifep	ristone and Misoprostol		fepristone and Misoprostol	
l ₽		strexate and Misoprostol	tion Curettage	ethotrexate and Misoprostol	
2	_ ` '	Dilet	ion and Evacuation (DOE)	Other Medical (nonsurgical)	
MEDICAL	☐ Intra-Uterine Instillation Specify Medications ☐ Dilation and Evacuation (D&E) ☐ Hysterotomy/Hysterectomy ☐ Intra-Uterine Instillation			ecify Medications	
-	☐ Misoprostol ☐ Other		terotomy/Hysterectomy	ner, 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 Contrace				
	☐ Offered but Declined ☐ Condoms			Other, Specify	
	19. ATTENDANT NAME AT TERMINATION:	□ MD			
	(First, Middle, Last, Suffix)	□ NP			
	20. CERTIFIER: I HEREBY CERTIFY THAT THIS E				
🗓	ON THE DATE INDICATED AND THAT ALL FA				
1 =					
155					
<del> </del>	Signature of Certifier	□ NP			
Z	Name of Cartifier				
ATTENDANT/CERTIFIER	Name of Certifier				
L N	Address				
ΙĘ	7,00,000	, ,			
⋖	License No.				