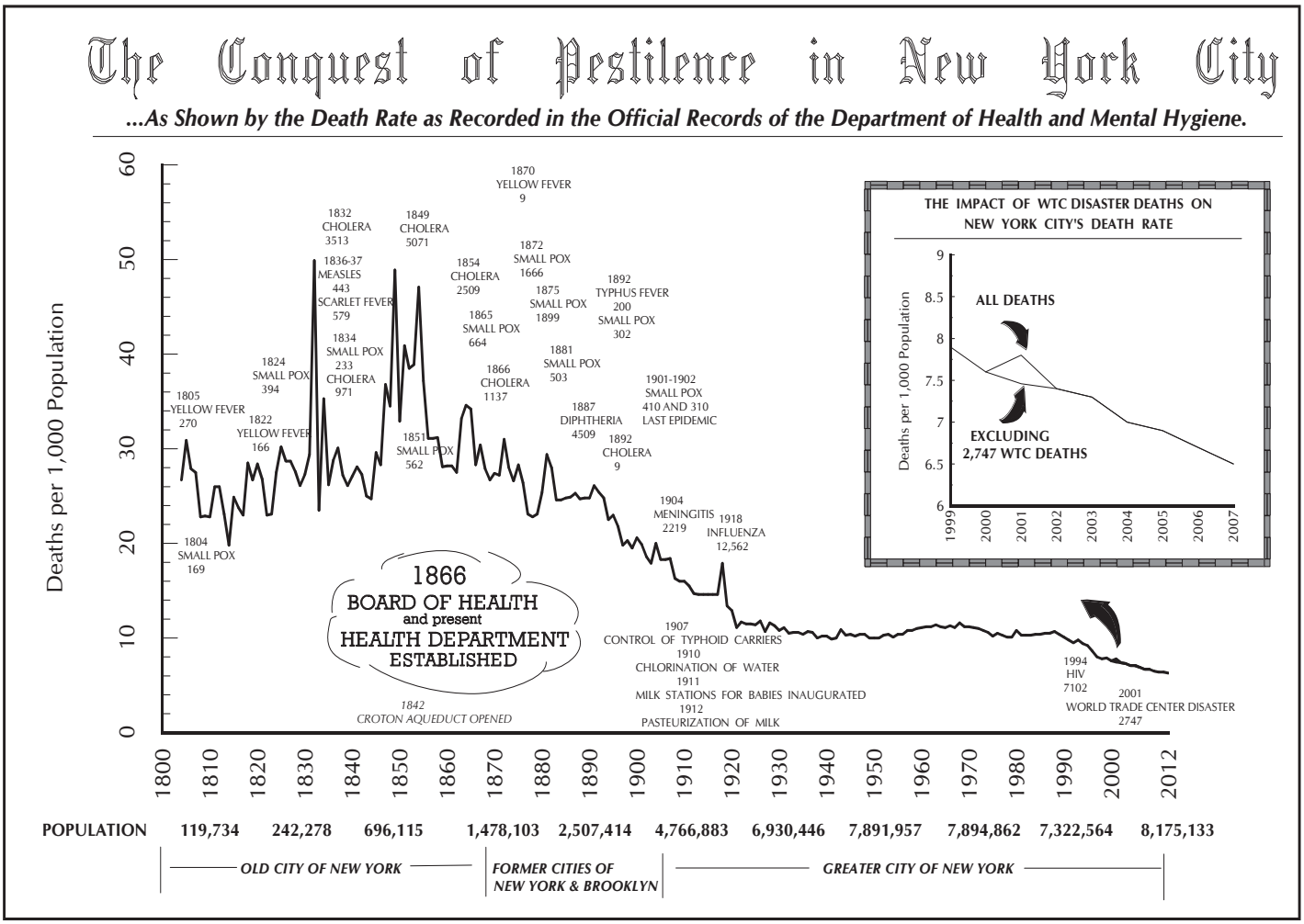
SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK



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

Bill de Blasio, Mayor Mary T. Bassett, MD, MPH, Commissioner

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK

New York City Department of Health and Mental Hygiene

Division of Epidemiology
Ram Koppaka, MD, PhD, Acting Deputy Commissioner

Bureau of Vital Statistics
Gretchen Van Wye, PhD, MA, Assistant Commissioner
Flor Betancourt, MA, Director, Birth and Death Registration Unit
Tara Das, PhD, MPH, Director, Office of Integrated Electronic Records
Melissa Gambatese, MPH, Director, Quality Improvement Unit
Kevin Koshar, MPP, Director, Office of Vital Records
Wenhui Li, PhD, Director, Statistical Analysis and Reporting Unit
Ann Madsen, PhD, MPH, Director, Office of Vital Statistics
Steven Schwartz, PhD, Registrar
Regina Zimmerman, PhD, MPH, Director, Data Use and Disclosure Unit

April 2015

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

Suggested citation: Zimmerman R, Li W, Gambatese M, Madsen A, Lasner-Frater L, Van Wye G, Kelley D, Kennedy J, Maduro G, Sun Y. *Summary of Vital Statistics, 2012: Mortality*. New York, NY: New York City Department of Health and Mental Hygiene, Office of Vital Statistics, 2013.

This publication was originally issued in six parts (Infant Mortality, Mortality, Pregnancy Outcomes and Executive Summary Reports, Appendix A & B) and is available online at http://www.nyc.gov/vitalstats.

This online document is a compilation of previously issued 2012 Annual Summary reports.

The preceding page lists staff titles as of the date printed, whereas the title page for each report reflects the date and staff titles at the time of each report's issuance.

Table of Contents

NEW YORK CITY DEPARTMENT OF
HEALTH AND MENTAL HYGIENE

Dear Fellow New Yorker:

Each year, the New York City Department of Health and Mental Hygiene's *Summary of Vital Statistics* presents data on numerous, important health indicators, such as life expectancy, infant mortality, and leading causes of death, which are used to assess and compare the health of communities and nations. We use these vital statistics to monitor the health of New Yorkers, track our progress and identify areas that need additional attention.

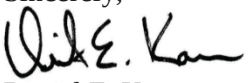
For the first time in 2012, the Health Department presents select indicators, such as age-adjusted death rates, by neighborhood-level poverty in the summary. This innovation will enable users to assess and monitor the impact of socioeconomic status on some health outcomes going forward.

Highlights from our 2012 report, which begins on the next page, include:

- The annual death rate further declined 1.6% to a new historic low of 6.3 deaths per 1,000 population, with 52,455 deaths in 2012. The decline since 2003 is 13.7%.
- From 2003 to 2012, disparities in death rates narrowed between the highest (non-Hispanic blacks) and lowest (Asian and Pacific Islanders) race/ethnic groups by more than 21.0%.
- Alzheimer's disease replaced HIV/AIDS among the 10 leading causes of death.
- Although life expectancy for New Yorkers at birth is now 80.8 years, representing a 2 year, 7 month (2.6%) increase since 2002, it decreased by approximately one month in 2011, the last year for which data are available. It remains higher than the U.S. life expectancy, which is 78.7 years at birth. The change in NYC was driven by a relative increase in deaths in the first quarter of 2011 compared to a relatively low baseline in the first quarter of 2010. The increase was mainly in deaths among women aged 80 and older and was not concentrated in a single cause of death. No single cause of death contributed to the decrease in life expectancy from 2010 to 2011. Winter mortality in NYC and other temperate cities tends to be higher and more variable than mortality during other time periods. While the causes of higher and more variable winter mortality in temperate climates are not fully understood, both influenza and winter weather may play a role.
- The 2012 infant mortality rate remained unchanged from its 2011 historic low of 4.7 infant deaths per 1,000 live births.

Analysis of birth and death certificates provides us critical information about the health of the city that we use to help New Yorkers live longer and healthier lives.

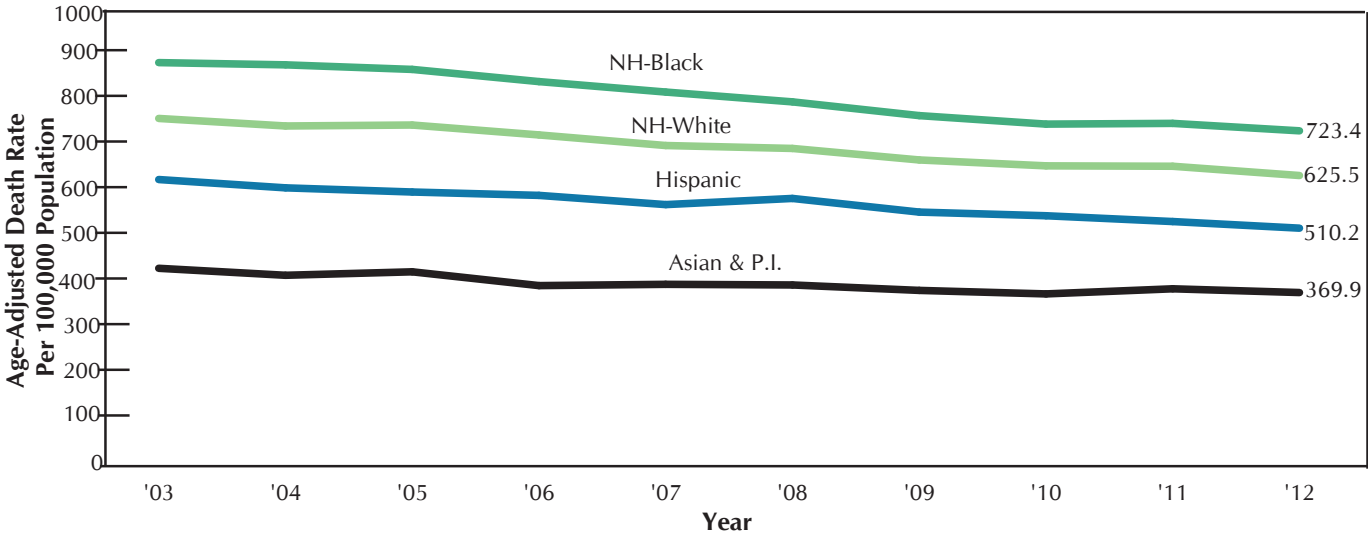
Sincerely,



Daniel E. Kass
Interim Commissioner

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK
EXECUTIVE SUMMARY
WITH A SPECIAL SECTION ON DEATHS DUE TO HURRICANE SANDY

Declines in Racial/Ethnic Age-Adjusted Death Rates, New York City, 2003-2012



Health

February 2014

BUREAU OF VITAL STATISTICS, NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
125 WORTH STREET, CN 7, NEW YORK, NEW YORK, 10013

Recent Trends in New York City Vital Statistics

- New York City's 2012 death rate declined 1.6% from 2011 to a new historic low of 6.3 deaths per 1,000 population, with 52,455 deaths. This is a 13.7% decline since 2003 (page v).
- From 2003 to 2012, all-cause age-adjusted death rates decreased across all racial/ethnic groups: non-Hispanic blacks by 17.1%, non-Hispanic whites by 16.7%, Hispanics by 17.3%, and Asians and Pacific Islanders by 12.8%. Though rates were consistently highest among non-Hispanic blacks followed by non-Hispanic whites, Hispanics, and Asians and Pacific Islanders, gaps between the highest (non-Hispanic blacks) and lowest (Asian and Pacific Islanders) rates narrowed more than 21.0% since 2003 (page v).
- In 2011, New York City's life expectancy at birth was 80.8 years (preliminary data from latest year available). This is a two year, seven month increase since 2002 and an approximate one month (0.1 year) decrease since 2010. The 2011 life expectancy reflects a two year, 11 month increase to 78.1 among males, a two year, five month increase to 83.2 among females, a three year increase to 81.8 years among Hispanics, a three year, two month increase to 81.4 among non-Hispanic whites and a three year, one month increase to 77 years among non-Hispanic blacks since 2002 (page iv).
- Heart disease, cancer and influenza/pneumonia continue to rank as the three leading causes of death. Since 2003, crude death rates declined 32.0%, 5.9% and 19.2% respectively (page vi).
- New York City's 2012 infant mortality rate remained unchanged from 2011, at 4.7 infant deaths per 1,000 live births. Since 2003, it declined 27.7% from 6.5. The 2012 Take Care New York goal of a citywide infant mortality rate of 5.0 was met in 2010 and the Healthy People 2020 goal of 6.0 was met in 2005 (Infant Mortality, Figure 1).
- Infant mortality rates were highest in the city's poorest neighborhoods; while there were 3.0 infant deaths per 1,000 live births in areas with $<10\%$ population below poverty, there were 5.7 infant deaths per 1,000 live births in areas with $\geq 30\%$ population below poverty (page xi).
- New York City's 2012 crude birth rate was 14.8 births per 1,000 population, the lowest rate since 1979, when the rate was also 14.8. The rate decreased 3.9% from 15.4 births per 1,000 population in 2003 and 0.7% from 14.9 births per 1,000 population in 2011 (Pregnancy Outcomes, Figure 1).
- In 2012, 39.4% of women giving birth were either overweight (23.4%) or obese (16.0%) pre-pregnancy. Disproportionately more non-Hispanic black (58.1%) and Hispanic (51.0%) mothers were overweight or obese pre-pregnancy (page xii).
- From 2003 to 2012, teen birth rates declined 32.4% to 23.6 teen births per 1,000 female population (page xii).

For more detailed information please see Vital Event Specific Reports: Mortality, Pregnancy Outcomes, and Infant Mortality or EpiQuery. Please email VSdata@health.nyc.gov for additional data needs.

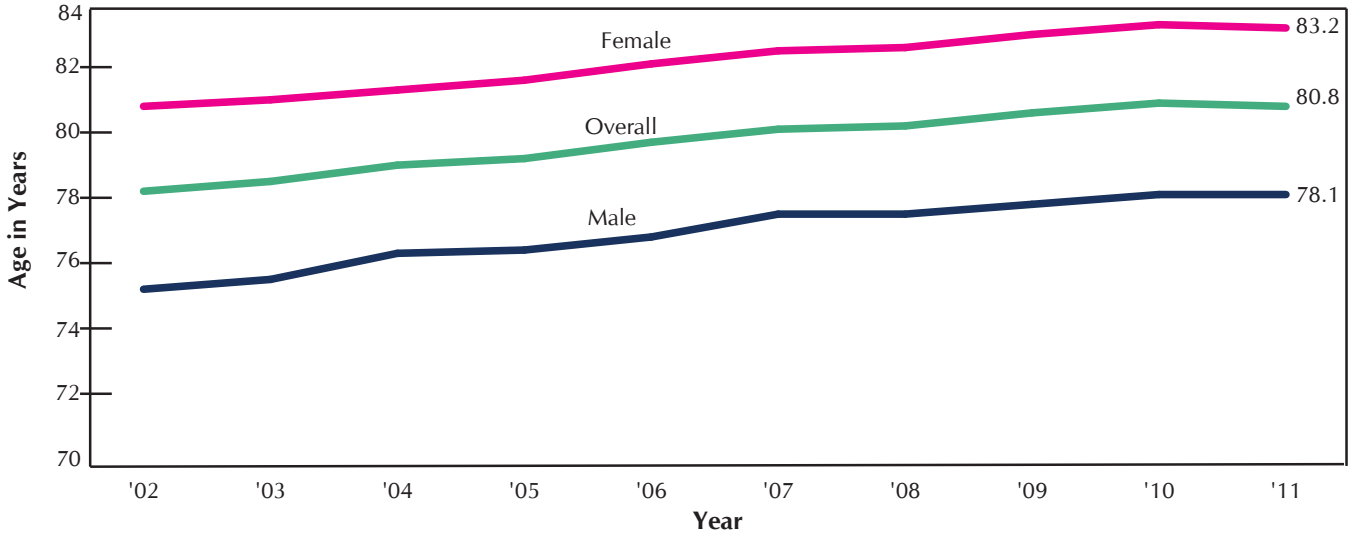
This report was prepared by the Department of Health and Mental Hygiene, Office of Vital Statistics staff under the direction of Regina Zimmerman, PhD, MPH and Wenhui Li, PhD.

Suggested citation: Zimmerman R, Li W, Gambatese M, Madsen A, Lasner-Frater L, Van Wye G, Kelley D, Kennedy J, Maduro G, Sun Y. *Summary of Vital Statistics, 2012: Executive Summary*. New York, NY: New York City Department of Health and Mental Hygiene, Office of Vital Statistics, 2014.

This publication along with the 2012 Infant Mortality, Pregnancy Outcomes. and Mortality Reports are available online at http://www.nyc.gov/vitalstats.

LIFE EXPECTANCY IN NEW YORK CITY

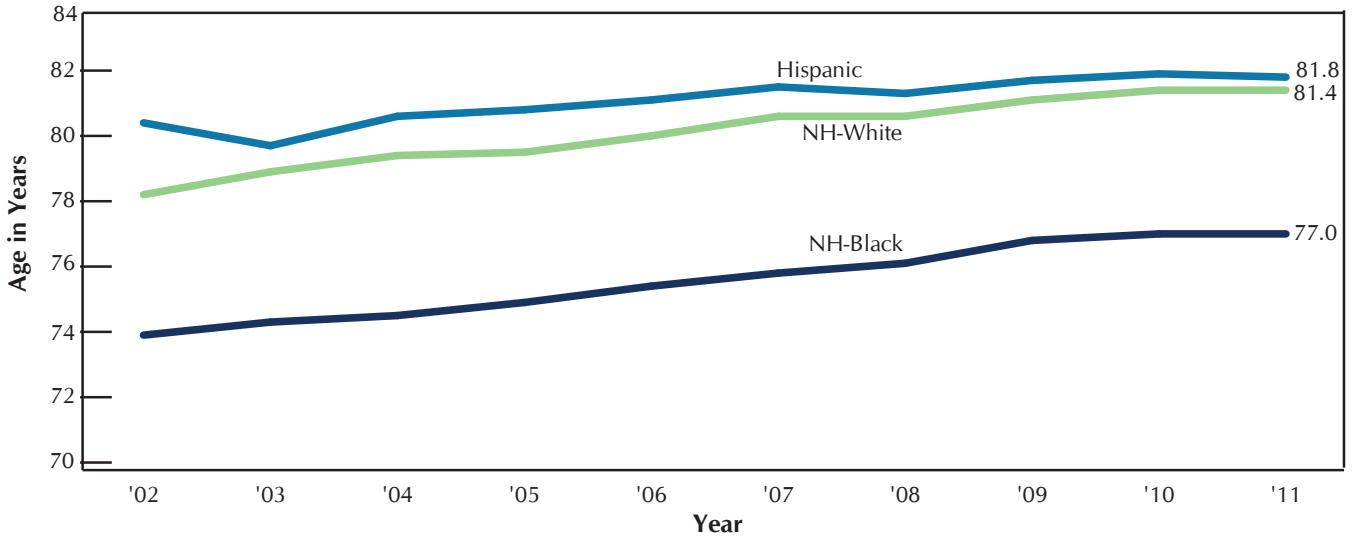
Life Expectancy at Birth, Overall and by Sex, New York City, 2002–2011



*Life Expectancies for the years 2001-2008 have been updated from previous published Summaries by using interpolated population data from 2000 and 2010 US Census counts (See Technical Notes: Population).

- New York City's 2011 life expectancy at birth was 80.8 years (preliminary data for latest year available). This represents a two year, seven month increase since 2002 and an approximate one month (0.1 year) decrease since 2010.
- Among males, life expectancy increased two years, 11 months to 78.1 since 2002 and remained unchanged since 2010. Among females, it increased two years, five months to 83.2 since 2002 and decreased approximately one month since 2010.

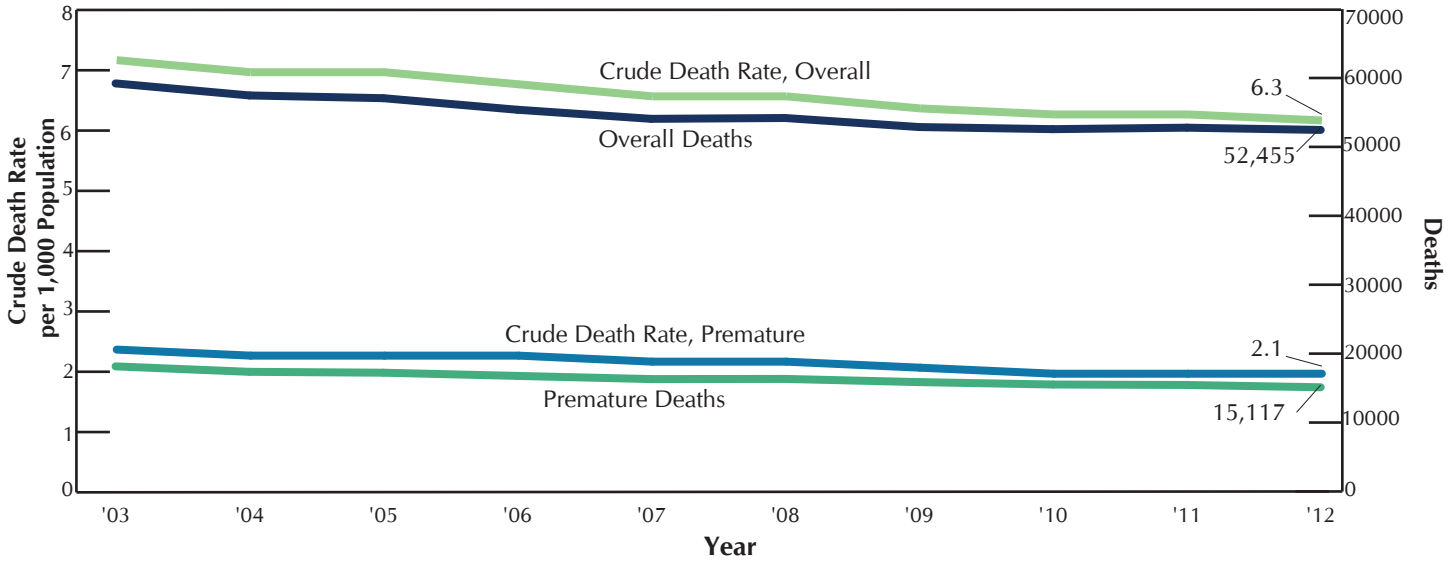
Life Expectancy at Birth by Racial/Ethnic Group, New York City, 2002–2011



- The 2011 life expectancy at birth among Hispanics was 81.8 years (preliminary data for latest year available) and reflects a three year increase since 2003 and an approximate 1 month (0.1 year) decrease since 2010. The 2011 life expectancy among non-Hispanic whites was 81.4 and reflects a three year, two month increase since 2002 and an approximate one month (0.1 year) increase since 2010. Among non-Hispanic blacks, the 2011 life expectancy was 77 years, a three year, one month increase since 2002 and no change since 2011.
- Life expectancy for Asian and Pacific Islander is not displayed because the required single year of age population denominators are too small to produce reliable estimates (See Technical Notes, Life Expectancy).

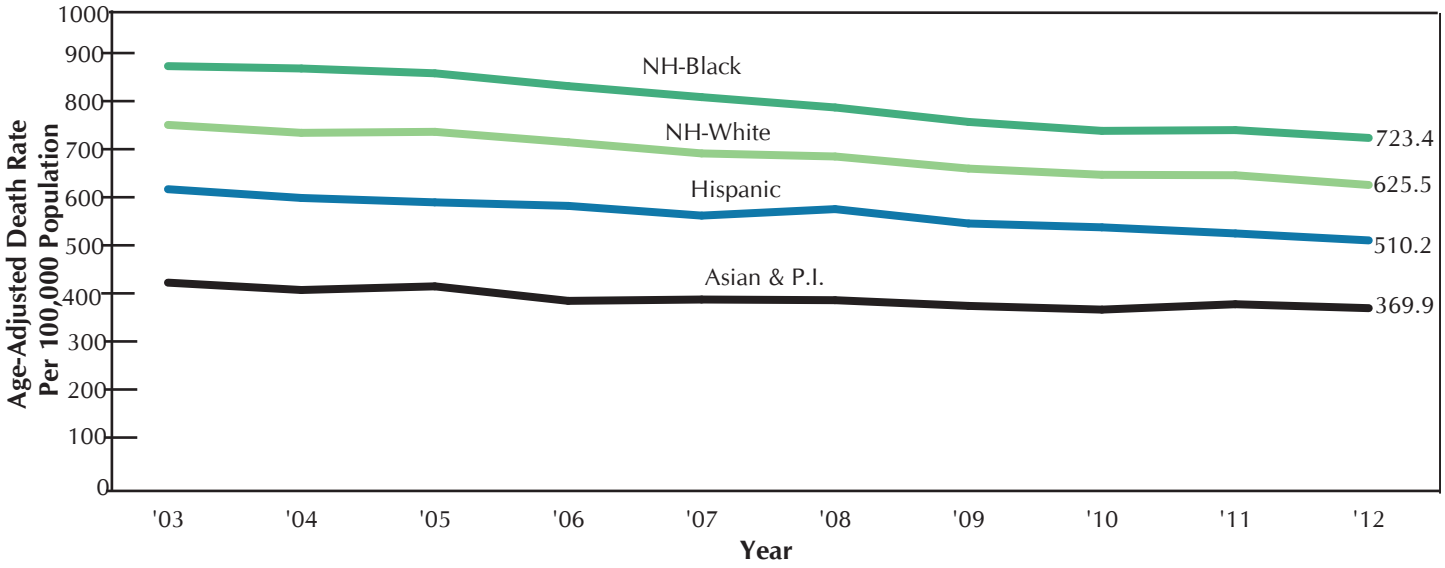
DEATHS IN NEW YORK CITY

Number of Deaths and Crude Death Rates, Overall and Premature (Age <65 Years), New York City, 2003–2012



- The New York City 2012 death rate declined 1.6% from 2011 to a new historic low of 6.3 deaths per 1,000 population, with 52,455 deaths. This is a 13.7% decline since 2003.
- Premature deaths (before age 65) accounted for 28.8% of all deaths in New York City in 2012. The crude premature death rate declined 16.0% since 2003 to 2.1 deaths per 1,000 population.

Age-adjusted Death Rates by Racial/Ethnic Group, New York City, 2003–2012



- From 2003 to 2012, all-cause age-adjusted death rates decreased across all racial/ethnic groups: non-Hispanic blacks by 17.1%, non-Hispanic whites by 16.7%, Hispanics by 17.3%, and Asians and Pacific Islanders by 12.8%. Though rates were consistently highest among non-Hispanic blacks, followed by non-Hispanic whites, Hispanics, and Asians and Pacific Islanders, gaps between the highest (non-Hispanic blacks) and lowest (Asian and Pacific Islanders) rates narrowed more than 21.0% since 2003, a reduction in health disparities.

DEATHS IN NEW YORK CITY

LEADING CAUSES OF DEATH

Ten Leading Causes of Death, Crude Death Rates per 100,000 Population, New York City, 2012, 2011 and 2003

	2012		2011			2003		
Cause	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to 2012 (%)	Rank	Crude Death Rate	Change to 2012 (%)
Diseases of Heart*	1	200.7	1	204.4	-1.8%	1	295.1	-32.0%
Malignant Neoplasms	2	160.8	2	162.6	-1.1%	2	170.9	-5.9%
Influenza and Pneumonia	3	26.9	3	30.1	-10.6%	3	33.3	-19.2%
Diabetes Mellitus	4	21.7	5	21.4	1.4%	4	23.4	-7.3%
Chronic Lower Respiratory Diseases	5	19.8	4	21.5	-7.9%	6	20.7	-4.3%
Cerebrovascular Diseases	6	19.8	6	21.2	-6.6%	5	22.9	-13.5%
Accidents Except Poisoning by Psychoactive Substances†	7	12.4	7	12.3	0.8%	8	14.2	-12.7%
Essential Hypertension and Hypertensive Renal Diseases	8	11.8	8	11.7	0.9%	10	8.8	34.1%
Use of or Poisoning by Psychoactive Substance†	9	9.7	10	9.2	5.4%	9	11.9	-18.5%
Alzheimer's Disease	10	8.3	11	7.6	9.2%	20	3.1	167.7%

*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.

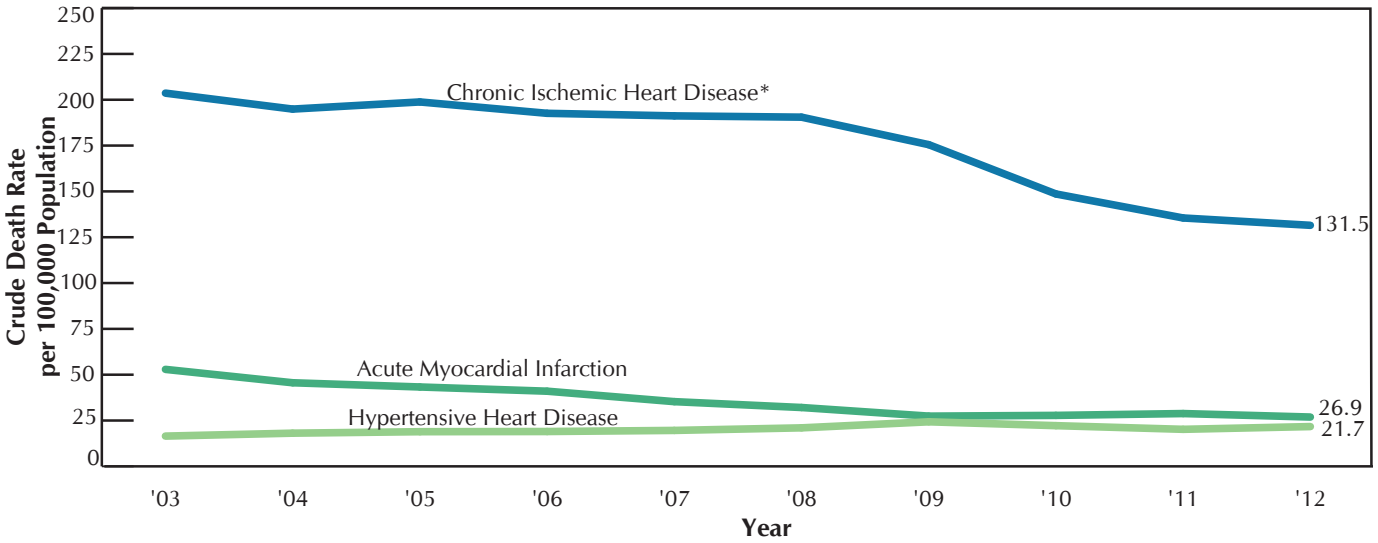
†Technical Note, Summary of Vital Statistics, Appendix B: Drug-Related Deaths for definition.

- Heart disease, malignant neoplasms (cancer), and influenza/pneumonia continue to rank as the 3 leading causes of death. Since 2003, crude death rates declined 32.0%*, 5.9%, and 19.2%, respectively.
- Diabetes mellitus moved from the fifth to the fourth leading cause of death at 21.7 deaths per 100,000 population, in 2012, followed by chronic lower respiratory disease (19.8) and cerebrovascular diseases (mostly stroke) (19.8). These death rates have remained relatively stable since 2003, ranging from a low of 19.5, 17.3, and 17.3 to a high of 23.6, 21.5, and 23.2 deaths per 100,000 population, respectively.
- The essential hypertension and hypertensive renal disease death rate increased approximately 30% from 2003 to 2009 and has remained relatively stable since then, at 11.8 deaths per 100,000 population in 2012.
- In 2012, Alzheimer's disease ranked 10th replacing HIV among the top ten leading causes, at 8.3 deaths per 100,000 population, up 167.7% since 2003. The sharp increase in Alzheimer's disease since 2008 coincides with efforts to improve cause of death accuracy in New York City.*

DEATHS IN NEW YORK CITY

HEART DISEASE DEATHS

Crude Death Rates for 3 Leading Causes of Heart Disease* Death, New York City, 2003–2012

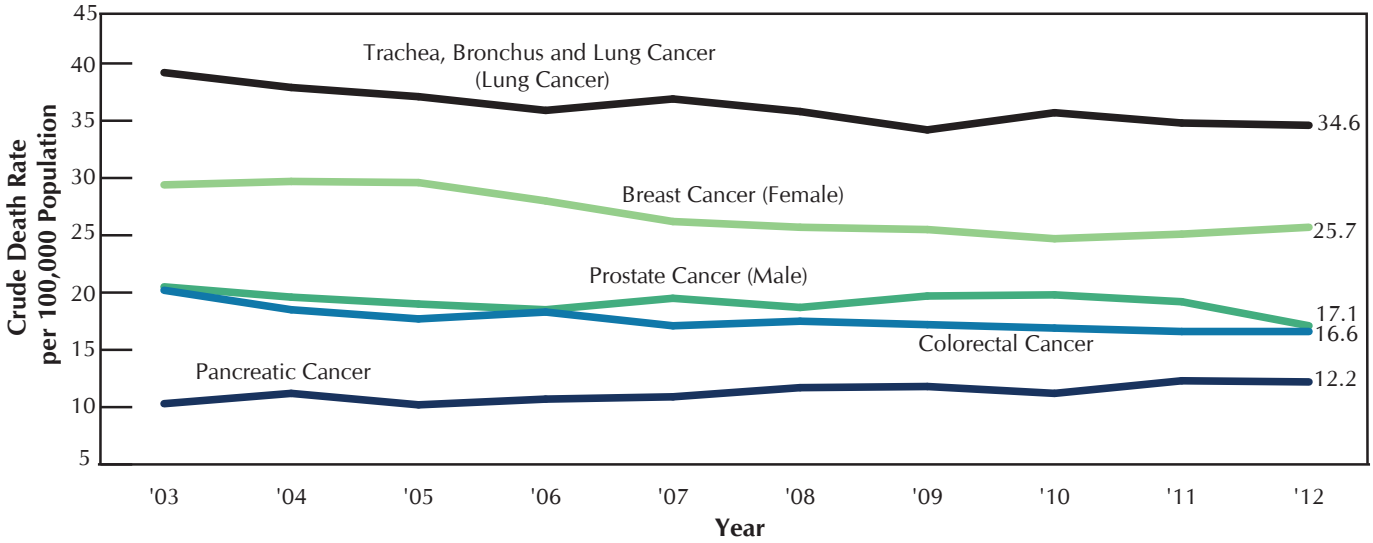


*2010 Summary of Vital Statistics: Mortality – Special Section: Cause of Death Quality Improvement Initiative for information on recent trends in cause of death reporting, particularly heart disease reporting.

- The rate of chronic ischemic heart disease death, the leading cause of heart disease deaths, decreased 35.4% since 2003. The steep decline from 190.5 deaths per 100,000 population in 2008 to 131.5 in 2012 is partly due to efforts to improve the accuracy of cause of death reporting.*
- Since 2003, acute myocardial infarction also decreased 49.1% to 26.9 deaths per 100,000 population, while hypertensive heart disease increased 31.5% to 21.7.

CANCER DEATHS

Crude Death Rates for 5 Leading Causes of Cancer Death, New York City, 2003–2012

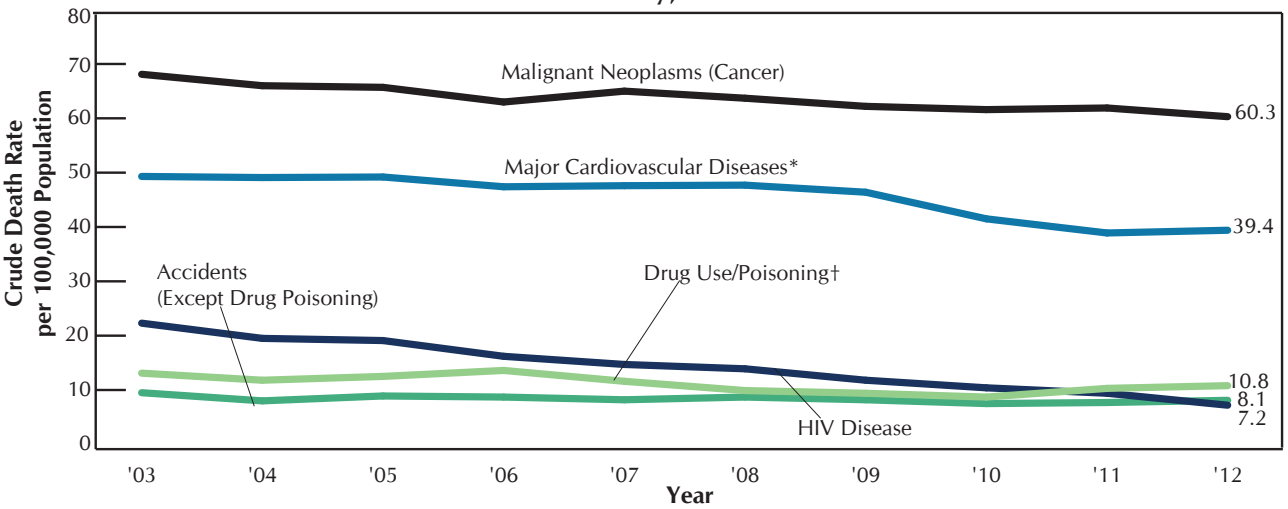


- Since 2003, rates of four of the five leading causes of cancer death decreased: lung cancer (includes the trachea, bronchus and/or lung) (11.7%), female breast cancer (12.6%), male prostate cancer (16.6%), and colorectal cancer (17.8%).
- Pancreatic cancer the fifth leading cause of cancer death increased 18.4% to 12.2 deaths per 100,000 population from 2003.

DEATHS IN NEW YORK CITY

PREMATURE DEATHS

Crude Death Rates for 5 Leading Causes of Premature Death (Age <65 Years), New York City, 2003–2012



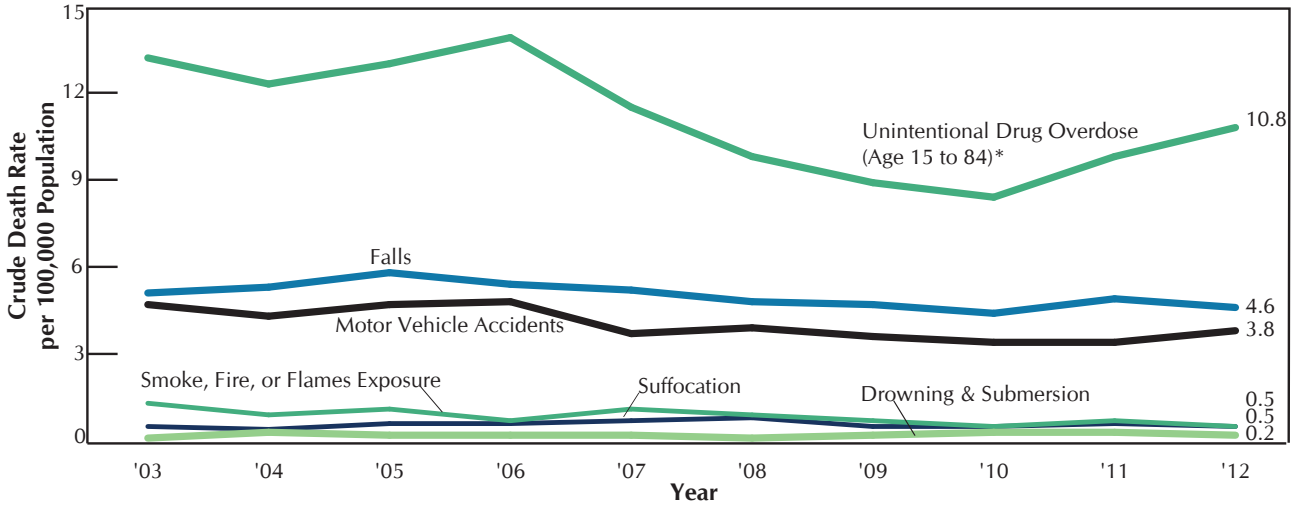
*2010 Summary of Vital Statistics: Mortality – Special Section: Cause of Death Quality Improvement Initiative for information on recent trends in cause of death reporting, particularly heart disease reporting.

†Technical Note in Summary of Vital Statistics, Appendix B: Drug-Related Deaths.

- In 2012, the five leading causes of premature death (before age 65) were cancer, followed by heart disease, use of or poisoning by psychoactive substance (drug use/poisoning), accidents except drug use/poisoning, and HIV disease.
- All declined since 2003: cancer 11.5%, heart disease 20.1%, drug use/poisoning 17.6%, accidents except drug use/poisoning 14.7%, and HIV-related mortality rate 67.7%.
- The continuing decline in HIV-related mortality is attributed to HIV prevention efforts and increased use and effectiveness of antiretroviral drugs. The recent decline in heart disease is partly due to efforts to improve the accuracy of cause of death reporting.*

ACCIDENTS

Crude Death Rates for Selected Accident Deaths, New York City, 2003–2012



*Technical Note, Appendix B: Drug-Related Deaths.

- In 2012, the three leading causes of accidental deaths were unintentional drug overdose* at 10.8 deaths per 100,000 population, followed by falls at 4.6, and motor vehicle accidents at 3.8. Since 2003, rates for all three have fluctuated with overall declines of 18.2%, 9.8% and 19.1% respectively.
- Rates of accidental death due to smoke, fire or flame exposure; suffocation; and drowning and submersion were all less than 1 death per 100,000 population in 2012.

SPECIAL SECTION
HURRICANE SANDY RELATED DEATHS

- This special section highlights the effects of Hurricane Sandy on 2012 mortality. Future publications will describe the methods of surveillance and results in more detail.
- On October 29, 2012, post-tropical cyclone Sandy made landfall approximately 100 miles south of New York City, causing a record breaking storm surge.* Extensive flooding and wind damage caused widespread power outages, transportation shutdowns, residential and hospital evacuations, and billions of dollars of damage.†
- In total, there were 44 deaths in New York City that were identified by the Office of the Chief Medical Examiner as due to Hurricane Sandy. Most of the deaths were identified within one week of the storm; however, one body was not discovered until April 2013, and is included among 2012 reported deaths.

*Service Assessment: Hurricane/Post-Tropical Cyclone Sandy, October 22-29, 2012, 2013, National Weather Service: Silver Spring, Maryland.
†New York City Mayor's Office. Hurricane Sandy After Action: Report and Recommendations to Mayor Michael R. Bloomberg, May 2013.

Characteristics of Hurricane Sandy Deaths, 2012

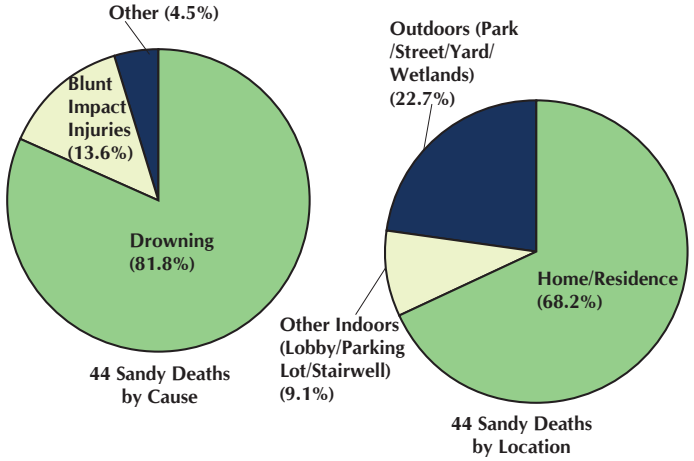
	All Deaths	Percent
Total	44	100.0%
Sex		
Male	31	70.5%
Female	13	29.5%
Age		
<20 years	4	9.1%
21-54 years	9	20.5%
55-75 years	20	45.5%
>75 years	11	25.0%
Race/Ethnicity		
Non-Hispanic White	35	79.5%
Non-Hispanic Black	7	15.9%
Asian & Pacific Islanders	1	2.3%
Hispanic	1	2.9%
Education		
<High School	6	17.1%
High School Graduate	17	38.6%
Some College/Graduate	21	47.7%
Date of Hurricane Sandy Death*		
October 29, 2012	2	4.5%
October 30, 2012	26	59.1%
October 31, 2012	5	11.4%
November 1, 2012	5	11.4%
November 2-9, 2012	6	13.6%

*Most dates of death are actual. Others are the date when the body was discovered or estimated based on the Office of the Chief Medical Examiner investigation.

- Of the 44 deaths, the majority were male (70.5%) and non-Hispanic white (79.5%).
- The median age of decedents was 62 and ranged from 2 to 90 years. Decedents were more likely to be 55-75 years of age (45.5%) and >75 years of age (25.0%).
- Roughly half of the decedents (47.7%) had some college or a college degree.
- Deaths occurred from October 29 through November 9, 2012 with the majority (59.1%) on October 30th.*

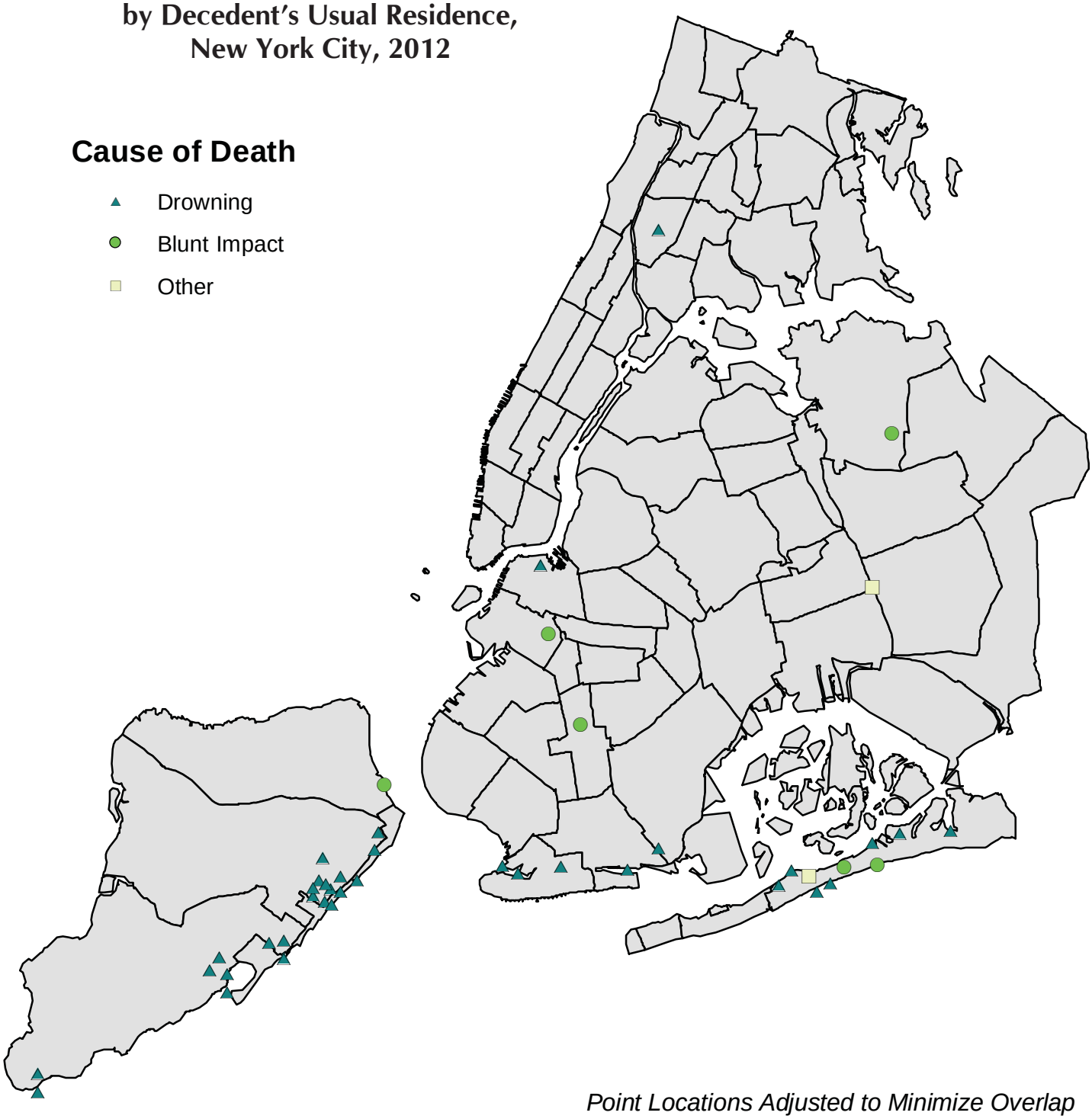
- Deaths due to Hurricane Sandy primarily occurred as a result of drowning (81.8%) and blunt impact (13.6%).
- Nearly seventy percent (68.2%) of deaths occurred in the decedent's home.

Causes and Locations of Hurricane Sandy Deaths, 2012



SPECIAL SECTION
HURRICANE SANDY RELATED DEATHS

Cause of Hurricane Sandy Related Deaths by Decedent's Usual Residence, New York City, 2012

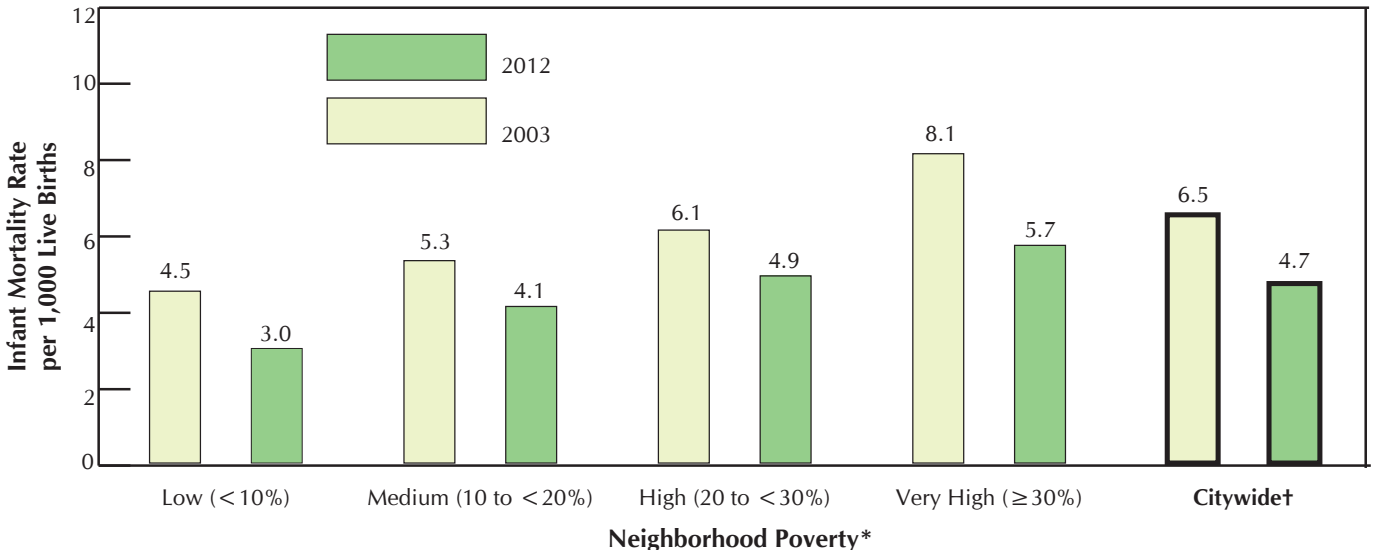


Point Locations Adjusted to Minimize Overlap

- Drowning deaths primarily occurred to residents of coastal areas of Staten Island (61.1%), Queens (19.4%), and Brooklyn (16.7%) in their homes.

INFANT MORTALITY

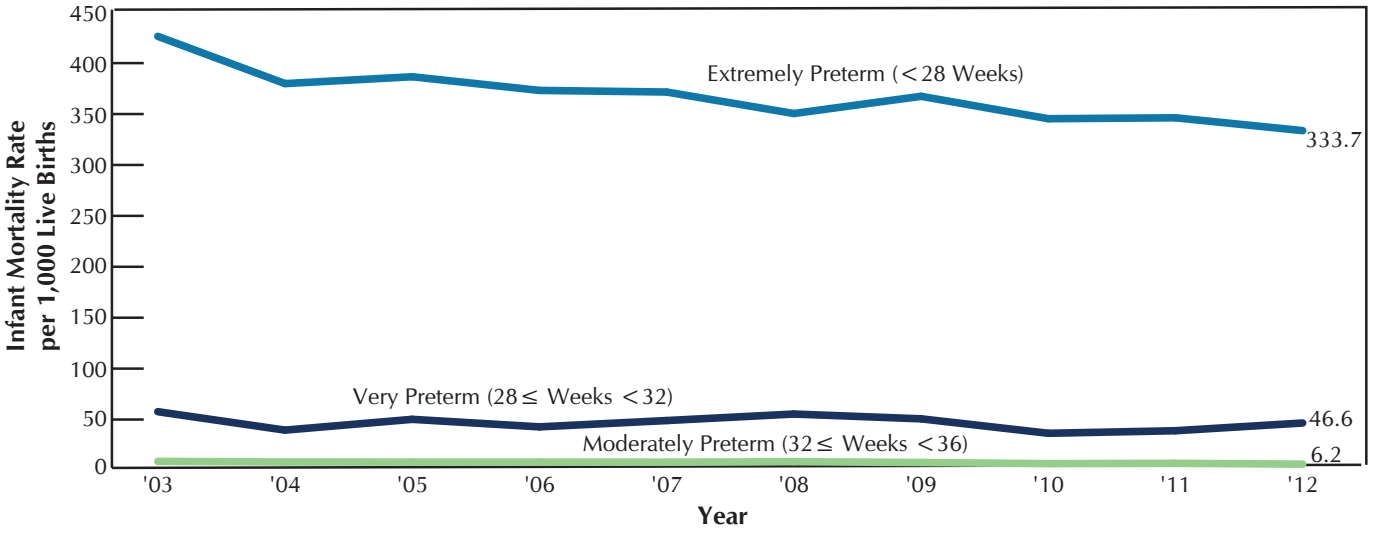
Infant Mortality Rate by Neighborhood Poverty*, New York City, 2003, 2012



- Infant mortality rates were highest in the city's poorest neighborhoods. While there were 3.0 infant deaths per 1,000 live births in areas with <10% population below poverty, there were 5.7 infant deaths per 1,000 live births in areas with ≥30% population below poverty.
- Since 2003, infant mortality rates decreased mostly in census tracts with low poverty (32.1%), followed by census tracts with very high poverty (29.4%). Infant mortality rates in areas of medium poverty and high poverty declined 21.5% and 19.5% respectively.

*Neighborhood poverty (based on mother's census tract) defined as percent of residents with incomes below 100% of the Federal Poverty Level, per Census 2010.
†Computed from all infant death, regardless of residence.

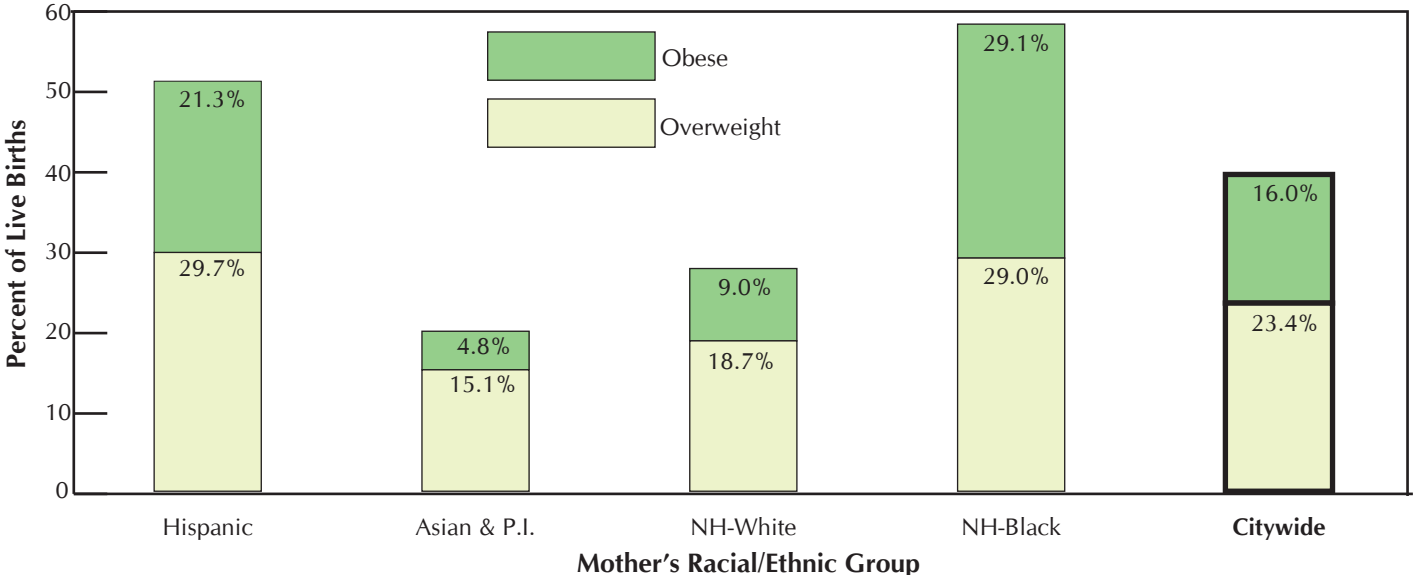
Infant Mortality Rate among Preterm Live Births, New York City, 2003–2012



- The less than two percent of infants born extremely and very preterm have very high risks for death with infant mortality rates of 333.7 and 46.6 infant deaths per 1,000 live births respectively in 2012. The rate of infant death for moderately preterm births was 6.2.
- Since 2003, infant mortality declined 21.7% among extremely preterm, 19.2% among very preterm and 30.3% among moderately preterm.

BIRTHS

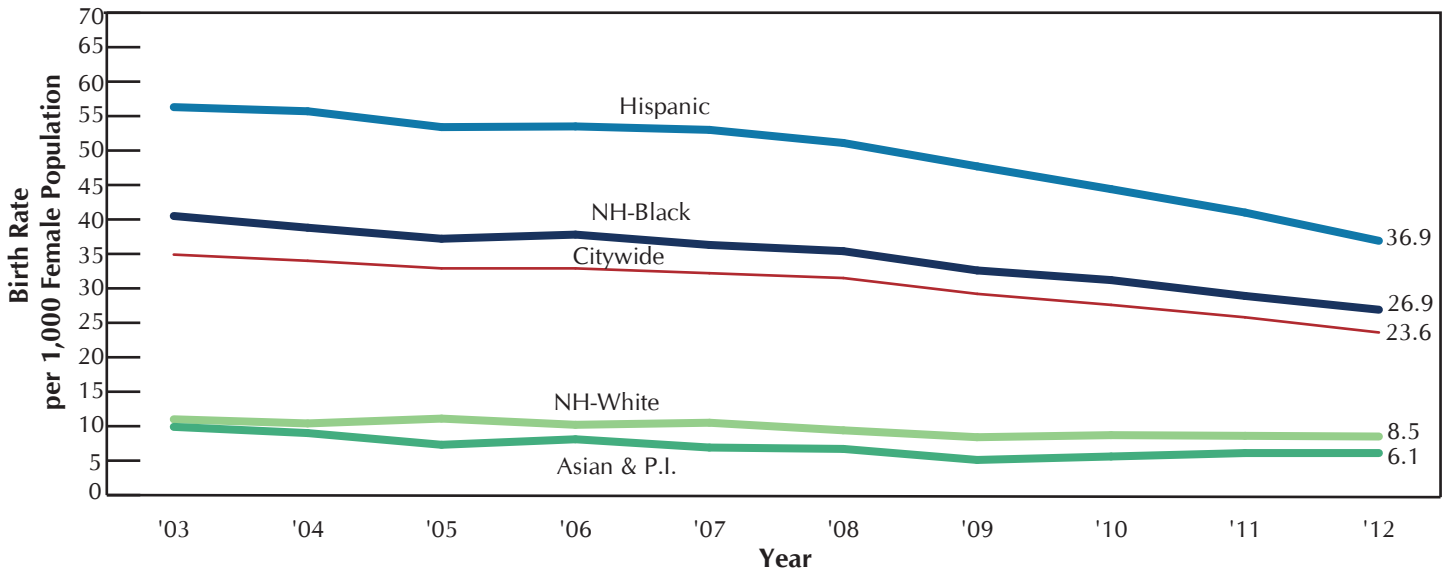
Pre-pregnancy Body Mass Index (BMI)* by Mother's Racial/Ethnic group, New York City, 2012



*Body Mass Index (BMI): Overweight: (25 BMI <30), Obese: (BMI ≥ 30).

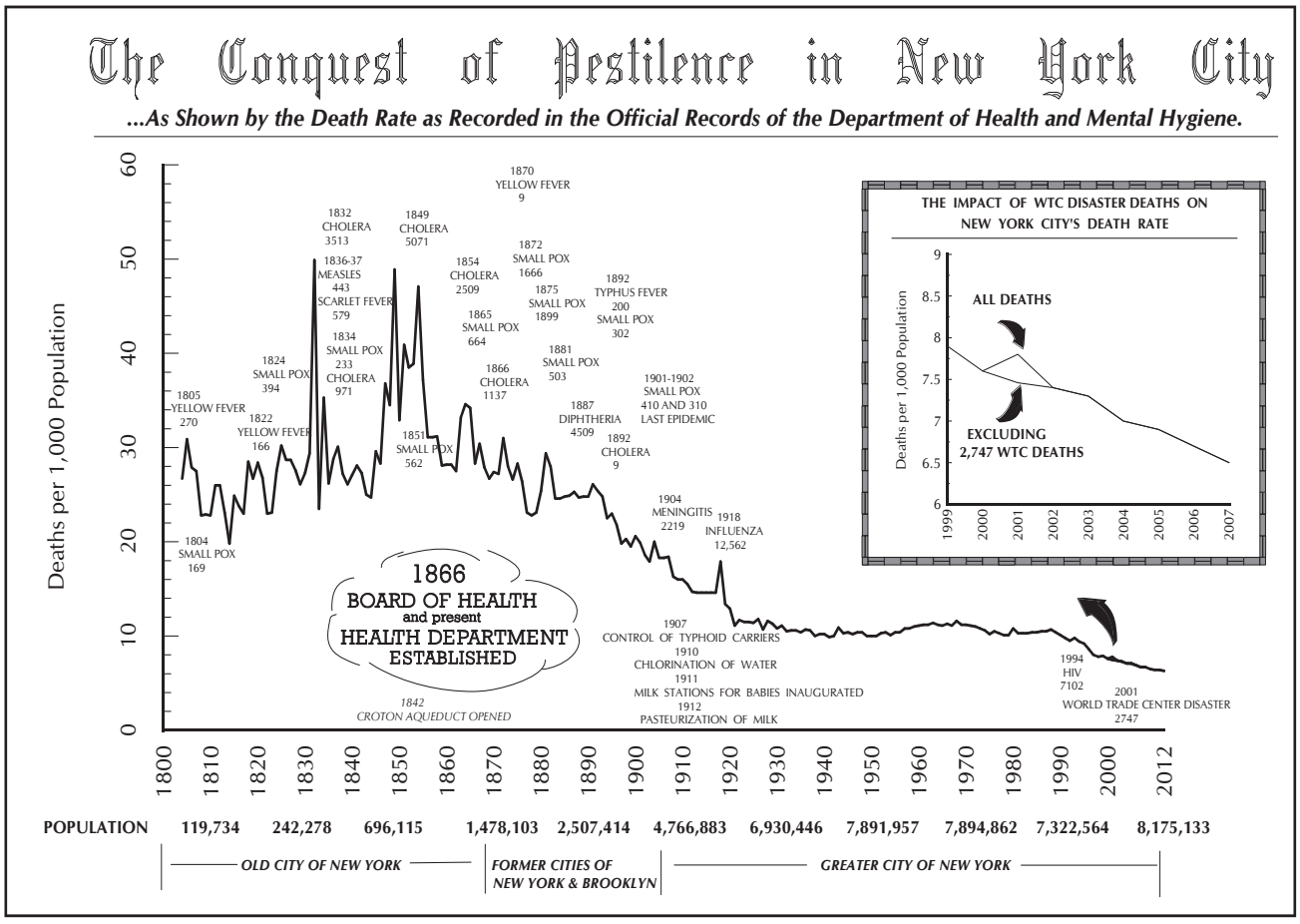
- In 2012, 39.4% of women giving birth were either overweight (23.4%) or obese (16.0%) pre-pregnancy.
- Disproportionately more non-Hispanic black (58.1%), and Hispanic (51.0%) women giving birth were overweight or obese pre-pregnancy.
- Asians and Pacific Islanders and non-Hispanic whites had the lowest levels of pre-pregnancy overweight and obesity at 19.9% and 27.7%, respectively.

Teen Birth Rate by Racial/Ethnic Group, New York City, 2003–2012



- From 2003 to 2012, birth rates among 15-20 year olds declined 32.4% to 23.6 births per 1,000 female teen population.
- Though rates were consistently highest among Hispanics, followed by non-Hispanic blacks, non-Hispanic whites and Asian and Pacific Islander, gaps between the highest (Hispanics) and lowest (Asian and Pacific Islanders) rates narrowed 33.6% since 2003.

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK
MORTALITY



BUREAU OF VITAL STATISTICS, NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
125 WORTH STREET, CN 7, NEW YORK, NEW YORK, 10013

Bill de Blasio, Mayor Daniel Kass, MSPH, Interim Commissioner

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK
MORTALITY

New York City Department of Health and Mental Hygiene

Division of Epidemiology
Carolyn Greene, MD, Deputy Commissioner

Bureau of Vital Statistics
Gretchen Van Wye, PhD, MA, Acting Assistant Commissioner
Flor Betancourt, MA, Director, Birth and Death Registration Unit
Tara Das, PhD, MPH, Director, Office of the Registrar
Melissa Gambatese, MPH, Director, Quality Improvement Unit
Kevin Koshar, MPP, Director, Office of Vital Records
Wenhui Li, PhD, Director, Statistical Analysis and Reporting Unit
Ann Madsen, PhD, MPH, Director, Office of Vital Statistics
Steven Schwartz, PhD, Registrar
Regina Zimmerman, PhD, MPH, Director, Data Use and Disclosure Unit

February 2014

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

Suggested citation: Zimmerman R, Li W, Gambatese M, Madsen A, Lasner-Frater L, Van Wye G, Kelley D, Kennedy J, Maduro G, Sun Y. *Summary of Vital Statistics, 2012: Mortality*. New York, NY: New York City Department of Health and Mental Hygiene, Office of Vital Statistics, 2013.

2012 Mortality, Infant Mortality, Pregnancy Outcomes, and Executive Summary Reports are available online at http://www.nyc.gov/vitalstats.

MORTALITY CONTENTS

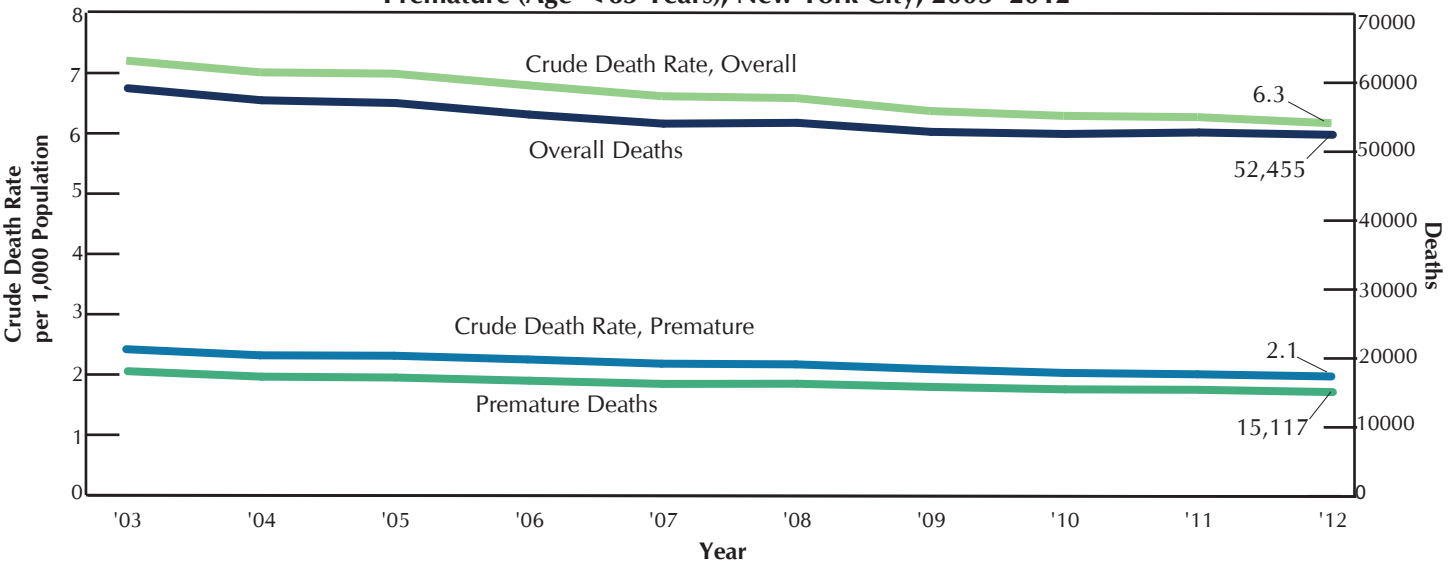
MORTALITY OVERVIEW

This section gives a broad understanding of New York City mortality by cause and examines leading and select causes by demographic characteristics. Mortality data are derived from death certificates, which contain demographic information such as the decedent's sex, race, and residence as well as information about the timing and cause of the death. In New York City, these certificates are completed by physicians and funeral directors. More than 93% are submitted electronically through the Electronic Death Registration System (EDRS). The Office of Chief Medical Examiner investigates all deaths not due to natural causes, such as accidents, homicides and suicides, and some natural causes, especially sudden deaths.

Select Key Findings:

- New York City's 2012 crude death rate declined 1.6% from 2011 to a new historic low of 6.3 deaths per 1,000 population, with 52,455 deaths in 2012. This is a 13.7% decline since 2003 (Figure 1).
- From 2003 to 2012, all-cause age-adjusted death rates decreased across all racial/ethnic groups: non-Hispanic blacks by 17.1%, non-Hispanic whites by 16.7%, Hispanics by 17.3% and Asians and Pacific Islanders by 12.8%. Though rates were consistently highest among non-Hispanic blacks followed by non-Hispanic whites, Hispanics, and Asians and Pacific Islanders, gaps between the highest (non-Hispanic blacks) and lowest (Asian and Pacific Islanders) rates narrowed more than 21.0% since 2003, a reduction in health disparities (Figure 2).
- In 2011, New York City's life expectancy at birth was 80.8 years (preliminary data from latest year available). This is a two year, seven month increase since 2002 and an approximate one month (0.1 year) decrease since 2010 (Figure 4).
- The 2011 life expectancy reflects a two year, 11 month increase to 78.1 among males, a two year, five month increase to 83.2 among females, a three year increase to 81.8 years among Hispanics, a three year, two month increase to 81.4 among non-Hispanic whites, and a three year, one month increase to 77 years among non-Hispanic blacks since 2002 (Figure 4,5).
- Heart disease, malignant neoplasms (cancer), and influenza/pneumonia continue to rank as the 3 leading causes of death; crude death rates for all three declined in the last decade, down 32.0%, 5.9%, and 19.2%, respectively (Table 1).
- The crude premature death rate (before age 65 years) declined 16.0% since 2003 to 2.1 deaths per 1,000 population in 2012 (Figure 1). The five leading causes of premature death were cancer, followed by heart disease, use of or poisoning by psychoactive substance (drug use/poisoning), accidents except drug use/poisoning, and HIV disease (Figure 9).
- HIV is no longer one of the 10 leading causes of death in NYC (Table 1). HIV crude death rate declined 64.4% since 2003 and 21.5% since 2011 respectively (data not shown).

Figure 1. Number of Deaths and Crude Death Rates, Overall and Premature (Age <65 Years), New York City, 2003–2012



MORTALITY OVERVIEW (CONTINUED)

- From 2003 to 2012, all-cause age-adjusted death rates decreased across all racial/ethnic groups: non-Hispanic blacks by 17.1%, non-Hispanic whites by 16.7%, Hispanics by 17.3% and Asians and Pacific Islanders by 12.8%.
- Though rates were consistently highest among non-Hispanic blacks followed by non-Hispanic whites, Hispanics, and Asians and Pacific Islanders, gaps between the highest (non-Hispanic blacks) and lowest (Asian and Pacific Islanders) rates narrowed more than 21.0% since 2003, a reduction in health disparities.

Figure 2. Age-adjusted Death Rates by Racial/ Ethnic Group, New York City, 2003–2012

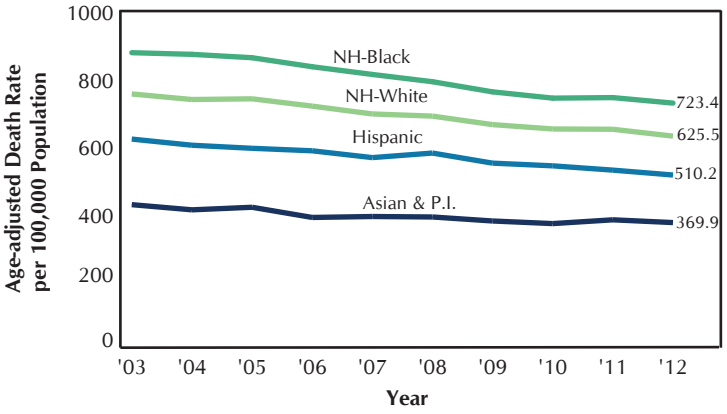
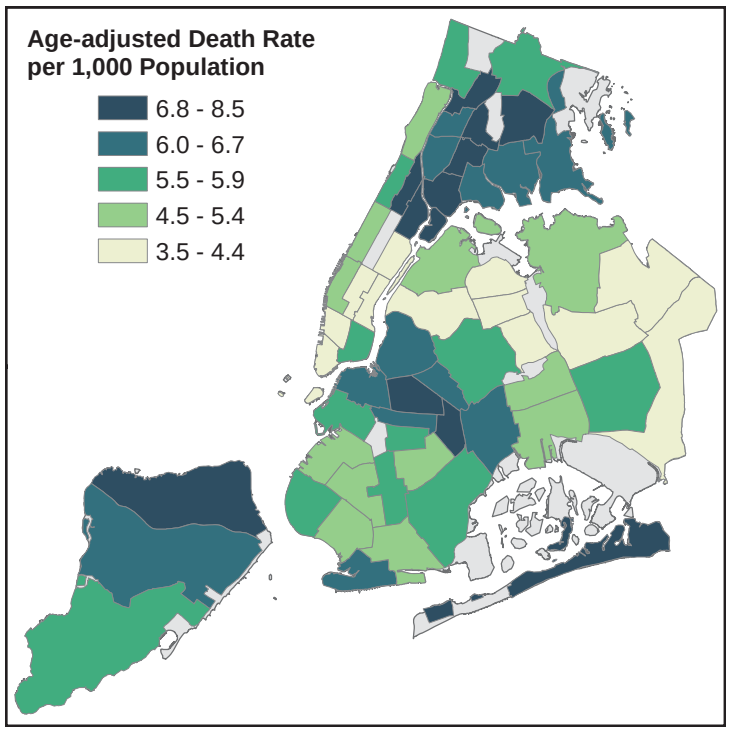


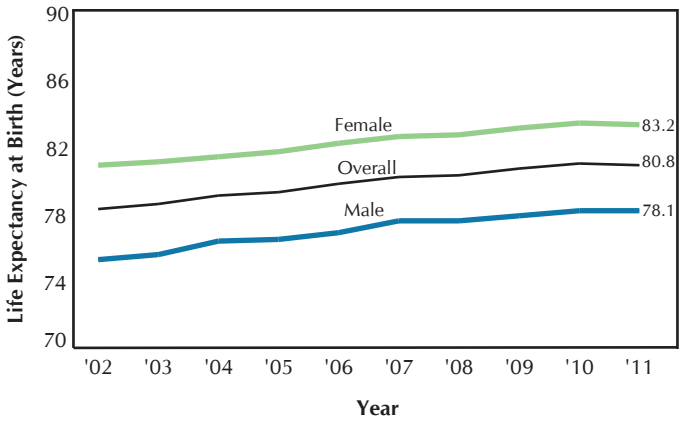
Figure 3. Age-adjusted Death Rates by Community District of Residence, New York City, 2012



- In 2012, New York City's age-adjusted death rates were lowest in Bayside at 3.5 deaths per 1,000 population, followed by Queens Village at 3.8, Murray Hill and Midtown Business District, both at 3.9, Battery Park/ Tribeca at 4.0, and Greenwich Village/Soho at 4.1.
- The 2012 age-adjusted death rates were highest in Brownsville at 8.5 deaths per 1,000 population, followed by Central Harlem at 8.0, the Rockaways at 7.8, Morrisania at 7.7, and Bedford Stuyvesant at 7.6.

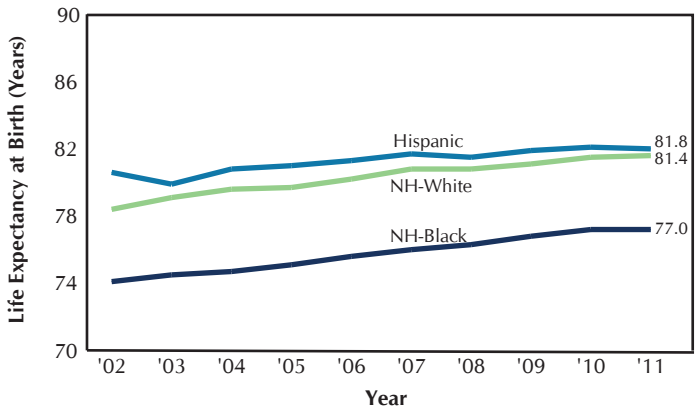
LIFE EXPECTANCY

Figure 4. Life Expectancy at Birth, Overall and by Sex, New York City, 2002–2011



- New York City's 2011 life expectancy at birth was 80.8 years (preliminary data for latest year available). This is a two year, seven month increase since 2002 and an approximate one month (0.1 year) decrease since 2010.
- The 2011 life expectancy reflects a two year, 11 month increase to 78.1 years among males and a two year, five month increase to 83.2 years among females since 2002.

Figure 5. Life Expectancy at Birth by Racial/Ethnic Group, New York City, 2002–2011



- The 2011 life expectancy at birth among Hispanics was 81.8 years (preliminary data for latest year available) and reflects a three year increase since 2002 and an approximate one month (0.1 year) decrease since 2010. The 2011 life expectancy among non-Hispanic whites was 81.4 years and reflects a three year, two month increase since 2002 and an approximate one month (0.1 year) increase since 2010. Among non-Hispanic blacks, the 2011 life expectancy was 77.0 years, a three year, one month increase since 2002 and no change since 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 (Technical Notes, Life Expectancy).

LEADING CAUSES OF DEATH

Table 1. Ten Leading Causes of Death, Crude Death Rates per 100,000 Population, New York City, 2012, 2011 and 2003

	2012		2011			2003		
Cause	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to 2012 (%)	Rank	Crude Death Rate	Change to 2012 (%)
Diseases of Heart*	1	200.7	1	204.4	-1.8%	1	295.1	-32.0%
Malignant Neoplasms	2	160.8	2	162.6	-1.1%	2	170.9	-5.9%
Influenza and Pneumonia	3	26.9	3	30.1	-10.6%	3	33.3	-19.2%
Diabetes Mellitus	4	21.7	5	21.4	1.4%	4	23.4	-7.3%
Chronic Lower Respiratory Diseases	5	19.8	4	21.5	-7.9%	6	20.7	-4.3%
Cerebrovascular Diseases	6	19.8	6	21.2	-6.6%	5	22.9	-13.5%
Accidents Except Poisoning by Psychoactive Substances†	7	12.4	7	12.3	0.8%	8	14.2	-12.7%
Essential Hypertension and Hypertensive Renal Diseases	8	11.8	8	11.7	0.9%	10	8.8	34.1%
Use of or Poisoning by Psychoactive Substance†	9	9.7	10	9.2	5.4%	9	11.9	-18.5%
Alzheimer's Disease	10	8.3	11	7.6	9.2%	20	3.1	167.7%

*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.

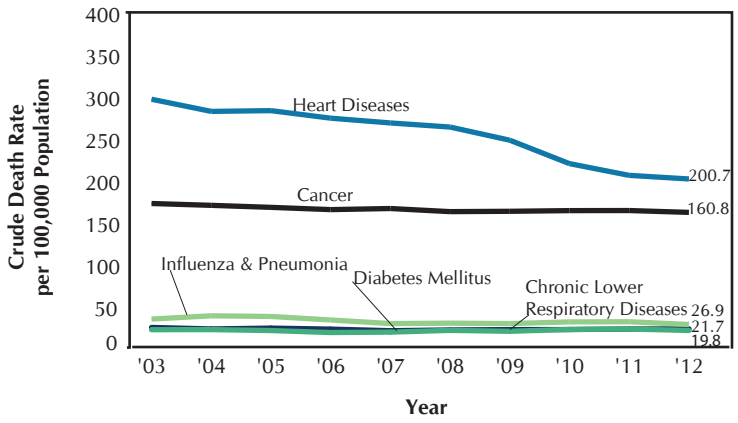
†Technical Note, Summary of Vital Statistics, Appendix B: Drug-Related Deaths for definition.

- Heart disease, malignant neoplasms (cancer), and influenza/pneumonia continue to rank as the three leading causes of death; crude death rates for all three declined since 2003, down 32.0%, 5.9%, and 19.2%, respectively since 2003.
- Diabetes mellitus moved from the fifth to the fourth leading cause of death at 21.7 deaths per 100,000, in 2012, followed by chronic lower respiratory diseases (19.8) and cerebrovascular diseases (mostly stroke) (19.8). These death rates have remained relatively stable since 2003, ranging from a low of 19.5, 17.3, and 17.3 to a high of 23.6, 21.5, and 23.2 deaths per 100,000 population, respectively.
- The rate of essential hypertension and hypertensive renal disease death increased approximately 30% from 2003 to 2009 and has remained relatively stable since then, at 11.8 deaths per 100,000 population in 2012.
- In 2012, Alzheimer's disease ranked tenth replacing HIV among the top ten leading causes, at 8.3 deaths per 100,000, up 167.7% since 2003. A sharp increase in Alzheimer's disease occurred since 2008, coinciding with efforts to improve cause of death reporting accuracy in New York City.*

LEADING CAUSES OF DEATH

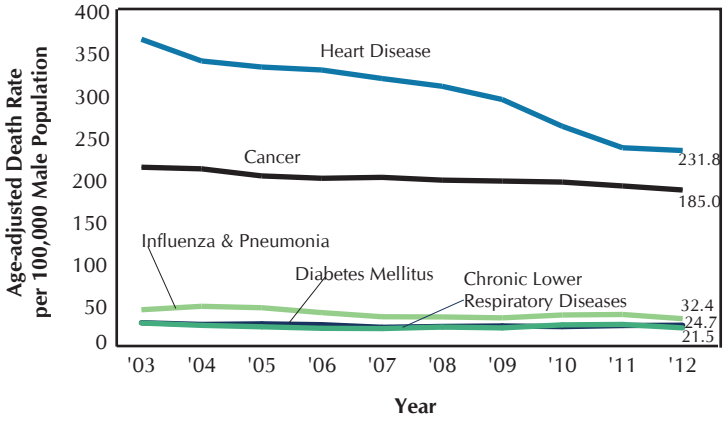
- Heart disease, cancer, and influenza/pneumonia continue to rank as the three leading causes of death; crude death rates for all three declined since 2003, down 32.0%, 5.9%, and 19.2% respectively.
- The steep decline in heart disease death rates since 2008 (23.1%) is partly due to efforts to improve the accuracy of cause of death reporting.*
- Crude death rates for diabetes mellitus and chronic lower respiratory diseases remained relatively stable, at 21.7 and 19.8 deaths per 100,000 population, respectively in 2012.

Figure 6. Crude Death Rates among Leading Causes, New York City, 2003–2012



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

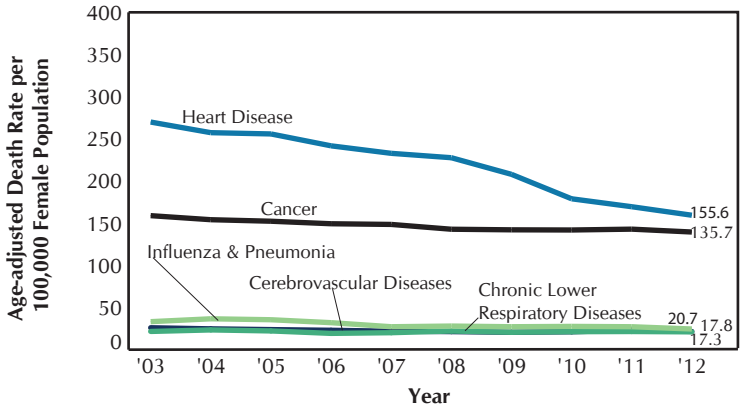
Figure 7. Age-adjusted Death Rates for Leading Causes among Males, New York City, 2003–2012



- In 2012, the five leading causes of death among males mirror citywide leading causes of death.
- From 2003 to 2012, rates of the five leading causes of death among males decreased: heart disease decreased 36.1%; cancer decreased 12.4%; influenza and pneumonia decreased 24.3%, chronic lower respiratory diseases decreased 21.0% and diabetes mellitus decreased 10.2%.

- In 2012, the top five leading causes of death among females mirror those among males and citywide except the fourth leading cause of death among females was cerebrovascular disease, not diabetes mellitus.
- From 2003 to 2012, death rates of the five leading causes of death among females decreased: heart disease decreased 41.3%; cancer 12.3%; influenza and pneumonia 29.4%; cerebrovascular disease 19.8%; and chronic lower respiratory diseases 2.8%.

Figure 8. Age-adjusted Death Rates for Leading Causes among Females, New York City, 2003–2012



LEADING CAUSES OF DEATH

Table 2. Leading Causes of Death by Age Group and Sex, New York City, 2012

		All		Male		Female	
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	16,732	31.9	7,955	31.0	8,777	32.8
2	Malignant Neoplasms	13,405	25.6	6,583	25.6	6,822	25.5
3	Influenza and Pneumonia	2,245	4.3	1,079	4.2	1,166	4.4
4	Diabetes Mellitus	1,813	3.5	883	3.4	930	3.5
5	Chronic Lower Respiratory Diseases	1,651	3.1	734	2.9	917	3.4
6	Cerebrovascular Diseases	1,647	3.1	671	2.6	976	3.6
7	Accidents Except Poisoning by Psychoactive Substance	1,034	2.0	701	2.7	333	1.2
8	Essential Hypertension and Hypertensive Renal Disease	980	1.9	418	1.6	562	2.1
9	Use of or Poisoning by Psychoactive Substance	812	1.5	592	2.3	220	0.8
10	Alzheimer's Disease	696	1.3	208	0.8	488	1.8
	All Other Causes	11,440	21.8	5,843	22.8	5,597	20.9
	Total	52,455	100.0	25,667	100.0	26,788	100.0
Rank	< 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	125	21.4	60	18.9	65	24.4
2	Short Gestation and Low Birthweight	119	20.4	63	19.9	56	21.1
3	Cardiovascular Disorders Originating in the Perinatal Period	75	12.9	41	12.9	34	12.8
4	External Causes	55	9.4	30	9.5	25	9.4
5	Newborn Affected by Complications of Placenta	22	3.8	13	4.1	9	3.4
6	Respiratory Distress of Newborn	15	2.6	12	3.8	3	1.1
7	Bacterial Sepsis of Newborn	10	1.7	6	1.9	4	1.5
7	Other Respiratory Conditions Originating in the Perinatal Period	10	1.7	4	1.3	6	2.3
9	Neonatal Hemorrhage	9	1.5	7	2.2	2	0.8
9	Necrotizing Enterocolitis of Newborn	9	1.5	5	1.6	4	1.5
	All Other Causes	134	23.0	76	24.0	58	21.8
	Total	583	100.0	317	100.0	266	100.0
Rank	1 - 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	42	19.4	18	15.1	24	24.5
2	Accidents Except Poisoning by Psychoactive Substance	31	14.3	20	16.8	11	11.2
3	Congenital Malformations, Deformations	26	12.0	17	14.3	9	9.2
4	Assault (Homicide)	19	8.8	14	11.8	5	5.1
5	Chronic Lower Respiratory Diseases	13	6.0	6	5.0	7	7.1
6	Diseases of Heart	12	5.5	7	5.9	5	5.1
7	Cerebrovascular Diseases	6	2.8	3	2.5	3	3.1
7	Influenza and Pneumonia	6	2.8	3	2.5	3	3.1
7	Intentional Self-harm (Suicide)	6	2.8	2	1.7	4	4.1
	All Other Causes	56	25.8	29	24.4	27	27.6
	Total	217	100.0	119	100.0	98	100.0
Rank	15 - 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	141	25.5	133	32.8	8	5.4
2	Accidents Except Poisoning by Psychoactive Substance	87	15.7	67	16.5	20	13.4
3	Intentional Self-harm (Suicide)	66	11.9	46	11.4	20	13.4
4	Malignant Neoplasms	51	9.2	27	6.7	24	16.1
5	Use of or Poisoning by Psychoactive Substance	48	8.7	40	9.9	8	5.4
6	Diseases of Heart	19	3.4	9	2.2	10	6.7
7	Congenital Malformations, Deformations	16	2.9	7	1.7	9	6.0
8	Chronic Lower Respiratory Diseases	15	2.7	11	2.7	4	2.7
9	Human Immunodeficiency Virus (HIV) Disease	11	2.0	5	1.2	6	4.0
10	Legal Intervention	7	1.3	6	1.5	1	0.7
	All Other Causes	93	16.8	54	13.3	39	26.2
	Total	554	100.0	405	100.0	149	100.0
Rank	25 - 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	147	15.7	118	17.9	29	10.6
2	Assault (Homicide)	133	14.2	120	18.2	13	4.7
3	Malignant Neoplasms	126	13.5	67	10.1	59	21.5
4	Accidents Except Poisoning by Psychoactive Substance	100	10.7	84	12.7	16	5.8
5	Intentional Self-harm (Suicide)	94	10.1	66	10.0	28	10.2
6	Diseases of Heart	62	6.6	48	7.3	14	5.1
7	Human Immunodeficiency Virus (HIV) Disease	34	3.6	24	3.6	10	3.6
8	Diabetes Mellitus	17	1.8	12	1.8	5	1.8
9	Pregnancy, Childbirth, and the Puerperium	16	1.7	-	-	16	5.8
10	Congenital Malformations, Deformations	13	1.4	8	1.2	5	1.8
	All Other Causes	193	20.6	114	17.2	79	28.8
	Total	935	100.0	661	100.0	274	100.0

Continued on next page.

LEADING CAUSES OF DEATH

Table 2. Leading Causes of Death by Age Group and Sex, New York City, 2012 (Continued)

Rank	35 - 44 YEARS	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	342	22.0	148	15.2	194	33.0
2	Diseases of Heart	209	13.4	156	16.1	53	9.0
3	Use of or Poisoning by Psychoactive Substance	170	10.9	122	12.6	48	8.2
4	Accidents Except Poisoning by Psychoactive Substance	94	6.0	81	8.3	13	2.2
5	Human Immunodeficiency Virus (HIV) Disease	90	5.8	54	5.6	36	6.1
6	Intentional Self-harm (Suicide)	83	5.3	64	6.6	19	3.2
7	Assault (Homicide)	59	3.8	46	4.7	13	2.2
8	Diabetes Mellitus	46	3.0	33	3.4	13	2.2
9	Chronic Liver Disease and Cirrhosis	45	2.9	35	3.6	10	1.7
10	Cerebrovascular Diseases	38	2.4	20	2.1	18	3.1
	All Other Causes	382	24.5	212	21.8	170	29.0
	Total	1,558	100.0	971	100.0	587	100.0
Rank	45 - 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,235	30.4	575	23.4	660	41.2
2	Diseases of Heart	808	19.9	568	23.1	240	15.0
3	Use of or Poisoning by Psychoactive Substance	275	6.8	186	7.6	89	5.6
4	Human Immunodeficiency Virus (HIV) Disease	217	5.3	136	5.5	81	5.1
5	Diabetes Mellitus	143	3.5	97	3.9	46	2.9
6	Accidents Except Poisoning by Psychoactive Substance	127	3.1	99	4.0	28	1.7
7	Intentional Self-harm (Suicide)	125	3.1	88	3.6	37	2.3
8	Chronic Liver Disease and Cirrhosis	118	2.9	80	3.3	38	2.4
9	Cerebrovascular Diseases	116	2.9	67	2.7	49	3.1
10	Mental Disorder Due to Use of Alcohol	87	2.1	68	2.8	19	1.2
	All Other Causes	809	19.9	493	20.1	316	19.7
	Total	4,060	100.0	2,457	100.0	1,603	100.0
Rank	55 - 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	2,604	36.1	1,348	31.2	1,256	43.4
2	Diseases of Heart	1,753	24.3	1,181	27.4	572	19.8
3	Diabetes Mellitus	288	4.0	174	4.0	114	3.9
4	Chronic Liver Disease and Cirrhosis	185	2.6	132	3.1	53	1.8
5	Viral Hepatitis	183	2.5	125	2.9	58	2.0
6	Influenza and Pneumonia	177	2.5	104	2.4	73	2.5
7	Cerebrovascular Diseases	173	2.4	108	2.5	65	2.2
8	Human Immunodeficiency Virus (HIV) Disease	169	2.3	120	2.8	49	1.7
8	Chronic Lower Respiratory Diseases	169	2.3	89	2.1	80	2.8
10	Use of or Poisoning by Psychoactive Substance	148	2.1	110	2.5	38	1.3
	All Other Causes	1,361	18.9	826	19.1	535	18.5
	Total	7,210	100.0	4,317	100.0	2,893	100.0
Rank	65 - 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,340	37.3	1,756	35.5	1,584	39.4
2	Diseases of Heart	2,552	28.5	1,553	31.4	999	24.9
3	Diabetes Mellitus	382	4.3	190	3.8	192	4.8
4	Chronic Lower Respiratory Diseases	332	3.7	159	3.2	173	4.3
5	Influenza and Pneumonia	297	3.3	175	3.5	122	3.0
6	Cerebrovascular Diseases	248	2.8	126	2.5	122	3.0
7	Essential Hypertension and Hypertensive Renal Disease	170	1.9	84	1.7	86	2.1
8	Accidents Except Poisoning by Psychoactive Substance	118	1.3	77	1.6	41	1.0
9	Chronic Liver Disease and Cirrhosis	113	1.3	78	1.6	35	0.9
10	Nephritis, Nephrotic Syndrome, and Nephrosis	86	1.0	51	1.0	35	0.9
	All Other Causes	1,327	14.8	700	14.1	627	15.6
	Total	8,965	100.0	4,949	100.0	4,016	100.0
Rank	75 - 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,108	34.0	2,072	35.2	2,036	32.9
2	Malignant Neoplasms	3,424	28.4	1,703	29.0	1,721	27.8
3	Influenza and Pneumonia	604	5.0	323	5.5	281	4.5
4	Chronic Lower Respiratory Diseases	511	4.2	235	4.0	276	4.5
5	Diabetes Mellitus	487	4.0	215	3.7	272	4.4
6	Cerebrovascular Disease	429	3.6	179	3.0	250	4.0
7	Essential Hypertension and Hypertensive Renal Disease	238	2.0	102	1.7	136	2.2
8	Accidents Except Poisoning by Psychoactive Substance	153	1.3	82	1.4	71	1.1
8	Alzheimer's Disease	153	1.3	50	0.9	103	1.7
10	Nephritis, Nephrotic Syndrome, and Nephrosis	120	1.0	61	1.0	59	1.0
	All Other Causes	1,850	15.3	858	14.6	992	16.0
	Total	12,077	100.0	5,880	100.0	6,197	100.0
Rank	≥85 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	7,202	44.2	2,357	42.2	4,845	45.3
2	Malignant Neoplasms	2,241	13.8	941	16.8	1,300	12.1
3	Influenza and Pneumonia	1,052	6.5	410	7.3	642	6.0
4	Cerebrovascular Diseases	620	3.8	157	2.8	463	4.3
5	Chronic Lower Respiratory Diseases	522	3.2	184	3.3	338	3.2
6	Alzheimer's Disease	489	3.0	127	2.3	362	3.4
7	Diabetes Mellitus	448	2.7	160	2.9	288	2.7
8	Essential Hypertension and Hypertensive Renal Disease	394	2.4	126	2.3	268	2.5
9	Accidents Except Poisoning by Psychoactive Substance	171	1.0	80	1.4	91	0.9
10	Nephritis, Nephrotic Syndrome, and Nephrosis	154	0.9	57	1.0	97	0.9
	All Other Causes	3,002	18.4	992	17.7	2,010	18.8
	Total	16,295	100.0	5,591	100.0	10,704	100.0

LEADING CAUSES OF DEATH

Table 3. Leading Causes of Death by Racial/Ethnic Group and Sex, New York City, 2012

Rank	Puerto Rican	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,383	27.4	686	26.5	697	28.3
2	Malignant Neoplasms	1,103	21.8	587	22.7	516	20.9
3	Diabetes Mellitus	244	4.8	116	4.5	128	5.2
4	Influenza and Pneumonia	230	4.6	108	4.2	122	5.0
5	Chronic Lower Respiratory Diseases	185	3.7	86	3.3	99	4.0
6	Use of or Poisoning by Psychoactive Substance	155	3.1	119	4.6	36	1.5
7	Cerebrovascular Diseases	134	2.7	53	2.1	81	3.3
8	Human Immunodeficiency Virus (HIV) Disease	115	2.3	75	2.9	40	1.6
9	Viral Hepatitis	114	2.3	78	3.0	36	1.5
10	Chronic Liver Disease and Cirrhosis	108	2.1	70	2.7	38	1.5
	All Other Causes	1,278	25.3	607	23.5	671	27.2
	Total	5,049	100.0	2,585	100.0	2,464	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,148	26.3	539	23.8	609	28.9
2	Diseases of Heart	1,131	25.9	565	25.0	566	26.8
3	Influenza and Pneumonia	184	4.2	97	4.3	87	4.1
4	Cerebrovascular Diseases	164	3.8	76	3.4	88	4.2
5	Accidents Except Poisoning by Psychoactive Substance	162	3.7	133	5.9	29	1.4
6	Diabetes Mellitus	150	3.4	78	3.4	72	3.4
7	Chronic Lower Respiratory Diseases	105	2.4	46	2.0	59	2.8
8	Chronic Liver Disease and Cirrhosis	89	2.0	73	3.2	16	0.8
9	Essential Hypertension and Hypertensive Renal Disease	80	1.8	31	1.4	49	2.3
10	Intentional Self-harm (Suicide)	78	1.8	59	2.6	19	0.9
	All Other Causes	1,080	24.7	564	24.9	516	24.5
	Total	4,371	100.0	2,261	100.0	2,110	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,086	31.5	622	33.5	464	29.2
2	Diseases of Heart	872	25.3	470	25.3	402	25.3
3	Cerebrovascular Diseases	172	5.0	70	3.8	102	6.4
4	Influenza and Pneumonia	151	4.4	77	4.1	74	4.7
5	Diabetes Mellitus	133	3.9	76	4.1	57	3.6
6	Chronic Lower Respiratory Diseases	94	2.7	55	3.0	39	2.5
7	Accidents Except Poisoning by Psychoactive Substance	90	2.6	56	3.0	34	2.1
8	Essential Hypertension and Hypertensive Renal Disease	78	2.3	39	2.1	39	2.5
9	Intentional Self-harm (Suicide)	75	2.2	41	2.2	34	2.1
10	Nephritis, Nephrotic Syndrome, and Nephrosis	39	1.1	17	0.9	22	1.4
	All Other Causes	656	19.0	333	17.9	323	20.3
	Total	3,446	100.0	1,856	100.0	1,590	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,875	35.6	4,156	34.5	4,719	36.7
2	Malignant Neoplasms	6,441	25.9	3,185	26.5	3,256	25.3
3	Influenza and Pneumonia	1,117	4.5	541	4.5	576	4.5
4	Chronic Lower Respiratory Diseases	859	3.4	352	2.9	507	3.9
5	Cerebrovascular Diseases	701	2.8	285	2.4	416	3.2
6	Diabetes Mellitus	532	2.1	292	2.4	240	1.9
7	Accidents Except Poisoning by Psychoactive Substance	463	1.9	286	2.4	177	1.4
8	Use of or Poisoning by Psychoactive Substance	363	1.5	272	2.3	91	0.7
9	Essential Hypertension and Hypertensive Renal Disease	352	1.4	153	1.3	199	1.5
10	Alzheimer's Disease	337	1.4	115	1.0	222	1.7
	All Other Causes	4,864	19.5	2,398	19.9	2,466	19.2
	Total	24,904	100.0	12,035	100.0	12,869	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,209	30.4	1,940	29.9	2,269	30.7
2	Malignant Neoplasms	3,475	25.1	1,563	24.1	1,912	25.9
3	Diabetes Mellitus	717	5.2	308	4.8	409	5.5
4	Influenza and Pneumonia	537	3.9	242	3.7	295	4.0
5	Cerebrovascular Diseases	442	3.2	170	2.6	272	3.7
6	Chronic Lower Respiratory Diseases	388	2.8	184	2.8	204	2.8
7	Human Immunodeficiency Virus (HIV) Disease	359	2.6	223	3.4	136	1.8
8	Essential Hypertension and Hypertensive Renal Disease	357	2.6	143	2.2	214	2.9
9	Assault (Homicide)	261	1.9	235	3.6	26	0.4
10	Accidents Except Poisoning by Psychoactive Substance	209	1.5	152	2.3	57	0.8
	All Other Causes	2,910	21.0	1,320	20.4	1,590	21.5
	Total	13,864	100.0	6,480	100.0	7,384	100.0

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

PREMATURE DEATH

- The five leading causes of premature death (before age 65 years) were cancer, followed by heart disease, use of or poisoning by psychoactive substance (drug use/poisoning), accidents except drug use/poisoning, and HIV disease – shifting from fourth position in 2011 to fifth in 2012.
- All declined since 2003: cancer 11.5%, accidents except drug use/poisoning 14.7%, drug use/poisoning 17.6%, heart disease 20.1%, and HIV 67.7%.
- The decline in HIV-related mortality is attributed to HIV prevention efforts and increased use and effectiveness of antiretroviral drugs.

Figure 9. Crude Death Rates for Leading Causes of Premature Death (Age < 65 Years), New York City, 2003–2012

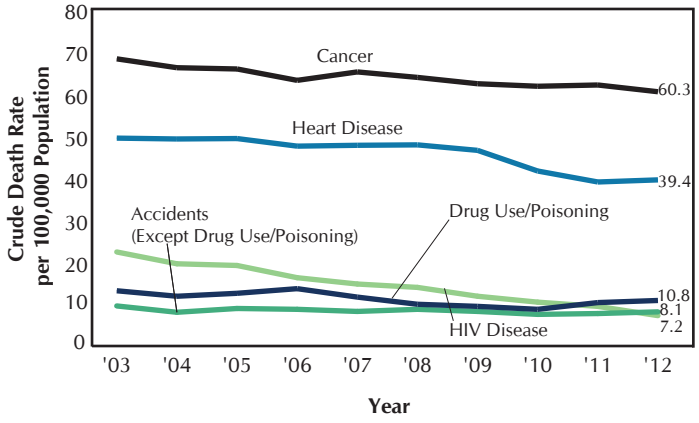
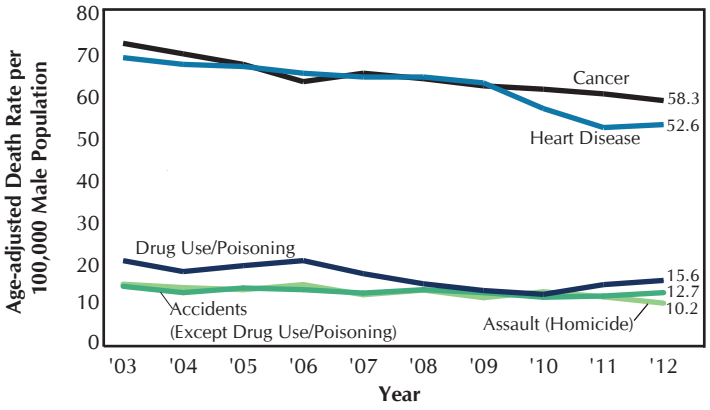


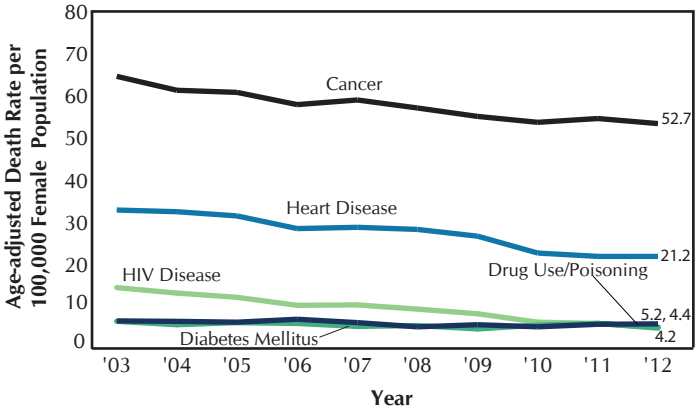
Figure 10. Age-adjusted Death Rates for Leading Causes of Premature Death (Age < 65 Years) among Males, New York City, 2003–2012



- In 2012, the four leading causes of premature deaths among males mirrored citywide leading causes. Homicide replaced HIV disease as the fifth leading cause of premature death among males.
- Age-adjusted death rates of all five leading causes of premature death among males declined since 2003: cancer by 18.9%, heart disease and drug use/poisoning both by 23.2%, accidents except drug use/poisoning by 10.6%, and homicide by 30.6%.

- In 2012, the five leading causes of premature deaths among females were cancer, followed by heart disease, drug use/poisoning, HIV disease, and diabetes mellitus.
- Age-adjusted rates for the five leading causes of premature death among females all decreased since 2003: cancer by 17.5%, heart disease by 34.2%, drug use/poisoning by 11.9%, HIV disease by 68.1%, and diabetes mellitus by 27.8%.

Figure 11. Age-adjusted Death Rates for Leading Causes of Premature Death (Age < 65 Years) among Females, New York City, 2003–2012



PREMATURE DEATH

Table 4. Leading Causes of Premature Death (Age <65 Years) by Racial/ Ethnic Group and Sex, New York City, 2012

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	400	21.6	228	19.2	172	25.8
2	Diseases of Heart	320	17.3	218	18.4	102	15.3
3	Use of or Poisoning by Psychoactive Substance	151	8.2	115	9.7	36	5.4
4	Human Immunodeficiency Virus (HIV) Disease	102	5.5	66	5.6	36	5.4
5	Viral Hepatitis	90	4.9	69	5.8	21	3.2
6	Chronic Liver Disease and Cirrhosis	77	4.2	49	4.1	28	4.2
7	Diabetes Mellitus	76	4.1	49	4.1	27	4.1
8	Chronic Lower Respiratory Diseases	58	3.1	32	2.7	26	3.9
9	Accidents Except Poisoning by Psychoactive Substance	51	2.8	36	3.0	15	2.3
10	Assault (Homicide)	50	2.7	47	4.0	3	0.5
	All Other Causes	477	25.8	277	23.4	200	30.0
	Total	1,852	100.0	1,186	100.0	666	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	452	28.0	211	20.5	241	41.2
2	Diseases of Heart	235	14.6	161	15.6	74	12.6
3	Accidents Except Poisoning by Psychoactive Substance	129	8.0	112	10.9	17	2.9
4	Intentional Self-harm (Suicide)	69	4.3	53	5.1	16	2.7
5	Chronic Liver Disease and Cirrhosis	64	4.0	57	5.5	7	1.2
6	Use of or Poisoning by Psychoactive Substance	62	3.8	50	4.9	12	2.1
7	Assault (Homicide)	59	3.7	49	4.8	10	1.7
8	Cerebrovascular Diseases	56	3.5	40	3.9	16	2.7
9	Diabetes Mellitus	46	2.8	29	2.8	17	2.9
10	Congenital Malformations, Deformations	39	2.4	27	2.6	12	2.1
	All Other Causes	404	25.0	241	23.4	163	27.9
	Total	1,615	100.0	1,030	100.0	585	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	418	41.1	235	36.1	183	49.9
2	Diseases of Heart	172	16.9	132	20.3	40	10.9
3	Intentional Self-harm (Suicide)	59	5.8	33	5.1	26	7.1
4	Accidents Except Poisoning by Psychoactive Substance	48	4.7	33	5.1	15	4.1
5	Cerebrovascular Diseases	28	2.8	19	2.9	9	2.5
6	Diabetes Mellitus	26	2.6	21	3.2	5	1.4
7	Congenital Malformations, Deformations	25	2.5	14	2.2	11	3.0
8	Influenza and Pneumonia	19	1.9	12	1.8	7	1.9
9	Essential Hypertension and Renal Diseases	15	1.5	12	1.8	3	0.8
10	Viral Hepatitis	12	1.2	9	1.4	3	0.8
	All Other Causes	196	19.3	131	20.1	65	17.7
	Total	1,018	100.0	651	100.0	367	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,682	33.6	853	26.8	829	45.5
2	Diseases of Heart	988	19.7	741	23.3	247	13.6
3	Use of or Poisoning by Psychoactive Substance	360	7.2	271	8.5	89	4.9
4	Intentional Self-harm (Suicide)	226	4.5	162	5.1	64	3.5
5	Accidents Except Poisoning by Psychoactive Substance	195	3.9	151	4.7	44	2.4
6	Chronic Liver Disease and Cirrhosis	126	2.5	90	2.8	36	2.0
7	Diabetes Mellitus	114	2.3	79	2.5	35	1.9
8	Mental Disorders Due to Use of Alcohol	93	1.9	70	2.2	23	1.3
9	Chronic Lower Respiratory Diseases	85	1.7	45	1.4	40	2.2
10	Viral Hepatitis	82	1.6	60	1.9	22	1.2
	All Other Causes	1,056	21.1	663	20.8	393	21.6
	Total	5,007	100.0	3,185	100.0	1,822	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,386	26.2	622	20.9	764	33.1
2	Diseases of Heart	1,097	20.8	683	22.9	414	17.9
3	Human Immunodeficiency Virus (HIV) Disease	305	5.8	184	6.2	121	5.2
4	Assault (Homicide)	255	4.8	231	7.8	24	1.0
5	Diabetes Mellitus	221	4.2	134	4.5	87	3.8
6	Use of or Poisoning by Psychoactive Substance	193	3.7	124	4.2	69	3.0
7	Accidents Except Poisoning by Psychoactive Substance	152	2.9	116	3.9	36	1.6
8	Cerebrovascular Diseases	144	2.7	74	2.5	70	3.0
9	Influenza and Pneumonia	117	2.2	61	2.0	56	2.4
10	Chronic Lower Respiratory Diseases	109	2.1	56	1.9	53	2.3
	All Other Causes	1,307	24.7	694	23.3	613	26.6
	Total	5,286	100.0	2,979	100.0	2,307	100.0

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

YEARS OF POTENTIAL LIFE LOST BEFORE AGE 75

- Years of Potential Life Lost (YPLL) estimates the number of years of life lost due to a person dying before their expected life expectancy (age 75), e.g., a person dying at age 65 would have lost 10 years of life. The estimates for each premature death are added together to get the total YPLL for the population.
- More than six of 10 YPLL (61.1%) are among males; nearly four of 10 YPLL (38.9%) are among females.
- For many leading causes of death, males have twice the YPLL than females.
- Cancer and heart disease, the two leading causes of death, were responsible for 41.2% of YPLL in 2012.
- Use of or poisoning by psychoactive substance, accidents except drug poisoning, and homicide are responsible for another 14.9% of YPLL in 2012.

Figure 12. Years of Potential Life Lost (YPLL) Before Age 75 by Sex and Selected Causes of Death, New York City, 2012

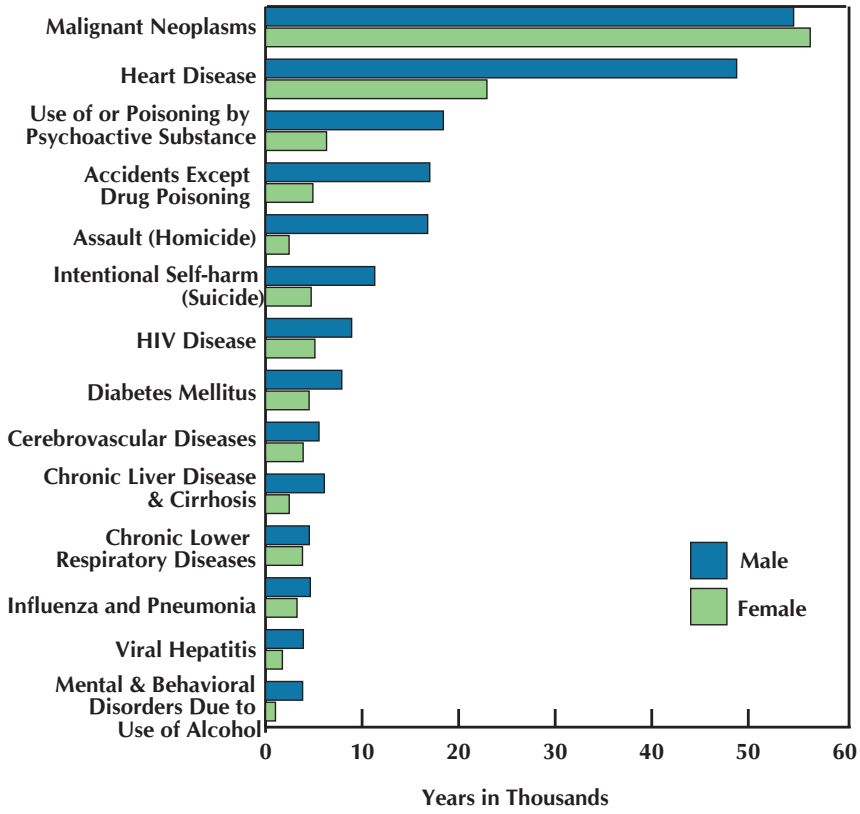


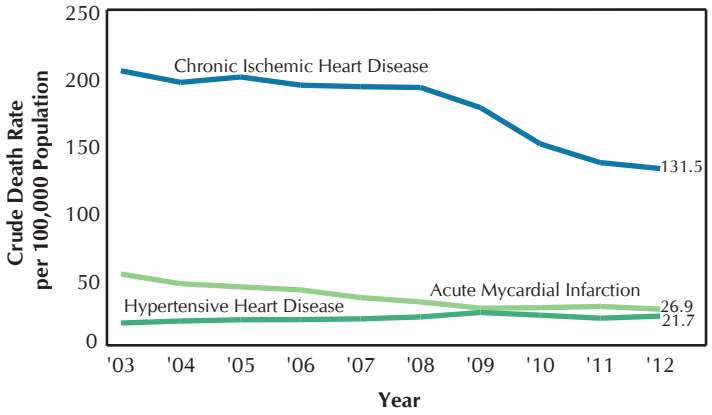
Table 5. Years of Potential Life Lost (YPLL) Before Age 75 by Sex and Selected Causes of Death, New York City, 2012

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	443,253	100.0	271,010	100.0	172,243	100.0
Malignant Neoplasms	111,078	25.1	54,663	20.2	56,415	32.8
Trachea, bronchus, and lung	20,034	4.5	11,430	4.2	8,604	5.0
Breast	12,149	2.7	22	0.0	12,127	7.0
Colon, rectum, and anus	10,508	2.4	5,787	2.1	4,721	2.7
Liver & intrahepatic bile ducts	7,383	1.7	5,556	2.1	1,827	1.1
Pancreas	6,719	1.5	3,673	1.4	3,046	1.8
Heart Disease	71,720	16.2	48,791	18.0	22,929	13.3
Use of or Poisoning by Psychoactive Substance	24,734	5.6	18,416	6.8	6,318	3.7
Accidents Except Poisoning by Psychoactive Substance	21,914	4.9	17,010	6.3	4,904	2.8
Motor vehicle	9,446	2.1	6,997	2.6	2,449	1.4
Assault (Homicide)	19,230	4.3	16,790	6.2	2,440	1.4
Intentional Self-harm (Suicide)	16,035	3.6	11,308	4.2	4,727	2.7
HIV Disease	14,028	3.2	8,916	3.3	5,112	3.0
Diabetes Mellitus	12,409	2.8	7,897	2.9	4,512	2.6
Cerebrovascular Diseases	9,435	2.1	5,539	2.0	3,896	2.3
Chronic Liver Disease and Cirrhosis	8,527	1.9	6,072	2.2	2,455	1.4
Chronic Lower Respiratory Diseases	8,359	1.9	4,533	1.7	3,826	2.2
Influenza and Pneumonia	7,895	1.8	4,635	1.7	3,260	1.9
Viral Hepatitis	5,658	1.3	3,913	1.4	1,745	1.0
Mental and Behavioral Disorders Due to Use of Alcohol	4,867	1.1	3,839	1.4	1,028	0.6
All Other Causes	107,364	24.2	58,688	21.7	48,676	28.3

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

HEART DISEASE

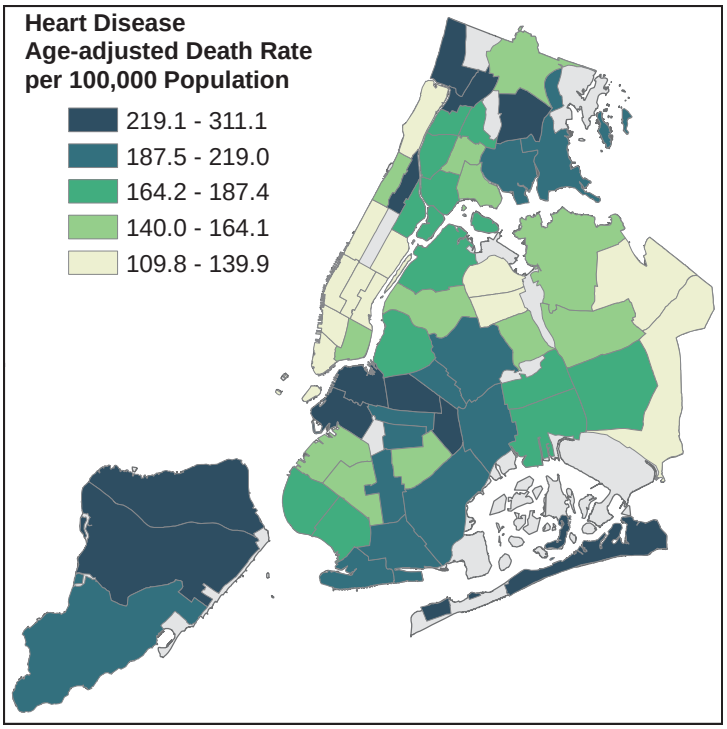
Figure 13. Crude Death Rates among Leading Causes of Heart Disease* Death, New York City, 2003–2012



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

- The crude rate of chronic ischemic heart disease death, the leading cause of heart disease deaths, decreased 35.4% since 2003. The steep decline from 190.5 deaths per 100,000 population in 2008 to 131.5 in 2012 is partly due to efforts to improve the accuracy of cause of death reporting.*
- Since 2003, acute myocardial infarction also decreased 49.1% to 26.9 deaths per 100,000 population, while hypertensive heart disease increased 31.5% to 21.7.

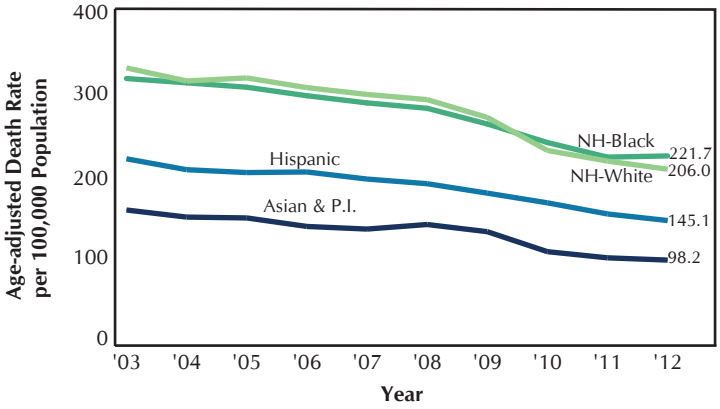
Figure 14. Age-adjusted Heart Disease Death Rates by Community District of Residence, New York City, 2012



- In 2012, New York City's age-adjusted heart disease death rates were lowest in Murray Hill at 109.8 deaths per 100,000 population, followed by Battery Park/Tribeca and Greenwich Village/Soho, both at 114.0, Bayside at 115.9, Elmhurst/Corona at 118.4, and Upper East Side at 122.7.
- Age-adjusted heart disease death rates were highest in the Rockaways at 311.1 deaths per 100,000 population, followed by Port Richmond at 271.6, Brownsville at 259.4, Bedford Stuyvesant at 250.6, and Fort Greene/Brooklyn Heights at 239.5.

HEART DISEASE

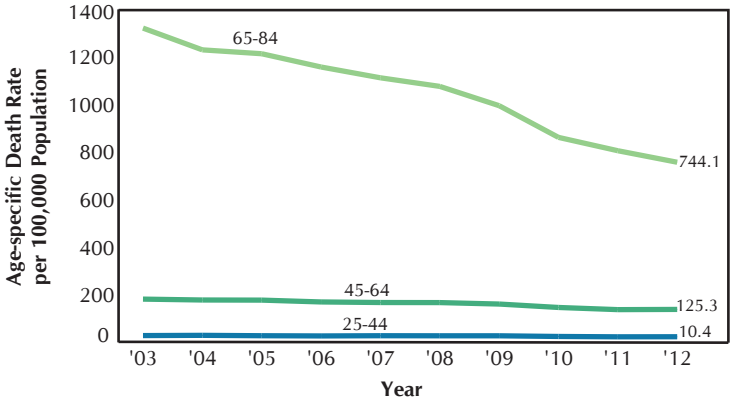
Figure 15. Age-adjusted Heart Disease* Death Rates by Racial/Ethnic Group, New York City, 2003–2012



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

- From 2003 to 2012, the age-adjusted death rate decreased 29.3% among non-Hispanic blacks, 36.8% among non-Hispanic whites, 33.5% among Hispanics, and 37.7% among Asians and Pacific Islanders.
- The recent steep declines since 2008 are partly due to efforts to improve the accuracy of cause of death reporting.*

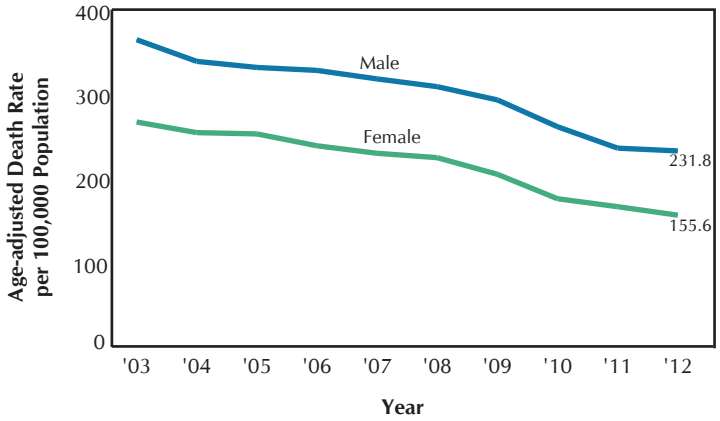
Figure 16. Age-specific Heart Disease* Death Rates by Selected Age Group, New York City, 2003–2012



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

- In 2012, age-adjusted heart disease death rates were 5.9 times higher among 65 to 84 year olds than among 45 to 64 year olds, and 71.5 times higher than among 25 to 44 year olds.
- Since 2003, heart disease death rates decreased most among 65 to 84 years olds (42.9%), followed by 25 to 44 year olds (32.0%), and 45 to 64 year olds (25.5%).
- The recent sharper decline since 2008 in all age groups is partly due to efforts to improve the accuracy of cause of death reporting.*

Figure 17. Age-adjusted Heart Disease* Death Rates by Sex, New York City, 2003–2012

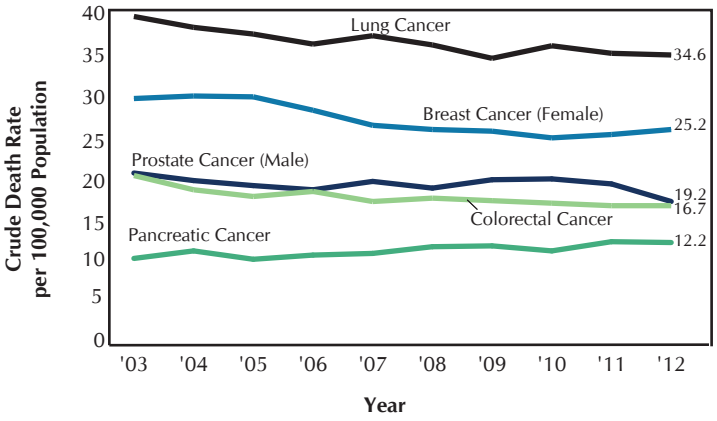


*2010 Summary of Vital Statistics: Mortality – Special Section: Cause of Death Quality Improvement Initiative for information on recent trends in cause of death reporting, particularly heart disease.

- In 2012, age-adjusted heart disease death rates were 1.5 times higher among males than females.
- Since 2003, heart disease death rates decreased 36.1% among males to 231.8 deaths per 100,000 population and 41.3% among females to 155.6 deaths per 100,000 population.
- The sharper decline since 2008 is partly due to efforts to improve the accuracy of cause of death reporting.*

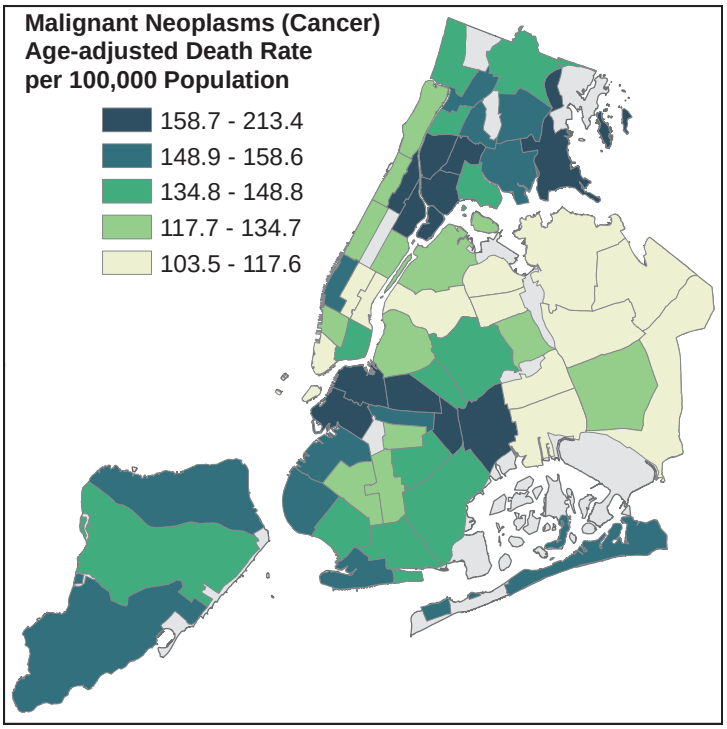
CANCER

Figure 18. Crude Death Rates for 5 Leading Causes of Cancer Death, New York City, 2003–2012



- The 2012 cancer mortality rate was 160.8 deaths per 100,000 population, a 5.9% decline since 2003 (Table 1, figure 6).
- Since 2003, rates of the four leading causes of cancer death decreased: lung cancer (includes trachea, bronchus, and/or lung) (11.7%), female breast cancer (12.6%), prostate cancer (16.6%), and colorectal cancer (17.8%).
- Pancreatic cancer, the fifth leading cause of cancer death increased 18.4% to 12.2 deaths per 100,000 population in 2012.

Figure 19. Age-adjusted Cancer Death Rates by Community District of Residence, New York City, 2012



- In 2012, New York City's age-adjusted cancer death rates were lowest in Queens Village at 103.5 deaths per 100,000 population, followed by Sunnyside/Woodside at 104.2, Midtown Business District at 106.8, Fresh Meadows/Briarwood at 107.7, and Howard Beach at 110.4.
- Age-adjusted cancer death rates were highest in Brownsville at 213.4 deaths per 100,000 population followed by Central Harlem at 194.9, Morrisania at 189.2, Bedford Stuyvesant at 178.1, and Throgs Neck at 174.1.

LUNG CANCER

- Age adjusted lung cancer (includes trachea, bronchus and/or lung) death rates are highest among non-Hispanic whites, followed by non-Hispanic blacks, Asians and Pacific Islanders and Hispanics.
- Since 2003, lung cancer rates have declined among all racial/ethnic groups: 16.1% among non-Hispanic whites, 11.6% among non-Hispanic blacks, 5.4% among Asians and Pacific Islanders, and 9.5% among Hispanics.

Figure 20. Age-adjusted Lung Cancer Death Rates by Racial/Ethnic Group, New York City, 2003–2012

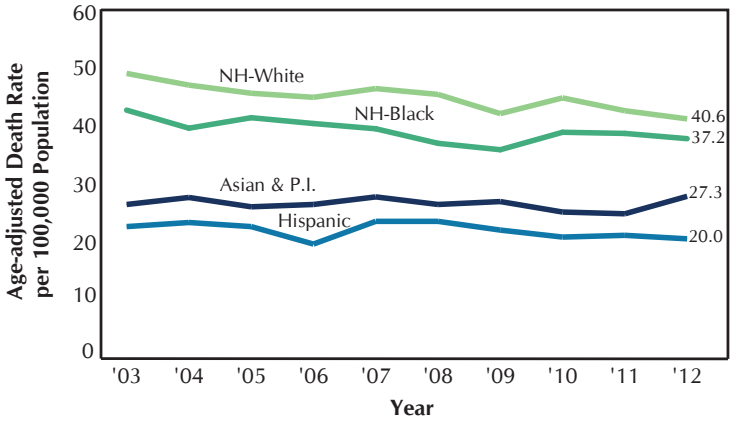
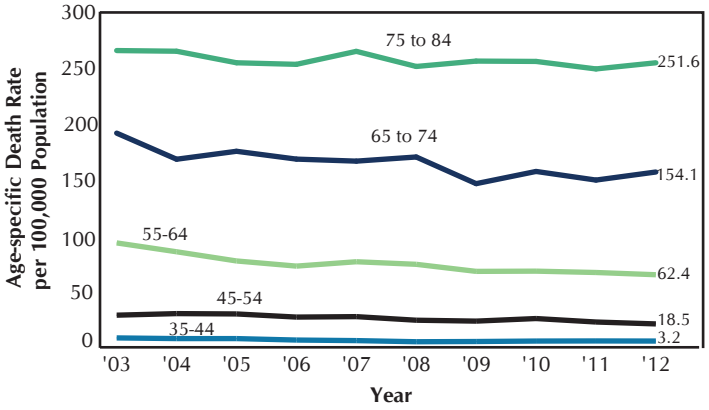


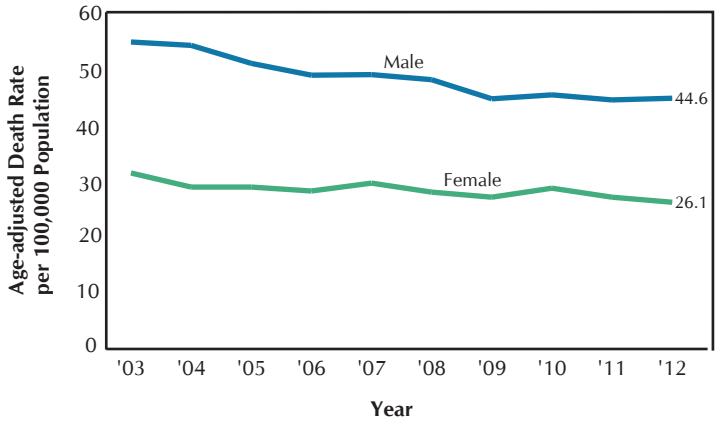
Figure 21. Age-specific Lung Cancer Death Rates by Selected Age Group, New York City, 2003–2012



- Age-specific lung cancer death rates increase by age from a low of 3.2 deaths per 100,000 population among 35 to 44 year olds to 251.6 deaths population among 75 to 84 year olds in 2012.
- From 2003 to 2012, age-specific lung cancer death rates decreased: 46.7% among 35 to 44 year olds, 29.7% among 45 to 54 year olds, 31.3% among 55 to 64 year olds, 18.4% among 65 to 74 year olds, and 4.2% among 75 to 84 year olds.

- The gender disparity in lung cancer death rates has remained relatively constant: the age-adjusted lung cancer death rate is 1.7 times higher among men than in women in 2012, as it was in 2003.
- Regardless, the lung cancer death rate has declined among men and women since 2003, 18.3% and 16.6% respectively.

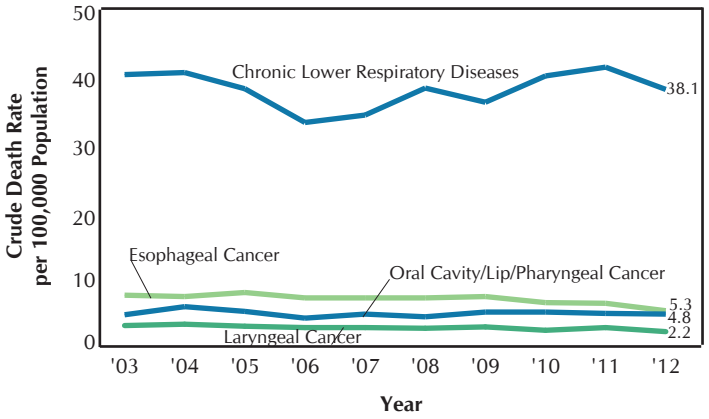
Figure 22. Age-adjusted Lung Cancer Death Rates by Sex, New York City, 2003–2012



SMOKING-RELATED MORTALITY

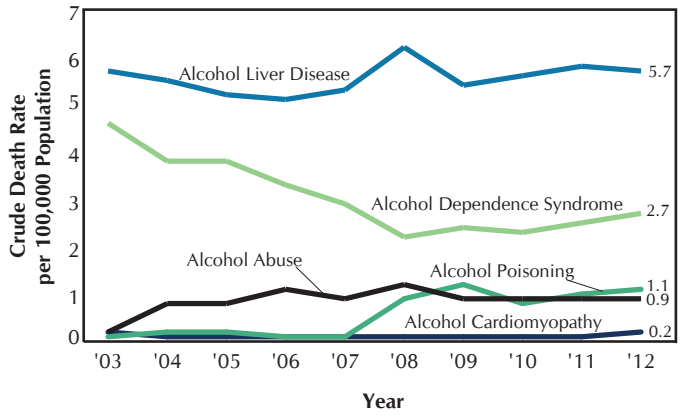
- Causes of death known to be highly attributable to smoking or tobacco use include the following cancers: lung (Figures. 18-22), esophageal, laryngeal, and cancers of the oral cavity, lip, and pharynx. Chronic respiratory diseases are also highly attributable to smoking. The causes displayed do not include all deaths related to smoking or tobacco use. In particular, smoking is known to be a major risk factor for cardiovascular disease.
- Since 2003, chronic lower respiratory disease death rates fluctuated, down an overall 5.5%. Esophageal and laryngeal cancer rates decreased 30.3% and 29.0% respectively, while oral cavity, lip, and pharyngeal cancer rates increased 2.1%.

Figure 23. Crude Death Rates for Selected Smoking-related Causes of Death (Age ≥ 35 Years), New York City, 2003–2012



ALCOHOL-RELATED MORTALITY

Figure 24. Crude Death Rates for Selected Alcohol-related Causes* of Death (Age > 20 Years), New York City, 2003–2012

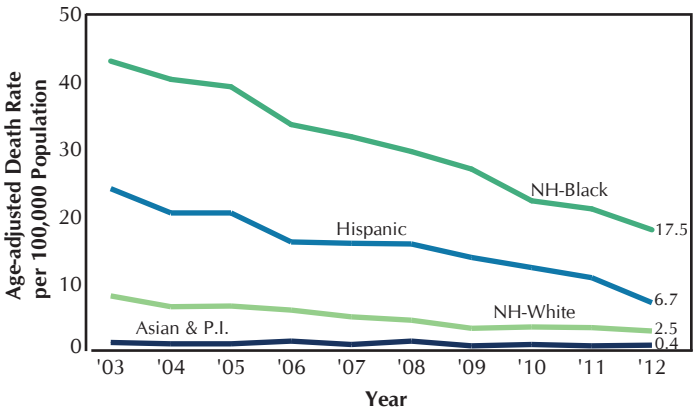


*Technical Notes: Deaths, Alcohol Related Deaths.

- Due to increasing awareness of binge drinking-related deaths, the World Health Organization's Mortality Reference Group revised and implemented new International Classification of Disease codes in 2008*. The increase in deaths coded as alcohol poisoning and alcohol liver disease deaths from 2007 to 2008 and corresponding decrease in alcohol dependence syndrome result from this change. Similar trend changes are seen in nationwide data.
- From 2003 to 2012, alcohol liver disease remained relatively stable, at or near 5.7 deaths per 100,000 population. Alcohol dependence syndrome decreased 41.3%, from 4.6 to 2.7 deaths per 100,000 population, in part, due to coding changes*; alcohol cardiomyopathy remained stable hovering at or near 0.2 death per 100,000 population, and alcohol abuse has remained stable since 2004, hovering near one death per 100,000 population.

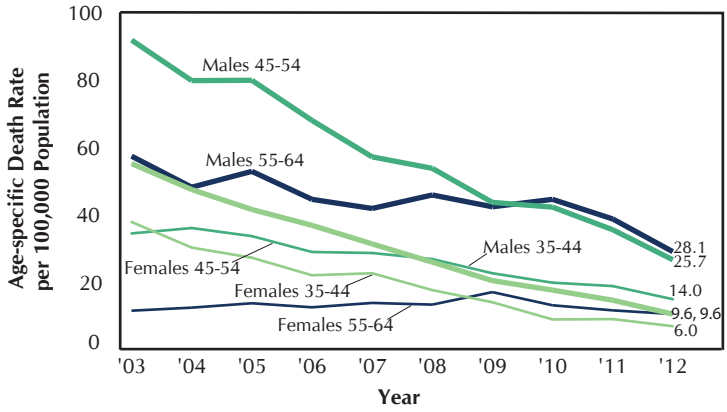
HIV MORTALITY

Figure 25. Age-adjusted HIV Death Rates by Racial/Ethnic Group, New York City, 2003–2012



- At a crude rate of 7.3 deaths per 100,000 population in 2012, HIV is no longer among the 10 leading causes of death in New York City. This reflects a 64.4% decline since 2003 and a 21.5% decline since 2011 (data not shown).
- From 2003 to 2012, age-adjusted HIV death rates declined 58.8% among non-Hispanic blacks, 71.6% among Hispanics, 67.5% among non-Hispanic whites, and 50.0% among Asians and Pacific Islanders.

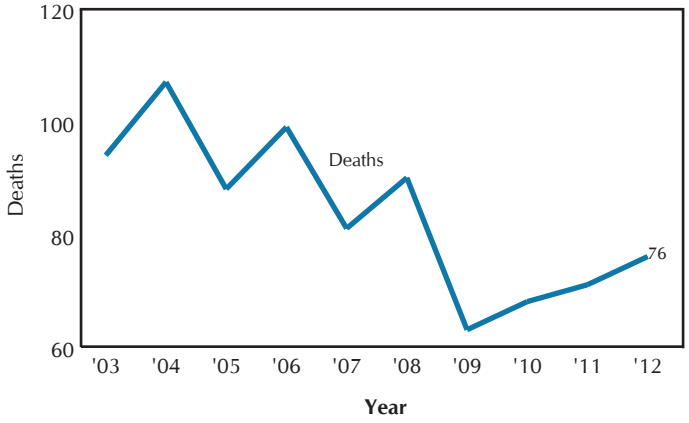
Figure 26. Age-specific HIV Death Rates by Sex, New York City, 2003–2012



- In 2012, HIV age specific death rates continued to be higher among males than females and declined more rapidly in younger age groups than older.
- From 2003 to 2012, the HIV male death rate declined 83.4% among those age 35 to 44, 71.7% among those age 45 to 54 and 50.2% among those age 55 to 64. Among females, the HIV death rate declined 83.7% among those age 35 to 44, 58.2% among those age 45 to 54, and 9.0% among those age 55 to 64.
- The continuing decline in HIV-related mortality is attributed to HIV prevention efforts and the increased use and effectiveness of antiretroviral drugs.

OCCUPATIONAL INJURIES

Figure 27. Fatal Occupational Injuries, New York City, 2003–2012



- Fatal occupational injuries have decreased 19.1% since 2003, with 76 deaths in 2012. This includes a 7.0% increase since 2011.

Table 6. Characteristics of Deaths Due to Fatal Occupational Injuries, New York City, 2012

Characteristics	All Deaths	Selected Event or exposure†‡				
		Contact with objects and equipment	Exposure to harmful substances or environments	Falls, slips or trips	Transportation incident	Violence and other injuries by persons or animals
Total	76	7	7	21	13	26
Selected Industries						
Government§ (Federal, State, Local)	7					4
Private industries§	69	6	6	20	13	22
Goods producing (construction only)	20	4	3	11		
Service providing	49		3	9	11	22
Education and health services (health care and social assistance)	4					
Financial activities	3					
Information	4					
Leisure and hospitality (Accommodation and food services)	3					
Professional and business services	4			3		
Trade, transportation, and utilities (Retail trade, wholesale trade, transportation and warehouse)	26				8	14
Other services	4					
Race or ethnic origin‖						
Non-Hispanic White	28		5	6	5	11
Non-Hispanic Black	14					9
Hispanic	23	4		9	3	4
Asian	11			5	3	
Age						
< 25 years	5					
25-34 years	17					9
35-44 years	13			6		
45-54 years	13			3	4	4
55 - 64 years	15			4	5	4
> 65 years	13			5		5

*Source Bureau of Labor Statistics: Fatal Occupational Injuries in New York City http://www.bls.gov/iif/oshwc/cfoi/tgs/2012/iiffw68.htm

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

‡Empty cells are either zero or censored fatalities; rows or columns may not sum to totals.

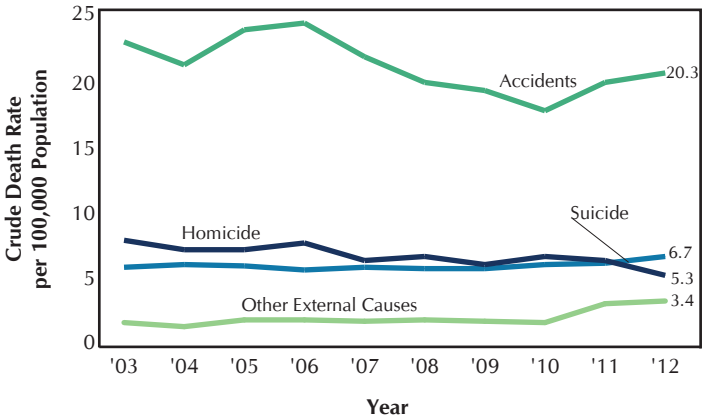
§Includes all fatal occupational injuries meeting this ownership criterion across all specific years, regardless on industry classification system.

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

- Approximately 34% of fatal occupational events were classified as violent or other injuries, followed by fall, slips or trips (27.6%), transportation incidents (17.1%), and exposure to harmful substances or environments and contact with objects and equipment, (9.2% each).
- Industries in which these deaths most frequently occurred were trade, transportation, and warehouse (34.2%), followed by construction (26.3%).
- Most occurred among non-Hispanic whites (36.8%), followed by Hispanics (30.3%), non-Hispanic blacks (18.4%), and Asian and Pacific Islanders (14.5%).

EXTERNAL CAUSES OF DEATH

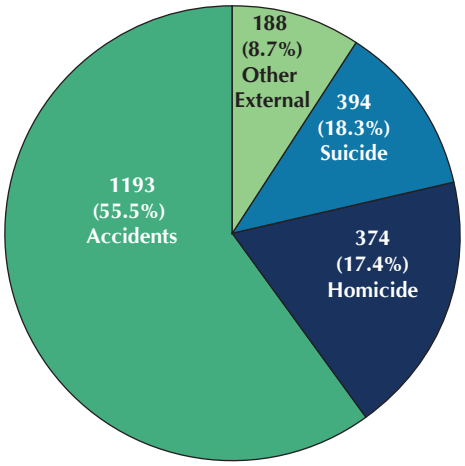
Figure 28. Crude Death Rates for External Causes of Death*, New York City, 2003–2012



*Data source: National Center for Health Statistics automated cause of death codes are used for 2003-2010 external data presented in Figure 28. See Historical Technical notes: Deaths, Drug-related Deaths: ICD Coding.
†Other external causes include medical and/or surgical care complications and deaths due to undetermined intent.

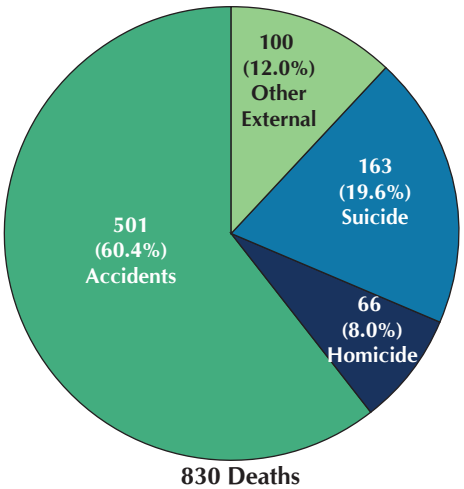
- Among external causes of death, the accidental death rate is consistently higher than homicide, suicide or other external causes†.
- Accidental death rates fluctuate, hovering near 20 deaths per 100,000 population since 2003, at 20.3 in 2012; homicide rates declined 32.9% to 5.3, and suicides rates increased to 6.7, now higher than the homicide rate. Death rates from other external causes increased since 2010, to 3.4 in 2012.

Figure 29. Distribution of External Causes of Death among Males, New York City, 2012



- In 2012, 2,149 men died from external causes in New York City.
- The most frequent category of external cause of death among males was accident (55.5%) followed by suicide (18.3%), homicide (17.4%) and then other external causes (8.7%).

Figure 30. Distribution of External Causes of Death among Females, New York City, 2012

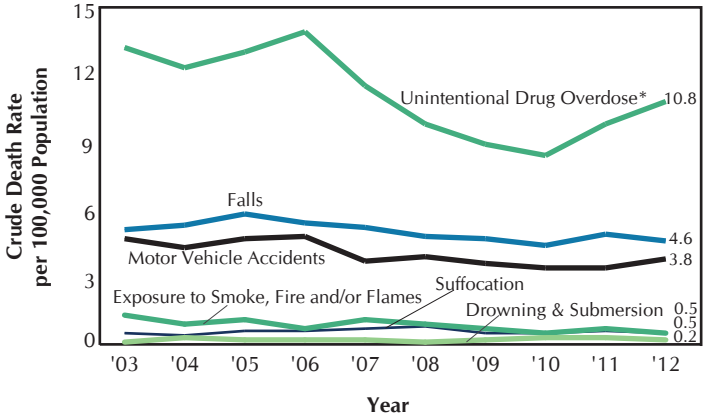


- In 2012, 830 females died from external causes in New York City.
- Accident was the most frequent (60.4%) category of external death among females, followed by suicide (19.6%), other external causes (12.0%) and homicide (8.0%).

EXTERNAL CAUSES OF DEATH

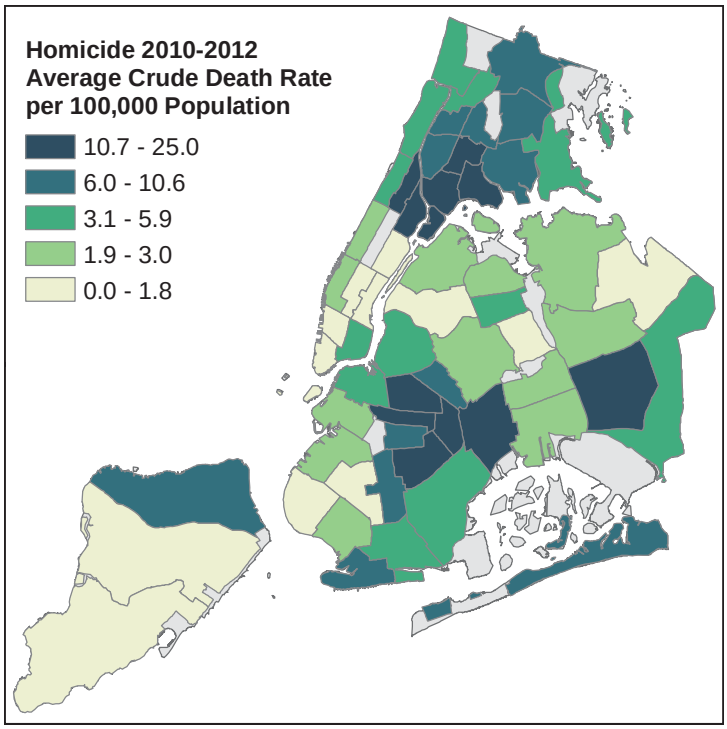
- In 2012, the three leading causes of accidental deaths were unintentional drug overdose*, followed by falls, and motor vehicle accidents.
- Since 2003, crude death rates for all three have decreased: unintentional drug overdose by 18.2%, falls by 9.8%, and motor vehicle accidents by 19.1%.
- Rates of accidental death due to smoke, fire and/or flame exposure, suffocation, and drowning and submersion were all less than one death per 100,000 population in 2012.

Figure 31. Crude Death Rates for Selected Accidental Causes of Death, New York City, 2003–2012



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

Figure 32. Crude Homicide Death Rates (Three-year averages) by Community District of Residence, New York City, 2010–2012



- Three-year-average crude homicide rates were highest in Brownsville at 25.0 deaths per 100,000 population, followed by Mott Haven and Bedford Stuyvesant at 17.6, Morrisania at 16.6, East New York at 14.2, and Jamaica/St. Albans at 12.8.
- Due to the small number of homicides in numerous community districts, the three-year-average crude death rates are unreliable. Regardless, the numbers indicate very low rates. Community districts with fewer than 1 death per 100,000 population over the three years include Bayside, Rego Park/Forest Hills, Midtown Business District, Murray Hill, Bay Ridge, and Upper East Side. Battery Park/Tribeca had no homicides over the three year period.

NEIGHBORHOOD POVERTY

Table 7. Age-adjusted Death Rates by Neighborhood Poverty, New York City, 2003, 2012

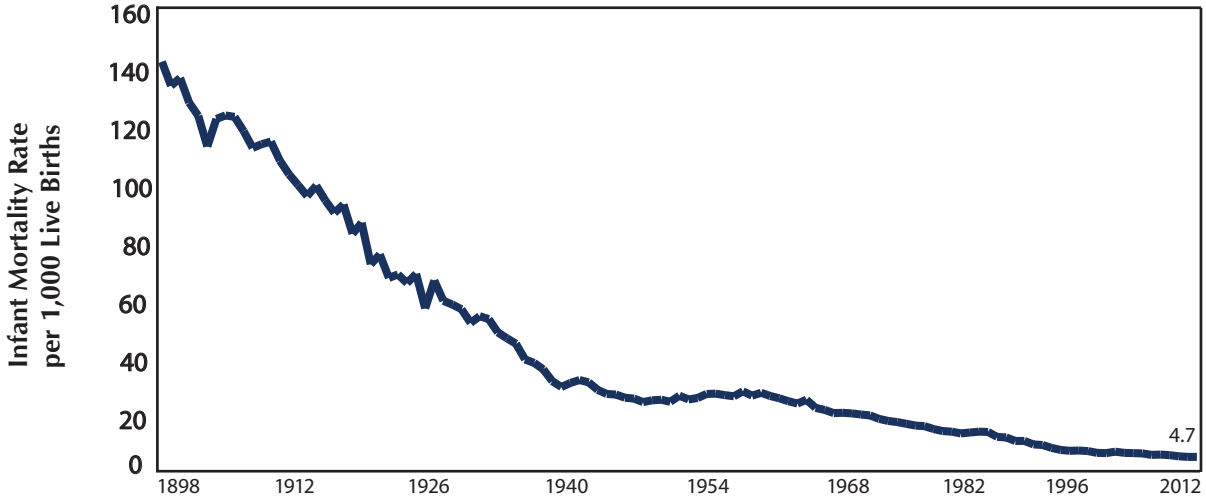
Age-adjusted Death Rates	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)
All Causes	476.0	604.2	-21.2%	520.8	643.9	-19.1%	582.3	718.0	-18.9%	701.7	880.4	-20.3%
Premature Deaths	125.9	157.2	-19.9%	156.9	182.8	-14.2%	186.5	236.1	-21.0%	254.3	353.0	-28.0%
10 Leading Causes												
Diseases of Heart	157.6	263.6	-40.2%	173.0	288.8	-40.1%	191.5	303.6	-36.9%	206.8	317.1	-34.8%
Malignant Neoplasms	129.1	152.4	-15.3%	131.0	148.0	-11.5%	137.9	151.5	-9.0%	163.4	173.6	-5.9%
Influenza and Pneumonia	19.6	29.0	-32.4%	21.9	29.3	-25.3%	27.8	33.6	-17.3%	33.3	43.3	-23.1%
Diabetes Mellitus	12.4	14.9	-16.8%	17.5	18.2	-3.8%	23.5	25.6	-8.2%	33.9	41.8	-18.9%
Chronic Lower Respiratory Diseases	15.7	18.4	-14.7%	17.1	17.2	-0.6%	18.6	21.0	-11.4%	24.0	27.2	-11.8%
Cerebrovascular Diseases	13.8	17.9	-22.9%	17.8	20.9	-14.8%	19.5	23.2	-15.9%	21.0	29.4	-28.6%
Accidents Except Poisoning by Psychoactive Substances	10.1	10.8	-6.5%	10.4	12.1	-14.0%	11.4	13.0	-12.3%	10.5	14.1	-25.5%
Essential Hypertension and Hypertensive Renal Diseases	8.2	6.0	36.7%	9.4	7.3	28.8%	11.8	9.7	21.6%	14.9	14.4	3.5%
Use of or Poisoning by Psychoactive Substance	6.7	5.6	19.6%	6.4	6.8	-5.9%	8.1	8.9	-9.0%	14.2	21.5	-34.0%
Alzheimers	6.3	3.5	80.0%	6.0	2.6	130.8%	7.1	2.4	195.8%	12.3	3.8	223.7%

Note: The 2003 poverty level is based on 2000 Census and the 2012 poverty level is based on 2007-2011 US Census Bureau American Community Survey.

- Neighborhood poverty disparities are presented in the 2012 Summary of Vital Statistics for the first time. The neighborhood poverty indicator is the agency-recommended indicator for monitoring socioeconomic health disparities. Each census tract is assigned to one of four neighborhood poverty categories based on the percent of the census tract population living below the federal poverty level: ≥30% below poverty, 20-29% below poverty, 10-19% below poverty, or <10% below poverty. The denominator of any rate by neighborhood poverty category contains population within each combination 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.
- In New York City, neighborhoods with higher percentage of population living below the federal poverty level have higher death rates. Death rates for all cause, premature and the 10 leading causes are positively correlated with the percent of population living below the federal poverty level.
- In 2012, all cause and premature mortality rates among the 10 leading causes of premature death were 1.3 to 2.0 times higher in the very high poverty neighborhoods than in the low poverty neighborhoods. The Diabetes Mellitus mortality rate disparity is greatest, at 2.7 times higher in the very high poverty neighborhood vs. in the low poverty neighborhood.

SUMMARY OF VITAL STATISTICS
2012
THE CITY OF NEW YORK

INFANT MORTALITY



NYC Health

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

Michael R. Bloomberg, Mayor Thomas Farley, MD, MPH, Commissioner

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK
INFANT MORTALITY

New York City Department of Health and Mental Hygiene

Division of Epidemiology
Carolyn Greene, MD, Deputy Commissioner

Bureau of Vital Statistics
Ram Koppaka, MD, PhD, Acting Assistant Commissioner
Flor Betancourt, MA, Director, Birth and Death Registration Unit
Tara Das, PhD, MPH, Director, Office of the Registrar
Melissa Gambatese, MPH, Director, Quality Improvement Unit
Kevin Koshar, MPP, Director, Office of Vital Records
Wenhui Li, PhD, Director, Statistical Analysis and Reporting Unit
Ann Madsen, PhD, MPH, Director, Office of Vital Statistics
Steven Schwartz, PhD, Registrar
Regina Zimmerman, PhD, MPH, Director, Data Use and Disclosure Unit

November 2013

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

Suggested citation: Zimmerman R, Li W, Gambatese M, Madsen A, Lasner-Frater L, Kelley D, Kennedy J, Maduro G, Sun Y. *Summary of Vital Statistics, 2012: Infant Mortality*. New York, NY: New York City Department of Health and Mental Hygiene, Office of Vital Statistics, 2013.

2012 Infant Mortality, Mortality, Pregnancy Outcomes and Executive Summary Reports are available online at http://www.nyc.gov/vitalstats.

INFANT MORTALITY CONTENTS

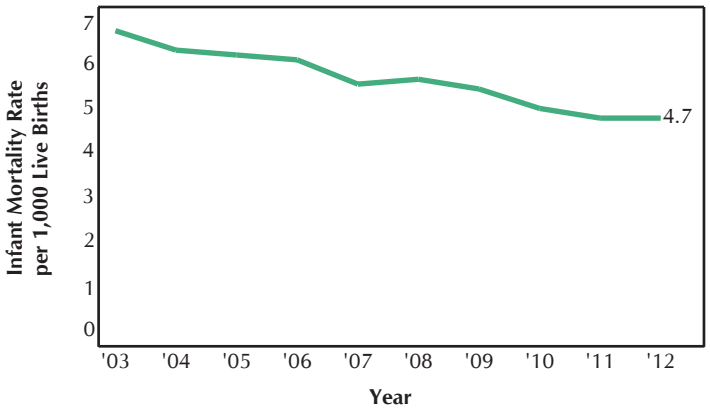
INFANT MORTALITY OVERVIEW

Infant mortality is a key indicator of a population's overall health and is defined as the number of infant deaths occurring within the first year of life per 1,000 live births. To characterize infant mortality in New York City, the Bureau of Vital Statistics links the mother's demographic data from the child's birth certificate to data from the death certificate and confidential medical report of death. Rates are displayed as three-year rolling averages or as single year depending on the stability of the measure. For technical notes, sample certificates, and additional data tables, please see the Bureau of Vital Statistics website at www.nyc.gov/vitalstats.

Select Key Findings:

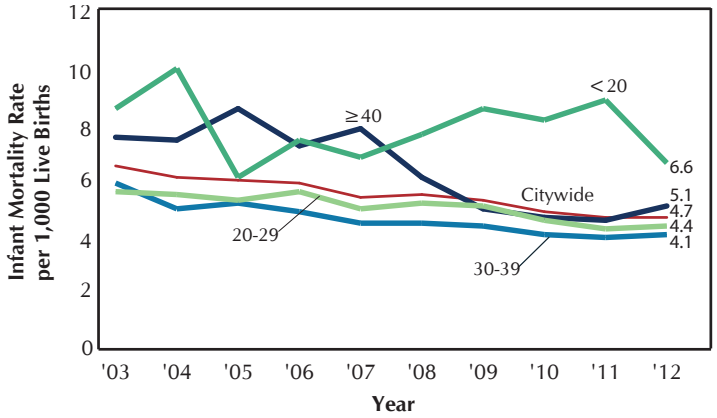
- New York City's 2012 infant mortality rate remained unchanged from 2011, at 4.7 infant deaths per 1,000 live births. Since 2003, it declined 27.7% from 6.5. The Take Care New York goal of a citywide infant mortality rate of 5.0 by 2012 was met in 2010 and the Healthy People 2020 goal of 6.0 was met in 2005.
- The 3 leading causes of infant death in 2012 were birth defects (congenital malformations/deformations) (21.4%), followed by prematurity (short gestation and low birth weight) (20.4%) and cardiovascular disease deaths originating in the perinatal period (12.9%). External causes, which include injuries, homicides and deaths of undetermined intent also accounted for a substantial number of these deaths. (9.4%).
- Infant mortality rates were highest in the city's poorest neighborhoods; while there were 3.0 infant deaths per 1,000 live births in areas with <10% poverty, there were 5.7 infant deaths in areas with >30% poverty.
- Although infant mortality rates have declined among all racial/ethnic groups since 2003, disparities persist. In 2012, the infant mortality rate was highest among non-Hispanic blacks, at 8.5 infant deaths per 1,000 live births, followed by Puerto Ricans, at 6.6, other Hispanics, at 4.8, Asian & Pacific Islanders, at 3.3 and non-Hispanic whites, at 2.7.
- Since 2003, infant mortality decreased 41.7% in Manhattan to 2.8 infant deaths per 1,000 live births, 32.6% in the Bronx to 5.8, 31.7% in Brooklyn to 4.3, 15.4% in Staten Island to 4.4 and 7.3% in Queens to 5.1.

Figure 1. Infant Mortality Rate, New York City, 2003–2012



DEMOGRAPHIC INDICATORS

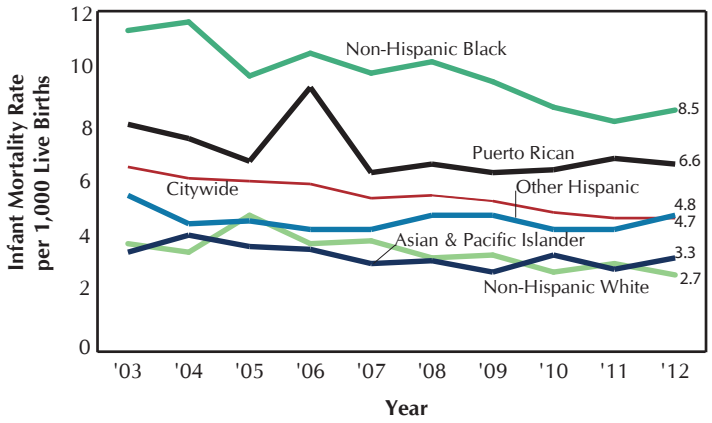
Figure 2. Infant Mortality Rate by Mother's Age*, New York City, 2003–2012



*The fluctuation in the infant mortality rate among infants born to mothers <20 and ≥40 is likely due to small numbers.

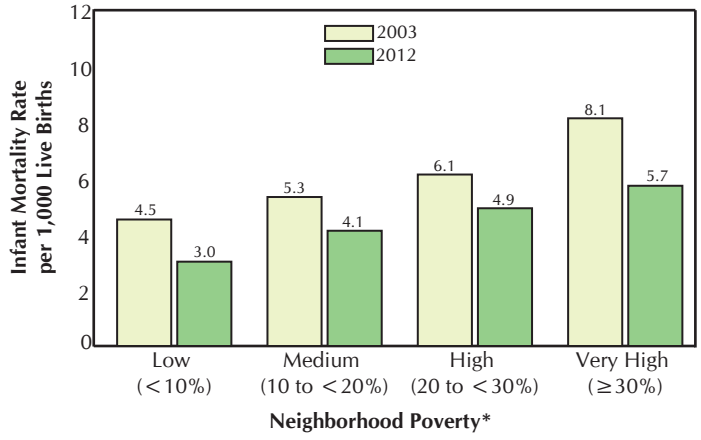
- In 2012, the infant mortality rate was highest among infants born to the youngest mothers (<20 years of age), at 6.6 infant deaths per 1,000 live births, followed by infants born to the oldest mothers (≥40 years of age), at 5.1; infants born to mothers 20 to 29 years of age, and to mothers 30 to 39 years of age had the lowest infant mortality rates at 4.4 and 4.1 infants deaths per 1,000 live births, respectively.
- Since 2003, infant mortality rates decreased in all age groups: 32% among infants born to mothers aged 40 and older, 30.5% among those to mothers aged 30 to 39, 22.4% among those to mothers aged <20, and 21.4% among those to mothers aged 20 to 29.

Figure 3. Infant Mortality Rate by Mother's Racial/ Ethnic Group, New York City, 2003–2012



- Although infant mortality rates have declined among all racial/ethnic groups since 2003, disparities persist. In 2012, the infant mortality rate was highest among infants born to non-Hispanic blacks, at 8.5 infant deaths per 1,000 live births, followed by Puerto Ricans, at 6.6, other Hispanics, at 4.8, Asian & Pacific Islanders, at 3.3, and non-Hispanic whites, at 2.7.
- From 2003 to 2012, infant mortality rates declined 28.9% among non-Hispanic whites, 24.8% among non-Hispanic blacks, 17.5% among Puerto Ricans, 12.7% among other Hispanics and 5.7% among Asian and Pacific Islanders.

Figure 4. Infant Mortality Rate by Neighborhood Poverty*, New York City, 2003, 2012



*Neighborhood poverty (based on mother's census tract) defined as percent of residents with incomes below 100% of the Federal Poverty Level, per Census 2010.

- Infant mortality rates were highest in the city's poorest neighborhoods; while there were 3.0 infant deaths per 1,000 live births in areas with <10% poverty, there were 5.7 infant deaths in areas with ≥30% poverty.
- Since 2003, infant mortality rates decreased most in census tracts with low poverty (32.1%), followed by census tracts with very high poverty (29.4%); infant mortality rates in areas of medium poverty and high poverty declined 21.5% and 19.5% respectively.

DEMOGRAPHIC INDICATORS

- In 2012, the infant mortality rate was highest in the Bronx at 5.8 deaths per 1,000 live births, followed by Queens (5.1), Staten Island (4.4), Brooklyn (4.3), and Manhattan (2.8).
- Since 2003, infant mortality decreased 41.7% in Manhattan to 2.8 deaths per 1,000 live births, 32.6% in the Bronx, 31.7% in Brooklyn, 15.4% in Staten Island and 7.3% in Queens.

Figure 5. Infant Mortality Rate by Borough of Residence, New York City, 2003–2012

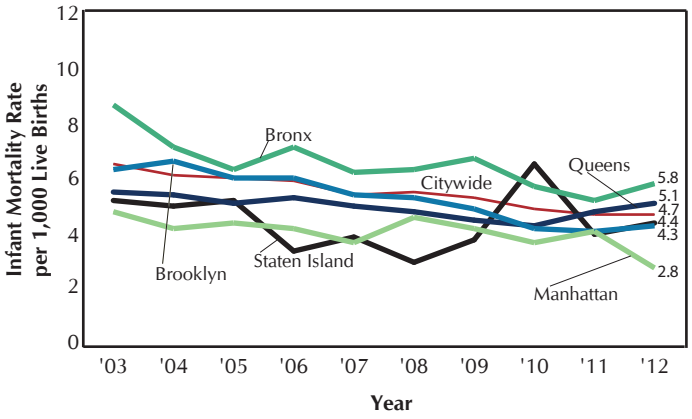
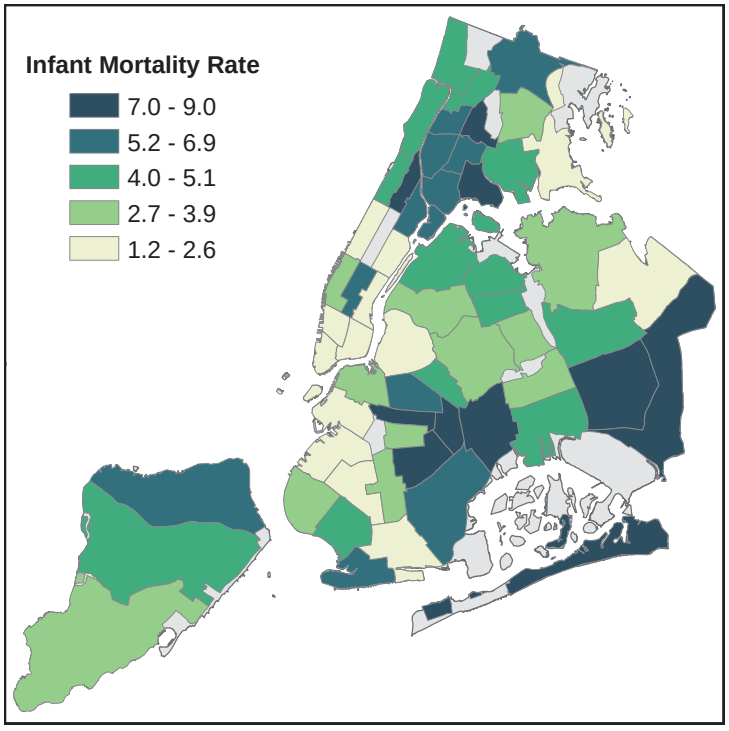


Figure 6. Average* Infant Mortality Rate by Community District of Residence, New York City, 2010–2012



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

- The community districts with the highest average infant mortality rate (2010–2012) were East Tremont at 9.0 infant deaths per 1,000 live births, followed by Hunts Point and Jamaica/St. Albans, both at 8.7, Central Harlem at 8.4, East New York at 7.7 and the Rockaways at 7.5.
- The community districts with the lowest average infant mortality rates were Battery Park/Tribeca at 1.2 infant deaths per 1,000 live births followed by Upper East Side at 1.5, Borough Park at 2.0, Sunset Park and Upper West Side both at 2.2 and Murray Hill at 2.3.

DEMOGRAPHIC INDICATORS

Table 1. Average* Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2008–2012

Community District		2008–2010*		2009–2011*		2010–2012*	
		Infant Mortality Rate	Neonatal Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate
	NEW YORK CITY	**5.2**	**3.5**	**4.9**	**3.3**	**4.8**	**3.1**
	MANHATTAN	**4.1**	**2.8**	**3.9**	**2.6**	**3.5**	**2.2**
101	Battery Park, Tribeca	1.4	1.0	1.6	1.3	1.2	1.2
102	Greenwich Village, SOHO	3.1	2.7	2.4	2.4	2.4	2.4
103	Lower East Side	4.4	2.3	3.4	1.1	2.6	1.3
104	Chelsea, Clinton	3.2	2.5	3.3	2.5	2.9	1.4
105	Midtown Business District	5.3	3.6	4.0	2.3	5.7	3.4
106	Murray Hill	3.1	3.1	3.9	3.1	2.3	1.5
107	Upper West Side	2.0	1.3	1.3	0.7	2.2	1.3
108	Upper East Side	2.7	1.9	2.5	1.9	1.5	1.1
109	Manhattanville	5.7	4.3	4.7	3.2	4.9	3.6
110	Central Harlem	7.5	4.6	8.5	6.2	8.4	5.7
111	East Harlem	6.6	4.1	6.9	4.5	5.3	3.9
112	Washington Heights	4.7	3.1	4.9	2.6	4.2	1.8
	BRONX	**6.3**	**4.3**	**5.9**	**3.9**	**5.6**	**3.7**
201	Mott Haven	7.1	4.6	6.3	4.1	6.6	4.2
202	Hunts Point	6.4	4.1	7.6	4.5	8.7	5.5
203	Morrisania	7.8	5.0	7.7	4.8	6.9	3.9
204	Concourse, Highbridge	5.7	3.7	4.8	3.3	5.5	3.4
205	University/Morris Heights	7.5	5.1	7.3	4.9	6.1	4.4
206	East Tremont	7.4	5.2	6.6	3.6	9.0	6.0
207	Fordham	5.5	4.4	4.6	3.6	4.3	3.3
208	Riverdale	5.2	4.3	5.3	4.5	4.0	2.8
209	Unionport, Soundview	4.9	3.2	5.4	3.3	4.2	2.4
210	Throgs Neck	4.9	3.6	4.6	3.0	2.4	1.4
211	Pelham Parkway	6.3	5.4	6.3	5.1	3.8	3.0
212	Williamsbridge	7.0	3.9	6.0	3.4	6.6	4.3
	BROOKLYN	**4.8**	**3.1**	**4.4**	**2.8**	**4.2**	**2.6**
301	Williamsburg, Greenpoint	2.5	1.8	2.4	1.5	2.4	1.6
302	Fort Greene, Brooklyn Heights	4.8	2.7	3.5	2.6	3.4	2.5
303	Bedford Stuyvesant	8.5	5.3	7.0	4.0	6.0	3.5
304	Bushwick	5.0	3.8	4.4	3.2	4.5	2.7
305	East New York	8.7	4.6	8.4	4.5	7.7	4.5
306	Park Slope	3.3	1.9	1.9	0.9	2.6	1.3
307	Sunset Park	3.1	2.0	2.9	2.0	2.2	1.7
308	Crown Heights North	5.8	4.2	4.2	3.1	7.2	3.8
309	Crown Heights South	5.1	3.2	4.4	2.6	3.1	1.4
310	Bay Ridge	4.0	2.7	4.0	2.5	3.5	2.2
311	Bensonhurst	3.7	2.9	4.2	3.1	4.4	2.6
312	Borough Park	2.7	1.7	2.8	2.0	2.0	1.4
313	Coney Island	4.9	3.0	5.6	3.6	6.3	4.1
314	Flatbush, Midwood	4.3	2.2	3.8	2.3	3.9	2.8
315	Sheepshead Bay	3.1	2.0	2.1	1.3	2.6	1.1
316	Brownsville	9.9	6.5	9.2	5.6	7.4	5.1
317	East Flatbush	6.4	4.4	6.8	4.6	7.2	5.1
318	Canarsie	5.3	3.2	4.8	3.2	5.2	3.0
	QUEENS	**4.5**	**2.9**	**4.5**	**2.9**	**4.8**	**3.2**
401	Astoria, Long Island City	5.3	3.8	4.3	2.5	4.7	3.2
402	Sunnyside, Woodside	2.8	2.2	2.4	1.9	2.9	2.5
403	Jackson Heights	3.6	2.2	3.2	1.7	4.1	2.2
404	Elmhurst, Corona	3.7	2.4	4.1	2.9	5.1	3.5
405	Ridgewood, Glendale	3.0	2.0	3.7	2.4	3.4	2.4
406	Rego Park, Forest Hills	2.1	1.3	2.3	2.1	2.8	2.3
407	Flushing	2.8	1.9	2.7	1.5	3.3	2.3
408	Fresh Meadows, Briarwood	6.1	3.8	5.1	3.0	4.3	2.7
409	Woodhaven	4.1	1.7	3.5	1.2	2.8	1.4
410	Howard Beach	4.8	2.8	4.9	2.7	4.6	2.8
411	Bayside	2.5	2.0	3.0	3.0	2.4	2.4
412	Jamaica, St. Albans	7.3	4.3	8.4	5.2	8.7	5.6
413	Queens Village	5.9	4.0	6.4	4.9	7.2	5.6
414	The Rockaways	7.5	4.9	7.2	4.8	7.5	5.0
	STATEN ISLAND	**4.4**	**3.5**	**4.8**	**3.6**	**5.0**	**3.9**
501	Port Richmond	5.9	4.5	5.5	3.9	6.0	4.2
502	Willowbrook, South Beach	3.0	2.5	4.5	3.8	5.1	4.6
503	Tottenville	3.1	2.5	3.6	2.7	3.3	2.6

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

Figure 5 provides single-year infant mortality rate by borough.

DEMOGRAPHIC INDICATORS

Table 2. Average Infant Mortality Rate by Mother's Birthplace, New York City, 2006–2012

Birthplace	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
Total, New York City	**5.6**	**5.4**	**5.2**	**4.9**	**4.8**
Yemen Arab Republic	5.0	3.4	3.7	6.3	8.5
Puerto Rico ‡	8.6	7.0	7.9	8.5	8.4
Honduras	3.1	4.2	6.8	7.4	8.3
Nigeria	5.6	6.9	7.2	8.1	7.1
Jamaica	7.2	5.8	6.2	5.6	7.0
Guyana	8.8	7.6	7.8	6.6	6.7
Guatemala	4.1	4.5	6.0	6.4	6.4
Pakistan	7.5	6.2	5.4	5.6	6.1
Trinidad and Tobago	7.3	4.7	5.1	3.4	6.1
Haiti	7.4	5.7	6.1	4.9	5.4
India	3.3	2.5	2.3	2.4	5.2
United States ‡	6.2	6.3	6.0	5.7	5.2
Bangladesh	2.8	3.9	3.9	4.6	4.1
Ghana	6.8	6.2	4.8	4.3	4.0
Mexico	4.1	3.8	3.8	3.4	4.0
Philippines	2.5	1.6	3.0	3.4	3.9
Dominican Republic	3.8	4.2	4.2	4.0	3.8
Ecuador	3.9	3.3	3.0	3.2	3.7
El Salvador	4.9	2.9	2.9	3.4	3.0
Colombia	1.6	1.4	1.5	2.8	2.9
Peru	5.0	3.8	2.0	2.1	2.3
Russia	1.8	1.8	2.8	2.8	2.0
Canada	2.2	2.2	2.2	2.1	2.0
United Kingdom	3.8	1.7	2.3	1.2	1.8
China	2.0	2.0	2.3	2.1	1.7
Egypt	3.3	3.1	2.9	1.3	1.7
Poland	2.1	2.4	1.8	0.7	1.6
Uzbekistan	0.7	0.6	0.6	1.5	1.4
Japan	3.6	2.8	1.4	1.3	1.3
Korea	1.9	1.3	0.7	0.7	1.1
Ukraine	2.5	2.9	2.1	1.2	0.8
Israel	1.7	1.4	0.6	0.6	0.3

Note: Foreign countries are listed according to the descending order of infant mortality rates in the most current period.

† The infant mortality rate is listed for only countries with 500 or more live births in any year of 2006-2012.

‡ As of 2006, US Virgin Islands and Guam are included in the United States. Puerto Rico is a US territory, but is not included as a birthplace in the United States due to the large number of births to Puerto Rican-born women.

- The most recent average infant mortality rates (2010-2012) were highest among mothers from Yemen Arab Republic, at 8.5 deaths per 1,000 live births, followed by mothers from Puerto Rico at 8.4, Honduras at 8.3, Nigeria 7.1 and Jamaica at 7.0.

NEONATAL AND POSTNEONATAL MORTALITY

- In 2012, infant mortality rates by age of infant remained the same as in 2011. The highest rates occurred during the early neonatal period (age less than 7 days) at 2.4 deaths per 1,000 live births, followed by the postneonatal period (age 28 days to 1 year) at 1.6. The late neonatal mortality rate (age 7 to 27 days) has remained at 0.7 for 3 years.
- Since 2003, the early, post and late neonatal mortality rates have declined 31.4%, 23.8%, and 22.2%, respectively.

Figure 7. Neonatal and Postneonatal Mortality Rates, New York City, 2003–2012

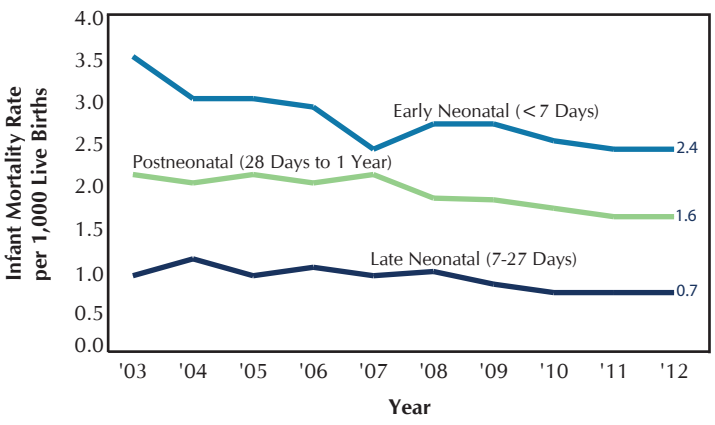
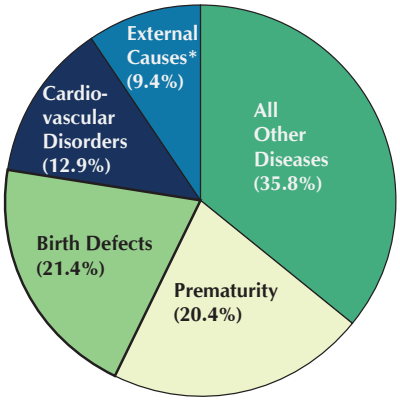


Figure 8. Leading Causes of Infant Deaths, New York City, 2012

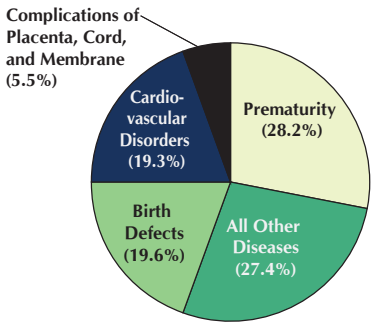


583 Infant Deaths

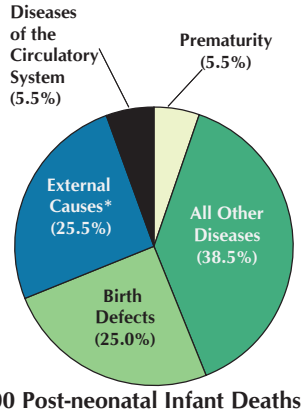
- The 3 leading causes of infant death in 2012 were birth defects (congenital malformations/ deformations) (21.4%), followed by prematurity (short gestation and low birth weight) (20.4%) and cardiovascular disorders originating in the perinatal period (12.9%). External causes, which include injuries, homicides and deaths of undetermined intent also contributed a substantial number of deaths (9.4%).

- Neonatal deaths (<28 days old) were primarily caused by prematurity (short gestation and low birth weight) (28.2%) followed by birth defects (congenital malformations/deformations) (19.6%) and cardiovascular disorders originating in perinatal period (19.3%).
- Postneonatal deaths (28 days to 1 year) were primarily due to external causes (25.5%), followed by birth defects (congenital malformations/deformations) (25.0%). Prematurity (short gestation and low birth weight) and diseases of the circulatory system (both at 5.5%), were also among the leading causes of death in the post-neonatal period.

Figure 9. Leading Causes of Neonatal and Postneonatal Deaths, New York City, 2012



383 Neonatal Infant Deaths (<28 days)



200 Post-neonatal Infant Deaths (>28 days to 1 year)

*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.

Table 3. Infant Deaths by Cause, Sex, and Age, New York City, 2012

	Cause of Death	Total	Male		Female	
			Neonatal (<28 Days)	Post-neonatal (≥ 28 Days)	Neonatal (<28 Days)	Post-neonatal (≥ 28 Days)
	Total	**583**	**214**	**103**	**169**	**97**
1	HIV Infection (B20-B24)†	1	-	-	-	1
2	Diseases of the Circulatory System (I00-I99)†	11	-	7	-	4
3	Influenza and Pneumonia (J10-J18)†	3	-	2	-	1
4	Newborn Affected by Maternal Complications of Pregnancy (P01)†	4	3	-	1	-
5	Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)†	22	12	1	9	-
6	Short Gestation and Low Birthweight (P07)†	119	58	5	50	6
7	Intrauterine Hypoxia and Birth Asphyxia (P20-P21)†	5	3	-	1	1
8	Respiratory Distress of Newborn (P22)†	15	12	-	3	-
9	Pulmonary Hemorrhage Originating in the Perinatal Period (P26)†	8	4	-	4	-
10	Atelectasis (P28.0-P28.1)†	3	2	-	1	-
11	Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)‡	10	2	2	2	4
12	Cardiovascular Disorders Originating in the Perinatal Period (P29)‡	75	40	1	34	-
13	Infections Specific to the Perinatal Period (P35-P39)‡	13	7	-	6	-
	Bacterial sepsis of newborn (P36)	10	6	-	4	-
14	Neonatal Hemorrhage (P50-P52, P54)†	9	7	-	2	-
15	Necrotizing Enterocolitis of Newborn (P77)†	9	5	-	3	1
16	Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)	22	10	3	7	2
17	Congenital Malformations, Deformations (Q00-Q99)†	125	38	22	37	28
	Congenital malformations of heart (Q20-Q24)	40	7	10	10	13
18	Sudden Infant Death Syndrome (R95)†	4	-	1	-	3
19	All Other Diseases (Rest of A00-R99)	70	9	31	7	23
20	External Causes (V01-Y89)‡	55	2	28	2	23

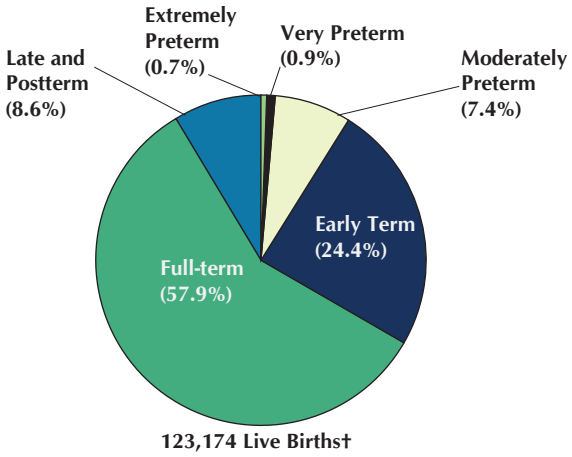
† Eligible to be ranked as leading causes nationally and in New York City.

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

PRETERM BIRTH

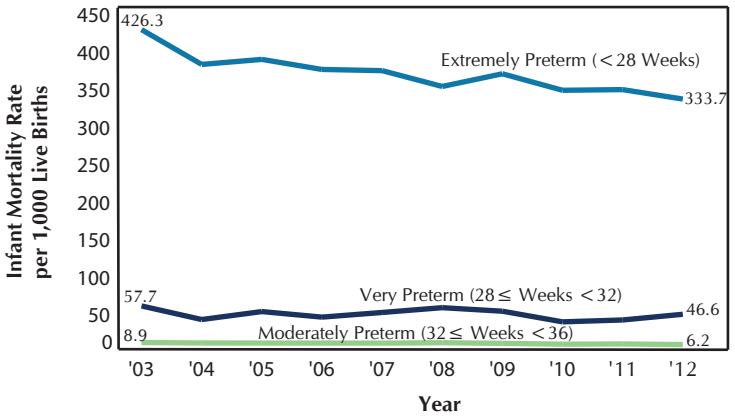
- Preterm birth is a risk factor for infant death that varies by gestational age. The 2012 gestational age distribution of live births is presented to assist with interpretation of the rates below.
- Term births* (≥37 weeks) include early term (37≤ weeks <39); full-term (39≤ weeks <41); late and postterm (≥41 weeks). In 2012, term births accounted for 91.0% of all New York City births; they decreased 0.3% since 2003 (data not shown).
- Preterm births (<37 weeks) include extremely preterm (<28 weeks); very preterm (28≤ weeks <32); moderately preterm (32≤weeks <37) includes early (32< weeks <33) and late preterm (34< weeks <36). These births accounted for 9.0% of 2012 births and decreased 5.9% since 2003 (data not shown).

Figure 10. Live Births by Gestational Age*, New York City, 2012



*See Technical Notes for revised definition of term births.
†Live births for which gestational age was reported in 2012

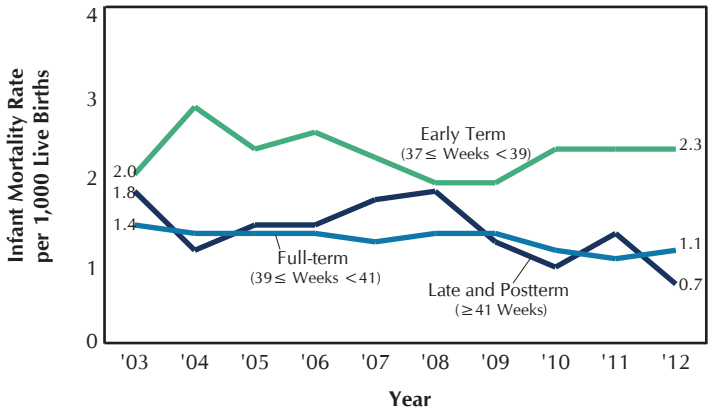
Figure 11. Infant Mortality Rate among Preterm Live Births, New York City, 2003–2012



- The less than 2 percent of infants born extremely and very preterm have very high risks for death with infant mortality rates of 333.7 and 46.6 infant deaths per 1,000 live births respectively in 2012. Rates of infant death for early preterm and late preterm were 12.0 and 5.2 respectively (data not shown) averaging to 6.2 deaths among moderately preterm births.
- Since 2003, infant mortality declined 21.7% among extremely preterm, 19.2% among very preterm and 30.3% among moderately preterm.

- Among pregnancies that reached term in 2012, the infant mortality rate was highest among early term births at 2.3 deaths per 1,000 live births, followed by full-term births at 1.1 and lowest among late and postterm births at 0.7.
- Since 2003, the infant mortality rate declined 15.0% among early term births, 28.6% among full-term births and 26.1% among postterm births.

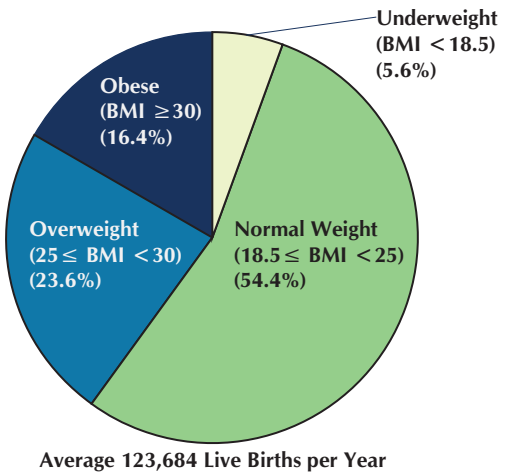
Figure 12. Infant Mortality Rate among Term Live Births*, New York City, 2003–2012



*See Technical Notes for revised definition of term births.

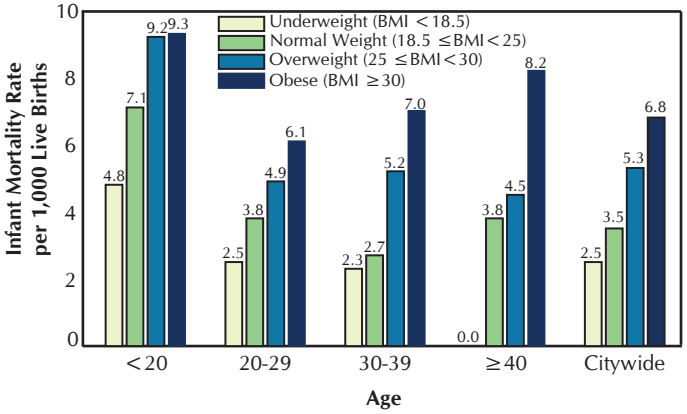
MOTHER'S BODY MASS INDEX (BMI)

Figure 13. Live Births by Mother's Pre-pregnancy Body Mass Index (BMI), New York City, 2010-2012



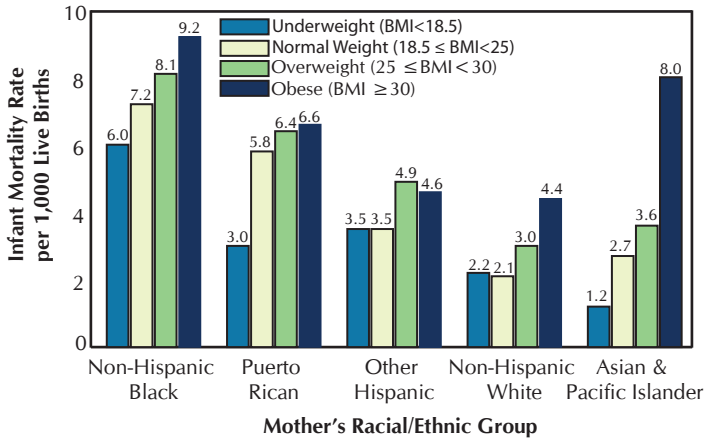
- The prevalence of mother's pre-pregnancy Body Mass Index (BMI) is presented to assist with the interpretation of the rates below. Nearly 40% of mothers were either obese (16.6%) or overweight (23.3%) pre-pregnancy.
- Citywide, the average infant mortality was lowest among infants born to underweight mothers at 2.5 infant deaths per 1,000 live births and highest among obese mothers at 6.8 deaths (see Figure 14 "Citywide" below). Risk of death for infants born to obese mothers was nearly two times higher (6.8 vs. 3.5) than for infants born to normal weight mothers.

Figure 14. Average* Infant Mortality Rate by Mother's Pre-pregnancy Body Mass Index (BMI) and Age, New York City, 2010–2012



- The average infant morality rate among pre-pregnancy obese mothers was 9.3 deaths per 1,000 live births among mothers less than 20 years old, followed by mothers 40 years and older at 8.2, 30 to 39 years old at 7.0, and 20 to 29 years old at 6.1.
- The average infant mortality rate was 1.3 times greater among obese vs. normal weight mother's less than 20 years old, 1.6 times greater among those 20 to 29 years old, 2.6 times greater among those 30 to 39 years old and 2.2 times greater among those 40 years and older.

Figure 15. Average* Infant Mortality Rate by Mother's Pre-pregnancy Body Mass Index (BMI) and Racial/Ethnic Group, New York City, 2010–2012



*Due to instability of the infant mortality rates by certain mother's characteristics, rates are presented in rolling three-year averages.

- The average infant mortality rate among pre-pregnancy obese mothers was highest among non-Hispanic blacks, at 9.2 deaths per 1,000 live births, followed by Asian & Pacific Islanders (8.0), Puerto Ricans (6.6), other Hispanic (4.6), and non-Hispanic whites (4.4).
- The relative difference in rates for obese vs. normal pre-pregnancy weight mothers was 2.1 times greater among non-Hispanic whites, 1.3 times greater among non-Hispanic blacks and other Hispanics and 1.1 times greater among Puerto Ricans. The relative difference was 3.0 among Asian and Pacific Islanders; interpret this difference with caution, as numbers are small.
- Only among other Hispanics was the average infant mortality rate higher among pre-pregnancy overweight (4.9) vs. obese (4.6) mothers.

MOTHER'S CHARACTERISTICS

Table 4. Live Births and Infant Mortality Rate by Characteristics of Mother, New York City, 2012

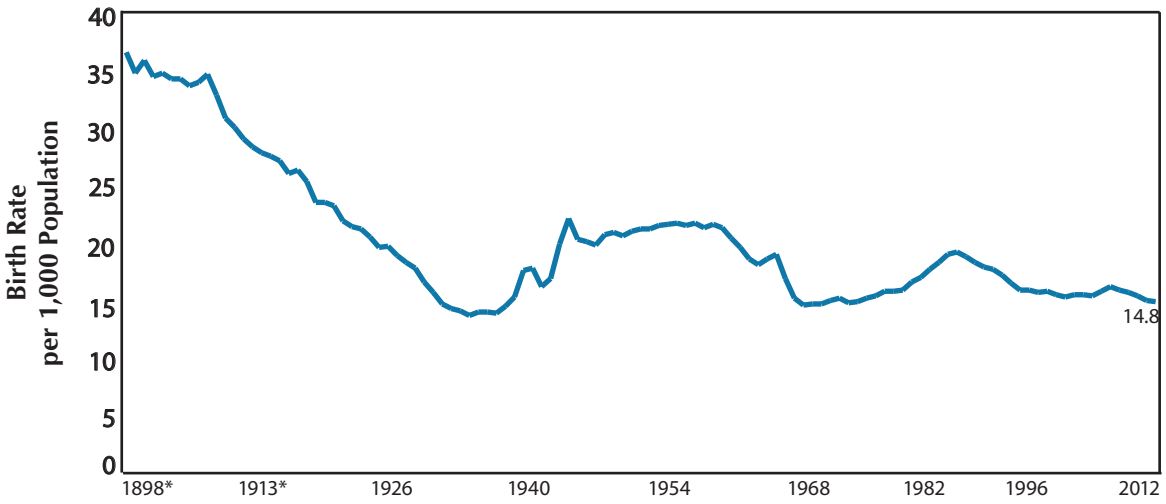
Characteristics	Live Births		Infant Mortality Rate (IMR) per 1,000 Live Births					
			All		Neonatal		Post-neonatal	
	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	**123,231**	**100.0**	**583**	**4.7**	**383**	**3.1**	**200**	**1.6**
Race/Ethnicity								
Puerto Rican	8,673	7.0	57	6.6	42	4.8	15	1.7
Other Hispanic	27,969	22.7	133	4.8	90	3.2	43	1.5
Asian and Pacific Islander	21,149	17.2	70	3.3	45	2.1	25	1.2
Non-Hispanic White	39,112	31.7	104	2.7	67	1.7	37	0.9
Non-Hispanic Black	24,758	20.1	211	8.5	135	5.5	76	3.1
Other and unknown	1,570	1.3	8	-	4	-	4	-
Age of Mother								
Age < 18	1,805	1.5	14	7.8	9	5.0	5	2.8
Age 18-19	3,990	3.2	24	6.0	17	4.3	7	1.8
Age 20-29	53,397	43.3	236	4.4	155	2.9	81	1.5
Age 30-39	57,374	46.6	235	4.1	164	2.9	71	1.2
Age ≥40	6,664	5.4	34	5.1	23	3.5	11	1.7
Age unknown	1	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Mother's Education								
11th grade or less/12th grade, no diploma	26,578	21.6	152	5.7	103	3.9	49	1.8
High school graduate or GED	26,699	21.7	145	5.4	96	3.6	49	1.8
Some college/associate degree	26,915	21.8	113	4.2	69	2.6	44	1.6
Bachelor's degree	23,723	19.3	78	3.3	58	2.4	20	0.8
Master's degree or higher	18,968	15.4	40	2.1	29	1.5	11	0.6
Mother's education unknown	348	0.3	15	-	13	-	2	-
Unmatched*	-	-	40	-	15	-	25	-
Marital Status of Mother†								
Not married	50,995	41.4	312	6.1	205	4.0	107	2.1
Married	72,235	58.6	231	3.2	163	2.3	68	0.9
Unknown	1	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Mother's Birthplace								
US born, including territories	59,868	48.6	284	4.7	193	3.2	91	1.5
Foreign born	63,337	51.4	259	4.1	175	2.8	84	1.3
Birthplace unknown	26	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Primary Payer for This Birth								
Medicaid/Family Plus/Child PlusB/other govt	72,883	59.1	360	4.9	226	3.1	134	1.8
Other	49,737	40.4	179	3.6	139	2.8	40	0.8
Coverage unknown	611	0.5	4	-	3	-	1	-
Unmatched*	-	-	40	-	15	-	25	-
Plurality								
Singletons	118,549	96.2	461	3.9	303	2.6	158	1.3
Multiples	4,681	3.8	82	17.5	65	13.9	17	3.6
Plurality unknown	1	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Parity								
First birth	54,969	44.6	233	4.2	171	3.1	62	1.1
Second birth or higher	68,211	55.4	308	4.5	196	2.9	112	1.6
Unknown	51	0.0	2	-	1	-	1	-
Unmatched*	-	-	40	-	15	-	25	-
First Prenatal Care Visit								
No prenatal care	870	0.7	30	34.5	27	31.0	3	3.4
First trimester (1-3 months)	87,325	70.9	338	3.9	235	2.7	103	1.2
Second trimester (4-6 months)	26,115	21.2	117	4.5	71	2.7	46	1.8
Late (7-9 months)	7,442	6.0	30	4.0	12	1.6	18	2.4
Prenatal care unknown	1,479	1.2	28	-	23	-	5	-
Unmatched*	-	-	40	-	15	-	25	-
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI < 18.5)	7,140	5.8	20	2.8	14	2.0	6	0.8
Normal weight (18.5 ≤ BMI < 25)	67,125	54.5	220	3.3	163	2.4	57	0.8
Overweight (25 ≤ BMI < 30)	28,720	23.3	147	5.1	93	3.2	54	1.9
Obese (BMI ≥ 30)	19,683	16.0	147	7.5	90	4.6	57	2.9
Pre-pregnancy BMI unknown	563	0.5	9	-	8	-	1	-
Unmatched*	-	-	40	-	15	-	25	-

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

† Reporting of mother's marital status on the birth certificate is prohibited by NYC Health Code 201.05(b). Marital status was computed using father's name. When missing or accompanied by an Acknowledgment of Paternity, marital status is categorized as unmarried; all others with father's name were categorized as married.

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK

PREGNANCY OUTCOMES



*1898-1913 Birth counts are estimated as number reported was determined to be incomplete.

NYC Health

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

Bill de Blasio, Mayor

Daniel Kass, MSPH, Interim Commissioner

SUMMARY OF VITAL STATISTICS 2012
THE CITY OF NEW YORK
PREGNANCY OUTCOMES

New York City Department of Health and Mental Hygiene

Division of Epidemiology
Carolyn Greene, MD, Deputy Commissioner

Bureau of Vital Statistics
Gretchen Van Wye, MD, PhD, Acting Assistant Commissioner
Flor Betancourt, MA, Director, Birth and Death Registration Unit
Tara Das, PhD, MPH, Director, Office of the Registrar
Melissa Gambatese, MPH, Director, Quality Improvement Unit
Kevin Koshar, MPP, Director, Office of Vital Records
Wenhui Li, PhD, Director, Statistical Analysis and Reporting Unit
Ann Madsen, PhD, MPH, Director, Office of Vital Statistics
Steven Schwartz, PhD, Registrar
Regina Zimmerman, PhD, MPH, Director, Data Use and Disclosure Unit

February 2014

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

Suggested citation: Zimmerman R, Li W, Gambatese M, Madsen A, Lasner-Frater L, Van Wye G, Kelley D, Kennedy J, Maduro G, Sun Y. *Summary of Vital Statistics, 2012: Pregnancy Outcomes*. New York, NY: New York City Department of Health and Mental Hygiene, Office of Vital Statistics, 2013.

Annual Pregnancy Outcomes, Infant Mortality, Mortality, Executive Summary and Summary of Vital Statistics Archives are available online at http://www.nyc.gov/vitalstats.

PREGNANCY OUTCOMES CONTENTS

PREGNANCY OUTCOMES OVERVIEW

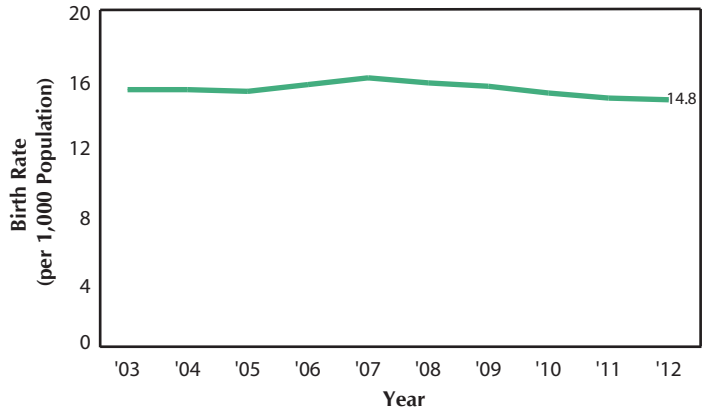
All pregnancy outcomes, whether a live birth or a spontaneous or induced termination of pregnancy, are required by law to be reported to the Department of Health and Mental Hygiene. This report compiles the information reported about these events to monitor the health of women and their infants in New York City. For additional tables, technical notes and samples of NYC certificates of birth, please see the Bureau of Vital Statistics website at www.nyc.gov/vitalstats.

Select Key Findings:

- The 2012 citywide crude birth rate was 14.8 births per 1,000 population, the lowest rate since 1979 when the rate was also 14.8. Since 2003, it decreased 3.9% from 15.4 (Figure 1).
- Since 2003, the teen birth rate continued its steady decline to a new low of 23.6 births per 1,000 women age 15-19 years in 2012. The rate decreased 32.4% from 34.9. in 2003, and 8.5% from 25.8 in 2011 (Figure 5).
- Numerous characteristics of birth correlate with the percentage of neighborhood population living below poverty. Neighborhoods with a higher percentage of population living below the federal poverty level have more preterm births, low birthweight newborns, pre-pregnancy overweight/obese mothers, and mothers who have late or no prenatal care. Neighborhoods with a higher percent of population living below the federal poverty level also have fewer multiple births, breastfed only babies, C-sections, and pre-pregnancy normal weight mothers (Table 2).
- Preterm (<37 weeks) and low birthweight (<2,500g) infants each accounted for less than 10% of live births in 2012. Non-Hispanic blacks were disproportionately more likely to have preterm (12.4%) and low birth weight infants (12.0%) than other racial/ethnic groups (Figures 7-12).
- In 2012, 39.4% of women giving birth were either overweight (23.4%) or obese (16.0%) pre-pregnancy. Disproportionately more non-Hispanic black (58.1%) and Hispanic (51.0%) mothers were overweight or obese pre-pregnancy (Figures 13-15).
- Citywide, the percentage of live births born via C-section increased from 27.0% of births in 2003 to 33.1% of births in 2009 remaining relatively stable since, at 32.7% in 2012 (Figures 16-18).
- The majority (87.2%) of infants born citywide in 2012 were fed some breast milk within five days of birth; 31.7% of newborns were fed exclusively breastmilk (Figures 22-24).
- Citywide, 6.8% of mothers received either late (3rd trimester) or no prenatal care in 2012; disproportionately more non-Hispanic black mothers (11.8%) received late or no prenatal care (Figures 25-27).

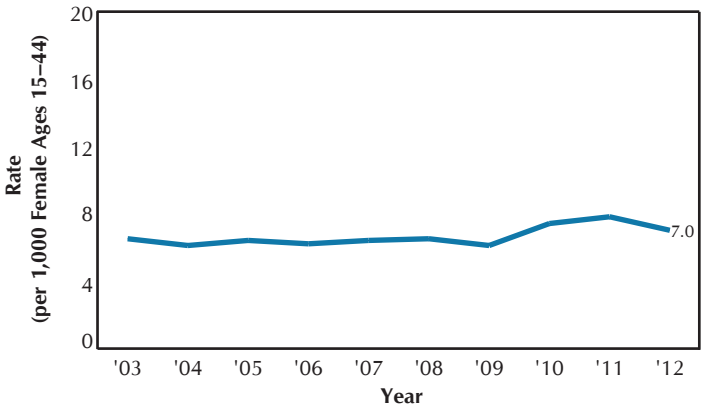
PREGNANCY OUTCOMES OVERVIEW

Figure 1. Crude Birth Rate, New York City, 2003–2012



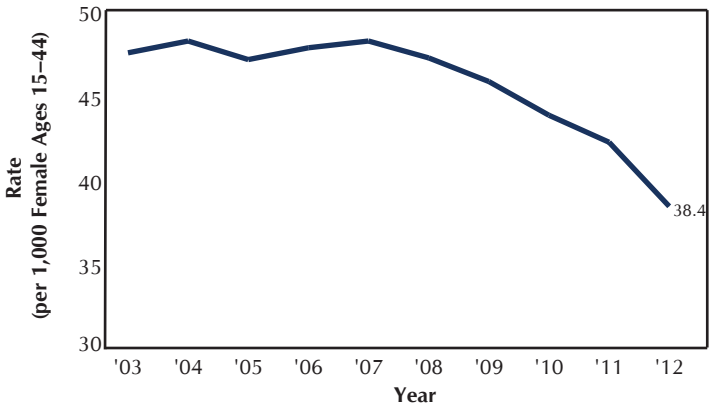
- The 2012 citywide crude birth rate was 14.8 births per 1,000 population, the lowest rate since 1979 when the rate was also 14.8. The rate decreased 3.9% from 15.4 births per 1,000 population in 2003 and 0.7% from 14.9 births per 1,000 population in 2011.
- More detailed information on current birth rates can be found in Table 1 and Figures 4, 5, and 6.

Figure 2. Crude Spontaneous Terminations of Pregnancy Rate, New York City, 2003–2012



- The citywide crude rate of spontaneous terminations of pregnancy increased from 6.5 terminations per 1,000 women aged 15 to 44 years in 2003 to 7.0 in 2012, an 8.7% increase. Since 2011, it decreased 9.9%.
- Changes in rates of spontaneous terminations of pregnancy (i.e. miscarriages and still births) are likely due to variations in reporting facility's responsiveness to legal reporting requirements rather than true changes in such events. DOHMH continues to conduct outreach and education of targeted medical facilities about legal reporting requirements.
- More detailed information on spontaneous terminations of pregnancy rates can be found in Table 1.

Figure 3. Crude Induced Terminations of Pregnancy Rate, New York City, 2003–2012



- The citywide crude induced terminations of pregnancy rate decreased 19.0% from 2003 to 2012, and nearly the entire decline has occurred in the past five years.
- Since 2011, induced terminations of pregnancy decreased 8.6%.
- Annual outreach and education of identified medical facilities regarding reporting requirements continue.
- More detailed information on induced terminations of pregnancy rates can be found in Table 1.

PREGNANCY OUTCOMES OVERVIEW

Table 1. Pregnancy Outcomes, Pregnancy Outcome Rates*, and Pregnancy Rates* by Mother's Age Group, Racial/Ethnic Group, and Borough of Residence, New York City, 2012

	Age of Woman	Live Births		Spontaneous Terminations		Induced Terminations		Pregnancy
	Years	Counts†	Rates per 1,000	Counts†	Rates per 1,000	Counts†	Rates per 1,000	Rates per 1,000
New York City‡	15-19	5,795	23.6	675	2.8	9,417	38.4	64.7
	20-29	53,397	73.9	4,923	6.8	40,965	56.7	137.5
	30-39	57,374	87.1	6,270	9.5	20,533	31.2	127.8
	40-49	6,664	11.4	1,645	2.8	2,897	4.9	19.1
	Total	123,231	14.8	13,514	7.0	73,815	38.4	109.6
Ethnic Group‡§								
Hispanic	15-19	3,281	36.9	208	2.3	3,357	37.8	77.0
	20-29	18,860	91.9	1,248	6.1	13,295	64.8	162.7
	30-39	13,154	71.1	1,225	6.6	5,664	30.6	108.3
	40-49	1,347	8.0	270	1.6	600	3.6	13.1
	Total	36,642	15.2	2,951	5.2	22,917	40.6	110.7
Asian and Pacific Islander	15-19	177	6.1	11	0.4	293	10.1	16.6
	20-29	8,872	85.6	333	3.2	2,172	20.9	109.7
	30-39	11,115	105.4	563	5.3	1,663	15.8	126.5
	40-49	985	11.0	111	1.2	365	4.1	16.3
	Total	21,149	18.8	1,018	3.6	4,493	15.8	93.8
Non-Hispanic White	15-19	477	8.5	71	1.3	670	11.9	21.7
	20-29	13,230	54.3	853	3.5	5,210	21.4	79.2
	30-39	22,486	104.0	1,676	7.8	3,205	14.8	126.6
	40-49	2,919	17.7	449	2.7	619	3.8	24.2
	Total	39,112	14.2	3,049	5.1	9,704	16.1	86.2
Non-Hispanic Black	15-19	1,778	26.9	216	3.3	4,415	66.7	96.9
	20-29	11,812	76.0	1,392	9.0	17,390	111.8	196.8
	30-39	9,846	70.3	1,430	10.2	8,441	60.3	140.9
	40-49	1,322	8.6	408	2.7	1,080	7.1	18.4
	Total	24,758	13.0	3,446	7.9	31,328	72.0	136.9
Borough of Residence‖								
Manhattan	15-19	583	15.2	84	2.2	1,394	36.3	53.7
	20-29	5,635	31.7	609	3.4	7,087	39.8	74.9
	30-39	11,266	76.9	1,143	7.8	3,356	22.9	107.6
	40-49	1,602	14.9	305	2.8	546	5.1	22.8
	Total	19,086	11.8	2,141	5.1	12,384	29.6	80.2
Bronx	15-19	1,799	34.6	156	3.0	2,542	48.8	86.4
	20-29	10,472	90.0	966	8.3	9,952	85.6	183.9
	30-39	6,949	68.0	850	8.3	4,474	43.8	120.1
	40-49	824	8.1	219	2.1	500	4.9	15.1
	Total	20,044	14.2	2,191	6.8	17,468	54.4	123.7
Brooklyn	15-19	1,843	23.8	208	2.7	2,728	35.3	61.8
	20-29	20,189	90.9	1,760	7.9	11,943	53.8	152.6
	30-39	18,105	87.8	1,942	9.4	6,123	29.7	126.9
	40-49	1,950	11.1	540	3.1	890	5.1	19.3
	Total	42,087	16.4	4,450	7.5	21,686	36.5	114.7
Queens	15-19	1,194	19.1	153	2.4	1,822	29.1	50.6
	20-29	12,304	70.5	1,058	6.1	8,029	46.0	122.5
	30-39	12,235	70.8	1,400	8.1	4,363	25.2	104.1
	40-49	1,253	7.6	322	2.0	598	3.6	13.2
	Total	26,986	11.9	2,933	6.0	14,812	30.1	90.8
Staten Island	15-19	228	15.2	23	1.5	314	21.0	37.8
	20-29	2,140	68.7	211	6.8	1,209	38.8	114.3
	30-39	2,657	86.6	336	11.0	546	17.8	115.4
	40-49	235	6.6	81	2.3	74	2.1	11.0
	Total	5,260	11.2	651	6.9	2143	22.8	85.6

Note: Population data used to calculate rates are 2012 estimates based on the 2010 census. See Technical Notes: Population.

*See Technical Notes: Population, Vital Event Rates

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

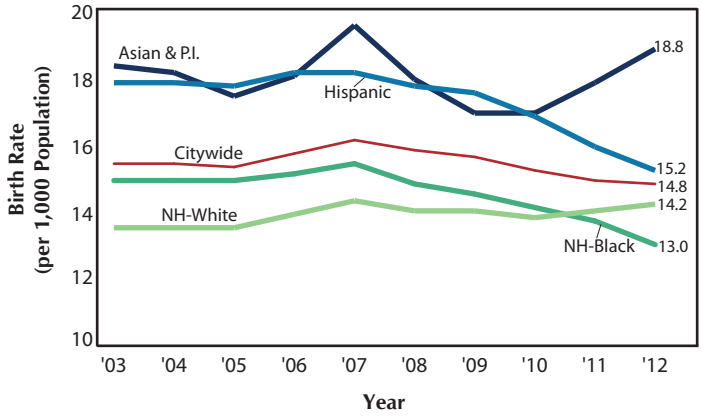
‡Includes all events occurring in NYC regardless of residence.

§Other/unknown ethnicities are excluded.

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

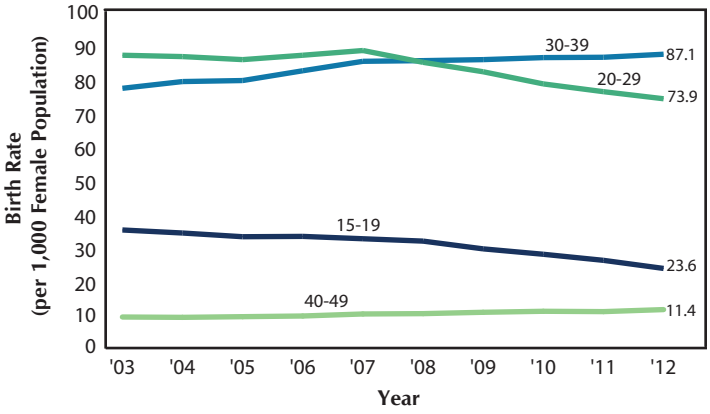
BIRTH RATE

Figure 4. Birth Rate by Mother's Racial/Ethnic Group, New York City, 2003–2012



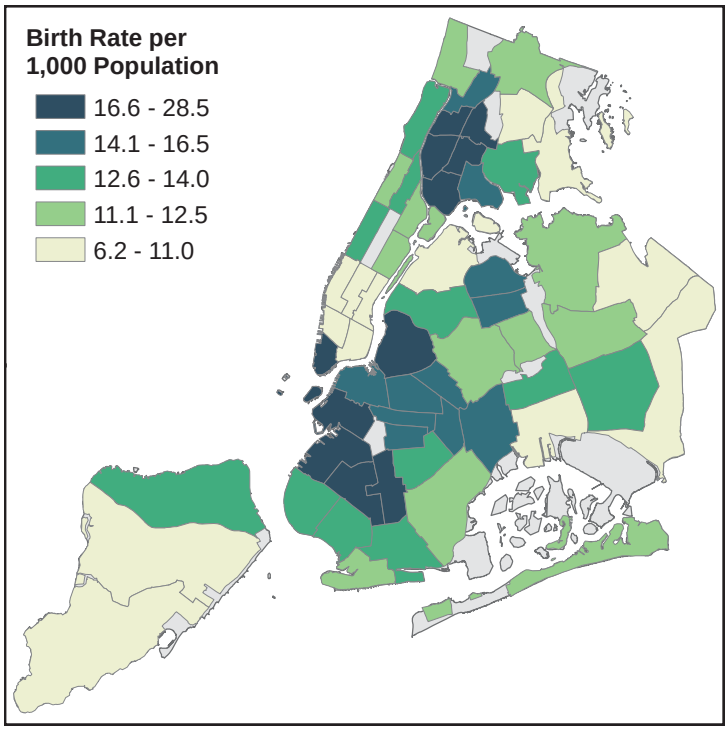
- In 2012, the birth rate was highest among Asians and Pacific Islanders at 18.8 births per 1,000 population, followed by Hispanics at 15.2, non-Hispanic whites at 14.2, and non-Hispanic blacks at 13.0.
- From 2003 to 2012, birth rates increased among non-Hispanic whites (6.0%) and Asians and Pacific Islanders (3.3%), and decreased among Hispanics (14.6%) and non-Hispanic blacks (12.8%).

Figure 5. Birth Rate by Mother's Age Group, New York City, 2003–2012



- In 2012, women aged 30 to 39 years of age had the highest birth rate at 87.1 births per 1,000 population of women 30 to 39, followed by women 20 to 29 (73.9), 15 to 19 (23.6), and 40 to 49 (11.4) years old.
- Since 2003, the teen birth rate continued its steady decline to a new low of 23.6 births per 1,000 women 15-19 years of age in 2012. The rate has decreased 32.4% from 34.9 in 2003, and 8.5% from 25.8 in 2011.

Figure 6. Birth Rate by Community District of Residence, New York City, 2012



- In 2012, the community districts with the lowest birth rates in New York City were Bayside at 6.2 births per 1,000 population, Throgs Neck at 7.7, Queens Village at 8.5, Tottenville at 9.0 and Murray Hill and Chelsea/Clinton, each at 9.1.
- The community districts with the highest birth rates in 2012 were Borough Park at 28.5 births per 1,000 population, Sunset Park at 25.1, Williamsburg/Greenpoint at 20.1, Battery Park/Tribeca at 19.0, and University/Morris Heights at 18.0.

PRETERM LIVE BIRTHS

- Since 2003, preterm live births (<37 weeks) declined 5.3%, accounting for 9.0% of all births citywide in 2012.
- Non-Hispanic blacks had more preterm live births (12.4%) in 2012 than other racial/ethnic groups (range: 7.4% to 9.4%), consistent with previous years.
- Since 2003, preterm births declined 7.5% among Asians and Pacific Islanders, 5.1% among non-Hispanic whites, 1.6% among non-Hispanic blacks and remained unchanged at 9.4% among Hispanics.

Figure 7. Percent Preterm Live Births by Mother's Racial/Ethnic Group, New York City, 2003–2012

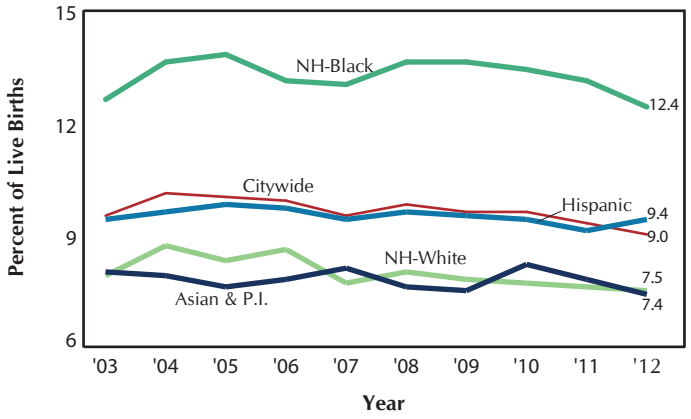
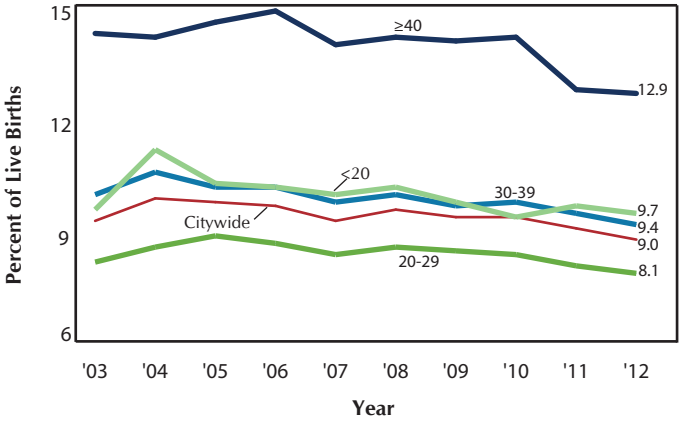


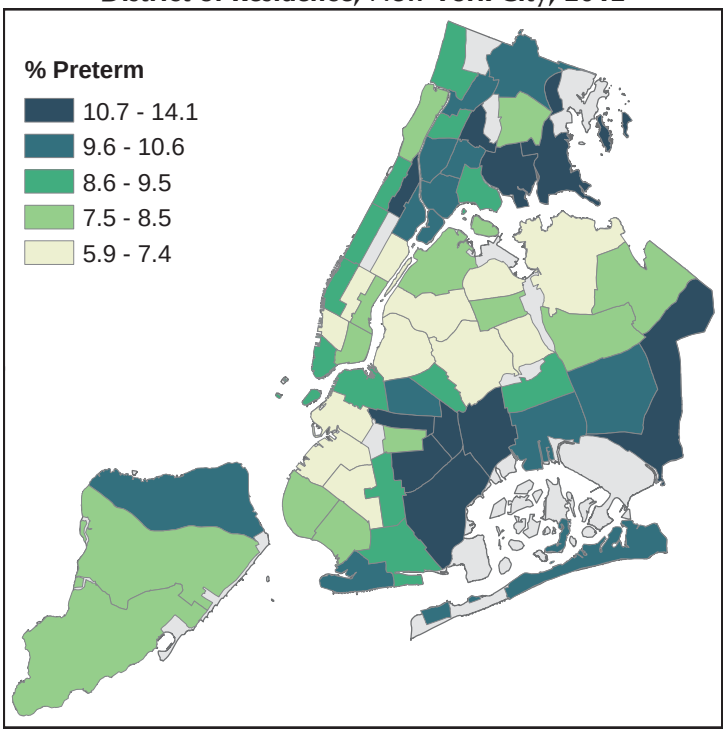
Figure 8. Percent Preterm Live Births by Mother's Age Group, New York City, 2003–2012



- In 2012, mothers 40 years or older had more preterm births (12.9%) than younger mothers (range: 8.1% to 9.7%).
- Since 2003, preterm births declined 11.0% among mothers 40 years or older, 7.8% among mothers 30 to 39, 3.6% among mothers 20 to 29 and 1.0% among mothers less than 20 years of age.

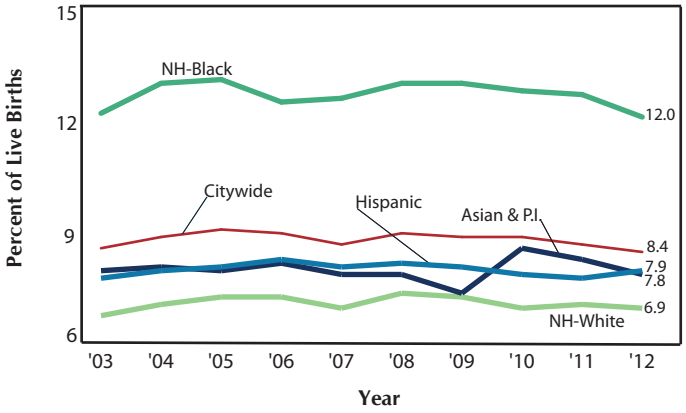
- In 2012, the community districts with the highest percentage of preterm live births were Brownsville (14.1%), East Flatbush (13.3%), East New York (12.3%), Queens Village and Canarsie (11.9% each).
- In 2012, the community districts with the lowest percentage of preterm live births included Midtown Business District (5.9%), Williamsburg/Greenpoint and Greenwich Village/SOHO (6.1% each), Upper East Side (6.2%), Sunset Park and Borough Park (6.3%), and Flushing (6.4%).

Figure 9. Percent Preterm Live Births by Community District of Residence, New York City, 2012



LOW BIRTHWEIGHT

Figure 10. Percent Low Birthweight Live Births by Mother's Racial/Ethnic Group, New York City, 2003–2012



- In 2012, 8.4% of citywide live births were low birthweight (<2,500g), a 1.2% decline since 2003.
- Non-Hispanic blacks had disproportionately more low birthweight births (12.0%) in 2012, relative to other racial/ethnic groups (range: 6.9% to 7.9%).

- The distribution of low birthweight live births by mother's age has remained stable over the past 10 years.
- In 2012, mothers aged 40 years or older had the highest percentage of low birthweight live births (12.4%), followed by mothers aged less than 20 (9.9%), 30 to 39 (8.4%), and 20 to 29 (7.7%).

Figure 11. Percent Low Birthweight Live Births by Mother's Age Group, New York City, 2003–2012

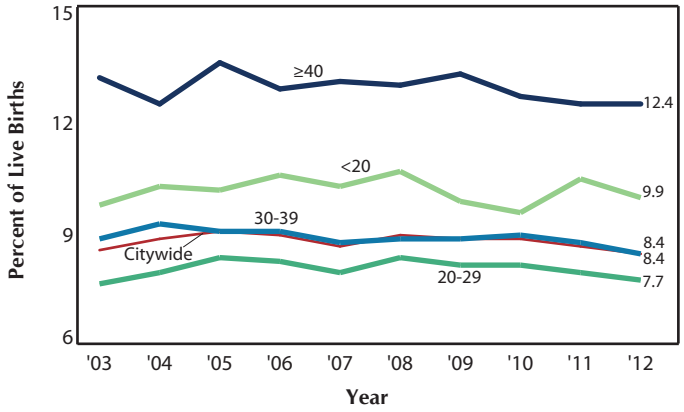
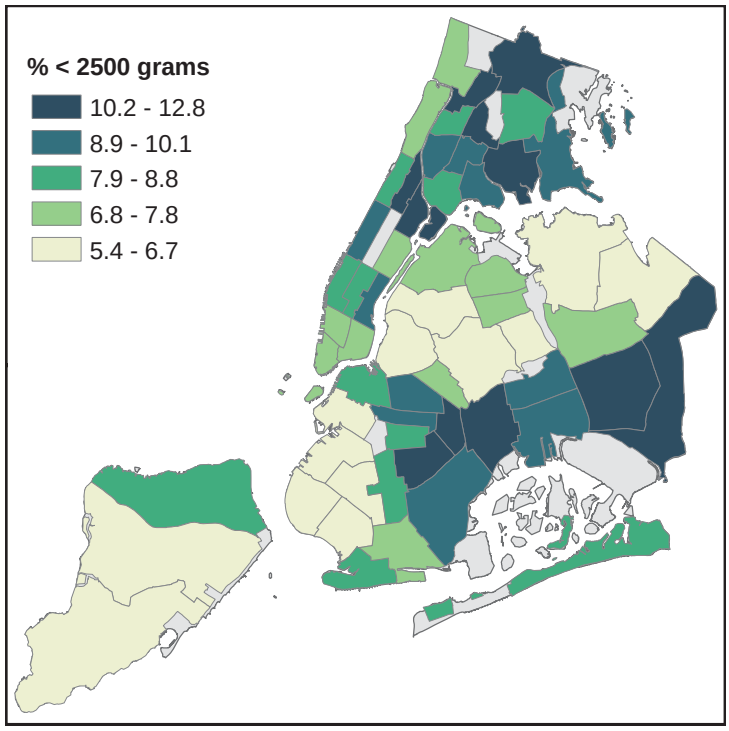


Figure 12. Percent Low Birthweight Live Births by Community District of Residence, New York City, 2012

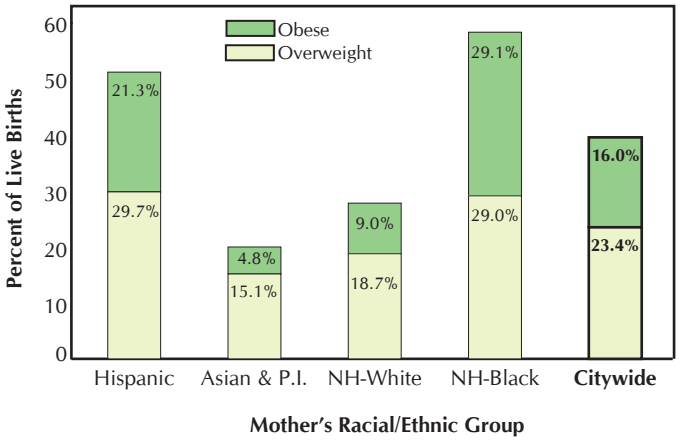


- In 2012, the community districts with the highest percentages of infants born weighing less than 2,500 grams were Brownsville (12.8%), East Flatbush (12.1%), Queens Village (11.9%), East Tremont (11.7%), and Central Harlem (11.5%).
- In 2012, Williamsburg/Greenpoint was the community district with the lowest percentage of low birthweight live births (5.4%), followed by Sunset Park (5.7%), Flushing (5.8%), Borough Park (5.9%), and Bayside, Sunnyside/Woodside and Ridgewood/Glendale (6.0% each).

MOTHER'S BODY MASS INDEX (BMI)

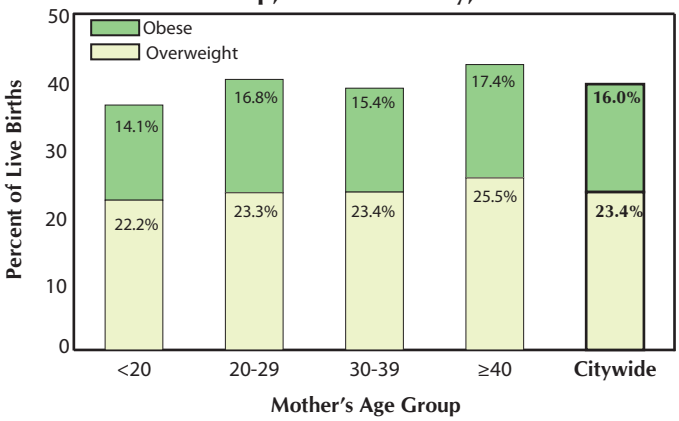
- In 2012, 39.4% of women giving birth were either overweight (23.4%) or obese (16.0%) pre-pregnancy.
- Disproportionately more non-Hispanic black (58.1%), and Hispanic (51.0%) women giving birth were overweight or obese pre-pregnancy.
- Asians and Pacific Islanders, and non-Hispanic whites had the lowest levels of pre-pregnancy overweight and obesity at 19.9% and 27.7%, respectively.

Figure 13. Pre-pregnancy BMI* by Mother's Racial/Ethnic Group, New York City, 2012



*Body Mass Index (BMI): Overweight: (25 BMI <30), Obese: (BMI ≥ 30)

Figure 14. Pre-pregnancy BMI* by Mother's Age Group, New York City, 2012

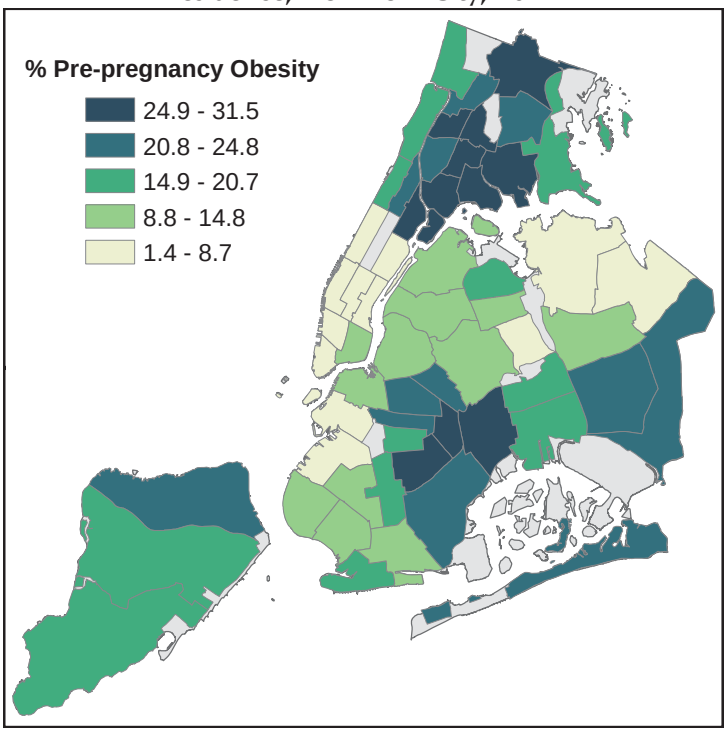


*Body Mass Index (BMI): Overweight: (25 BMI <30), Obese: (BMI ≥ 30)

- In 2012, the percentage of pre-pregnancy overweight and obese mothers was similar across all age groups.
- In 2012, teenage mothers (<20 years) were least often obese (14.1%), while mothers aged 40 years or older were most often obese (17.4%).

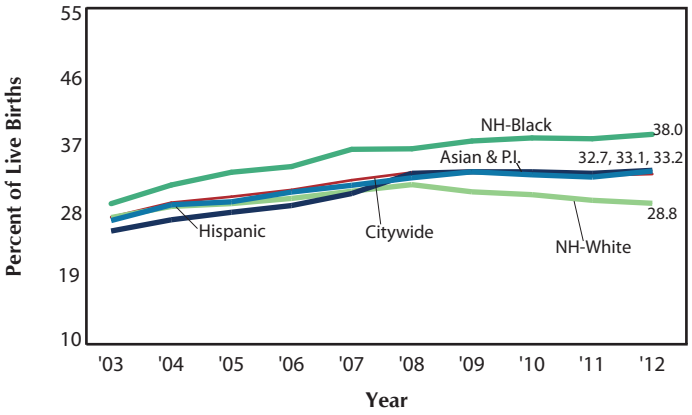
- In 2012, the community district with the highest percentage of pre-pregnancy obesity was Brownsville at 31.5%, followed by East Flatbush (29.2%), Morrisania and Hunts Point (29.0% each), East New York (27.1%), and Williamsbridge (27.0%).
- The five community districts with the lowest percentage of mothers with pre-pregnancy obesity were Battery Park/Tribeca (1.4%), Greenwich Village/SoHo (2.2%), Murray Hill (2.3%), Upper East Side (2.9%), and Midtown Business District (3.0%) in 2012.

Figure 15. Percent of Infants Born to Mothers with Pre-pregnancy Obesity by Community District of Residence, New York City, 2012



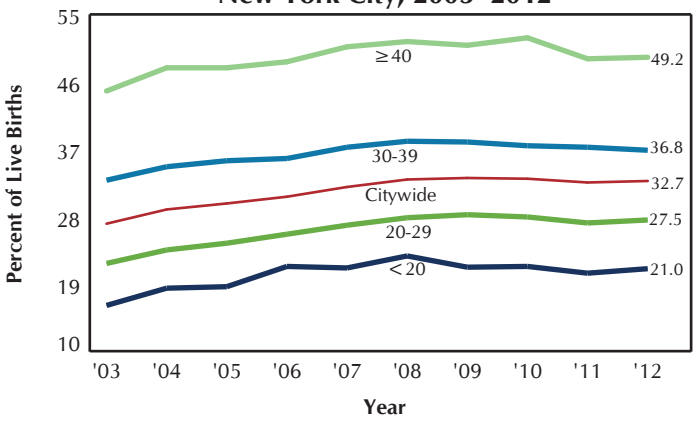
CESAREAN SECTION (C-SECTION) BIRTHS

Figure 16. Percent of Live Births Delivered by C-section by Mother's Racial/Ethnic Group, New York City, 2003–2012



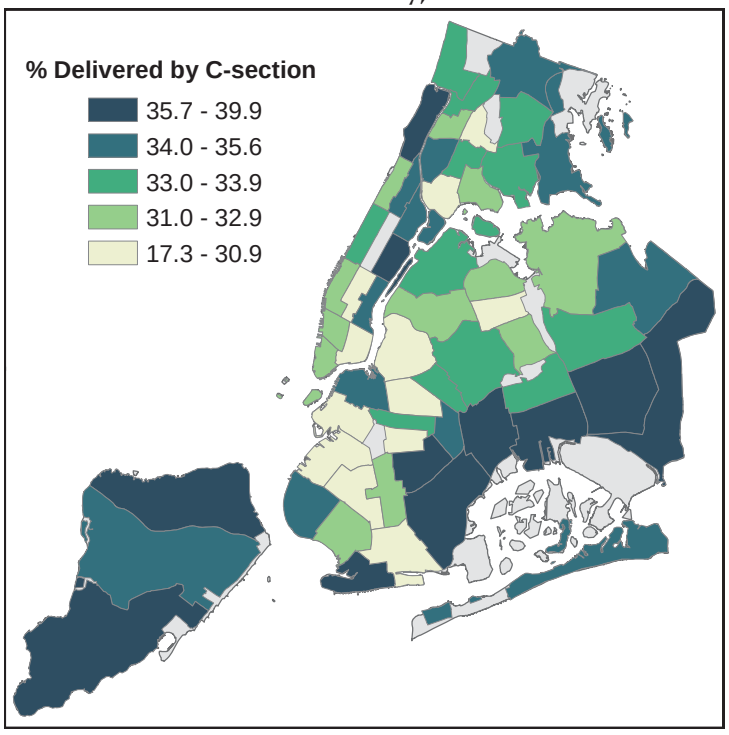
- Citywide, 32.7% of live births were born via C-section in 2012, a 21.1% increase since 2003.
- Since 2003, C-section deliveries increased 32.4% among non-Hispanic blacks, 32.3% among Asians and Pacific Islanders, 24.9% among Hispanics, and 7.1% among non-Hispanic whites.

Figure 17. Percent of Live Births Delivered by C-section by Mother's Age Group, New York City, 2003–2012



- Among mothers 40 years or older, nearly half (49.2%) of all births were delivered by C-section in 2012.
- Since 2003, C-section deliveries increased 30.4% among mothers less than 20 years of age, 26.7% among mothers 20 to 29, 12.2% among mothers 30 to 39, and 10.1% among mothers 40 years or older.

Figure 18. Percent of Live Births Delivered by C-section by Community District of Residence, New York City, 2012



- In 2012, the community district with the highest percentage of live births delivered by C-section was Tottenville at 39.9%, followed by East Flatbush (38.8%), Queens Village (37.6%), Coney Island (37.4%), and Canarsie, East New York, and Port Richmond (37.2% each).
- In 2012, the five community districts with the lowest percentage of C-section deliveries were Williamsburg/Greenpoint (17.3%), Borough Park (17.8%), Crown Heights South (27.0%), Sunset Park (27.9%), and Lower East Side (29.5%).

MULTIPLE LIVE BIRTHS

- During the last decade, the citywide percentage of multiple live births increased 5.6% to 3.8% in 2012.
- The percentage of multiple live births to non-Hispanic blacks increased 9.1% since 2003, followed by Hispanics (8.0%), non-Hispanic whites (5.8%) and Asians and Pacific Islanders at (3.6%).

Figure 19. Percent Multiple Live Births (Twins or Higher) by Mother's Racial/Ethnic Group, New York City, 2003–2012

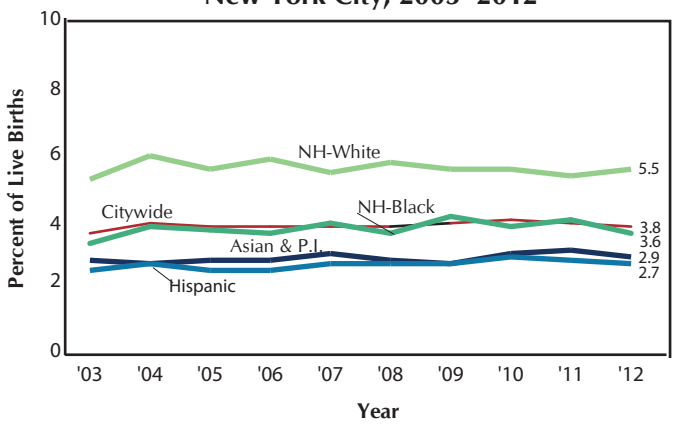
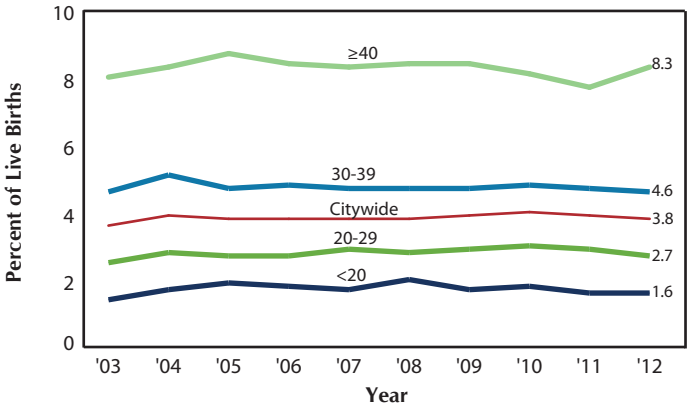
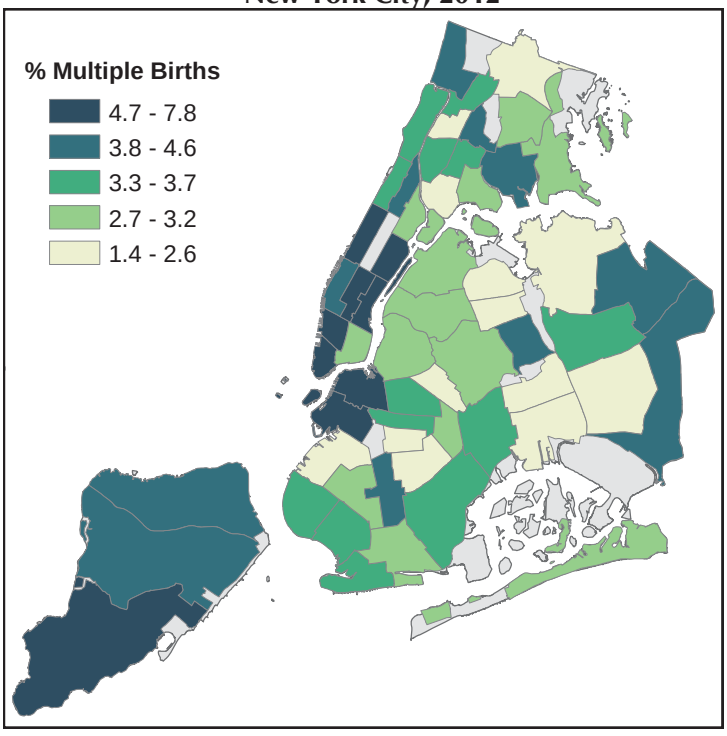


Figure 20. Percent Multiple Live Births (Twins or Higher) by Mother's Age Group, New York City, 2003–2012



- In 2012, women 40 years or older had more multiple live births (8.3%) than other age groups (range: 1.6% to 4.6%). This is likely attributable to more frequent use of assisted reproductive technology compared to other age groups.
- The percentage of multiple live births to mothers less than 20 years of age increased 14.3%, followed by mothers 20 to 29 (8.0%) and mothers 40 years or older (3.8%). The percentage of multiple live births to mothers 30 to 39 was the same in 2012 as in 2003.

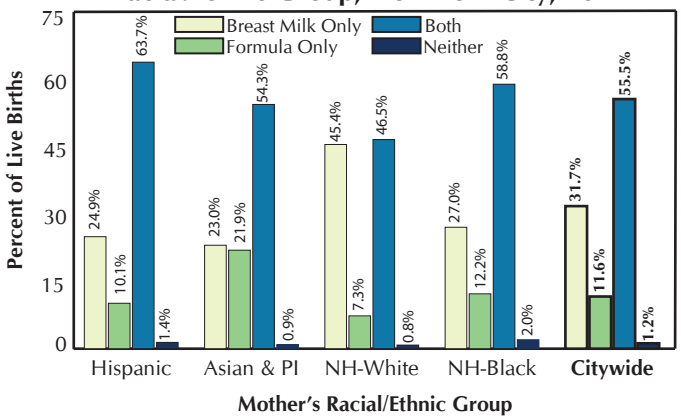
Figure 21. Percent Multiple Live Births (Twins or Higher) by Community District of Residence, New York City, 2012



- In 2012, the community districts with the highest percentages of multiple live births were Upper West Side (7.8%), Murray Hill (7.4%), Battery Park/Tribeca (6.7%), Upper East Side (6.3%), and Park Slope (5.4%).
- In 2012, the community districts with the lowest percentages of multiple live births were Mott Haven (1.4%), Howard Beach (1.7%), Sunset Park (1.8%), Williamsbridge (2.1%), and East Flatbush, Jamaica/St. Albans, and University/Morris Heights (2.3 % each).

BREASTFEEDING

Figure 22. Percent of Infants Fed Breastmilk or Formula within 5 Days of Birth by Mother's Racial/Ethnic Group, New York City, 2012



- Citywide, the majority of infants born in 2012 (87.2%) were fed some breastmilk within the first 5 days of life; 31.7% were fed exclusively breastmilk.
- Breast feeding data reported on the birth certificate can only include information through the first 5 days of life. New York City births must be filed with the Department within five business days of the event.
- Non-Hispanic whites were most likely to feed their infants exclusively breastmilk (45.4%) and Asians and Pacific Islanders were most likely to feed their infants solely formula (21.9%).

- Teenage mothers (<20 years) were least likely to exclusively breastfeed (20.3%) during the infant's first 5 days of life in comparison to all other maternal age groups (range: 27.7% to 36.2%).

Figure 23. Percent of Infants Fed Breastmilk or Formula within 5 Days of Birth by Mother's Age Group, New York City, 2012

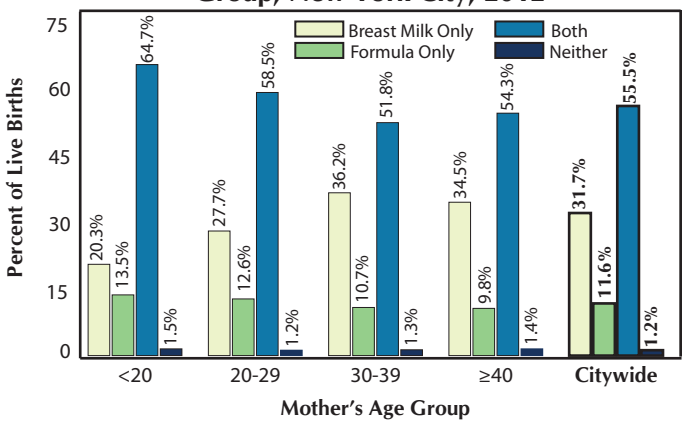
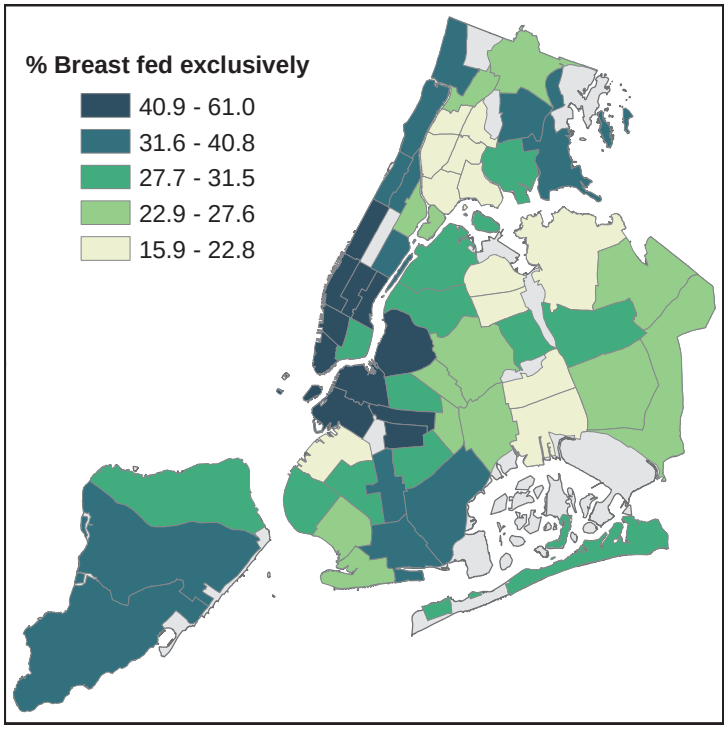


Figure 24. Percent of Infants Fed Breastmilk Exclusively within 5 Days of Birth by Community District of Residence, New York City, 2012



- In 2012, the community district with the smallest percentage of infants who were exclusively breastfed during the first 5 days of life was Elmhurst/Corona (15.9%) followed by Flushing (16.1%), Sunset Park (16.4%), Jackson Heights (18.4%), and Morrisania (19.6%).
- The community district with the largest percentage of infants exclusively breastfed was Park Slope (61.0%), followed by Chelsea/Clinton (55.7%), Murray Hill (55.5%), Battery Park/Tribeca (54.9%), and Midtown Business District (54.7%).

PRENATAL CARE

- Citywide, 6.8% of mothers received either late (3rd trimester) or no prenatal care in 2012.
- Non-Hispanic black mothers (11.8%) were more likely than other racial/ethnic groups to initiate prenatal care late or not at all compared to Hispanics (7.9%), Asians and Pacific Islanders (5.7%), and non-Hispanic whites (3.3%).

Figure 25. Percent of Mothers Who Received Late or No Prenatal Care by Mother's Racial/Ethnic Group, New York City, 2012

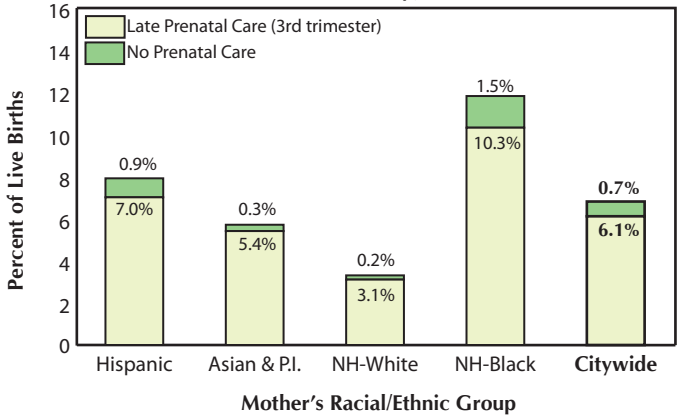
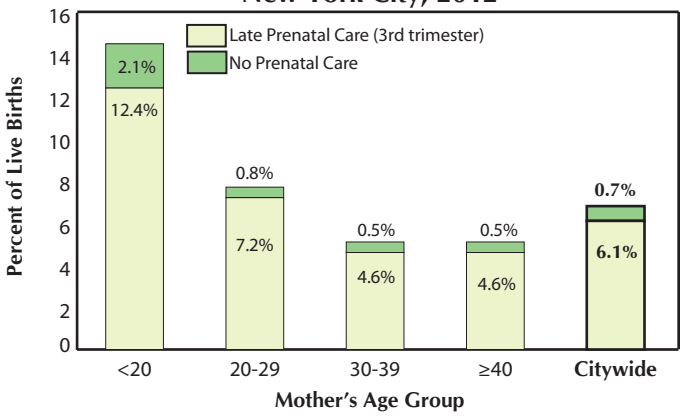


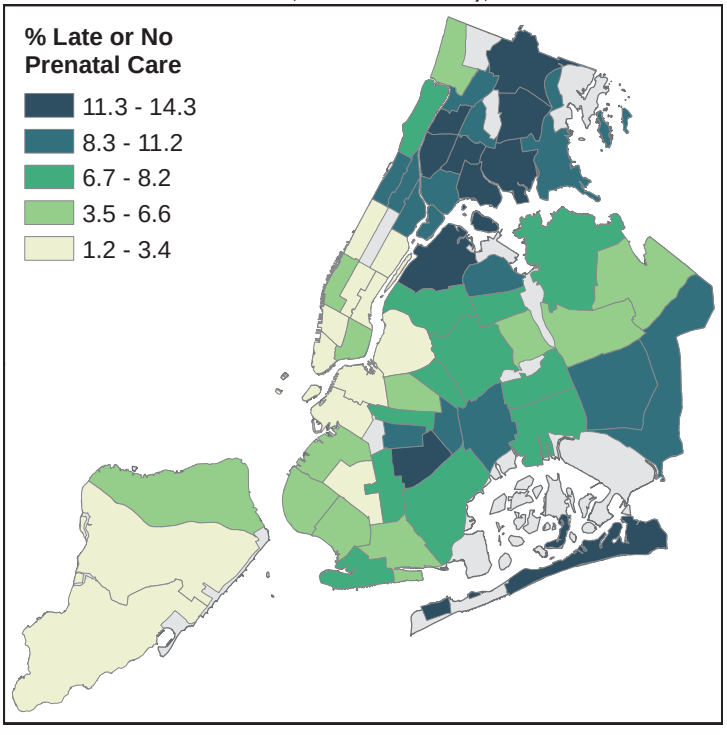
Figure 26. Percent of Mothers Who Received Late or No Prenatal Care by Mother's Age Group, New York City, 2012



- Teen mothers (<20 years of age) were more likely to receive late (12.4%) or no prenatal care (2.1%) than all other age groups.

- In 2012, the community district with the highest percentage of late or no prenatal care was Williamsbridge at 14.3%, followed by Hunts Point (14.2%), Unionport/Soundview (13.8%), Astoria/Long Island City (12.5%), and Morrisania (12.4%).
- The community districts with the lowest percentage of mothers who received late or no prenatal care were Tottenville (1.2%), Greenwich Village/SoHo (1.3%), Murray Hill and Battery Park/Tribeca (1.9% each), Park Slope (2.1%), and Upper East Side (2.2%).

Figure 27. Percent of Mothers Who Received Late or No Prenatal Care by Community District of Residence, New York City, 2012



NEIGHBORHOOD POVERTY

Table 2. Characteristics of Birth and Pregnancy Outcomes by Neighborhood Poverty*, New York City, 2003, 2012

	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
Birth Charteristics	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)
Births	25,611	22,282	15	30,373	28,371	7	25,741	26,836	-4	31,723	36,265	-13
Population	2,390,191	2,089,989	14	2,414,452	2,250,518	7	1,730,680	1,731,982	0	1,801,375	2,001,789	-10
Birth Rate (per 1,000 population)	10.7	10.7	0.0	12.6	12.6	0.0	14.9	15.5	-3.9	17.6	18.1	-2.8
Preterm Live Births (%)	8.3	9.1	-8.8	8.9	9.1	-2.2	9.0	9.2	-2.2	9.4	10.0	-6.0
Low Birth Weight (%)	7.8	8.1	-3.7	8.2	8.2	0.0	8.1	8.2	-1.2	8.8	9.1	-3.3
Body Mass Indicator‡												
Normal (%)	63.6	-	-	55.8	-	-	50.7	-	-	47.4	-	-
Overweight/Obese (%)	29.9	-	-	38.1	-	-	44.0	-	-	47.0	-	-
C-section (%)**	34.3	31.0	**	33.6	27.4	**	32.5	25.1	**	29.3	23.9	**
Multiple Births (%)	4.9	5.0	-2.0	3.5	3.3	6.1	2.9	2.8	3.6	2.9	2.7	7.4
Breastfed Only (%)‡	40.6	-	-	32.1	-	-	27.9	-	-	24.8	-	-
Late or No Prenatal Care	4.3	3.7	16.2	7.2	7.1	1.4	8.2	7.7	6.5	8.5	7.7	10.4
Foreign Born (%)	45.1	40.6	11.1	60.4	64.4	-6.2	59.7	63.6	-6.1	45.5	48.2	-5.6

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

† Summary of Vital Statistics 2012, Appendix B. Technical Notes. Neighborhood Poverty. Neighborhood poverty (based on census tract) defined as percent of residents with incomes below 100% of the Federal Poverty Level, per Census 2010.

‡Prior to 2008, data needed to compute these variables were not collected on the New York City certificate of birth.

** 2003 C-section data is not comparable to 2012 due to 2008 birth certificate revisions. Historical Technical Notes: Births.

- Neighborhood poverty disparities are presented in the 2012 Summary of Vital Statistics for the first time. 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 one of four neighborhood poverty categories based on the percent of the census tract population living below the federal poverty level: ≥30% below poverty, 20-29% below poverty, 10-19% below poverty, or <10% 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.
- In New York City, neighborhoods with higher percentages of population living below the federal poverty level have higher birth rates; ranging from 17.6 births per 1,000 population in very high poverty neighborhoods (≥30%) to 10.7 births in low poverty neighborhoods (<10%).
- Numerous characteristics of birth correlate with the percentage of neighborhood population living below poverty. Neighborhoods with a higher percentage of population living below the federal poverty level have more preterm births, low birthweight newborns, pre-pregnancy overweight/obese mothers, and mothers who have late or no prenatal care. Neighborhoods with a higher percent of population living below the federal poverty level also have fewer multiple births, breastfed only babies, C-sections, and pre-pregnancy normal weight mothers.
- From 2003 to 2012, birth rates within the low and medium poverty neighborhoods remained unchanged and decreased 3.9% and 2.8% within the high and very high poverty neighborhoods respectively. The percentage of preterm and low birthweight infants decreased from 2003 to 2012 within all poverty level neighborhoods, whereas the percent of infants born to mothers with late or no prenatal care increased slightly within all poverty level neighborhoods.
- Foreign-born mothers contributed 60.4% of births in medium poverty neighborhoods, followed by 59.7% in high, 45.5% in very high, and 45.1% in low poverty.

SUMMARY OF VITAL STATISTICS
2012
THE CITY OF NEW YORK
Appendix A

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

BUREAU OF VITAL STATISTICS, NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
125 WORTH STREET, CN 7, NEW YORK, NEW YORK, 10013

JANUARY 2014
REVISED MARCH 2014

APPENDIX TABLE OF CONTENTS

APPENDIX TABLE OF CONTENTS (CONTINUED)

POPULATION CHARACTERISTICS

Table PC1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2012

Year	Population	Live Births		Fertility Rates	Marriages‡		Deaths		Infant Mortality	
		Total Reported*	Rate per 1,000 Population	Per 1,000 Women Aged 15-44	Total Reported*	Rate per 1,000 Population	Total Reported*	Rate per 1,000 Population	Deaths Under One Year*	Rate per 1,000 Live Births
1898-1900	3,358,000	119,000	35.4		30,535	9.1	67,503	20.1	16,264	136.7
1901-1905	3,786,000	129,000	34.1		37,988	10.0	71,689	18.9	15,611	121
1906-1910	4,473,000	144,000	32.2		44,966	10.1	75,865	17.0	16,609	115.3
1911-1915	5,049,000	140,581	27.8		51,157	10.1	74,666	14.8	14,060	100
1916-1920	5,492,000	136,101	24.8		59,081	10.8	80,435	14.6	12,004	88.2
1921-1925	6,175,000	130,462	21.1		62,710	10.2	69,303	11.2	8,985	68.9
1926-1930	6,703,000	125,590	18.7		62,278	9.3	75,395	11.2	7,662	61.0
1931-1935	7,101,000	106,179	15.0		63,273	8.9	75,561	10.6	5,521	52.0
1936-1940	7,363,000	102,418	13.9		69,184	9.4	76,065	10.3	4,079	39.8
1941-1945	7,597,000	126,495	16.7		76,086	10.0	78,382	10.3	3,525	27.9
1946-1950	7,815,000	158,926	20.3		90,914	11.6	79,708	10.2	4,139	26.0
1951-1955	7,867,000	163,526	20.8		71,689	9.1	80,583	10.2	3,986	24.4
1956-1960	7,806,000	166,949	21.4		68,281	8.7	84,290	10.8	4,290	25.7
1961	7,793,000	168,383	21.6		66,258	8.5	86,855	11.1	4,307	25.6
1962	7,805,000	165,244	21.2		65,512	8.4	87,089	11.2	4,510	27.3
1963	7,816,000	167,848	21.5		67,886	8.7	88,621	11.3	4,334	25.8
1964	7,828,000	165,695	21.2		70,053	8.9	88,026	11.2	4,438	26.8
1965	7,839,000	158,815	20.3		71,880	9.2	87,395	11.1	4,076	25.7
1961-1965	7,816,200	165,197	21.1		68,318	8.7	87,597	11.2	4,333	26.2
1966	7,850,000	153,335	19.5		66,689	8.5	88,418	11.3	3,819	24.9
1967	7,862,000	145,802	18.5		68,876	8.8	87,610	11.1	3,489	23.9
1968	7,873,000	141,920	18.0		73,307	9.3	91,169	11.6	3,282	23.1
1969	7,885,000	146,221	18.5		75,220	9.5	88,535	11.2	3,563	24.4
1970	7,894,862	149,192	18.9		74,174	9.4	88,161	11.2	3,230	21.6
1966-1970	7,872,972	147,294	18.7		71,653	9.1	88,779	11.3	3,477	23.6
1971	7,832,000	131,920	16.8		73,810	9.4	86,724	11.1	2,751	20.9
1972	7,731,000	117,088	15.1		73,253	9.5	85,363	11.0	2,321	19.8
1973	7,648,000	110,639	14.5		70,104	9.2	82,319	10.8	2,206	19.9
1974	7,566,000	110,642	14.6		61,925	8.2	79,846	10.6	2,175	19.7
1975	7,484,000	109,418	14.6		59,591	8	76,312	10.2	2,110	19.3
1976	7,401,000	109,995	14.9		55,829	7.5	77,538	10.5	2,092	19.0
1977	7,318,000	110,486	15.1		52,804	7.2	75,011	10.3	1,971	17.8
1978	7,236,000	106,720	14.7		54,247	7.5	73,081	10.1	1,827	17.1
1979	7,154,000	106,021	14.8		58,532	8.2	72,079	10.1	1,767	16.7
1980	7,071,639	107,066	15.1	63.6	58,637	8.3	76,625	10.8	1,719	16.1
1981	7,097,000	108,547	15.3	63.9	61,775	8.7	73,329	10.3	1,678	15.5
1982	7,122,000	111,487	15.7	65.1	66,619	9.4	73,083	10.3	1,706	15.3
1983	7,147,000	112,353	15.7	65.1	68,164	9.5	73,544	10.3	1,603	14.3
1984	7,172,000	113,332	15.8	65.1	76,336	10.6	74,278	10.4	1,540	13.6
1985	7,197,000	118,542	16.5	67.6	77,897	10.8	74,852	10.4	1,591	13.4
1986	7,222,000	122,108	16.9	69.0	82,199	11.4	75,702	10.5	1,566	12.8
1987	7,247,000	127,386	17.6	71.5	76,194	10.5	76,448	10.5	1,673	13.1
1988	7,272,000	132,226	18.2	73.6	74,137	10.2	77,817	10.7	1,770	13.4
1989	7,297,000	137,673	18.9	76.0	69,758	9.6	75,957	10.4	1,827	13.3
1990	7,322,564	139,630	19.1	76.5	71,301	9.7	73,875	10.1	1,620	11.6
1991	7,388,000	138,148	18.7	75.3	69,314	9.4	72,421	9.8	1,575	11.4
1992	7,455,000	136,002	18.2	73.8	71,947	9.7	71,001	9.5	1,390	10.2
1993	7,522,000	133,583	17.8	72.1	72,490	9.6	73,408	9.8	1,366	10.2
1994	7,590,000	133,662	17.6	71.8	70,438	9.3	71,038	9.4	1,207	9.0
1995	7,658,000	131,009	17.1	70.1	71,507	9.3	70,769	9.2	1,155	8.8
1996	7,727,000	126,901	16.4	67.5	79,361	10.3	66,784	8.6	992	7.8
1997	7,796,000	123,313	15.8	65.3	80,027	10.3	62,506	8.0	881	7.1
1998	7,866,000	124,252	15.8	65.5	53,661	6.8	61,010	7.8	843	6.8
1999	7,937,000	123,739	15.6	64.9	55,075	6.9	62,470	7.9	848	6.9
2000	8,008,278	125,563	15.7	65.5	58,291	7.3	60,839	7.6	839	6.7
2001†	8,060,000	124,023	15.4	64.5	72,587	9.0	62,964	7.8	760	6.1
2001†	8,060,000	Excluding World Trade Center disaster deaths					60,218	7.5		
2002†	8,072,000	122,937	15.2	64.1	65,490	8.1	59,651	7.4	742	6.0
2003†	8,068,000	124,345	15.4	65.1	61,101	7.6	59,213	7.3	807	6.5
2004†	8,043,000	124,099	15.4	65.3	62,057	7.7	57,466	7.1	760	6.1
2005†	8,013,000	122,725	15.3	65.0	66,348	8.3	57,068	7.1	732	6.0
2006†	7,994,000	125,506	15.7	66.6	65,619	8.2	55,391	6.9	740	5.9
2007	8,014,000	128,961	16.1	68.4	66,483	8.3	54,073	6.7	697	5.4
2008	8,068,000	127,680	15.8	67.3	66,670	8.3	54,193	6.7	698	5.5
2009	8,132,000	126,774	15.6	66.5	65,542	8.1	52,881	6.5	668	5.3
2010	8,175,133	124,791	15.3	65.3	67,051	8.2	52,575	6.4	609	4.9
2011	8,244,910	123,029	14.9	64.5	71,401	8.7	52,789	6.4	577	4.7
2012	8,336,697	123,231	14.8	64.1	74,362	8.9	52,455	6.3	583	4.7

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

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

‡ See Technical Notes: Vital Event Reporting.

Table PC2. Population Estimates by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2012

Age in	All			Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Multiple Race		
Years	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Ages	8,336,697	3,972,371	4,364,326	2,406,889	1,168,292	1,238,597	2,757,628	1,339,445	1,418,183	1,900,419	855,269	1,045,150	1,124,558	540,227	584,331	147,203	69,138	78,065
Under 5	544,892	278,672	266,220	190,160	97,069	93,091	151,067	77,421	73,646	122,077	62,106	59,971	61,945	31,978	29,967	19,643	10,098	9,545
5-9	482,213	246,547	235,666	170,339	86,991	83,348	127,103	65,436	61,667	114,121	57,809	56,312	57,700	29,810	27,890	12,950	6,501	6,449
10-14	464,739	237,030	227,709	165,590	84,543	81,047	110,332	56,947	53,385	122,297	61,443	60,854	55,759	28,628	27,131	10,761	5,469	5,292
15-19	496,237	250,813	245,424	181,370	92,463	88,907	113,351	57,135	56,216	132,161	66,003	66,158	59,281	30,281	29,000	10,074	4,931	5,143
20-24	646,005	316,963	329,042	213,644	110,420	103,224	179,459	84,459	95,000	154,453	75,043	79,410	86,415	41,383	45,032	12,034	5,658	6,376
25-29	756,643	363,488	393,155	209,486	107,382	102,104	282,375	133,700	148,675	141,464	65,382	76,082	109,659	50,994	58,665	13,659	6,030	7,629
30-34	694,963	337,884	357,079	198,143	99,875	98,268	247,988	125,080	122,908	131,831	59,038	72,793	105,236	48,630	56,606	11,765	5,261	6,504
35-39	587,468	286,026	301,442	173,015	86,185	86,830	193,420	100,082	93,338	119,518	52,347	67,171	91,937	43,064	48,873	9,578	4,348	5,230
40-44	574,299	279,100	295,199	167,555	82,187	85,368	179,654	93,997	85,657	130,434	57,160	73,274	87,710	41,635	46,075	8,946	4,121	4,825
45-49	560,192	269,767	290,425	158,992	75,514	83,478	166,758	87,524	79,234	142,242	62,438	79,804	83,586	40,254	43,332	8,614	4,037	4,577
50-54	547,728	259,160	288,568	143,722	66,235	77,487	176,328	89,127	87,201	140,124	61,509	78,615	79,615	38,672	40,943	7,939	3,617	4,322
55-59	501,130	231,435	269,695	121,212	53,901	67,311	178,725	87,308	91,417	121,548	51,636	69,912	73,173	35,613	37,560	6,472	2,977	3,495
60-64	434,872	196,037	238,835	98,252	42,719	55,533	172,474	81,098	91,376	99,798	41,585	58,213	59,299	28,442	30,857	5,049	2,193	2,856
65-69	327,798	142,952	184,846	74,006	30,966	43,040	135,651	62,234	73,417	76,191	30,235	45,956	38,516	18,038	20,478	3,434	1,479	1,955
70-74	244,093	102,663	141,430	53,802	21,637	32,165	102,494	45,430	57,064	56,671	21,304	35,367	28,668	13,249	15,419	2,458	1,043	1,415
75-79	182,556	74,356	108,200	38,860	14,644	24,216	81,215	35,227	45,988	39,949	14,285	25,664	20,873	9,537	11,336	1,659	663	996
80-84	140,572	52,573	87,999	26,319	9,070	17,249	72,374	28,910	43,464	27,280	8,530	18,750	13,573	5,699	7,874	1,026	364	662
85 & Over	150,297	46,905	103,392	22,422	6,491	15,931	86,860	28,330	58,530	28,260	7,416	20,844	11,613	4,320	7,293	1,142	348	794

Data Source: US Census Bureau, population estimates, 2012.

Table PC3. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2012

	Number				Average Per Day			
Months	Marriages*	Births	Deaths	Infant Deaths	Marriages	Births	Deaths	Infant Deaths
January	4,679	10,057	4,664	38	151	324	150	1.2
February	5,453	9,396	4,168	44	188	324	144	1.5
March	6,008	9,908	4,424	59	194	320	143	1.9
April	6,438	9,379	4,356	50	215	313	145	1.7
May	7,200	10,190	4,275	50	232	329	138	1.6
June	7,029	10,124	4,053	38	234	337	135	1.3
July	6,808	10,502	4,172	53	220	339	135	1.7
August	7,715	11,036	4,170	53	249	356	135	1.7
September	6,334	10,713	4,115	43	211	357	137	1.4
October	5,791	10,855	4,515	54	187	350	146	1.7
November	5,094	10,566	4,618	51	170	352	154	1.7
December	5,813	10,505	4,925	50	188	339	159	1.6
Total	74,362	123,231	52,455	583	203	337	143	1.6

* See Technical Notes: Vital Event Reporting.

Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2012

Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		ICD-10/ICD-9 Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Nonresidents	Residence Unknown	Male	Female	
Total Deaths	52,455	9,238	8,649	15,050	12,184	3,319	3,896	119	25,667	26,788	
Natural Causes	49,476	8,722	8,138	14,265	11,569	3,081	3,615	86	23,518	25,958	
1.* Tuberculosis (A16-A19)	16	4	1	6	5	–	–	–	8	8	0.88
Respiratory tuberculosis (A16)	13	2	–	6	5	–	–	–	7	6	0.94
2.* Septicemia (A40-A41)	451	51	101	156	103	17	22	1	209	242	1.19
3.* Viral Hepatitis (B15-B19)	396	66	99	90	72	19	48	2	249	147	0.71
4.* Human Immunodeficiency Virus (HIV) Disease (B20-B24)	609	108	173	213	62	19	32	2	402	207	1.08
5. All Other Infective and Parasitic Diseases (Rest of A01-B99)	470	77	71	146	127	22	27	–	196	274	
6.* Malignant Neoplasms (C00-C97)	13,405	2,409	2,031	3,720	2,964	779	1,487	15	6,583	6,822	1.01
Lip, oral cavity, and pharynx (C00-C14)	211	41	27	63	42	14	23	1	141	70	0.96
Esophagus (C15)	225	47	39	55	42	14	28	–	160	65	0.99
Stomach (C16)	475	59	79	142	139	18	38	–	259	216	1.01
Colon, rectum, and anus (C18-C21)	1,380	218	236	407	322	78	117	2	663	717	1.00
Liver and intrahepatic bile ducts (C22)	706	129	143	172	144	45	71	2	480	226	0.96
Pancreas (C25)	1,020	179	142	306	216	59	117	1	490	530	1.00
Larynx (C32)	96	14	34	20	20	3	5	–	76	20	1.01
Trachea, bronchus, and lung (C33-C34)	2,887	527	438	826	626	199	267	4	1,585	1,302	0.98
Melanoma of skin (C43)	164	35	19	39	30	8	33	–	90	74	0.95
Mesothelioma (C45)	33	6	2	6	11	2	6	–	25	8	
Breast (C50)	1,127	208	178	338	232	56	113	2	5	1,122	1.01
Cervix uteri (C53)	134	21	20	45	33	8	7	–	–	134	1.00
Corpus uteri and uterus, part unspecified (C54-C55)	323	62	59	99	59	14	30	–	–	323	1.02
Ovary (C56)	380	73	25	110	96	30	46	–	–	380	0.99
Prostate (C61)	681	135	103	210	161	26	46	–	681	–	1.01
Kidney and renal pelvis (C64-C65).	214	30	45	51	46	16	26	–	133	81	1.00
Bladder (C67)	338	66	40	81	87	26	37	1	227	111	1.00
Meninges, brain, and other parts of central nervous system (C70-C72)	284	42	35	73	68	14	52	–	134	150	0.98
Lymphoid, hematopoietic and related tissues (C81-C96)	1,314	252	171	294	276	71	250	–	726	588	1.00
Hodgkin's disease (C81)	30	11	2	5	5	–	7	–	16	14	1.00
Non-Hodgkin's lymphoma (C82-C85)	487	86	69	111	96	35	90	–	269	218	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90)	265	54	49	60	53	11	38	–	135	130	1.04
Leukemia (C91-C95)	528	101	51	116	122	25	113	–	303	225	1.01
7.* In Situ or Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior (D00-D48)	246	49	37	65	42	14	38	1	124	122	1.63
8.* Anemias (D50-D64)	76	11	15	24	12	6	7	1	31	45	0.94
9.* Diabetes Mellitus (E10-E14)	1,813	265	321	639	399	98	88	3	883	930	1.02
10.† Mental and Behavioral Disorders Due to Use of Alcohol (F10)	231	44	52	64	51	8	8	4	187	44	
11. Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco (F11-F16, F18-F19) ‡	152	26	70	21	14	9	8	4	100	52	
12. Diseases of Nervous System (G00-G98)	1,348	347	249	288	321	71	70	2	545	803	
* Meningitis (G00,G03)	22	5	3	7	3	–	4	–	16	6	1.01
* Parkinson's disease (G20-G21)	242	71	31	43	74	9	14	–	128	114	1.01
* Alzheimer's disease (G30)	696	200	135	140	161	37	22	1	208	488	1.58
13. Major Cardiovascular Diseases (I00-I78)	19,808	3,267	3,146	5,900	4,951	1,405	1,100	39	9,270	10,538	1.00
* Diseases of heart (I00-I09, I11, I13, I20-I51)	16,732	2,674	2,650	5,025	4,192	1,256	899	36	7,955	8,777	0.99
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	43	11	2	12	7	2	9	–	12	31	0.88
Hypertensive heart disease (I11)	1,812	355	344	612	317	110	70	4	883	929	0.80
Hypertensive heart and renal disease (I13)	146	19	45	35	32	8	7	–	79	67	1.13
Chronic ischemic heart disease (I20, I25)	10,962	1,622	1,680	3,181	3,114	808	534	23	5,155	5,807	1.01
Acute myocardial infarction (I21-I22)	2,246	363	358	767	385	250	118	5	1,082	1,164	0.99
Cardiomyopathy (I42)	145	19	23	36	37	5	24	1	97	48	

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, 2012 (Continued)

	Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		ICD-10/ICD-9 Comparability Ratio
			Manhattan	Bronx	Brooklyn	Queens	Staten Island	Nonresidents	Residence Unknown	Male	Female	
	Heart failure (I50)	370	84	55	106	95	11	18	1	192	178	1.04
*	Essential hypertension and hypertensive renal disease (I10, I12, I15)	980	206	165	310	203	38	57	1	418	562	1.12
*	Cerebrovascular diseases (I60-I69)	1,647	307	242	445	449	91	112	1	671	976	1.05
*	Atherosclerosis (I70)	172	28	51	41	45	3	4	–	69	103	0.97
*	Aortic aneurysm and dissection (I71)	178	33	24	48	42	11	20	–	119	59	1.00
14.*	Influenza and Pneumonia (J09-J18)	2,245	353	405	734	535	128	89	1	1,079	1,166	0.70
15.*	Chronic Lower Respiratory Diseases (J40-J47)	1,651	320	281	447	389	145	68	1	734	917	1.04
	Emphysema (J43)	142	40	28	33	28	6	6	1	73	69	0.96
	Asthma (J45-J46)	166	31	46	55	27	4	3	–	85	81	0.89
16.	Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)	2	–	1	–	1	–	–	–	2	–	
17.*	Pneumonitis Due to Solids and Liquids (J69)	32	9	7	8	6	1	–	1	20	12	1.10
18.*	Peptic Ulcer (K25-K28)	88	16	11	26	18	9	6	2	50	38	0.97
19.*	Chronic Liver Disease and Cirrhosis (K70, K73-K74)	534	79	104	149	117	32	50	3	364	170	1.03
	Alcoholic liver disease (K70)	360	59	75	86	83	23	31	3	261	99	1.00
20.*	Cholelithiasis and Other Disorders of Gallbladder (K80-K82)	70	11	16	22	11	5	5	–	33	37	0.96
21.*	Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)	461	74	58	164	106	34	25	–	231	230	1.26
	Renal failure (N17-N19)	446	73	55	158	102	34	24	–	222	224	1.33
22.*	Pregnancy, Childbirth, and the Puerperium (O00-O99)	29	3	11	7	6	1	1	–	–	29	1.14
	Maternal causes|| (A34, O00-O95, O98-O99)	23	3	7	6	6	1	–	–	–	23	
23.*	Certain Conditions Originating in the Perinatal Period (P00-P96)	319	30	68	95	77	15	33	1	178	141	1.08
24.*	Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)	247	26	47	58	62	10	43	1	129	118	0.90
25.	Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)	424	176	40	110	64	16	17	1	175	249	0.98
	Pending final determination (R99)	0	–	–	–	–	–	–	–	–	–	
26.	Sudden Infant Death Syndrome (R95)	4	–	1	1	2	–	–	–	1	3	1.06
27.	All Other Natural Causes (Rest of A00-R99)	4,349	901	722	1,112	1,052	218	343	1	1,735	2,614	
External Causes		2,979	516	511	785	615	238	281	33	2,149	830	
	Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)	322	26	75	107	69	10	35	–	302	20	1.00
28.†	Accidents (V01-X59,Y85-Y86)	1,694	282	279	441	338	171	166	17	1,193	501	1.03
	Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) ‡	660	123	122	179	101	70	59	6	492	168	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) ‡	812	149	192	200	115	79	67	10	592	220	
†	Accidents except poisoning by psychoactive substance use	1,034	159	157	262	237	101	107	11	701	333	
	Motor vehicle accidents ¶	315	37	48	89	72	20	47	2	219	96	0.95
	Accidental falls (W00-W19)	384	71	50	102	96	28	36	1	232	152	0.77
29.*	Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)	557	132	78	118	143	33	51	2	394	163	1.00
30.*	Assault (Homicide) (U01-U02, X85-Y09, Y87.1)	440	53	115	138	81	13	39	1	374	66	1.00
31.*	Legal Intervention (Y35, Y89.0)	14	2	3	4	3	.	2	.	13	1	0.94
32.	Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	241	41	33	72	43	19	20	13	165	76	0.99
33.*	Complications of Medical and Surgical Care (Y40-Y84, Y88)	33	6	3	12	7	2	3	–	10	23	0.63
34.*	Operations of War and Their Sequelae (Y36,Y89.1)	0	–	–	–	–	–	–	–	–	–	

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

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

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

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

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

Table M2. Deaths and Death Rates per 1,000 Population* by Age, Ethnic Group, and Sex, New York City, 2012

Age in Years	All						Hispanic						Non-Hispanic White						Non-Hispanic Black						Asian and Pacific Islander						Other/Multiple Race/ Unknown		
	Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total	Male	Female
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	No.	No.
All Ages	52,455	6.3	25,667	6.5	26,788	6.1	9,420	3.9	4,846	4.1	4,574	3.7	24,904	9.0	12,035	9.0	12,869	9.1	13,864	7.3	6,480	7.6	7,384	7.1	3,446	3.1	1,856	3.4	1,590	2.7	821	450	371
Age-Adjusted		6.0		7.4		5.0		5.2		6.7		4.3		6.1		7.4		5.1		7.4		9.2		6.2		3.8		4.6		3.2			
Under 5	672	1.2	367	1.3	305	1.1	180	0.9	107	1.1	73	0.8	145	1.0	81	1.0	64	0.9	237	1.9	119	1.9	118	2.0	59	1.0	33	1.0	26	0.9	51	27	24
5-9	61	0.1	35	0.1	26	0.1	19	0.1	8	0.1	11	0.1	17	0.1	11	0.2	6	0.1	20	0.2	12	0.2	8	0.1	3	0.1	3	0.1	-	0.0	2	1	1
10-14	67	0.1	34	0.1	33	0.1	17	0.1	6	0.1	11	0.1	16	0.1	7	0.1	9	0.2	28	0.2	18	0.3	10	0.2	5	0.1	3	0.1	2	0.1	1	-	1
15-19	154	0.3	106	0.4	48	0.2	53	0.3	32	0.3	21	0.2	18	0.2	12	0.2	6	0.1	68	0.5	52	0.8	16	0.2	13	0.2	8	0.3	5	0.2	2	2	-
20-24	400	0.6	299	0.9	101	0.3	113	0.5	92	0.8	21	0.2	112	0.6	79	0.9	33	0.3	151	1.0	118	1.6	33	0.4	18	0.2	5	0.1	13	0.3	6	5	1
25-29	434	0.6	311	0.9	123	0.3	124	0.6	93	0.9	31	0.3	123	0.4	90	0.7	33	0.2	154	1.1	104	1.6	50	0.7	26	0.2	19	0.4	7	0.1	7	5	2
30-34	501	0.7	350	1.0	151	0.4	139	0.7	98	1.0	41	0.4	144	0.6	112	0.9	32	0.3	175	1.3	114	1.9	61	0.8	37	0.4	23	0.5	14	0.2	6	3	3
35-39	626	1.1	386	1.3	240	0.8	179	1.0	120	1.4	59	0.7	182	0.9	124	1.2	58	0.6	201	1.7	106	2.0	95	1.4	49	0.5	26	0.6	23	0.5	15	10	5
40-44	932	1.6	585	2.1	347	1.2	222	1.3	150	1.8	72	0.8	277	1.5	174	1.9	103	1.2	346	2.7	204	3.6	142	1.9	60	0.7	38	0.9	22	0.5	27	19	8
45-49	1,624	2.9	951	3.5	673	2.3	388	2.4	262	3.5	126	1.5	455	2.7	275	3.1	180	2.3	640	4.5	320	5.1	320	4.0	96	1.1	62	1.5	34	0.8	45	32	13
50-54	2,436	4.4	1,506	5.8	930	3.2	543	3.8	324	4.9	219	2.8	803	4.6	531	6.0	272	3.1	876	6.3	509	8.3	367	4.7	167	2.1	112	2.9	55	1.3	47	30	17
55-59	3,214	6.4	1,920	8.3	1,294	4.8	701	5.8	438	8.1	263	3.9	1,141	6.4	691	7.9	450	4.9	1,094	9.0	610	11.8	484	6.9	217	3.0	144	4.0	73	1.9	61	37	24
60-64	3,996	9.2	2,397	12.2	1,599	6.7	789	8.0	486	11.4	303	5.5	1,574	9.1	998	12.3	576	6.3	1,296	13.0	693	16.7	603	10.4	268	4.5	175	6.2	93	3.0	69	45	24
65-69	4,252	13.0	2,450	17.1	1,802	9.7	840	11.4	480	15.5	360	8.4	1,728	12.7	1,011	16.2	717	9.8	1,335	17.5	738	24.4	597	13.0	277	7.2	171	9.5	106	5.2	72	50	22
70-74	4,713	19.3	2,499	24.3	2,214	15.7	910	16.9	493	22.8	417	13.0	2,017	19.7	1,118	24.6	899	15.8	1,391	24.5	662	31.1	729	20.6	316	11.0	184	13.9	132	8.6	79	42	37
75-79	5,451	29.9	2,726	36.7	2,725	25.2	1,056	27.2	523	35.7	533	22.0	2,510	30.9	1,301	36.9	1,209	26.3	1,418	35.5	636	44.5	782	30.5	384	18.4	220	23.1	164	14.5	83	46	37
80-84	6,626	47.1	3,154	60.0	3,472	39.5	1,090	41.4	487	53.7	603	35.0	3,625	50.1	1,822	63.0	1,803	41.5	1,382	50.7	583	68.3	799	42.6	455	33.5	228	40.0	227	28.8	74	34	40
≥85	16,295	108.4	5,591	119.2	10,704	103.5	2,057	91.7	647	99.7	1,410	88.5	10,017	115.3	3,598	127.0	6,419	109.7	3,052	108.0	882	118.9	2,170	104.1	996	85.8	402	93.1	594	81.4	173	62	111
Unknown	1	-	0	-	1	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	1	0	1
Mean age at death	72.6		68.8		76.2		68.1		63.9		72.6		77.1		73.5		80.4		68.1		64.1		71.7		71.9		69.2		75.0		64.8	61.7	68.6
Median age at death	77		72		81		72		67		77		81		77		84		71		66		75		76		72		80		69	65	75

* Population data are from US Census Bureau estimates for July 1, 2012.

Table M3. Deaths by Ancestry* and Borough of Residence, New York City, 2012

Ancestry	Total	Borough of Residence						Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Nonresidents	
Total	52,455	9,238	8,649	15,050	12,184	3,319	3,896	119
Hispanic								
Colombian	277	25	13	21	193	9	15	1
Cuban	428	134	67	59	141	6	20	1
Dominican	1,803	640	644	240	217	8	54	–
Ecuadorian	371	48	67	50	178	7	20	1
Mexican	294	39	53	98	70	22	11	1
Puerto Rican	5,049	974	2,103	1,211	459	126	171	5
Other Hispanic	1,198	166	221	364	329	35	71	12
Non-Hispanic American and Caribbean								
African American	10,091	1,914	2,365	3,412	1,760	186	438	16
American.	10,731	2,791	1,000	2,024	2,546	808	1,560	2
Guyanese	720	13	86	266	331	3	21	–
Haitian	719	45	17	429	175	6	47	–
Jamaican	888	25	230	399	172	6	56	–
Trinidadian	222	13	20	120	61	1	7	–
Other Non-Hispanic American and Caribbean	946	62	116	537	155	12	61	3
European								
English	206	56	19	22	35	47	26	1
German	720	131	69	69	304	85	62	–
Irish	1,658	137	239	274	512	321	175	–
Italian	4,300	179	466	1,228	1,027	1,059	340	1
Polish	758	96	62	244	240	67	49	–
Russian	944	67	37	644	131	49	16	–
Other European	2,454	274	133	893	883	134	137	–
Asian								
Asian Indian	257	23	11	19	134	21	49	–
Bangladeshi	144	6	15	24	90	–	9	–
Chinese	2,101	613	36	675	680	44	53	–
Filipino	211	24	12	16	117	14	28	–
Korean	301	17	11	10	220	12	31	–
Pakistani	109	7	4	46	41	4	7	–
Other Asian	482	67	27	125	177	24	61	1
Other								
Jewish or Hebrew	1,655	152	101	988	229	35	149	1
Other or Not Stated	2,418	500	405	543	577	168	152	73

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

Table M4. Deaths by Place of Death*, New York City, 2008-2012

	2008		2009		2010		2011		2012	
Place of Death	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	54,193	100.0	52,881	100.0	52,575	100.0	52,789	100.0	52,455	100.0
Home	10,456	19.3	10,773	20.4	11,152	21.2	11,215	21.2	11,640	22.2
Hospital										
Voluntary	29,575	54.6	27,976	52.9	26,644	50.7	26,420	50.0	26,388	50.3
Proprietary	574	1.1	289	0.5	273	0.5	259	0.5	249	0.5
Municipal	4,621	8.5	4,671	8.8	4,560	8.7	4,605	8.7	4,217	8.0
Other Government	586	1.1	489	0.9	475	0.9	450	0.9	456	0.9
Nursing Home	6,479	12.0	6,421	12.1	5,822	11.1	8,072	15.3	8,637	16.5
Other Specified Place	1,902	3.5	2,262	4.3	3,649	6.9	1,768	3.3	868	1.7

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

Table M5. Deaths by Birthplace and Borough of Residence, New York City, 2012

Birthplace	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Total	52,455	9,238	8,649	15,050	12,184	3,319	3,896	119
United States & Territories	30,013	5,627	4,795	7,689	6,454	2,629	2,764	55
Puerto Rico	3,877	782	1,577	964	346	88	116	4
China	1,890	557	27	627	604	35	40	–
Dominican Republic	1,689	608	603	223	202	7	46	–
Jamaica	1,174	54	310	471	254	9	75	1
Ukraine	1,039	39	21	809	125	26	19	–
Italy	1,022	38	123	302	335	148	75	1
Guyana	772	13	92	299	340	4	24	–
Haiti	758	50	19	453	185	3	48	–
Poland	654	88	54	280	174	23	35	–
Trinidad and Tobago	514	33	37	286	135	3	20	–
Russia	503	63	26	288	91	21	14	–
Cuba	422	134	68	62	133	7	17	1
Germany	379	120	43	37	128	14	37	–
Ecuador	358	49	66	51	168	7	17	–
Greece	306	23	14	47	193	10	19	–
Colombia	271	26	12	20	189	10	13	1
Ireland	247	33	80	27	77	9	21	–
Barbados	242	14	25	165	32	–	6	–
Mexico	240	34	45	82	53	17	8	1
Philippines	239	29	13	22	126	19	30	–
India	234	21	9	16	120	22	46	–
Romania	228	18	16	74	108	1	11	–
Hungary	226	33	10	111	56	3	13	–
Panama	220	22	23	130	39	3	3	–
Other or Not Stated	4,938	730	541	1,515	1,517	201	379	55

MORTALITY

Table M6. Deaths by Birthplace and Age, New York City, 2012

		Age in Years									
Birthplace	Total	<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unknown
Total	52,455	800	554	935	1,558	4,060	7,210	8,965	12,077	16,295	1
United States & Territories	30,013	777	420	621	981	2,570	4,284	4,950	6,379	9,030	1
Puerto Rico	3,877	1	10	18	41	205	573	937	1,066	1,026	.
China	1,890	1	7	12	40	110	186	263	542	729	.
Dominican Republic	1,689	3	16	31	60	154	287	330	430	378	.
Jamaica	1,174	1	6	24	32	88	174	269	240	340	.
Ukraine	1,039	–	1	10	10	40	62	126	303	487	.
Italy	1,022	–	–	2	2	22	46	127	328	495	.
Guyana	772	1	3	9	33	62	141	168	201	154	.
Haiti	758	–	2	7	22	53	122	141	212	199	.
Poland	654	–	1	6	10	27	67	54	97	392	.
Trinidad and Tobago	514	–	4	11	16	71	90	118	112	92	.
Russia	503	–	4	5	8	18	49	83	114	222	.
Cuba	422	–	–	–	1	13	30	56	132	190	.
Germany	379	–	1	–	3	4	22	36	89	224	.
Ecuador	358	2	2	19	15	32	53	63	80	92	.
Greece	306	–	–	–	1	10	28	49	114	104	.
Colombia	271	–	3	3	5	16	38	57	73	76	.
Ireland	247	1	–	1	4	2	6	41	83	109	.
Barbados	242	–	1	3	2	13	40	37	61	85	.
Mexico	240	–	23	44	56	50	29	14	16	8	.
Philippines	239	–	1	6	10	17	48	51	55	51	.
India	234	–	1	5	8	33	42	68	50	27	.
Romania	228	–	2	1	2	5	22	26	53	117	.
Hungary	226	–	–	–	1	3	10	15	49	148	.
Panama	220	–	1	–	2	12	30	41	45	89	.
Other or Not Stated	4,938	13	45	97	193	430	731	845	1,153	1,431	.

MORTALITY

Table M7. Leading Causes of Death in Specified Age Groups, Overall and by Sex, New York City, 2012

		All		Male		Female	
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	16,732	31.9	7,955	31.0	8,777	32.8
2	Malignant Neoplasms	13,405	25.6	6,583	25.6	6,822	25.5
3	Influenza and Pneumonia	2,245	4.3	1,079	4.2	1,166	4.4
4	Diabetes Mellitus	1,813	3.5	883	3.4	930	3.5
5	Chronic Lower Respiratory Diseases	1,651	3.1	734	2.9	917	3.4
6	Cerebrovascular Diseases	1,647	3.1	671	2.6	976	3.6
7	Accidents Except Poisoning by Psychoactive Substance	1,034	2.0	701	2.7	333	1.2
8	Essential Hypertension and Hypertensive Renal Disease	980	1.9	418	1.6	562	2.1
9	Use of or Poisoning by Psychoactive Substance	812	1.5	592	2.3	220	0.8
10	Alzheimer's Disease	696	1.3	208	0.8	488	1.8
	All Other Causes	11,440	21.8	5,843	22.8	5,597	20.9
	Total	52,455	100.0	25,667	100.0	26,788	100.0
Rank	< 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	125	21.4	60	18.9	65	24.4
2	Short Gestation and Low Birthweight	119	20.4	63	19.9	56	21.1
3	Cardiovascular Disorders Originating in the Perinatal Period	75	12.9	41	12.9	34	12.8
4	External Causes	55	9.4	30	9.5	25	9.4
5	Newborn Affected by Complications of Placenta	22	3.8	13	4.1	9	3.4
6	Respiratory Distress of Newborn	15	2.6	12	3.8	3	1.1
7	Bacterial Sepsis of Newborn	10	1.7	6	1.9	4	1.5
7	Other Respiratory Conditions Originating in the Perinatal Period	10	1.7	4	1.3	6	2.3
9	Neonatal Hemorrhage	9	1.5	7	2.2	2	0.8
9	Necrotizing Enterocolitis of Newborn	9	1.5	5	1.6	4	1.5
	All Other Causes	134	23.0	76	24.0	58	21.8
	Total	583	100.0	317	100.0	266	100.0
Rank	1 - 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	42	19.4	18	15.1	24	24.5
2	Accidents Except Poisoning by Psychoactive Substance	31	14.3	20	16.8	11	11.2
3	Congenital Malformations, Deformations	26	12.0	17	14.3	9	9.2
4	Assault (Homicide)	19	8.8	14	11.8	5	5.1
5	Chronic Lower Respiratory Diseases	13	6.0	6	5.0	7	7.1
6	Diseases of Heart	12	5.5	7	5.9	5	5.1
7	Cerebrovascular Diseases	6	2.8	3	2.5	3	3.1
7	Influenza and Pneumonia	6	2.8	3	2.5	3	3.1
7	Intentional Self-harm (Suicide)	6	2.8	2	1.7	4	4.1
	All Other Causes	56	25.8	29	24.4	27	27.6
	Total	217	100.0	119	100.0	98	100.0
Rank	15 - 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	141	25.5	133	32.8	8	5.4
2	Accidents Except Poisoning by Psychoactive Substance	87	15.7	67	16.5	20	13.4
3	Intentional Self-harm (Suicide)	66	11.9	46	11.4	20	13.4
4	Malignant Neoplasms	51	9.2	27	6.7	24	16.1
5	Use of or Poisoning by Psychoactive Substance	48	8.7	40	9.9	8	5.4
6	Diseases of Heart	19	3.4	9	2.2	10	6.7
7	Congenital Malformations, Deformations	16	2.9	7	1.7	9	6.0
8	Chronic Lower Respiratory Diseases	15	2.7	11	2.7	4	2.7
9	Human Immunodeficiency Virus (HIV) Disease	11	2.0	5	1.2	6	4.0
10	Legal Intervention	7	1.3	6	1.5	1	0.7
	All Other Causes	93	16.8	54	13.3	39	26.2
	Total	554	100.0	405	100.0	149	100.0
Rank	25 - 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	147	15.7	118	17.9	29	10.6
2	Assault (Homicide)	133	14.2	120	18.2	13	4.7
3	Malignant Neoplasms	126	13.5	67	10.1	59	21.5
4	Accidents Except Poisoning by Psychoactive Substance	100	10.7	84	12.7	16	5.8
5	Intentional Self-harm (Suicide)	94	10.1	66	10.0	28	10.2
6	Diseases of Heart	62	6.6	48	7.3	14	5.1
7	Human Immunodeficiency Virus (HIV) Disease	34	3.6	24	3.6	10	3.6
8	Diabetes Mellitus	17	1.8	12	1.8	5	1.8
9	Pregnancy, Childbirth, and the Puerperium	16	1.7	-	-	16	5.8
10	Congenital Malformations, Deformations	13	1.4	8	1.2	5	1.8
	All Other Causes	193	20.6	114	17.2	79	28.8
	Total	935	100.0	661	100.0	274	100.0

Continued on next page.

MORTALITY

Table M7. Leading Causes of Death in Specified Age Groups, Overall and by Sex, New York City, 2012 (Continued)

Rank	35 - 44 YEARS	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	342	22.0	148	15.2	194	33.0
2	Diseases of Heart	209	13.4	156	16.1	53	9.0
3	Use of or Poisoning by Psychoactive Substance	170	10.9	122	12.6	48	8.2
4	Accidents Except Poisoning by Psychoactive Substance	94	6.0	81	8.3	13	2.2
5	Human Immunodeficiency Virus (HIV) Disease	90	5.8	54	5.6	36	6.1
6	Intentional Self-harm (Suicide)	83	5.3	64	6.6	19	3.2
7	Assault (Homicide)	59	3.8	46	4.7	13	2.2
8	Diabetes Mellitus	46	3.0	33	3.4	13	2.2
9	Chronic Liver Disease and Cirrhosis	45	2.9	35	3.6	10	1.7
10	Cerebrovascular Diseases	38	2.4	20	2.1	18	3.1
	All Other Causes	382	24.5	212	21.8	170	29.0
	Total	1,558	100.0	971	100.0	587	100.0
Rank	45 - 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,235	30.4	575	23.4	660	41.2
2	Diseases of Heart	808	19.9	568	23.1	240	15.0
3	Use of or Poisoning by Psychoactive Substance	275	6.8	186	7.6	89	5.6
4	Human Immunodeficiency Virus (HIV) Disease	217	5.3	136	5.5	81	5.1
5	Diabetes Mellitus	143	3.5	97	3.9	46	2.9
6	Accidents Except Poisoning by Psychoactive Substance	127	3.1	99	4.0	28	1.7
7	Intentional Self-harm (Suicide)	125	3.1	88	3.6	37	2.3
8	Chronic Liver Disease and Cirrhosis	118	2.9	80	3.3	38	2.4
9	Cerebrovascular Diseases	116	2.9	67	2.7	49	3.1
10	Mental Disorder Due to Use of Alcohol	87	2.1	68	2.8	19	1.2
	All Other Causes	809	19.9	493	20.1	316	19.7
	Total	4,060	100.0	2,457	100.0	1,603	100.0
Rank	55 - 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	2,604	36.1	1,348	31.2	1,256	43.4
2	Diseases of Heart	1,753	24.3	1,181	27.4	572	19.8
3	Diabetes Mellitus	288	4.0	174	4.0	114	3.9
4	Chronic Liver Disease and Cirrhosis	185	2.6	132	3.1	53	1.8
5	Viral Hepatitis	183	2.5	125	2.9	58	2.0
6	Influenza and Pneumonia	177	2.5	104	2.4	73	2.5
7	Cerebrovascular Diseases	173	2.4	108	2.5	65	2.2
8	Human Immunodeficiency Virus (HIV) Disease	169	2.3	120	2.8	49	1.7
8	Chronic Lower Respiratory Diseases	169	2.3	89	2.1	80	2.8
10	Use of or Poisoning by Psychoactive Substance	148	2.1	110	2.5	38	1.3
	All Other Causes	1,361	18.9	826	19.1	535	18.5
	Total	7,210	100.0	4,317	100.0	2,893	100.0
Rank	65 - 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,340	37.3	1,756	35.5	1,584	39.4
2	Diseases of Heart	2,552	28.5	1,553	31.4	999	24.9
3	Diabetes Mellitus	382	4.3	190	3.8	192	4.8
4	Chronic Lower Respiratory Diseases	332	3.7	159	3.2	173	4.3
5	Influenza and Pneumonia	297	3.3	175	3.5	122	3.0
6	Cerebrovascular Diseases	248	2.8	126	2.5	122	3.0
7	Essential Hypertension and Hypertensive Renal Disease	170	1.9	84	1.7	86	2.1
8	Accidents Except Poisoning by Psychoactive Substance	118	1.3	77	1.6	41	1.0
9	Chronic Liver Disease and Cirrhosis	113	1.3	78	1.6	35	0.9
10	Nephritis, Nephrotic Syndrome, and Nephrosis	86	1.0	51	1.0	35	0.9
	All Other Causes	1,327	14.8	700	14.1	627	15.6
	Total	8,965	100.0	4,949	100.0	4,016	100.0
Rank	75 - 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,108	34.0	2,072	35.2	2,036	32.9
2	Malignant Neoplasms	3,424	28.4	1,703	29.0	1,721	27.8
3	Influenza and Pneumonia	604	5.0	323	5.5	281	4.5
4	Chronic Lower Respiratory Diseases	511	4.2	235	4.0	276	4.5
5	Diabetes Mellitus	487	4.0	215	3.7	272	4.4
6	Cerebrovascular Disease	429	3.6	179	3.0	250	4.0
7	Essential Hypertension and Hypertensive Renal Disease	238	2.0	102	1.7	136	2.2
8	Accidents Except Poisoning by Psychoactive Substance	153	1.3	82	1.4	71	1.1
8	Alzheimer's Disease	153	1.3	50	0.9	103	1.7
10	Nephritis, Nephrotic Syndrome, and Nephrosis	120	1.0	61	1.0	59	1.0
	All Other Causes	1,850	15.3	858	14.6	992	16.0
	Total	12,077	100.0	5,880	100.0	6,197	100.0
Rank	≥85 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	7,202	44.2	2,357	42.2	4,845	45.3
2	Malignant Neoplasms	2,241	13.8	941	16.8	1,300	12.1
3	Influenza and Pneumonia	1,052	6.5	410	7.3	642	6.0
4	Cerebrovascular Diseases	620	3.8	157	2.8	463	4.3
5	Chronic Lower Respiratory Diseases	522	3.2	184	3.3	338	3.2
6	Alzheimer's Disease	489	3.0	127	2.3	362	3.4
7	Diabetes Mellitus	448	2.7	160	2.9	288	2.7
8	Essential Hypertension and Hypertensive Renal Disease	394	2.4	126	2.3	268	2.5
9	Accidents Except Poisoning by Psychoactive Substance	171	1.0	80	1.4	91	0.9
10	Nephritis, Nephrotic Syndrome, and Nephrosis	154	0.9	57	1.0	97	0.9
	All Other Causes	3,002	18.4	992	17.7	2,010	18.8
	Total	16,295	100.0	5,591	100.0	10,704	100.0

Table M8. Leading Causes of Death in Specified Racial/Ethnic Groups* by Sex, New York City, 2012

Rank	Puerto Rican	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,383	27.4	686	26.5	697	28.3
2	Malignant Neoplasms	1,103	21.8	587	22.7	516	20.9
3	Diabetes Mellitus	244	4.8	116	4.5	128	5.2
4	Influenza and Pneumonia	230	4.6	108	4.2	122	5.0
5	Chronic Lower Respiratory Diseases	185	3.7	86	3.3	99	4.0
6	Use of or Poisoning by Psychoactive Substance	155	3.1	119	4.6	36	1.5
7	Cerebrovascular Diseases	134	2.7	53	2.1	81	3.3
8	Human Immunodeficiency Virus (HIV) Disease	115	2.3	75	2.9	40	1.6
9	Viral Hepatitis	114	2.3	78	3.0	36	1.5
10	Chronic Liver Disease and Cirrhosis	108	2.1	70	2.7	38	1.5
	All Other Causes	1,278	25.3	607	23.5	671	27.2
	Total	5,049	100.0	2,585	100.0	2,464	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,148	26.3	539	23.8	609	28.9
2	Diseases of Heart	1,131	25.9	565	25.0	566	26.8
3	Influenza and Pneumonia	184	4.2	97	4.3	87	4.1
4	Cerebrovascular Diseases	164	3.8	76	3.4	88	4.2
5	Accidents Except Poisoning by Psychoactive Substance	162	3.7	133	5.9	29	1.4
6	Diabetes Mellitus	150	3.4	78	3.4	72	3.4
7	Chronic Lower Respiratory Diseases	105	2.4	46	2.0	59	2.8
8	Chronic Liver Disease and Cirrhosis	89	2.0	73	3.2	16	0.8
9	Essential Hypertension and Hypertensive Renal Disease	80	1.8	31	1.4	49	2.3
10	Intentional Self-harm (Suicide)	78	1.8	59	2.6	19	0.9
	All Other Causes	1,080	24.7	564	24.9	516	24.5
	Total	4,371	100.0	2,261	100.0	2,110	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,086	31.5	622	33.5	464	29.2
2	Diseases of Heart	872	25.3	470	25.3	402	25.3
3	Cerebrovascular Diseases	172	5.0	70	3.8	102	6.4
4	Influenza and Pneumonia	151	4.4	77	4.1	74	4.7
5	Diabetes Mellitus	133	3.9	76	4.1	57	3.6
6	Chronic Lower Respiratory Diseases	94	2.7	55	3.0	39	2.5
7	Accidents Except Poisoning by Psychoactive Substance	90	2.6	56	3.0	34	2.1
8	Essential Hypertension and Hypertensive Renal Disease	78	2.3	39	2.1	39	2.5
9	Intentional Self-harm (Suicide)	75	2.2	41	2.2	34	2.1
10	Nephritis, Nephrotic Syndrome, and Nephrosis	39	1.1	17	0.9	22	1.4
	All Other Causes	656	19.0	333	17.9	323	20.3
	Total	3,446	100.0	1,856	100.0	1,590	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,875	35.6	4,156	34.5	4,719	36.7
2	Malignant Neoplasms	6,441	25.9	3,185	26.5	3,256	25.3
3	Influenza and Pneumonia	1,117	4.5	541	4.5	576	4.5
4	Chronic Lower Respiratory Diseases	859	3.4	352	2.9	507	3.9
5	Cerebrovascular Diseases	701	2.8	285	2.4	416	3.2
6	Diabetes Mellitus	532	2.1	292	2.4	240	1.9
7	Accidents Except Poisoning by Psychoactive Substance	463	1.9	286	2.4	177	1.4
8	Use of or Poisoning by Psychoactive Substance	363	1.5	272	2.3	91	0.7
9	Essential Hypertension and Hypertensive Renal Disease	352	1.4	153	1.3	199	1.5
10	Alzheimer's Disease	337	1.4	115	1.0	222	1.7
	All Other Causes	4,864	19.5	2,398	19.9	2,466	19.2
	Total	24,904	100.0	12,035	100.0	12,869	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,209	30.4	1,940	29.9	2,269	30.7
2	Malignant Neoplasms	3,475	25.1	1,563	24.1	1,912	25.9
3	Diabetes Mellitus	717	5.2	308	4.8	409	5.5
4	Influenza and Pneumonia	537	3.9	242	3.7	295	4.0
5	Cerebrovascular Diseases	442	3.2	170	2.6	272	3.7
6	Chronic Lower Respiratory Diseases	388	2.8	184	2.8	204	2.8
7	Human Immunodeficiency Virus (HIV) Disease	359	2.6	223	3.4	136	1.8
8	Essential Hypertension and Hypertensive Renal Disease	357	2.6	143	2.2	214	2.9
9	Assault (Homicide)	261	1.9	235	3.6	26	0.4
10	Accidents Except Poisoning by Psychoactive Substance	209	1.5	152	2.3	57	0.8
	All Other Causes	2,910	21.0	1,320	20.4	1,590	21.5
	Total	13,864	100.0	6,480	100.0	7,384	100.0

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

Table M9. Leading Causes of Premature Death (Age < 65 Years), Overall and by Sex, New York City, 2012

Rank	Cause of Death	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	4,400	29.1	2,183	23.6	2,217	37.8
	Trachea, bronchus, and lung	833	5.5	473	5.1	360	6.1
	Breast	475	3.1	1	0.0	474	8.1
	Colon, rectum, and anus	413	2.7	231	2.5	182	3.1
	Liver and intrahepatic bile ducts	331	2.2	254	2.7	77	1.3
	Pancreas	284	1.9	155	1.7	129	2.2
2	Diseases of Heart	2,870	19.0	1,973	21.3	897	15.3
3	Use of or Poisoning by Psychoactive Substance	788	5.2	576	6.2	212	3.6
4	Accidents Except Poisoning by Psychoactive Substance	592	3.9	462	5.0	130	2.2
5	Human Immunodeficiency Virus (HIV) Disease	523	3.5	340	3.7	183	3.1
6	Diabetes Mellitus	496	3.3	318	3.4	178	3.0
7	Intentional Self-harm (Suicide)	471	3.1	334	3.6	137	2.3
8	Assault (Homicide)	420	2.8	361	3.9	59	1.0
9	Chronic Liver Disease and Cirrhosis	358	2.4	254	2.7	104	1.8
10	Cerebrovascular Diseases	350	2.3	209	2.3	141	2.4
	All Other Causes	3,849	25.5	2,237	24.2	1,612	27.5
	Total	15,117	100.0	9,247	100.0	5,870	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) in Specified Ethnic Groups* by Sex, New York City, 2012

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	400	21.6	228	19.2	172	25.8
2	Diseases of Heart	320	17.3	218	18.4	102	15.3
3	Use of or Poisoning by Psychoactive Substance	151	8.2	115	9.7	36	5.4
4	Human Immunodeficiency Virus (HIV) Disease	102	5.5	66	5.6	36	5.4
5	Viral Hepatitis	90	4.9	69	5.8	21	3.2
6	Chronic Liver Disease and Cirrhosis	77	4.2	49	4.1	28	4.2
7	Diabetes Mellitus	76	4.1	49	4.1	27	4.1
8	Chronic Lower Respiratory Diseases	58	3.1	32	2.7	26	3.9
9	Accidents Except Poisoning by Psychoactive Substance	51	2.8	36	3.0	15	2.3
10	Assault (Homicide)	50	2.7	47	4.0	3	0.5
	All Other Causes	477	25.8	277	23.4	200	30.0
	Total	1,852	100.0	1,186	100.0	666	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	452	28.0	211	20.5	241	41.2
2	Diseases of Heart	235	14.6	161	15.6	74	12.6
3	Accidents Except Poisoning by Psychoactive Substance	129	8.0	112	10.9	17	2.9
4	Intentional Self-harm (Suicide)	69	4.3	53	5.1	16	2.7
5	Chronic Liver Disease and Cirrhosis	64	4.0	57	5.5	7	1.2
6	Use of or Poisoning by Psychoactive Substance	62	3.8	50	4.9	12	2.1
7	Assault (Homicide)	59	3.7	49	4.8	10	1.7
8	Cerebrovascular Diseases	56	3.5	40	3.9	16	2.7
9	Diabetes Mellitus	46	2.8	29	2.8	17	2.9
10	Congenital Malformations, Deformations	39	2.4	27	2.6	12	2.1
	All Other Causes	404	25.0	241	23.4	163	27.9
	Total	1,615	100.0	1,030	100.0	585	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	418	41.1	235	36.1	183	49.9
2	Diseases of Heart	172	16.9	132	20.3	40	10.9
3	Intentional Self-harm (Suicide)	59	5.8	33	5.1	26	7.1
4	Accidents Except Poisoning by Psychoactive Substance	48	4.7	33	5.1	15	4.1
5	Cerebrovascular Diseases	28	2.8	19	2.9	9	2.5
6	Diabetes Mellitus	26	2.6	21	3.2	5	1.4
7	Congenital Malformations, Deformations	25	2.5	14	2.2	11	3.0
8	Influenza and Pneumonia	19	1.9	12	1.8	7	1.9
9	Essential Hypertension and Renal Diseases	15	1.5	12	1.8	3	0.8
10	Viral Hepatitis	12	1.2	9	1.4	3	0.8
	All Other Causes	196	19.3	131	20.1	65	17.7
	Total	1,018	100.0	651	100.0	367	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,682	33.6	853	26.8	829	45.5
2	Diseases of Heart	988	19.7	741	23.3	247	13.6
3	Use of or Poisoning by Psychoactive Substance	360	7.2	271	8.5	89	4.9
4	Intentional Self-harm (Suicide)	226	4.5	162	5.1	64	3.5
5	Accidents Except Poisoning by Psychoactive Substance	195	3.9	151	4.7	44	2.4
6	Chronic Liver Disease and Cirrhosis	126	2.5	90	2.8	36	2.0
7	Diabetes Mellitus	114	2.3	79	2.5	35	1.9
8	Mental Disorders Due to Use of Alcohol	93	1.9	70	2.2	23	1.3
9	Chronic Lower Respiratory Diseases	85	1.7	45	1.4	40	2.2
10	Viral Hepatitis	82	1.6	60	1.9	22	1.2
	All Other Causes	1,056	21.1	663	20.8	393	21.6
	Total	5,007	100.0	3,185	100.0	1,822	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,386	26.2	622	20.9	764	33.1
2	Diseases of Heart	1,097	20.8	683	22.9	414	17.9
3	Human Immunodeficiency Virus (HIV) Disease	305	5.8	184	6.2	121	5.2
4	Assault (Homicide)	255	4.8	231	7.8	24	1.0
5	Diabetes Mellitus	221	4.2	134	4.5	87	3.8
6	Use of or Poisoning by Psychoactive Substance	193	3.7	124	4.2	69	3.0
7	Accidents Except Poisoning by Psychoactive Substance	152	2.9	116	3.9	36	1.6
8	Cerebrovascular Diseases	144	2.7	74	2.5	70	3.0
9	Influenza and Pneumonia	117	2.2	61	2.0	56	2.4
10	Chronic Lower Respiratory Diseases	109	2.1	56	1.9	53	2.3
	All Other Causes	1,307	24.7	694	23.3	613	26.6
	Total	5,286	100.0	2,979	100.0	2,307	100.0

* Decedents of other or multiple races or with unknown ethnicities 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, 2012

Cause of Death	Total			Ethnic Group*													Sex					
				Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Unknown		Male			Female		
	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate
All Causes†	52,455	6.3	6.0	9,420	3.9	5.1	24,904	9.0	6.3	13,864	7.3	7.2	3,446	3.1	3.7	821	25,667	6.5	7.3	26,788	6.1	5.0
Natural Causes	49,476	593.5	563.3	8,703	361.6	479.1	23,672	858.4	586.3	13,102	689.4	683.6	3,237	287.8	349.6	762	23,518	592.0	671.2	25,958	594.8	484.6
Human Immunodeficiency Virus (HIV) Disease	609	7.3	6.8	152	6.3	6.7	80	2.9	2.5	359	18.9	17.5	5	0.4	0.4	13	402	10.1	9.8	207	4.7	4.4
Malignant Neoplasms	13,405	160.8	155.2	2,251	93.5	119.4	6,441	233.6	175.3	3,475	182.9	178.6	1,086	96.6	108.3	152	6,583	165.7	185.0	6,822	156.3	135.7
Malignant neoplasm of stomach	475	5.7	5.5	103	4.3	5.4	160	5.8	4.2	113	5.9	5.9	93	8.3	9.3	6	259	6.5	7.2	216	4.9	4.2
Malignant neoplasms of colon, rectum, and anus	1,380	16.6	15.9	227	9.4	12.2	634	23.0	16.7	397	20.9	20.4	109	9.7	11.4	13	663	16.7	18.6	717	16.4	13.9
Malignant neoplasm of pancreas	1,020	12.2	11.8	157	6.5	8.5	510	18.5	13.7	263	13.8	13.4	81	7.2	8.5	9	490	12.3	13.8	530	12.1	10.5
Malignant neoplasms of trachea, bronchus, and lung (male)	1,585	39.9	44.6	210	18.0	27.9	790	59.0	50.0	385	45.0	52.4	179	33.1	39.6	21	1,585	39.9	44.6	–	–	–
Malignant neoplasms of trachea, bronchus, and lung (female)	1,302	29.8	26.1	163	13.2	14.7	688	48.5	33.7	347	33.2	29.0	91	15.6	17.0	13	–	–	–	1,302	29.8	26.1
Malignant neoplasm of breast (female)	1,122	25.7	22.3	175	14.1	15.2	520	36.7	25.4	369	35.3	30.7	47	8.0	7.6	11	–	–	–	1,122	25.7	22.3
Malignant neoplasm of cervix uteri	134	3.1	2.8	40	3.2	3.4	34	2.4	1.9	47	4.5	3.9	12	2.1	2.1	1	–	–	–	134	3.1	2.8
Malignant neoplasm of ovary	380	8.7	7.6	63	5.1	5.6	200	14.1	10.2	86	8.2	7.0	25	4.3	4.4	6	–	–	–	380	8.7	7.6
Malignant neoplasm of prostate	681	17.1	20.5	118	10.1	19.7	259	19.3	15.8	269	31.5	43.2	21	3.9	5.4	14	681	17.1	20.5	–	–	–
Leukemia	528	6.3	6.2	92	3.8	4.8	297	10.8	8.2	87	4.6	4.6	47	4.2	4.9	5	303	7.6	8.5	225	5.2	4.5
Diabetes Mellitus	1,813	21.7	20.8	394	16.4	21.7	532	19.3	13.7	717	37.7	37.6	133	11.8	14.4	37	883	22.2	24.7	930	21.3	17.8
Parkinson's Disease	242	2.9	2.8	39	1.6	2.3	154	5.6	3.6	25	1.3	1.4	20	1.8	2.4	4	128	3.2	3.9	114	2.6	2.1
Alzheimer's Disease	696	8.3	7.6	166	6.9	10.9	337	12.2	7.0	152	8.0	8.3	31	2.8	3.9	10	208	5.2	6.6	488	11.2	8.1
Diseases of Heart	16,732	200.7	188.2	2,514	104.5	145.1	8,875	321.8	206.0	4,209	221.5	221.7	872	77.5	98.2	262	7,955	200.3	231.8	8,777	201.1	155.6
Hypertensive heart disease	1,812	21.7	20.4	339	14.1	18.5	673	24.4	16.6	684	36.0	35.3	82	7.3	9.0	34	883	22.2	24.4	929	21.3	17.1
Chronic ischemic heart diseases	10,962	131.5	123.1	1,563	64.9	91.5	6,120	221.9	140.5	2,508	132.0	132.9	585	52.0	66.4	186	5,155	129.8	151.5	5,807	133.1	101.9
Acute myocardial infarction	2,246	26.9	25.4	357	14.8	20.8	1,198	43.4	28.2	557	29.3	29.5	110	9.8	12.2	24	1,082	27.2	31.5	1,164	26.7	20.7
Essential (Primary) Hypertension and Hypertensive Renal Disease	980	11.8	11.1	182	7.6	10.7	352	12.8	8.3	357	18.8	18.9	78	6.9	8.9	11	418	10.5	12.2	562	12.9	10.2
Cerebrovascular Diseases	1,647	19.8	18.7	298	12.4	16.6	701	25.4	16.6	442	23.3	23.0	172	15.3	19.7	34	671	16.9	19.2	976	22.4	17.8
Influenza and Pneumonia	2,245	26.9	25.2	414	17.2	24.2	1,117	40.5	25.2	537	28.3	28.6	151	13.4	17.7	26	1,079	27.2	32.4	1,166	26.7	20.7
Chronic Lower Respiratory Diseases	1,651	19.8	19.0	290	12.0	16.4	859	31.1	21.6	388	20.4	20.6	94	8.4	11.1	20	734	18.5	21.5	917	21.0	17.3
Asthma	166	2.0	1.9	48	2.0	2.3	30	1.1	0.9	76	4.0	3.9	11	1.0	1.3	1	85	2.1	2.2	81	1.9	1.7
Chronic Liver Disease and Cirrhosis	534	6.4	6.1	197	8.2	9.2	193	7.0	5.9	106	5.6	5.2	27	2.4	2.6	11	364	9.2	9.2	170	3.9	3.5
External Causes	2,979	35.7	34.6	717	29.8	31.1	1,232	44.7	39.2	762	40.1	39.9	209	18.6	19.6	59	2,149	54.1	54.0	830	19.0	17.5
Motor Vehicle Accidents	315	3.8	3.7	94	3.9	4.1	107	3.9	3.5	79	4.2	4.2	29	2.6	2.6	6	219	5.5	5.6	96	2.2	2.1
Falls	384	4.6	4.4	78	3.2	4.1	219	7.9	5.4	41	2.2	2.1	41	3.6	4.4	5	232	5.8	6.5	152	3.5	2.8
Intentional Self-harm (Suicide)	557	6.7	6.4	126	5.2	5.3	278	10.1	9.2	65	3.4	3.3	75	6.7	6.6	13	394	9.9	9.8	163	3.7	3.6
Assault (Homicide)	440	5.3	5.3	111	4.6	4.4	51	1.8	1.8	261	13.7	14.2	12	1.1	1.2	5	374	9.4	9.3	66	1.5	1.5
Events of Undetermined Intent	241	2.9	2.8	49	2.0	2.1	114	4.1	3.8	51	2.7	2.7	18	1.6	1.7	9	165	4.2	4.2	76	1.7	1.7
Mental and Behavioral Disorders Due to Use of or Accidental Poisoning by Psychoactive Substances, Excluding Alcohol	812	9.7	9.2	222	9.2	9.3	363	13.2	12.4	203	10.7	9.9	10	0.9	0.8	14	592	14.9	14.1	220	5.0	4.7
Accidents Except Drug Poisoning	1,034	12.4	12.0	251	10.4	11.6	463	16.8	13.3	209	11.0	10.9	90	8.0	8.8	21	701	17.6	18.5	333	7.6	6.7

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

† For All Causes, rates are per 1,000 population and all other selected causes rates are per 100,000 population. Population data are from 2011 US Census Bureau's estimates.

‡ Rate are not statistically reliable.

Table M12. Deaths and Death Rates* per 100,000 Population from Selected Underlying Causes by Community District of Residence, New York City, 2012

Community District of Residence	Population 2012 Estimates	All Causes (Rate per 1,000)			Heart Diseases		Malignant Neoplasms		HIV Disease		Influenza and Pneumonia		Cerebro-vascular Diseases		Chronic Lower Respiratory Diseases		Chronic Liver Disease & Cirrhosis		Diabetes Mellitus		Mental Disorders due to Substance Use & Accidental Poisoning		Accidents Except Drug Poisoning		Intentional Self-harm (Suicide)		Assault† (Homicide)		Events of Undetermined Intent	
		No.	Crude Rate	Age-Adjusted Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate
ALL DEATH EVENTS	8,336,697	52,455	6.3	6.0	16,732	200.7	13,405	160.8	609	7.3	2,245	26.9	1,647	19.8	1,651	19.8	534	6.4	1,813	21.7	812	9.7	1,034	12.4	557	6.7	440	5.3	241	2.9
MANHATTAN‡	1,619,090	9,238	5.7	5.0	2,674	165.2	2,409	148.8	108	6.7	353	21.8	307	19.0	320	19.8	79	4.9	265	16.4	149	9.2	159	9.8	132	8.2	53	3.3	41	2.5
Battery Park, Tribeca (01)	62,609	168	2.7	4.0	48	76.7	44	70.3	1	1.6	6	9.6	7	11.2	5	8.0	1	1.6	5	8.0	1	1.6	3	4.8	5	8.0	–	–	1	1.6
Greenwich Village, SOHO (02)	91,420	410	4.5	4.1	114	124.7	125	136.7	2	2.2	21	23.0	8	8.8	17	18.6	2	2.2	9	9.8	6	6.6	9	9.8	7	7.7	1	1.1	1	1.1
Lower East Side (03)	167,340	1,156	6.9	5.5	334	199.6	281	167.9	14	8.4	47	28.1	61	36.5	43	25.7	11	6.6	41	24.5	29	17.3	17	10.2	16	9.6	3	1.8	7	4.2
Chelsea, Clinton (04)	105,537	519	4.9	5.0	141	133.6	159	150.7	6	5.7	12	11.4	13	12.3	17	16.1	5	4.7	14	13.3	14	13.3	19	18.0	12	11.4	3	2.8	1	0.9
Midtown Business District (05)	52,428	191	3.6	3.9	64	122.1	55	104.9	2	3.8	5	9.5	2	3.8	3	5.7	4	7.6	2	3.8	6	11.4	4	7.6	3	5.7	–	–	2	3.8
Murray Hill (06)	144,552	734	5.1	3.9	214	148.0	211	146.0	3	2.1	25	17.3	28	19.4	24	16.6	4	2.8	10	6.9	8	5.5	16	11.1	10	6.9	1	0.7	2	1.4
Upper West Side (07)	213,774	1,369	6.4	4.7	402	188.0	349	163.3	12	5.6	50	23.4	35	16.4	52	24.3	12	5.6	33	15.4	18	8.4	18	8.4	21	9.8	8	3.7	7	3.3
Upper East Side (08)	224,812	1,333	5.9	4.2	411	182.8	389	173.0	5	2.2	61	27.1	44	19.6	45	20.0	8	3.6	22	9.8	6	2.7	25	11.1	21	9.3	1	0.4	5	2.2
Manhattanville (09)	111,749	590	5.3	5.5	173	154.8	135	120.8	12	10.7	16	14.3	16	14.3	19	17.0	7	6.3	23	20.6	6	5.4	6	5.4	4	3.6	3	2.7	1	0.9
Central Harlem (10)	118,063	870	7.4	8.0	250	211.8	207	175.3	21	17.8	31	26.3	29	24.6	31	26.3	10	8.5	38	32.2	26	22.0	7	5.9	8	6.8	14	11.9	8	6.8
East Harlem (11)	123,418	900	7.3	7.2	233	188.8	215	174.2	21	17.0	43	34.8	30	24.3	33	26.7	5	4.1	40	32.4	14	11.3	16	13.0	9	7.3	10	8.1	1	0.8
Washington Heights (12)	194,651	992	5.1	4.9	288	148.0	238	122.3	9	4.6	36	18.5	33	17.0	31	15.9	10	5.1	28	14.4	15	7.7	19	9.8	16	8.2	9	4.6	5	2.6
BRONX‡	1,408,473	8,649	6.1	6.6	2,650	188.1	2,031	144.2	173	12.3	405	28.8	242	17.2	281	20.0	104	7.4	321	22.8	192	13.6	157	11.1	78	5.5	115	8.2	33	2.3
Mott Haven (01)	93,499	524	5.6	7.1	121	129.4	119	127.3	20	21.4	22	23.5	23	24.6	15	16.0	15	16.0	22	23.5	25	26.7	10	10.7	3	3.2	12	12.8	1	1.1
Hunts Point (02)	53,509	255	4.8	6.2	61	114.0	59	110.3	6	11.2	12	22.4	5	9.3	12	22.4	4	7.5	12	22.4	9	16.8	3	5.6	–	–	4	7.5	4	7.5
Morrisania (03)	81,141	456	5.6	7.7	86	106.0	113	139.3	19	23.4	31	38.2	18	22.2	18	22.2	7	8.6	22	27.1	15	18.5	8	9.9	5	6.2	13	16.0	3	3.7
Concourse, Highbridge (04)	149,238	783	5.2	6.7	207	138.7	197	132.0	31	20.8	45	30.2	25	16.8	21	14.1	11	7.4	27	18.1	21	14.1	16	10.7	8	5.4	13	8.7	3	2.0
University/Morris Heights (05)	130,521	552	4.2	6.2	145	111.1	123	94.2	16	12.3	25	19.2	21	16.1	18	13.8	12	9.2	21	16.1	18	13.8	13	10.0	4	3.1	14	10.7	2	1.5
East Tremont (06)	84,737	448	5.3	7.3	103	121.6	97	114.5	16	18.9	14	16.5	15	17.7	15	17.7	6	7.1	22	26.0	20	23.6	6	7.1	5	5.9	8	9.4	5	5.9
Fordham (07)	142,142	767	5.4	6.9	245	172.4	176	123.8	15	10.6	28	19.7	27	19.0	33	23.2	6	4.2	31	21.8	21	14.8	18	12.7	13	9.1	6	4.2	2	1.4
Riverdale (08)	103,409	994	9.6	5.9	449	434.2	188	181.8	5	4.8	48	46.4	20	19.3	22	21.3	7	6.8	23	22.2	6	5.8	9	8.7	12	11.6	9	8.7	2	1.9
Unionport, Soundview (09)	175,791	1,018	5.8	6.5	310	176.3	244	138.8	20	11.4	59	33.6	18	10.2	32	18.2	9	5.1	42	23.9	20	11.4	19	10.8	7	4.0	14	8.0	4	2.3
Throgs Neck (10)	121,885	1,066	8.7	6.3	349	286.3	289	237.1	5	4.1	40	32.8	30	24.6	47	38.6	9	7.4	30	24.6	14	11.5	17	13.9	10	8.2	3	2.5	3	2.5
Pelham Parkway (11)	114,951	909	7.9	6.7	326	283.6	195	169.6	9	7.8	44	38.3	18	15.7	20	17.4	11	9.6	36	31.3	10	8.7	21	18.3	6	5.2	6	5.2	1	0.9
Williamsbridge (12)	153,365	873	5.7	5.7	248	161.7	230	150.0	11	7.2	37	24.1	22	14.3	28	18.3	7	4.6	33	21.5	12	7.8	17	11.1	5	3.3	12	7.8	3	2.0
BROOKLYN	2,565,635	15,050	5.9	5.9	5,025	195.9	3,720	145.0	213	8.3	734	28.6	445	17.3	447	17.4	149	5.8	639	24.9	200	7.8	262	10.2	118	4.6	138	5.4	72	2.8
Williamsburg, Greenpoint (01)	174,549	807	4.6	6.1	243	139.2	175	100.3	11	6.3	40	22.9	25	14.3	27	15.5	20	11.5	43	24.6	17	9.7	22	12.6	8	4.6	5	2.9	4	2.3
Fort Greene, Brooklyn Heights (02)	101,055	621	6.1	6.6	225	222.7	156	154.4	8	7.9	31	30.7	13	12.9	21	20.8	9	8.9	21	20.8	6	5.9	12	11.9	6	5.9	3	3.0	2	2.0
Bedford Stuyvesant (03)	153,903	951	6.2	7.6	300	194.9	227	147.5	22	14.3	49	31.8	24	15.6	28	18.2	9	5.8	52	33.8	22	14.3	14	9.1	4	2.6	19	12.3	3	1.9
Bushwick (04)	113,799	471	4.1	6.0	149	130.9	114	100.2	10	8.8	13	11.4	11	9.7	10	8.8	7	6.2	28	24.6	12	10.5	12	10.5	9	7.9	7	6.2	4	3.5
East New York (05)	183,853	1,059	5.8	6.7	289	157.2	256	139.2	27	14.7	43	23.4	32	17.4	36	19.6	17	9.2	57	31.0	16	8.7	13	7.1	6	3.3	21	11.4	7	3.8
Park Slope (06)	106,220	503	4.7	5.8	188	177.0	139	130.9	6	5.6	19	17.9	7	6.6	19	17.9	6	5.6	14	13.2	7	6.6	9	8.5	4	3.8	1	0.9	–	–
Sunset Park (07)	128,458	508	4.0	5.3	142	110.5	149	116.0	4	3.1	31	24.1	11	8.6	16	12.5	6	4.7	14	10.9	10	7.8	8	6.2	7	5.4	2	1.6	5	3.9
Crown Heights North (08)	97,122	571	5.9	6.6	173	178.1	130	133.9	15	15.4	29	29.9	16	16.5	16	16.5	5	5.1	29	29.9	10	10.3	4	4.1	3	3.1	4	4.1	1	1.0
Crown Heights South (09)	98,777	555	5.6	5.6	187	189.3	118	119.5	18	18.2	24	24.3	24	24.3	11	11.1	7	7.1	45	45.6	4	4.0	8	8.1	5	5.1	7	7.1	2	2.0
Bay Ridge (10)	137,411	903	6.6	5.5	317	230.7	242	176.1	3	2.2	53	38.6	25	18.2	34	24.7	7	5.1	34	24.7	20	14.6	21	15.3	9	6.5	1	0.7	3	2.2
Bensonhurst (11)	195,453	1,215	6.2	5.0	418	213.9	326	166.8	4	2.0	75	38.4	40	20.5	38	19.4	5	2.6	36	18.4	11	5.6	21	10.7	6	3.1	3	1.5	4	2.0
Borough Park (12)	195,917	946	4.8	5.1	298	152.1	222	113.3	2	1.0	70	35.7	26	13.3	18	9.2	11	5.6	38	19.4	4	2.0	17	8.7	5	2.6	2	1.0	6	3.1
Coney Island (13)	105,708	1,163	11.0	6.5	431	407.7	257	243.1	6	5.7	60	56.8	48	45.4	27	25.5	6	5.7	40	37.8	10	9.5	20	18.9	10	9.5	8	7.6	8	7.6
Flatbush, Midwood (14)	164,375	893	5.4	5.5	325	197.7	217	132.0	14	8.5	38	23.1	18	11.0	21	12.8	10	6.1	20	12.2	7	4.3	16	9.7	9	5.5	8	4.9	4	2.4
Sheepshead Bay (15)	170,139	1,271	7.5	5.3	504	296.2	306	179.9	3	1.8	57	33.5	38	22.3	46	27.0	4	2.4	29	17.0	12	7.1	26	15.3	12	7.1	2	1.2	8	4.7
Brownsville (16)	86,568	623	7.2	8.5	180	207.9	160	184.8	27	31.2	26	30.0	20	23.1	19	21.9	7	8.1	35	40.4	15	17.3	15	17.3	2	2.3	14	16.2	3	3.5
East Flatbush (17)	155,878	860	5.5	5.4	258	165.5	240	154.0	22	14.1	30	19.2	32	20.5	21	13.5	4	2.6	53	34.0	8	5.1	4	2.6	4	2.6	20	12.8	3	1.9
Canarsie (18)	196,355	1,128	5.7	5.6	397	202.2	286	145.7	10	5.1	46	23.4	35	17.8	39	19.9	9	4.6	51	26.0	9	4.6	20	10.2	9	4.6	11	5.6	5	2.5

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, 2012 (Continued)

Community District of Residence	Population 2012 Estimates	All Causes (Rate per 1,000)			Heart Diseases		Malignant Neoplasms		HIV Disease		Influenza and Pneumonia		Cerebro-vascular Diseases		Chronic Lower Respiratory Diseases		Chronic Liver Disease & Cirrhosis		Diabetes Mellitus		Mental Disorders due to Substance Use & Accidental Poisoning		Accidents Except Drug Poisoning		Intentional Self-harm (Suicide)		Assault† (Homicide)		Events of Undetermined Intent	
		No.	Crude Rate	Age-Adjusted Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate
QUEENS	2,272,771	12,184	5.4	4.8	4,192	184.4	2,964	130.4	62	2.7	535	23.5	449	19.8	389	17.1	117	5.1	399	17.6	115	5.1	237	10.4	143	6.3	81	3.6	43	1.9
Astoria, Long Island City (01)	200,105	923	4.6	4.8	329	164.4	240	119.9	4	2.0	45	22.5	33	16.5	30	15.0	6	3.0	25	12.5	6	3.0	16	8.0	8	4.0	5	2.5	4	2.0
Sunnyside, Woodside (02)	119,476	476	4.0	4.3	158	132.2	117	97.9	2	1.7	32	26.8	20	16.7	14	11.7	10	8.4	13	10.9	4	3.3	11	9.2	6	5.0	2	1.7	2	1.7
Jackson Heights (03)	175,827	708	4.0	4.4	215	122.3	188	106.9	5	2.8	33	18.8	28	15.9	18	10.2	13	7.4	16	9.1	8	4.5	21	11.9	10	5.7	5	2.8	8	4.5
Elmhurst, Corona (04)	181,047	648	3.6	4.3	173	95.6	178	98.3	3	1.7	43	23.8	21	11.6	14	7.7	12	6.6	18	9.9	4	2.2	8	4.4	11	6.1	10	5.5	4	2.2
Ridgewood, Glendale (05)	169,099	1,006	5.9	5.7	358	211.7	255	150.8	–	–	47	27.8	39	23.1	37	21.9	15	8.9	19	11.2	18	10.6	19	11.2	16	9.5	1	0.6	4	2.4
Rego Park, Forest Hills (06)	113,874	796	7.0	4.4	304	267.0	197	173.0	2	1.8	45	39.5	32	28.1	28	24.6	3	2.6	11	9.7	6	5.3	5	4.4	14	12.3	2	1.8	–	–
Flushing (07)	251,755	1,615	6.4	4.5	560	222.4	388	154.1	2	0.8	76	30.2	62	24.6	59	23.4	12	4.8	44	17.5	12	4.8	28	11.1	24	9.5	3	1.2	4	1.6
Fresh Meadows, Briarwood (08)	152,673	844	5.5	4.4	300	196.5	193	126.4	3	2.0	28	18.3	36	23.6	33	21.6	5	3.3	26	17.0	5	3.3	21	13.8	5	3.3	4	2.6	1	0.7
Woodhaven (09)	145,038	636	4.4	5.0	231	159.3	145	100.0	5	3.4	20	13.8	22	15.2	9	6.2	10	6.9	29	20.0	10	6.9	18	12.4	11	7.6	3	2.1	2	1.4
Howard Beach (10)	123,290	644	5.2	5.0	216	175.2	144	116.8	3	2.4	26	21.1	30	24.3	23	18.7	6	4.9	34	27.6	7	5.7	20	16.2	8	6.5	4	3.2	1	0.8
Bayside (11)	117,228	626	5.3	3.5	221	188.5	183	156.1	1	0.9	20	17.1	20	17.1	18	15.4	4	3.4	7	6.0	4	3.4	11	9.4	9	7.7	–	–	1	0.9
Jamaica, St. Albans (12)	228,350	1,381	6.0	5.9	427	187.0	295	129.2	17	7.4	65	28.5	52	22.8	38	16.6	6	2.6	84	36.8	13	5.7	26	11.4	8	3.5	24	10.5	5	2.2
Queens Village (13)	190,123	891	4.7	3.8	304	159.9	240	126.2	9	4.7	22	11.6	29	15.3	22	11.6	7	3.7	37	19.5	6	3.2	13	6.8	6	3.2	9	4.7	5	2.6
The Rockaways (14)	115,231	989	8.6	7.8	396	343.7	201	174.4	6	5.2	33	28.6	25	21.7	46	39.9	8	6.9	36	31.2	11	9.5	20	17.4	7	6.1	9	7.8	2	1.7
STATEN ISLAND	470,728	3,319	7.1	6.3	1,256	266.8	779	165.5	19	4.0	128	27.2	91	19.3	145	30.8	32	6.8	98	20.8	79	16.8	101	21.5	33	7.0	13	2.8	19	4.0
Port Richmond (01)	177,275	1,213	6.8	7.0	464	261.7	261	147.2	14	7.9	36	20.3	41	23.1	62	35.0	11	6.2	44	24.8	28	15.8	36	20.3	9	5.1	10	5.6	11	6.2
Willowbrook, South Beach (02)	132,703	1,079	8.1	6.0	441	332.3	233	175.6	2	1.5	44	33.2	24	18.1	41	30.9	6	4.5	25	18.8	30	22.6	34	25.6	14	10.5	2	1.5	1	0.8
Tottenville (03)	160,000	1,026	6.4	5.8	351	219.4	285	178.1	3	1.9	48	30.0	26	16.3	42	26.3	15	9.4	29	18.1	21	13.1	31	19.4	9	5.6	1	0.6	7	4.4
NONRESIDENTS	–	3,896	–	–	899	–	1,487	–	32	–	89	–	112	–	68	–	50	–	88	–	67	–	107	–	51	–	39	–	20	–
RESIDENCE UNKNOWN	–	119	–	–	36	–	15	–	2	–	1	–	1	–	1	–	3	–	3	–	10	–	11	–	2	–	1	–	13	–

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 2012 population estimates derived by Bureau of Epi 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 Bronx are slightly different from Table M1.

MORTALITY

ANNUAL

Cause (ICD-10 Codes) ‡‡	1901-1905	1906-1910	1911-1915	1916-1920	1921-1925	1926-1930	1931-1935	1936-1940	1941-1945	1946-1948	1949-1951	1952-1955
Infant Deaths (under 1 year)	15,611	16,609	14,060	12,004	8,895	7,662	5,521	4,079	3,828	4,298	3,882	4,021
Rate per 1,000 live births	120.8	115.2	100.0	88.2	68.9	61.0	52.0	39.8	30.3	26.8	24.5	24.6
Neonatal Deaths (under 28 days)	§§	§§	5,143	4,894	4,309	3,892	3,152	2,631	2,764	3,298	2,989	3,032
Rate per 1,000 live births			37.4	36.0	33.0	31.0	29.7	25.7	21.9	20.5	18.9	18.5
Early Neonatal Deaths (under 7 Days)	§§	§§	§§	§§	§§	§§	§§	2,110	2,338	2,845	2,604	2,713
Rate per 1,000 live births								20.5	18.5	17.7	16.4	16.6
Fetal Deaths 28 Weeks Gestation and Older	§§	§§	§§	§§	§§	§§	§§	2,589	2,709	2,902	2,441	2,310
Ratio per I ,000 live births								25.3	21.4	18.1	15.4	14.1
Perinatal mortality ratio†	§§	§§	§§	§§	§§	§§	§§	44.7	39.1	35.1	31.3	30.2
Pregnancy, Childbirth, and the Puerperium (O00-O99)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate per 100,000 live births												
Maternal Causes |||| (A34, O00-O95, O98-O99)	694	745	694	664	689	651	608	372	255	178	115	102
Rate per 100,000 live births	538.0	517.4	493.7	487.9	528.1	518.4	572.6	363.2	201.6	110.8	72.6	62.3
Respiratory Tuberculosis (A16)	8,154	8,832	8,745	7,915	4,937	4,574	4,068	3,680	3,281	2,932	2,173	1,178
Rate	215.4	197.5	173.2	144.1	80.0	68.2	57.3	50.0	43.2	37.7	27.4	15.0
Other Forms of Tuberculosis (A17-A19)	§§	§§	§§	§§	§§	§§	§§	§§	§§	225	174	97
Rate										2.9	2.2	1.2
HIV Disease (B20-B24) ‡	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												
Malignant Neoplasms (C00-C97)	2,621	3,334	4,256	4,993	6,229	7,637	9,062	11,257	13,169	14,627	15,556	16,553
Rate	69.2	74.5	84.3	90.9	100.9	113.9	127.6	152.9	173.3	188.2	196.0	210.6
Trachea, bronchus, and lung, male (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	828	847	1,021
Rate										21.9	22.2	27.0
Trachea, bronchus, and lung, female (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	220	179	228
Rate										5.5	4.4	5.6
Colon, rectum, and anus (C18-C21)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												
Breast, female (C50)	§§	§§	§§	§§	§§	§§	§§	§§	§§	1,429	1,476	1,517
Rate										35.9	36.4	37.3
Diabetes Mellitus (E10-E14)	520	690	916	1,063	1,284	1,624	2,140	2,787	3,131	3,423	1,583	1,644
Rate	13.7	15.4	18.1	19.4	20.8	24.2	30.1	37.9	41.2	44.0	19.9	20.9
Major Cardiovascular Diseases (I00-I78)	5,954	9,148	12,699	14,792	18,114	21,815	23,706	25,711	30,886	32,539	36,206	37,724
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 (I60-I69)	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
Influenza and Pneumonia (J09-J18)	10,425	10,985	10,528	17,136	8,935	9,989	8,205	5,337	3,453	3,014	2,469	2,664
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								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	4.5	3.5	4.7	4.0	4.3
Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												
Alzheimer's Disease (G30)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												
Asthma (J45-J46)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												

*Populations for calculating rates vary by year. See Technical Notes: Population, Citywide.
†Perinatal mortality ratio: see section titled "Rates and Ratios Defined" for definition.
‡AIDS was first reported as a cause of death in 1982. See the Technical Notes and Historical Technical Notes: Deaths, HIV and AIDS Mortality.
§Data for 1982-1985.
||Rate less than 0.05.
¶Motor vehicle accident codes are listed in Table M1.
**World Trade Center (WTC) disaster deaths are not included in 2001. See Special Section on WTC deaths in the 2002 Summary of Vital Statistics for detailed statistics.
††Beginning January 2007, causes of death coding was changed. See Technical Notes: Deaths, Cause of Death Coding.
‡‡ Codes following causes in parenthesis are the International Classification of Diseases, Tenth Revision.
§§Data are not available or not applicable.
||||See Technical Notes: Maternal Death and Maternal Mortality.

Population for Selected Causes, New York City, 1901-2012

AVERAGE																
1956-1960	1961-1965	1966-1970	1971-1975	1976-1980	1981-1985	1986-1990	1991-1995	1996-2000	2001-2005**	2006	2007††	2008	2009	2010	2011	2012
4,290	4,333	3,477	2,312	1,875	1,624	1,691	1,339	881	760	740	697	698	668	609	577	583
25.7	26.2	23.6	19.9	17.4	14.4	12.8	10.0	7.1	6.1	5.9	5.4	5.5	5.3	4.9	4.7	4.7
3,220	3,226	2,602	1,714	1,333	1,097	1,159	912	609	512	484	430	466	444	403	378	383
19.3	19.5	17.7	14.8	12.3	9.7	8.8	6.8	4.9	4.1	3.9	3.3	3.6	3.5	3.2	3.1	3.1
2,909	2,922	2,351	1,480	1,131	927	972	753	478	394	362	311	345	343	316	293	301
17.4	17.7	16.0	12.8	10.5	8.2	7.4	5.6	3.8	3.2	2.9	2.4	2.7	2.7	2.5	2.4	2.4
2,362	2,276	1,885	1,288	835	719	698	686	518	431	379	387	395	407	373	368	379
14.1	13.8	12.8	11.1	7.7	6.4	5.3	5.1	4.2	3.5	3.0	3.0	3.1	3.2	3.0	3.0	3.1
31.1	31.0	28.4	23.6	18.1	14.5	12.6	10.6	8.0	6.7	5.9	5.4	5.8	5.9	5.5	5.4	5.5
§§	§§	§§	§§	§§	§§	§§	§§	30	32	34	39	42	42	36	37	29
								24.1	25.7	27.1	30.2	32.9	33.1	28.8	30.1	23.5
107	109	73	36	28	33	29	26	22	29	29	32	39	31	30	30	23
64.1	66.0	49.6	31.1	25.9	29.2	22.3	19.2	17.5	23.1	23.1	24.8	30.5	24.5	24.0	24.4	18.7
824	624	432	235	141	125	174	135	39	25	15	14	13	18	19	27	13
10.6	8.0	5.5	3.1	2.0	1.7	2.4	1.8	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2
52	43	39	32	22	35	55	34	14	5	3	2	5	7	7	5	3
0.7	0.6	0.5	0.4	0.3	0.5	0.8	0.5	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0
§§	§§	§§	§§	§§	768§	3,703	6,257	2,716	1,603	1,209	1,115	1,073	933	832	766	609
					10.7	50.9	83.2	36.4	19.9	15.0	13.8	13.2	11.4	10.1	9.3	7.3
16,869	17,398	17,814	17,315	16,549	15,889	15,612	15,191	14,335	13,717	13,116	13,251	13,047	13,180	13,333	13,443	13,405
216.1	222.1	226.3	226.3	228.7	222.3	214.7	201.9	192.2	169.9	163.3	164.4	160.6	160.9	161.6	162.6	160.8
1,157	1,294	1,890	2,434	2,387	2,217	2,201	2,083	1,849	1,713	1,580	1,597	1,593	1,500	1,553	1,538	1,585
30.9	34.8	51.0	68.1	71.0	66.7	64.4	60.6	52.7	44.8	41.5	41.8	41.3	38.6	39.6	39.1	39.9
261	303	474	777	970	1,169	1,315	1,426	1,416	1,388	1,308	1,378	1,315	1,304	1,393	1,340	1,302
6.4	7.4	11.4	19.1	25.0	30.6	33.9	36.7	35.9	32.7	31.0	32.5	30.8	30.3	32.2	30.9	29.8
§§	§§	§§	§§	§§	§§	§§	1,805	1,685	1,546	1,473	1,376	1,419	1,408	1,393	1,374	1,380
							24.0	22.6	19.2	18.3	17.1	17.5	17.2	16.9	16.6	16.6
1,573	1,694	1,787	1,723	1,622	1,533	1,537	1,510	1,354	1,266	1,184	1,109	1,095	1,099	1,068	1,090	1,122
38.7	41.3	42.9	42.3	41.9	40.1	39.6	38.9	34.3	29.8	28.0	26.2	25.7	25.5	24.7	25.1	25.7
1,581	1,789	1,867	2,064	1,547	1,436	1,198	1,348	1,659	1,770	1,708	1,560	1,643	1,690	1,711	1,770	1,813
20.3	22.9	23.7	27.0	21.4	20.1	16.5	17.9	22.2	21.9	21.3	19.4	20.2	20.6	20.7	21.4	21.7
38,988	39,943	41,981	40,639	37,978	37,818	33,527	32,074	29,330	26,663	24,760	24,300	24,016	22,950	21,043	20,044	19,808
499.5	510.2	532.4	531.1	524.8	529.1	461.0	426.4	393.2	330.3	308.2	301.5	295.7	280.1	255.0	242.4	237.6
6,013	6,174	6,277	5,433	4,174	3,194	2,927	2,256	2,058	1,807	1,669	1,563	1,512	1,448	1,583	1,750	1,647
77.0	78.9	79.7	71.0	57.7	44.7	40.2	30.0	27.6	22.4	20.8	19.4	18.6	17.7	19.2	21.2	19.8
3,459	3,394	3,562	3,164	3,000	2,740	3,354	2,810	2,548	2,726	2,578	2,247	2,300	2,278	2,457	2,492	2,245
44.3	43.4	45.2	41.4	41.5	38.3	46.1	37.4	34.2	33.8	32.1	27.9	28.3	27.8	29.8	30.1	26.9
651	960	1,425	1,627	1,583	1,941	2,507	1,943	2,025	2,037	1,722	1,778	1,943	1,945	2,158	2,278	2,209
8.3	12.3	18.1	21.3	21.9	27.2	34.5	25.8	27.1	25.2	21.4	22.1	23.9	23.7	26.1	27.5	26.5
1,858	2,386	2,936	2,440	2,185	1,789	1,289	946	697	521	454	453	542	494	521	550	534
23.8	30.5	37.3	31.9	30.2	25.0	17.7	12.6	9.3	6.5	5.7	5.6	6.7	6.0	6.3	6.7	6.4
573	509	447	372	381	383	816	311	564	654	468	435	385	371	487	453	461
7.3	6.5	5.7	4.9	5.3	5.4	11.2	4.1	7.6	8.1	5.8	5.4	4.7	4.5	5.9	5.5	5.5
96	263	551	677	414	573	787	947	875	866	903	149††	129	136	144	158	152
1.2	3.4	7.0	8.8	5.7	8.0	10.8	12.6	11.7	10.7	11.2	1.8	1.6	1.7	1.7	1.9	1.8
§§	§§	§§	§§	§§	1	143	49	26	41	76	700††	607	562	521	600	660
					||	2.0	0.7	0.3	0.5	0.9	8.5	7.5	6.9	6.3	7.3	7.9
655	714	887	834	606	477	624	554	419	386	385	300	320	291	279	283	315
8.4	9.1	11.3	10.9	8.4	6.7	8.6	7.4	5.6	4.8	4.8	3.7	3.9	3.6	3.4	3.4	3.8
1,095	951	871	755	525	486	589	508	§§	§§	§§	§§	§§	§§	§§	§§	§§
14.0	12.1	11.1	9.9	7.3	6.8	8.1	6.8									
2,091	1,947	1,730	1,239	926	812	880	394	493	792	734	735	724	712	654	735	719
26.8	24.9	22.0	16.2	12.8	11.4	12.1	5.2	6.6	9.8	9.1	9.1	8.9	8.7	7.9	8.9	8.6
711	908	680	641	711	603	600	599	514	483	459	477	473	475	503	509	557
9.1	11.6	8.6	8.4	9.8	8.4	8.3	8.0	6.9	6.0	5.7	5.9	5.8	5.8	6.1	6.2	6.7
366	592	992	1,663	1,700	1,763	1,902	1,815	778	624	624	517	558	496	551	528	440
4.7	7.6	12.6	21.7	23.5	24.7	26.2	24.1	10.4	7.7	7.8	6.4	6.9	6.1	6.7	6.4	5.3
§§	§§	946	1,062	699	696	504	161	151	232	263	185	192	201	217	247	241
		10.9	13.9	9.7	9.7	6.9	2.0	2.0	2.9	3.3	2.3	2.4	2.5	2.6	3.0	2.9
§§	§§	§§	§§	§§	§§	§§	84	115	232	246	283	374	520	577	626	696
							1.2	1.5	2.9	3.1	3.5	4.6	6.3	7.0	7.6	8.3
§§	§§	§§	§§	§§	§§	§§	269	243	196	149	135	149	152	185	171	166
							3.7	3.3	2.4	1.9	1.7	1.8	1.9	2.2	2.1	2.0

Table M14. Alcohol-attributable Deaths Due to Excessive Alcohol Use, Age ≥20 Years, New York City, 2012*

Total for All Causes	Total	Male	Female
	1,801	1,304	496
Chronic Causes			
Acute pancreatitis	11	7	4
Alcohol abuse	59	51	8
Alcohol cardiomyopathy	10	9	1
Alcohol dependence syndrome	169	134	35
Alcohol polyneuropathy	1	1	0
Alcohol-induced chronic pancreatitis	1	1	0
Alcoholic liver disease	360	261	99
Alcoholic psychosis	3	2	1
Breast cancer (females only)	13	0	13
Cholelithiases	0	0	0
Chronic pancreatitis	5	3	3
Epilepsy	6	3	3
Esophageal cancer	7	6	2
Gastroesophageal hemorrhage	< 1	< 1	0
Hypertension	85	43	43
Ischemic heart disease	25	14	11
Laryngeal cancer	6	5	1
Liver cancer	40	29	11
Liver cirrhosis, unspecified	96	57	40
Low birth weight, prematurity, IUGR*	5	3	2
Oropharyngeal cancer	8	6	2
Portal hypertension	< 1	< 1	0
Prostate cancer (males only)	5	5	0
Psoriasis	< 1	< 1	0
Stroke, hemorrhagic	32	26	6
Stroke, ischemic	8	5	3
Superventricular cardiac dysrthymia	2	1	1
Subtotal	959	670	289
Acute Causes			
Alcohol poisoning	73	58	15
Aspiration	2	1	1
Child maltreatment	4	3	1
Drowning	4	3	1
Fall injuries	122	74	49
Fire injuries	18	9	9
Firearm injuries	< 1	< 1	0
Homicide	194	167	27
Hypothermia	2	2	0
Motor-vehicle nontraffic crashes	1	1	< 1
Motor-vehicle traffic crashes	95	77	19
Occupational and machine injuries	1	1	0
Other road vehicle crashes	5	5	< 1
Poisoning (not alcohol)	193	144	49
Suicide	127	90	37
Subtotal	842	634	207

Note: Alcohol prevalence data are provided by the Bureau of Epidemiology Services. See Technical Notes: Deaths, Smoking- and Alcohol-attributable Mortality.

* IUGR = Intrauterine growth restriction.

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

Table M15. Deaths and Age-adjusted Death Rates for Selected Smoking-related Causes of Death per 100,000 Population (35 years and over) New York City, 2012

Causes of Death	All		Hispanic		Asian & P.I.		Non-Hispanic White		Non-Hispanic Black		Male		Female	
	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate
Major Cardiovascular Diseases	19,676	440.2	3,036	355.0	1,135	258.2	10,111	457.0	5,082	536.7	9,181	536.4	10,495	368.9
Cerebrovascular Diseases	1,624	36.7	288	33.1	172	39.7	696	32.2	434	45.5	657	37.9	967	35.0
Malignant Neoplasms of Trachea, Bronchus and Lung	2,880	65.8	372	39.6	268	54.8	1,477	77.7	729	73.5	1,579	87.7	1,301	50.7
Chronic Lower Respiratory Diseases	1,618	37.1	285	33.1	93	22.4	856	41.6	364	38.3	714	42.5	904	33.5
Malignant Neoplasm of Esophagus	225	5.0	43	4.6	17	3.0	109	5.7	55	5.3	160	8.6	65	2.4
Malignant Neoplasms of Lip, Oral Cavity and Pharynx	206	4.6	40	4.0	31	5.2	84	4.6	47	4.7	138	7.2	68	2.7
Malignant Neoplasm of Larynx	95	2.1	26	2.6	5	1.1	35	1.8	29	2.9	75	4.0	20	0.8

AGE GROUP/ETHNIC GROUP		ALL													
		1983-2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	1983-2002	2003	2004
ALL AGES	Total	69,907	1,656	1,451	1,419	1,209	1,115	1,073	933	832	766	609	53,896	1,100	943
	Puerto Rican	13,006	323	300	289	220	224	217	187	196	186	115	9,597	213	204
	Other Hispanic	6,215	167	113	129	111	103	118	105	72	46	37	5,117	113	79
	Asian & Pacific Islander	456	8	6	7	10	5	10	3	6	4	5	404	8	5
	Non-Hispanic White	18,049	245	192	196	178	143	129	90	100	94	80	15,792	181	146
	Non-Hispanic Black	28,525	846	793	769	660	625	583	537	449	421	359	20,041	536	481
	Other or Unknown	3,656	67	47	29	30	15	16	11	9	15	13	2,945	49	28
UNDER 1	Total	313	1	–	–	–	–	–	–	–	–	1	158	–	–
	Puerto Rican	42	–	–	–	–	–	–	–	–	–	–	24	–	–
	Other Hispanic	30	–	–	–	–	–	–	–	–	–	–	16	–	–
	Asian & Pacific Islander	1	–	–	–	–	–	–	–	–	–	–	1	–	–
	Non-Hispanic White	48	–	–	–	–	–	–	–	–	–	–	31	–	–
`	Non-Hispanic Black	173	1	–	–	–	–	–	–	–	–	1	78	–	–
	Other or Unknown	19	–	–	–	–	–	–	–	–	–	–	8	–	–
1-14	Total	942	9	6	4	1	2	–	1	–	–	1	481	3	4
	Puerto Rican	167	–	1	2	–	–	–	–	–	–	–	88	–	–
	Other Hispanic	99	1	1	1	1	1	–	–	–	–	–	54	–	–
	Asian & Pacific Islander	6	–	–	–	–	–	–	–	–	–	–	3	–	–
	Non-Hispanic White	153	1	–	–	–	1	–	–	–	–	–	82	1	–
	Non-Hispanic Black	471	7	4	1	–	–	–	1	–	–	1	235	2	4
	Other or Unknown	46	–	–	–	–	–	–	–	–	–	–	19	–	–
15-24	Total	1,043	18	15	22	22	19	17	14	8	16	11	626	7	8
	Puerto Rican	232	1	2	4	1	7	3	2	1	4	2	133	1	1
	Other Hispanic	120	4	–	2	5	4	–	3	–	–	2	85	2	–
	Asian & Pacific Islander	6	1	–	–	–	–	–	–	1	–	–	4	1	–
	Non-Hispanic White	155	–	1	1	1	–	1	3	–	–	–	104	–	1
	Non-Hispanic Black	466	12	11	15	13	8	13	6	6	12	7	263	3	5
	Other or Unknown	64	–	1	–	2	–	–	–	–	–	–	37	–	1
25-34	Total	16,741	123	90	92	63	52	77	49	37	40	34	12,105	76	45
	Puerto Rican	3,487	20	12	12	4	8	8	7	11	2	3	2,441	12	5
	Other Hispanic	1,767	15	8	12	6	4	11	3	8	8	6	1,408	12	6
	Asian & Pacific Islander	91	–	1	–	–	1	–	1	–	2	1	77	–	1
	Non-Hispanic White	4,025	10	12	7	9	3	6	5	1	3	1	3,355	8	9
	Non-Hispanic Black	6,481	75	56	59	44	35	52	33	17	25	23	4,154	43	23
	Other or Unknown	890	3	1	2	–	1	–	–	–	–	–	670	1	1
35-44	Total	29,846	568	467	407	343	311	246	190	142	125	90	23,180	330	280
	Puerto Rican	5,418	114	101	71	65	64	57	45	34	28	17	4,070	65	65
	Other Hispanic	2,482	60	33	48	41	27	37	28	19	8	4	2,064	32	23
	Asian & Pacific Islander	183	3	2	3	4	2	3	1	–	1	2	171	3	1
	Non-Hispanic White	8,061	85	71	45	45	46	34	18	16	12	15	7,070	55	53
	Non-Hispanic Black	12,166	281	250	224	182	168	113	98	71	76	49	8,566	156	134
	Other or Unknown	1,536	25	10	16	6	4	2	–	2	–	3	1,239	19	4
45-54	Total	15,042	640	594	586	502	448	425	352	330	287	217	12,333	451	395
	Puerto Rican	2,717	127	127	140	99	84	89	65	85	75	46	2,106	91	91
	Other Hispanic	1,169	58	45	49	40	43	46	46	29	15	14	1,017	45	31
	Asian & Pacific Islander	110	4	2	3	3	–	5	–	3	–	–	102	4	2
	Non-Hispanic White	3,995	103	73	93	76	61	45	35	37	41	28	3,667	77	53
	Non-Hispanic Black	6,249	322	322	294	272	256	231	200	173	150	123	4,733	216	203
	Other or Unknown	802	26	25	7	12	4	9	6	3	6	6	708	18	15
≥55	Total	5,980	296	279	308	278	283	308	327	315	298	255	5,013	232	211
	Puerto Rican	943	61	57	60	51	61	60	68	65	77	47	735	44	42
	Other Hispanic	548	29	26	17	18	24	24	25	16	15	11	473	22	19
	Asian & Pacific Islander	59	–	1	1	3	2	2	1	2	1	2	46	–	1
	Non-Hispanic White	1,612	46	35	50	47	32	43	29	46	38	36	1,483	40	30
	Non-Hispanic Black	2,519	148	150	176	149	158	174	199	182	158	155	2,012	116	112
	Other or Unknown	299	12	10	4	10	6	5	5	4	9	4	264	10	7

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, 1983-2012

MALE								FEMALE										
2005	2006	2007	2008	2009	2010	2011	2012	1983-2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
949	818	711	702	603	574	528	402	16,011	556	508	470	391	404	371	330	258	238	207
206	163	142	138	125	135	123	75	3,409	110	96	83	57	82	79	62	61	63	40
100	78	76	84	71	54	39	28	1,098	54	34	29	33	27	34	34	18	7	9
6	8	3	7	2	3	2	4	52	–	1	1	2	2	3	1	3	2	1
143	139	103	104	68	76	75	63	2,257	64	46	53	39	40	25	22	24	19	17
475	407	377	356	329	297	277	223	8,484	310	312	294	253	248	227	208	152	144	136
19	23	10	13	8	9	12	9	711	18	19	10	7	5	3	3	–	3	4
–	–	–	–	–	–	–	–	155	1	–	–	–	–	–	–	–	–	1
–	–	–	–	–	–	–	–	18	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	14	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	17	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	95	1	–	–	–	–	–	–	–	–	1
–	–	–	–	–	–	–	–	11	–	–	–	–	–	–	–	–	–	–
2	–	1	–	1	–	–	1	461	6	2	2	1	1	–	–	–	–	–
1	–	–	–	–	–	–	–	79	–	1	1	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	45	1	1	1	1	1	–	–	–	–	–
–	–	–	–	–	–	–	–	3	–	–	–	–	–	–	–	–	–	–
–	–	1	–	–	–	–	–	71	–	–	–	–	–	–	–	–	–	–
1	–	–	–	1	–	–	1	236	5	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	27	–	–	–	–	–	–	–	–	–	–
14	12	9	7	5	4	13	5	417	11	7	8	10	10	10	9	4	3	6
4	1	3	–	–	–	2	–	99	–	1	–	–	4	3	2	1	2	2
2	3	4	–	–	–	–	1	35	2	–	–	2	–	–	3	–	–	1
–	–	–	–	–	1	–	–	2	–	–	–	–	–	–	–	–	–	–
1	–	–	1	2	–	–	–	51	–	–	–	1	–	–	1	–	–	–
7	7	2	6	3	3	11	4	203	9	6	8	6	6	7	3	3	1	3
–	1	–	–	–	–	–	–	27	–	–	–	1	–	–	–	–	–	–
59	41	32	48	32	27	29	24	4,636	47	45	33	22	20	29	17	10	11	10
6	2	3	5	6	7	2	2	1,046	8	7	6	2	5	3	1	4	–	1
9	4	4	10	2	6	7	5	359	3	2	3	2	–	1	1	2	1	1
–	–	–	–	–	–	1	1	14	–	–	–	–	1	–	1	–	1	–
5	6	2	4	5	1	2	1	670	2	3	2	3	1	2	–	–	1	–
38	29	22	29	19	13	17	15	2,327	32	33	21	15	13	23	14	4	8	8
1	–	1	–	–	–	–	–	220	2	–	1	–	–	–	–	–	–	–
241	211	177	144	111	94	77	54	6,666	238	187	166	132	134	102	79	48	48	36
46	47	41	30	26	20	17	10	1,348	49	36	25	18	23	27	19	14	11	7
32	28	17	23	16	14	8	1	418	28	10	16	13	10	14	12	5	–	3
3	3	1	3	1	–	–	1	12	–	1	–	1	1	–	–	–	1	1
31	28	32	22	12	11	10	13	991	30	18	14	17	14	12	6	5	2	2
120	100	83	65	56	47	42	28	3,600	125	116	104	82	85	48	42	24	34	21
9	5	3	1	–	2	–	1	297	6	6	7	1	1	1	–	–	–	2
400	342	289	275	225	219	183	136	2,709	189	199	186	160	159	150	127	111	104	81
101	74	58	56	51	62	43	29	611	36	36	39	25	26	33	14	23	32	17
43	29	32	33	35	20	12	12	152	13	14	6	11	11	13	11	9	3	2
2	2	–	3	–	1	–	–	8	–	–	1	1	–	2	–	2	–	–
69	65	40	37	25	28	30	22	328	26	20	24	11	21	8	10	9	11	6
180	164	156	139	111	105	95	69	1,516	106	119	114	108	100	92	89	68	55	54
5	8	3	7	3	3	3	4	94	8	10	2	4	1	2	3	–	3	2
233	212	203	228	229	230	226	182	967	64	68	75	66	80	80	98	85	72	73
48	39	37	47	42	46	59	34	208	17	15	12	12	24	13	26	19	18	13
14	14	19	18	18	14	12	9	75	7	7	3	4	5	6	7	2	3	2
1	3	2	1	1	1	1	2	13	–	–	–	–	–	1	–	1	–	–
37	40	28	40	24	36	33	27	129	6	5	13	7	4	3	5	10	5	9
129	107	114	117	139	129	112	106	507	32	38	47	42	44	57	60	53	46	49
4	9	3	5	5	4	9	4	35	2	3	–	1	3	–	–	–	–	–

Table M17. Selected Characteristics of Deaths Due to Fatal Occupational Injuries, New York City, 2012

Characteristics	All Deaths	Selected Event or exposure†‡				
		Contact with objects and equipment	Exposure to harmful substances or environments	Falls, slips or trips	Transportation incident	Violence and other injuries by persons or animals
Total	76	7	7	21	13	26
Selected Industries						
Government§ (Federal, State, Local)	7					4
Private industries§	69	6	6	20	13	22
Goods producing (construction only)	20	4	3	11		
Service providing	49		3	9	11	22
Education and health services (health care and social assistance)	4					
Financial activities	3					
Information	4					
Leisure and hospitality (Accommodation and food services)	3					
Professional and business services	4			3		
Trade, transportation, and utilities (Retail trade, wholesale trade, transportation and warehouse)	26				8	14
Other services	4					
Race or ethnic origin||						
Non-Hispanic White	28		5	6	5	11
Non-Hispanic Black	14					9
Hispanic	23	4		9	3	4
Asian	11			5	3	
Age						
<25 years	5					
25-34 years	17					9
35-44 years	13			6		
45-54 years	13			3	4	4
55 - 64 years	15			4	5	4
>65 years	13			5		5

*Source Bureau of Labor Statistics: Fatal Occupational Injuries in New York City http://www.bls.gov/iif/oshwc/cfoi/tgs/2012/iiffw68.htm

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

‡Empty cells are either zero or censored fatalities; rows or columns may not sum to totals.

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

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

Table M18. Deaths Due to Accidents, Overall and by Age and Sex, New York City, 2012

Type	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	1,694	17	10	4	3	8	3	22	3	83	24	197	41	187	48	250	96	179	65	82	44	164	164
Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist	86	-	2	1	3	1	-	-	2	12	3	13	5	4	3	6	5	6	1	3	2	8	6
Injury to Pedestrians	181	3	-	1	-	2	2	4	1	13	6	20	5	15	5	17	6	14	10	16	10	17	14
Collision with motor vehicle	162	3	-	1	-	2	2	3	1	10	6	16	5	13	3	11	6	14	10	15	10	17	14
Collision with railway transportation	18	-	-	-	-	-	-	-	-	3	-	4	-	2	2	6	-	-	-	1	-	-	-
Other collision	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Injury to Pedal Cyclist	23	-	-	-	-	1	-	3	-	2	1	3	-	4	-	3	-	3	-	2	-	1	-
Collision with motor vehicle	14	-	-	-	-	1	-	3	-	2	1	1	-	2	-	2	-	1	-	-	-	1	-
Other collision	9	-	-	-	-	-	-	-	-	-	-	2	-	2	-	1	-	2	-	2	-	-	-
Injury to Motorcyclist	39	-	-	-	-	-	-	2	-	6	-	10	1	11	-	7	-	1	-	-	-	-	1
Water Transport Accidents	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air and Space Transport Accidents	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Transport Accidents	15	-	-	-	-	-	-	-	-	1	-	3	-	1	-	5	-	-	2	-	-	1	2
Sequelae (Late Effects) of Transport Accidents	12	-	-	-	-	-	-	-	-	-	-	3	-	2	-	1	1	1	1	1	2	-	-
Fall	384	2	-	-	-	-	-	1	-	10	-	8	2	15	1	25	6	35	10	26	12	110	121
Firearm Discharge	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	17	1	1	1	-	2	-	1	-	-	-	3	-	1	-	2	-	-	-	1	1	2	1
Smoke, Fire, and Flames	44	-	-	1	-	1	-	2	-	2	1	2	-	3	1	1	2	3	3	2	7	6	7
Victim of Cataclysmic Storm	44	2	-	-	-	-	1	-	-	2	2	2	-	-	-	3	1	8	2	7	3	7	4
Poisoning by Noxious Substances	739	-	-	-	-	-	-	7	-	31	8	122	27	125	38	164	71	95	32	10	4	2	3
Poisoning by psychoactive substances*	660	-	-	-	-	-	-	7	-	31	7	113	25	106	35	151	68	77	28	5	3	2	2
Poisoning by other noxious substances	79	-	-	-	-	-	-	-	-	-	1	9	2	19	3	13	3	18	4	5	1	-	1
Exposure to Excessive Natural Heat	5	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	1	1	-	-	-	-
Exposure to Excessive Natural Cold	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	-	-	-
Suffocation	42	8	6	-	-	-	-	-	-	-	3	1	1	2	-	4	2	3	2	1	2	3	4
Contact with Machinery	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-
Other Nontransport Accidents	40	1	1	-	-	1	-	-	-	2	-	4	-	3	-	10	1	2	1	8	-	5	1
Sequelae (Late Effects) of Nontransport Accidents	15	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	1	4	-	4	1	1	-

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

Table M19. Deaths Due to Intentional Self-harm (Suicide), Overall and by Age and Sex, New York City, 2012

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	557	-	-	-	-	2	4	13	10	33	10	66	28	64	19	88	37	68	29	29	12	31	14
Poisoning by Drug and Medicinal Substances	83	-	-	-	-	-	-	-	-	1	1	2	9	14	3	11	14	11	6	2	2	3	4
Poisoning by Other Substances	11	-	-	-	-	-	-	-	-	1	1	2	-	1	-	1	1	2	1	1	-	-	-
Hanging, Strangulation, and Suffocation	186	-	-	-	-	2	3	4	4	12	4	28	8	20	5	29	10	24	11	7	2	9	4
Drowning and Submersion	26	-	-	-	-	-	1	2	-	4	1	2	1	-	-	6	2	4	1	2	-	-	-
Firearm Discharge	62	-	-	-	-	-	-	2	-	3	-	10	1	7	2	16	-	6	-	8	-	7	-
Sharp Object	20	-	-	-	-	-	-	-	-	-	-	2	-	1	-	7	1	3	2	.	2	1	1
Jumping From High Place	137	-	-	-	-	-	-	3	2	7	3	15	7	19	8	14	8	16	7	7	6	10	5
Jumping or Lying Before Moving Object	25	-	-	-	-	-	-	1	3	4	-	5	2	1	1	3	1	1	-	2	-	1	-
Other and Unspecified Means	6	-	-	-	-	-	-	1	-	1	-	-	-	1	-	1	-	1	1	-	-	-	-
Sequelae (Late Effects)	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table M20. Deaths Due to Assault (Homicide) and Legal Intervention, Overall and by Age and Sex, New York City, 2012

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	454	11	7	4	1	3	1	43	3	96	6	123	13	46	13	29	7	19	9	7	3	6	4
Poisoning by Noxious Substances	4	1	.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Hanging, Strangulation, and Suffocation	12	1	1	1	-	-	-	-	1	-	1	-	-	2	1	-	1	1	1	-	-	1	-
Drowning and Submersion	5	2	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Firearm Discharge	243	1	-	1	-	3	1	26	-	72	2	80	4	30	5	9	1	3	1	1	2	1	-
Smoke, Fire, and Flames	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
Sharp Object	88	1	.	-	1	-	-	9	2	17	-	21	6	7	5	6	3	5	3	-	1	-	1
Blunt Object	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pushing From High Place	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bodily Force	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neglect, Abandonment, and Other Maltreatment	7	2	2	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-
Other and Unspecified Means	67	3	3	-	-	-	-	1	-	2	2	17	3	5	2	8	1	7	3	5	-	3	2
Sequelae (Late Effects)	10	-	-	-	-	-	-	1	-	1	-	-	-	2	-	2	-	1	1	1	-	1	-
Legal Intervention, All*	14	-	-	-	-	-	-	3	-	3	1	3	-	-	-	3	-	1	-	-	-	-	-

* All legal intervention deaths are from firearm discharge. See Technical Notes: Deaths, Homicide.

Table M21. Deaths Due to Events of Undetermined Intent, Overall and by Age and Sex, New York City, 2012

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75		Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	241	19	18	-	-	-	-	2	1	11	2	27	8	23	9	29	9	24	13	17	7	13	8	-	1
Poisoning by Noxious Substances	24	-	1	-	-	-	-	-	-	1	2	2	2	5	1	2	2	4	1	-	1	-	-	-	-
Hanging, Strangulation, and Suffocation	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Drowning and Submersion	13	-	-	-	-	-	-	-	-	1	-	3	1	3	-	1	-	2	-	1	-	1	-	-	-
Firearm Discharge	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke, Fire, and Flames	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Falling From High Place	8	-	-	-	-	-	-	-	-	-	-	2	-	1	-	3	-	2	-	-	-	-	-	-	-
Other and Unspecified Means	188	18	17	-	-	-	-	1	1	9	-	18	5	14	8	22	7	16	12	15	6	11	7	-	1
Sequelae (Late Effects)	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-

Table M22. Deaths Due to Complications of Medical and Surgical Care, Overall and by Age and Sex, New York City, 2012

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	33	1	-	-	-	-	-	-	-	-	-	-	-	1	3	-	1	2	3	2	5	4	11
Adverse Effects From Drugs, Medicaments, Biological Substances for Therapeutic Use	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	1	1
Medical Misadventures to Patients During Surgical and Medical Care	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	1
Other and Unspecified Means	22	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	2	3	3	9
Sequelae (Late Effects)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-

Table M23. Deaths Due to Firearms (All Causes), Overall and by Age and Sex, New York City, 2012

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Firearms (All Causes)	322	1	-	1	-	3	1	32	-	78	3	95	5	37	7	28	1	10	1	9	2	8	-

MORTALITY

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

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

Exact Age in Years	Male							
	1999-2001†				2009-2011			
	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	37.2	44.5	44.9	44.9	40.8
40	36.8	37.9	37.1	32.9	39.8	40.2	40.1	36.3
45	32.4	33.6	32.7	28.8	35.2	35.7	35.4	32.0
50	28.3	29.5	28.5	25.2	30.8	31.3	31.0	27.9
55	24.4	25.6	24.4	21.8	26.7	27.2	26.8	24.0
60	20.6	21.8	20.5	18.4	22.7	23.2	22.8	20.5
65	17.0	18.2	16.9	15.3	19.0	19.5	19.0	17.2
70	13.8	14.9	13.6	12.6	15.5	16.1	15.3	14.2
75	10.8	12.0	10.6	10.2	12.2	13.0	12.0	11.4
80	8.2	9.4	7.9	8.2	9.3	10.1	9.0	9.0
85	6.1	7.3	5.7	6.6	6.8	7.5	6.5	6.9

Exact Age in Years	Female							
	1999-2001†				2009-2011			
	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
50	32.6	34.5	32.6	30.3	34.9	36.2	34.8	32.7
55	28.3	30.0	28.2	26.3	30.5	31.7	30.3	28.5
60	24.1	25.7	23.9	22.4	26.1	27.3	25.9	24.5
65	20.1	21.5	19.9	18.8	21.9	23.0	21.6	20.7
70	16.4	17.7	16.1	15.5	18.0	18.9	17.7	17.1
75	12.9	14.1	12.6	12.5	14.2	15.1	13.9	13.7
80	9.7	10.8	9.4	9.8	10.8	11.5	10.5	10.6
85	7.0	7.9	6.7	7.3	7.8	8.4	7.5	7.8

Note: Three-year average death data are used to estimate above decennial life expectancy to smooth the outcome. See Technical Notes: Life Expectancy.

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

† World Trade Center (WTC) disaster deaths are excluded. See Special Section in 2002 Summary of Vital Statistics, Table WTC10, for the impact of WTC deaths on life expectancy in New York City.

MORTALITY

Table M25. Life Expectancy at Specified Ages, Overall and by Sex, New York City, 2002-2011*

Age in years	Total									
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
0	78.2	78.5	79.0	79.2	79.7	80.1	80.2	80.6	80.9	80.8
1	77.7	77.9	78.5	78.7	79.1	79.6	79.6	80.0	80.3	80.2
5	73.7	74.0	74.5	74.7	75.2	75.6	75.7	76.1	76.3	76.3
10	68.8	69.1	69.6	69.8	70.3	70.7	70.7	71.1	71.4	71.3
15	63.8	64.1	64.7	64.8	65.3	65.7	65.8	66.2	66.4	66.3
20	59.0	59.3	59.8	60.0	60.4	60.8	60.9	61.3	61.6	61.5
25	54.1	54.4	55.0	55.2	55.6	56.0	56.1	56.4	56.7	56.6
30	49.3	49.6	50.1	50.3	50.8	51.2	51.3	51.6	51.9	51.8
35	44.6	44.9	45.3	45.5	46.0	46.3	46.5	46.8	47.1	47.0
40	40.0	40.2	40.6	40.8	41.3	41.6	41.7	42.0	42.3	42.2
45	35.5	35.7	36.1	36.3	36.7	37.0	37.1	37.4	37.6	37.6
50	31.2	31.4	31.8	31.9	32.3	32.6	32.7	33.0	33.1	33.1
55	27.0	27.2	27.6	27.7	28.1	28.4	28.4	28.7	28.8	28.7
60	23.0	23.2	23.6	23.7	24.1	24.3	24.3	24.6	24.7	24.6
65	19.2	19.3	19.6	19.8	20.1	20.4	20.4	20.6	20.8	20.7
70	15.6	15.7	16.0	16.1	16.4	16.6	16.7	16.9	17.0	16.9
75	12.3	12.4	12.5	12.6	12.9	13.1	13.2	13.4	13.5	13.4
80	9.4	9.5	9.6	9.6	9.8	10.0	10.0	10.2	10.3	10.2
85	6.9	7.0	7.1	7.1	7.2	7.4	7.3	7.5	7.5	7.4

Age in years	Male									
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
0	75.2	75.5	76.3	76.4	76.8	77.3	77.5	77.8	78.1	78.1
1	74.7	75.1	75.8	75.9	76.3	76.8	76.9	77.3	77.5	77.5
5	70.8	71.1	71.8	72.0	72.4	72.9	73.0	73.3	73.6	73.5
10	65.8	66.2	66.9	67.0	67.5	67.9	68.0	68.4	68.6	68.6
15	60.9	61.2	62.0	62.1	62.5	62.9	63.1	63.4	63.6	63.6
20	56.1	56.4	57.1	57.3	57.7	58.1	58.2	58.6	58.8	58.8
25	51.3	51.7	52.4	52.6	52.9	53.4	53.5	53.8	54.1	54.0
30	46.6	47.0	47.6	47.8	48.2	48.6	48.7	49.1	49.3	49.3
35	41.9	42.3	42.9	43.0	43.4	43.8	44.0	44.3	44.5	44.5
40	37.4	37.7	38.2	38.4	38.8	39.1	39.3	39.6	39.8	39.8
45	33.0	33.3	33.8	33.9	34.3	34.7	34.8	35.0	35.2	35.2
50	28.8	29.1	29.6	29.7	30.0	30.4	30.5	30.7	30.8	30.8
55	24.8	25.1	25.6	25.7	26.0	26.3	26.4	26.6	26.7	26.6
60	21.0	21.3	21.8	21.9	22.2	22.4	22.5	22.6	22.7	22.7
65	17.4	17.7	18.0	18.1	18.4	18.7	18.7	18.9	19.0	19.0
70	14.1	14.2	14.6	14.7	14.9	15.1	15.3	15.4	15.5	15.5
75	11.1	11.2	11.3	11.5	11.6	11.8	12.1	12.2	12.2	12.2
80	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.3	9.3	9.3
85	6.3	6.5	6.6	6.5	6.5	6.7	6.7	6.8	6.8	6.7

Age in years	Female									
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
0	80.8	81.0	81.3	81.6	82.1	82.5	82.6	83.0	83.3	83.2
1	80.2	80.4	80.8	81.0	81.5	81.9	82.0	82.3	82.7	82.5
5	76.3	76.5	76.8	77.1	77.6	78.0	78.0	78.4	78.7	78.6
10	71.3	71.6	71.9	72.1	72.6	73.0	73.1	73.4	73.8	73.6
15	66.4	66.6	67.0	67.2	67.7	68.1	68.1	68.5	68.8	68.7
20	61.5	61.7	62.0	62.3	62.8	63.1	63.2	63.5	63.9	63.7
25	56.6	56.8	57.1	57.4	57.8	58.2	58.3	58.6	58.9	58.8
30	51.7	51.9	52.2	52.5	52.9	53.3	53.4	53.7	54.0	53.9
35	46.8	47.0	47.4	47.6	48.1	48.4	48.5	48.8	49.1	49.0
40	42.1	42.3	42.6	42.8	43.3	43.6	43.7	44.0	44.3	44.2
45	37.6	37.7	38.0	38.2	38.7	38.9	39.0	39.3	39.6	39.5
50	33.1	33.3	33.5	33.7	34.2	34.4	34.5	34.8	35.0	34.9
55	28.7	28.9	29.1	29.3	29.7	30.0	30.0	30.4	30.5	30.4
60	24.5	24.6	24.9	25.1	25.5	25.7	25.7	26.0	26.2	26.1
65	20.4	20.6	20.8	20.9	21.3	21.6	21.6	21.9	22.0	21.9
70	16.6	16.7	16.9	17.0	17.4	17.6	17.6	17.9	18.1	17.9
75	13.0	13.2	13.3	13.3	13.7	13.9	13.9	14.2	14.4	14.2
80	9.8	10.0	10.1	10.1	10.4	10.6	10.6	10.8	10.9	10.7
85	7.1	7.3	7.4	7.4	7.6	7.7	7.6	7.8	7.8	7.7

Note: Life expectancy for year 2012 is not presented since national data are required and are not yet available. Life expectancy for year 2011 is preliminary.

* Population data from 2002-2009 are interpolated based on 2000 and 2010 Census counts. Population data for 2011 Life expectancy are from 2010 US Census since the life tables are drived from complete life table which require 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, 2012

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	443,253	100.0	271,010	100.0	172,243	100.0
Malignant Neoplasms	111,078	25.1	54,663	20.2	56,415	32.8
Trachea, bronchus, and lung	20,034	4.5	11,430	4.2	8,604	5.0
Breast	12,149	2.7	22	0.0	12,127	7.0
Colon, rectum, and anus	10,508	2.4	5,787	2.1	4,721	2.7
Liver & intrahepatic bile ducts	7,383	1.7	5,556	2.1	1,827	1.1
Pancreas	6,719	1.5	3,673	1.4	3,046	1.8
Heart Disease	71,720	16.2	48,791	18.0	22,929	13.3
Use of or Poisoning by Psychoactive Substance	24,734	5.6	18,416	6.8	6,318	3.7
Accidents Except Poisoning by Psychoactive Substance	21,914	4.9	17,010	6.3	4,904	2.8
Motor vehicle	9,446	2.1	6,997	2.6	2,449	1.4
Assault (Homicide)	19,230	4.3	16,790	6.2	2,440	1.4
Intentional Self-harm (Suicide)	16,035	3.6	11,308	4.2	4,727	2.7
HIV Disease	14,028	3.2	8,916	3.3	5,112	3.0
Diabetes Mellitus	12,409	2.8	7,897	2.9	4,512	2.6
Cerebrovascular Diseases	9,435	2.1	5,539	2.0	3,896	2.3
Chronic Liver Disease and Cirrhosis	8,527	1.9	6,072	2.2	2,455	1.4
Chronic Lower Respiratory Diseases	8,359	1.9	4,533	1.7	3,826	2.2
Influenza and Pneumonia	7,895	1.8	4,635	1.7	3,260	1.9
Viral Hepatitis	5,658	1.3	3,913	1.4	1,745	1.0
Mental and Behavioral Disorders Due to Use of Alcohol	4,867	1.1	3,839	1.4	1,028	0.6
All Other Causes	107,364	24.2	58,688	21.7	48,676	28.3

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

Table M27. Death rates by Poverty Level Indicator, New York City, 2003, 2012

Age-adjusted Death Rates	Low (< 10%)			Medium (10 to < 20%)			High (20 to < 30%)			Very High (≥ 30%)		
	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)
All Causes	476.0	604.2	-21.2%	520.8	643.9	-19.1%	582.3	718.0	-18.9%	701.7	880.4	-20.3%
Premature Deaths	125.9	157.2	-19.9%	156.9	182.8	-14.2%	186.5	236.1	-21.0%	254.3	353.0	-28.0%
10 Leading Causes												
Diseases of Heart	157.6	263.6	-40.2%	173.0	288.8	-40.1%	191.5	303.6	-36.9%	206.8	317.1	-34.8%
Malignant Neoplasms	129.1	152.4	-15.3%	131.0	148.0	-11.5%	137.9	151.5	-9.0%	163.4	173.6	-5.9%
Influenza and Pneumonia	19.6	29.0	-32.4%	21.9	29.3	-25.3%	27.8	33.6	-17.3%	33.3	43.3	-23.1%
Diabetes Mellitus	12.4	14.9	-16.8%	17.5	18.2	-3.8%	23.5	25.6	-8.2%	33.9	41.8	-18.9%
Chronic Lower Respiratory Diseases	15.7	18.4	-14.7%	17.1	17.2	-0.6%	18.6	21.0	-11.4%	24.0	27.2	-11.8%
Cerebrovascular Diseases	13.8	17.9	-22.9%	17.8	20.9	-14.8%	19.5	23.2	-15.9%	21.0	29.4	-28.6%
Accidents Except Poisoning by Psychoactive Substances	10.1	10.8	-6.5%	10.4	12.1	-14.0%	11.4	13.0	-12.3%	10.5	14.1	-25.5%
Essential Hypertension and Hypertensive Renal Diseases	8.2	6.0	36.7%	9.4	7.3	28.8%	11.8	9.7	21.6%	14.9	14.4	3.5%
Use of or Poisoning by Psychoactive Substance	6.7	5.6	19.6%	6.4	6.8	-5.9%	8.1	8.9	-9.0%	14.2	21.5	-34.0%
Alzheimers	6.3	3.5	80.0%	6.0	2.6	130.8%	7.1	2.4	195.8%	12.3	3.8	223.7%

Note: The 2003 poverty level is based on 2000 Census and the 2012 poverty level is based on 2007-2011 US Census Bureau American Community Survey.

M28. Top 10 Leading Causes of Death, New York City, 2012, 2011, and 2003

	2012		2011			2003		
Cause	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to 2012 (%)	Rank	Crude Death Rate	Change to 2012 (%)
Diseases of Heart*	1	200.7	1	204.4	-1.8%	1	295.1	-32.0%
Malignant Neoplasms	2	160.8	2	162.6	-1.1%	2	170.9	-5.9%
Influenza and Pneumonia	3	26.9	3	30.1	-10.6%	3	33.3	-19.2%
Diabetes Mellitus	4	21.7	5	21.4	1.4%	4	23.4	-7.3%
Chronic Lower Respiratory Diseases	5	19.8	4	21.5	-7.9%	6	20.7	-4.3%
Cerebrovascular Diseases	6	19.8	6	21.2	-6.6%	5	22.9	-13.5%
Accidents Except Poisoning by Psychoactive Substances†	7	12.4	7	12.3	0.8%	8	14.2	-12.7%
Essential Hypertension and Hypertensive Renal Diseases	8	11.8	8	11.7	0.9%	10	8.8	34.1%
Use of or Poisoning by Psychoactive Substance†	9	9.7	10	9.2	5.4%	9	11.9	-18.5%
Alzheimer's Disease	10	8.3	11	7.6	9.2%	20	3.1	167.7%

*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.

†Technical Note, Summary of Vital Statistics, Appendix B: Drug-Related Deaths for definition.

SPECIAL SECTION

HURRICANE SANDY RELATED DEATHS

Characteristics of Hurricane Sandy Deaths, 2012

	All Deaths	Percent
Total	44	100.0%
Sex		
Male	31	70.5%
Female	13	29.5%
Age		
<20 years	4	9.1%
21-54 years	9	20.5%
55-75 years	20	45.5%
>75 years	11	25.0%
Race/Ethnicity		
Non-Hispanic White	35	79.5%
Non-Hispanic Black	7	15.9%
Asian & Pacific Islanders	1	2.3%
Hispanic	1	2.9%
Education		
<High School	6	17.1%
High School Graduate	17	38.6%
Some College/Graduate	21	47.7%
Date of Hurricane Sandy Death*		
October 29, 2012	2	4.5%
October 30, 2012	26	59.1%
October 31, 2012	5	11.4%
November 1, 2012	5	11.4%
November 2-9, 2012	6	13.6%

*Most dates of death are actual. Others are the date when the body was discovered or estimated based on the Office of the Chief Medical Examiner investigation.

INFANT MORTALITY

Table IM1. Infant Deaths by Cause, Sex, and Age, New York City, 2012

	Cause of Death	Total	Male		Female	
			Neonatal (<28 Days)	Post-neonatal (≥ 28 Days)	Neonatal (<28 Days)	Post-neonatal (≥ 28 Days)
	Total	**583**	**214**	**103**	**169**	**97**
1	HIV Infection (B20-B24)†	1	-	-	-	1
2	Diseases of the Circulatory System (I00-I99)†	11	-	7	-	4
3	Influenza and Pneumonia (J10-J18)†	3	-	2	-	1
4	Newborn Affected by Maternal Complications of Pregnancy (P01)†	4	3	-	1	-
5	Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)†	22	12	1	9	-
6	Short Gestation and Low Birthweight (P07)†	119	58	5	50	6
7	Intrauterine Hypoxia and Birth Asphyxia (P20-P21)†	5	3	-	1	1
8	Respiratory Distress of Newborn (P22)†	15	12	-	3	-
9	Pulmonary Hemorrhage Originating in the Perinatal Period (P26)†	8	4	-	4	-
10	Atelectasis (P28.0-P28.1)†	3	2	-	1	-
11	Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)‡	10	2	2	2	4
12	Cardiovascular Disorders Originating in the Perinatal Period (P29)‡	75	40	1	34	-
13	Infections Specific to the Perinatal Period (P35-P39)‡	13	7	-	6	-
	Bacterial sepsis of newborn (P36)	10	6	-	4	-
14	Neonatal Hemorrhage (P50-P52, P54)†	9	7	-	2	-
15	Necrotizing Enterocolitis of Newborn (P77)†	9	5	-	3	1
16	Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)	22	10	3	7	2
17	Congenital Malformations, Deformations (Q00-Q99)†	125	38	22	37	28
	Congenital malformations of heart (Q20-Q24)	40	7	10	10	13
18	Sudden Infant Death Syndrome (R95)†	4	-	1	-	3
19	All Other Diseases (Rest of A00-R99)	70	9	31	7	23
20	External Causes (V01-Y89)‡	55	2	28	2	23

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

‡ Contains causes not eligible to be ranked as a leading cause nationally but 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, 2012

Characteristics	Live Births					Infant Deaths																			
						Total					Early-neonatal					Neonatal					Post-neonatal				
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.
Total	123,231	36,642	39,112	24,758	21,149	583	190	104	211	70	301	104	55	105	33	383	132	67	135	45	200	58	37	76	25
Sex of Child																									
Male	63,231	18,750	20,052	12,587	11,035	317	102	56	114	41	171	57	32	59	20	214	71	38	74	28	103	31	18	40	13
Female	60,000	17,892	19,060	12,171	10,114	266	88	48	97	29	130	47	23	46	13	169	61	29	61	17	97	27	19	36	12
Birthweight at Delivery (Grams)																									
Low birthweight (<2,500)	10,336	2,899	2,680	2,963	1,645	399	122	68	157	48	257	82	46	93	33	305	96	50	115	41	94	26	18	42	7
Very low birthweight (<1,500)	1,871	573	406	674	187	324	100	53	131	36	228	72	43	82	28	265	81	46	102	33	59	19	7	29	3
2,500-4,000	105,202	31,221	33,452	20,530	18,659	136	53	25	41	14	35	20	7	7	-	57	28	12	13	3	79	25	13	28	11
Above 4,000	7,690	2,522	2,980	1,264	845	8	4	-	3	1	4	1	-	3	-	6	3	-	3	-	2	1	-	-	2
Not stated	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unmatched†	-	-	-	-	-	40	11	11	10	7	5	1	2	2	-	15	5	5	4	1	25	6	6	6	6
Gestational Age (Weeks)																									
Preterm (<37)	11,141	3,441	2,916	3,076	1,559	387	120	64	154	44	255	82	46	91	32	301	96	50	112	39	86	24	14	42	5
Very preterm (<32)	1,986	621	396	718	216	330	97	56	135	38	231	70	46	84	28	271	80	49	105	34	59	17	7	30	4
Full-term	112,033	33,187	36,172	21,676	19,581	154	57	29	47	19	40	20	7	12	1	66	30	12	19	5	88	27	17	28	14
Not stated	57	14	24	6	9	2	2	-	-	-	1	1	-	-	-	1	1	-	-	-	1	1	-	-	-
Unmatched†	-	-	-	-	-	40	11	11	10	7	5	1	2	2	-	15	5	5	4	1	25	6	6	6	6
Plurality																									
Singletons	118,549	35,656	36,975	23,861	20,536	461	157	70	179	50	241	91	34	90	23	303	111	42	116	31	158	46	28	63	19
Multiples	4,681	986	2,137	897	613	82	22	23	22	13	55	12	19	13	10	65	16	20	15	13	17	6	3	7	0
Unmatched†	-	-	-	-	-	40	11	11	10	7	5	1	2	2	-	15	5	5	4	1	25	6	6	6	6
Plurality unknown	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table IM3. Infant Mortality Rate by Mother's Racial/Ethnic Group and Characteristics of Infant, New York City, 2012

Characteristics	Total					Early-neonatal					Neonatal					Post-neonatal				
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.
Total	4.7	5.2	2.7	8.5	3.3	2.4	2.8	1.4	4.2	1.6	3.1	3.6	1.7	5.5	2.1	1.6	1.6	0.9	3.1	1.2
Sex of Child																				
Male	5.0	5.4	2.8	9.1	3.7	2.7	3.0	1.6	4.7	1.8	3.4	3.8	1.9	5.9	2.5	1.6	1.7	0.9	3.2	1.2
Female	4.4	4.9	2.5	8.0	2.9	2.2	2.6	1.2	3.8	1.3	2.8	3.4	1.5	5.0	1.7	1.6	1.5	1.0	3.0	1.2
Birthweight at Delivery (Grams)																				
Low birthweight (<2,500)	38.6	42.1	25.4	53.0	29.2	24.9	28.3	17.2	31.4	20.1	29.5	33.1	18.7	38.8	24.9	9.1	9.0	6.7	14.2	4.3
Very low birthweight (<1,500)	173.2	174.5	130.5	194.4	192.5	121.9	125.7	105.9	121.7	149.7	141.6	141.4	113.3	151.3	176.5	31.5	33.2	17.2	43.0	16.0
2,500-4,000	1.3	1.7	0.7	2.0	0.8	0.3	0.6	0.2	0.3	-	0.5	0.9	0.4	0.6	0.2	0.8	0.8	0.4	1.4	0.6
Above 4,000	1.0	1.6	-	2.4	1.2	0.5	0.4	-	2.4	-	0.8	1.2	-	2.4	-	0.3	0.4	-	-	2.4
Gestational Age (Weeks)																				
Preterm (<37)	34.7	34.9	21.9	50.1	28.2	22.9	23.8	15.8	29.6	20.5	27.0	27.9	17.1	36.4	25.0	7.7	7.0	4.8	13.7	3.2
Very preterm (<32)	166.2	156.2	141.4	188.0	175.9	116.3	112.7	116.2	117.0	129.6	136.5	128.8	123.7	146.2	157.4	29.7	27.4	17.7	41.8	18.5
Full-term	1.4	1.7	0.8	2.2	1.0	0.4	0.6	0.2	0.6	0.1	0.6	0.9	0.3	0.9	0.3	0.8	0.8	0.5	1.3	0.7
Plurality																				
Singletons	3.9	4.4	1.9	7.5	2.4	2.0	2.6	0.9	3.8	1.1	2.6	3.1	1.1	4.9	1.5	1.3	1.3	0.8	2.6	0.9
Multiples	17.5	22.3	10.8	24.5	21.2	11.7	12.2	8.9	14.5	16.3	13.9	16.2	9.4	16.7	21.2	3.6	6.1	1.4	7.8	0.0

Note: Categories for gestational age in Table 2 and Table 3 differ from those in Figure 4. Different categories are used in Table 2 and Table 3 due to the small number of events.

INFANT MORTALITY

Table IM4. Live Births and Infant Mortality, Overall and by Mother's Racial/Ethnic Group, New York City, 2008–2012

Mother's Ethnic Group	2008	2009	2010	2011	2012
Live Births, Total	**127,680**	**126,774**	**124,791**	**123,029**	**123,231**
Puerto Rican	10,351	9,958	9,581	8,988	8,673
Other Hispanic	30,029	30,328	29,764	28,643	27,969
Asian and Pacific Islander	18,204	17,729	18,047	19,399	21,149
Non-Hispanic White	38,383	38,438	37,780	38,573	39,112
Non-Hispanic Black	27,917	27,405	26,635	25,825	24,758
Other or Unknown	2796	2,916	2,984	1,601	1,570
Infant Deaths (< 1 year), Total	698	668	609	577	583
Puerto Rican	68	63	61	61	57
Other Hispanic	143	147	129	124	133
Asian and Pacific Islander	59	50	62	57	70
Non-Hispanic White	125	131	104	118	104
Non-Hispanic Black	284	259	230	210	211
Other or Unknown	19	18	23	7	8
Infant Mortality Rate, Total	5.5	5.3	4.9	4.7	4.7
Puerto Rican	6.6	6.3	6.4	6.8	6.6
Other Hispanic	4.8	4.8	4.3	4.3	4.8
Asian and Pacific Islander	3.2	2.8	3.4	2.9	3.3
Non-Hispanic White	3.3	3.4	2.8	3.1	2.7
Non-Hispanic Black	10.2	9.5	8.6	8.1	8.5
Neonatal Deaths (< 28 days), Total	466	444	403	378	383
Puerto Rican	43	44	43	42	42
Other Hispanic	99	97	81	79	90
Asian and Pacific Islander	44	36	41	34	45
Non-Hispanic White	82	97	75	82	67
Non-Hispanic Black	182	158	148	136	135
Neonatal Mortality Rate, Total	3.6	3.5	3.2	3.1	3.1
Puerto Rican	4.2	4.4	4.5	4.7	4.8
Other Hispanic	3.3	3.2	2.7	2.8	3.2
Asian and Pacific Islander	2.4	2.0	2.3	1.8	2.1
Non-Hispanic White	2.1	2.5	2.0	2.1	1.7
Non-Hispanic Black	6.5	5.8	5.6	5.3	5.5

INFANT MORTALITY

Table IM5. Infant Mortality Rate by Mother's Birthplace, New York City, 2006–2012

Birthplace	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
Total, New York City	**5.6**	**5.4**	**5.2**	**4.9**	**4.8**
Yemen Arab Republic	5.0	3.4	3.7	6.3	8.5
Puerto Rico ‡	8.6	7.0	7.9	8.5	8.4
Honduras	3.1	4.2	6.8	7.4	8.3
Nigeria	5.6	6.9	7.2	8.1	7.1
Jamaica	7.2	5.8	6.2	5.6	7.0
Guyana	8.8	7.6	7.8	6.6	6.7
Guatemala	4.1	4.5	6.0	6.4	6.4
Pakistan	7.5	6.2	5.4	5.6	6.1
Trinidad and Tobago	7.3	4.7	5.1	3.4	6.1
Haiti	7.4	5.7	6.1	4.9	5.4
India	3.3	2.5	2.3	2.4	5.2
United States ‡	6.2	6.3	6.0	5.7	5.2
Bangladesh	2.8	3.9	3.9	4.6	4.1
Ghana	6.8	6.2	4.8	4.3	4.0
Mexico	4.1	3.8	3.8	3.4	4.0
Philippines	2.5	1.6	3.0	3.4	3.9
Dominican Republic	3.8	4.2	4.2	4.0	3.8
Ecuador	3.9	3.3	3.0	3.2	3.7
El Salvador	4.9	2.9	2.9	3.4	3.0
Colombia	1.6	1.4	1.5	2.8	2.9
Peru	5.0	3.8	2.0	2.1	2.3
Russia	1.8	1.8	2.8	2.8	2.0
Canada	2.2	2.2	2.2	2.1	2.0
United Kingdom	3.8	1.7	2.3	1.2	1.8
China	2.0	2.0	2.3	2.1	1.7
Egypt	3.3	3.1	2.9	1.3	1.7
Poland	2.1	2.4	1.8	0.7	1.6
Uzbekistan	0.7	0.6	0.6	1.5	1.4
Japan	3.6	2.8	1.4	1.3	1.3
Korea	1.9	1.3	0.7	0.7	1.1
Ukraine	2.5	2.9	2.1	1.2	0.8
Israel	1.7	1.4	0.6	0.6	0.3

Note: Foreign countries are listed according to the descending order of infant mortality rates in the most current period.

† The infant mortality rate is listed for only countries with 500 or more live births in any year of 2006-2012.

‡ As of 2006, US Virgin Islands and Guam are included in the United States. Puerto Rico is a US territory, but is not included as a birthplace in the United States due to the large number of births to Puerto Rican-born women.

INFANT MORTALITY

Table IM6. Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2008–2012

Community District		2008–2010*		2009–2011*		2010–2012*	
		Infant Mortality Rate	Neonatal Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate
	NEW YORK CITY	**5.2**	**3.5**	**4.9**	**3.3**	**4.8**	**3.1**
	MANHATTAN	**4.1**	**2.8**	**3.9**	**2.6**	**3.5**	**2.2**
101	Battery Park, Tribeca	1.4	1.0	1.6	1.3	1.2	1.2
102	Greenwich Village, SOHO	3.1	2.7	2.4	2.4	2.4	2.4
103	Lower East Side	4.4	2.3	3.4	1.1	2.6	1.3
104	Chelsea, Clinton	3.2	2.5	3.3	2.5	2.9	1.4
105	Midtown Business District	5.3	3.6	4.0	2.3	5.7	3.4
106	Murray Hill	3.1	3.1	3.9	3.1	2.3	1.5
107	Upper West Side	2.0	1.3	1.3	0.7	2.2	1.3
108	Upper East Side	2.7	1.9	2.5	1.9	1.5	1.1
109	Manhattanville	5.7	4.3	4.7	3.2	4.9	3.6
110	Central Harlem	7.5	4.6	8.5	6.2	8.4	5.7
111	East Harlem	6.6	4.1	6.9	4.5	5.3	3.9
112	Washington Heights	4.7	3.1	4.9	2.6	4.2	1.8
	BRONX	**6.3**	**4.3**	**5.9**	**3.9**	**5.6**	**3.7**
201	Mott Haven	7.1	4.6	6.3	4.1	6.6	4.2
202	Hunts Point	6.4	4.1	7.6	4.5	8.7	5.5
203	Morrisania	7.8	5.0	7.7	4.8	6.9	3.9
204	Concourse, Highbridge	5.7	3.7	4.8	3.3	5.5	3.4
205	University/Morris Heights	7.5	5.1	7.3	4.9	6.1	4.4
206	East Tremont	7.4	5.2	6.6	3.6	9.0	6.0
207	Fordham	5.5	4.4	4.6	3.6	4.3	3.3
208	Riverdale	5.2	4.3	5.3	4.5	4.0	2.8
209	Unionport, Soundview	4.9	3.2	5.4	3.3	4.2	2.4
210	Throgs Neck	4.9	3.6	4.6	3.0	2.4	1.4
211	Pelham Parkway	6.3	5.4	6.3	5.1	3.8	3.0
212	Williamsbridge	7.0	3.9	6.0	3.4	6.6	4.3
	BROOKLYN	**4.8**	**3.1**	**4.4**	**2.8**	**4.2**	**2.6**
301	Williamsburg, Greenpoint	2.5	1.8	2.4	1.5	2.4	1.6
302	Fort Greene, Brooklyn Heights	4.8	2.7	3.5	2.6	3.4	2.5
303	Bedford Stuyvesant	8.5	5.3	7.0	4.0	6.0	3.5
304	Bushwick	5.0	3.8	4.4	3.2	4.5	2.7
305	East New York	8.7	4.6	8.4	4.5	7.7	4.5
306	Park Slope	3.3	1.9	1.9	0.9	2.6	1.3
307	Sunset Park	3.1	2.0	2.9	2.0	2.2	1.7
308	Crown Heights North	5.8	4.2	4.2	3.1	7.2	3.8
309	Crown Heights South	5.1	3.2	4.4	2.6	3.1	1.4
310	Bay Ridge	4.0	2.7	4.0	2.5	3.5	2.2
311	Bensonhurst	3.7	2.9	4.2	3.1	4.4	2.6
312	Borough Park	2.7	1.7	2.8	2.0	2.0	1.4
313	Coney Island	4.9	3.0	5.6	3.6	6.3	4.1
314	Flatbush, Midwood	4.3	2.2	3.8	2.3	3.9	2.8
315	Sheepshead Bay	3.1	2.0	2.1	1.3	2.6	1.1
316	Brownsville	9.9	6.5	9.2	5.6	7.4	5.1
317	East Flatbush	6.4	4.4	6.8	4.6	7.2	5.1
318	Canarsie	5.3	3.2	4.8	3.2	5.2	3.0
	QUEENS	**4.5**	**2.9**	**4.5**	**2.9**	**4.8**	**3.2**
401	Astoria, Long Island City	5.3	3.8	4.3	2.5	4.7	3.2
402	Sunnyside, Woodside	2.8	2.2	2.4	1.9	2.9	2.5
403	Jackson Heights	3.6	2.2	3.2	1.7	4.1	2.2
404	Elmhurst, Corona	3.7	2.4	4.1	2.9	5.1	3.5
405	Ridgewood, Glendale	3.0	2.0	3.7	2.4	3.4	2.4
406	Rego Park, Forest Hills	2.1	1.3	2.3	2.1	2.8	2.3
407	Flushing	2.8	1.9	2.7	1.5	3.3	2.3
408	Fresh Meadows, Briarwood	6.1	3.8	5.1	3.0	4.3	2.7
409	Woodhaven	4.1	1.7	3.5	1.2	2.8	1.4
410	Howard Beach	4.8	2.8	4.9	2.7	4.6	2.8
411	Bayside	2.5	2.0	3.0	3.0	2.4	2.4
412	Jamaica, St. Albans	7.3	4.3	8.4	5.2	8.7	5.6
413	Queens Village	5.9	4.0	6.4	4.9	7.2	5.6
414	The Rockaways	7.5	4.9	7.2	4.8	7.5	5.0
	STATEN ISLAND	**4.4**	**3.5**	**4.8**	**3.6**	**5.0**	**3.9**
501	Port Richmond	5.9	4.5	5.5	3.9	6.0	4.2
502	Willowbrook, South Beach	3.0	2.5	4.5	3.8	5.1	4.6
503	Tottenville	3.1	2.5	3.6	2.7	3.3	2.6

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

Figure 5 provides single-year infant mortality rate by borough.

INFANT MORTALITY

Table IM7. Live Births and Infant Mortality Rate by Characteristics of Mother, New York City, 2012

Characteristics	Live Births		Infant Mortality Rate (IMR) per 1,000 Live Births					
			All		Neonatal		Post-neonatal	
	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	**123,231**	**100.0**	**583**	**4.7**	**383**	**3.1**	**200**	**1.6**
Race/Ethnicity								
Puerto Rican	8,673	7.0	57	6.6	42	4.8	15	1.7
Other Hispanic	27,969	22.7	133	4.8	90	3.2	43	1.5
Asian and Pacific Islander	21,149	17.2	70	3.3	45	2.1	25	1.2
Non-Hispanic White	39,112	31.7	104	2.7	67	1.7	37	0.9
Non-Hispanic Black	24,758	20.1	211	8.5	135	5.5	76	3.1
Other and unknown	1,570	1.3	8	-	4	-	4	-
Age of Mother								
Age <18	1,805	1.5	14	7.8	9	5.0	5	2.8
Age 18-19	3,990	3.2	24	6.0	17	4.3	7	1.8
Age 20-29	53,397	43.3	236	4.4	155	2.9	81	1.5
Age 30-39	57,374	46.6	235	4.1	164	2.9	71	1.2
Age ≥40	6,664	5.4	34	5.1	23	3.5	11	1.7
Age unknown	1	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Mother's Education								
11th grade or less/12th grade, no diploma	26,578	21.6	152	5.7	103	3.9	49	1.8
High school graduate or GED	26,699	21.7	145	5.4	96	3.6	49	1.8
Some college/associate degree	26,915	21.8	113	4.2	69	2.6	44	1.6
Bachelor's degree	23,723	19.3	78	3.3	58	2.4	20	0.8
Master's degree or higher	18,968	15.4	40	2.1	29	1.5	11	0.6
Mother's education unknown	348	0.3	15	-	13	-	2	-
Unmatched*	-	-	40	-	15	-	25	-
Marital Status of Mother†								
Not married	50,995	41.4	312	6.1	205	4.0	107	2.1
Married	72,235	58.6	231	3.2	163	2.3	68	0.9
Unknown	1	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Mother's Birthplace								
US born, including territories	59,868	48.6	284	4.7	193	3.2	91	1.5
Foreign born	63,337	51.4	259	4.1	175	2.8	84	1.3
Birthplace unknown	26	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Primary Payer for This Birth								
Medicaid/Family Plus/Child PlusB/other govt	72,883	59.1	360	4.9	226	3.1	134	1.8
Other	49,737	40.4	179	3.6	139	2.8	40	0.8
Coverage unknown	611	0.5	4	-	3	-	1	-
Unmatched*	-	-	40	-	15	-	25	-
Plurality								
Singletons	118,549	96.2	461	3.9	303	2.6	158	1.3
Multiples	4,681	3.8	82	17.5	65	13.9	17	3.6
Plurality unknown	1	0.0	-	-	-	-	-	-
Unmatched*	-	-	40	-	15	-	25	-
Parity								
First birth	54,969	44.6	233	4.2	171	3.1	62	1.1
Second birth or higher	68,211	55.4	308	4.5	196	2.9	112	1.6
Unknown	51	0.0	2	-	1	-	1	-
Unmatched*	-	-	40	-	15	-	25	-
First Prenatal Care Visit								
No prenatal care	870	0.7	30	34.5	27	31.0	3	3.4
First trimester (1-3 months)	87,325	70.9	338	3.9	235	2.7	103	1.2
Second trimester (4-6 months)	26,115	21.2	117	4.5	71	2.7	46	1.8
Late (7-9 months)	7,442	6.0	30	4.0	12	1.6	18	2.4
Prenatal care unknown	1,479	1.2	28	-	23	-	5	-
Unmatched*	-	-	40	-	15	-	25	-
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI < 18.5)	7,140	5.8	20	2.8	14	2.0	6	0.8
Normal weight (18.5 ≤ BMI < 25)	67,125	54.5	220	3.3	163	2.4	57	0.8
Overweight (25 ≤ BMI < 30)	28,720	23.3	147	5.1	93	3.2	54	1.9
Obese (BMI ≥ 30)	19,683	16.0	147	7.5	90	4.6	57	2.9
Pre-pregnancy BMI unknown	563	0.5	9	-	8	-	1	-
Unmatched*	-	-	40	-	15	-	25	-

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

† Reporting of mother's marital status on the birth certificate is prohibited by NYC Health Code 201.05(b). Marital status was computed using father's name. When missing or accompanied by an Acknowledgment of Paternity, marital status is categorized as unmarried; all others with father's name were categorized as married.

PREGNANCY OUTCOMES

Table PO1. Live Births by Borough of Birth* and Institution, New York City, 2012

Borough and Institution	Births
Manhattan	
Allen Hospital	2,138
Bellevue Hospital Center	1,345
Beth Israel Medical Center	4,267
Columbia Presbyterian Medical Center	4,677
Harlem Hospital Center	988
Lenox Hill Hospital	4,390
Metropolitan Hospital Center	1,238
Mount Sinai Hospital	6,747
New York Downtown Hospital	2,795
New York Weill Cornell Medical Center	5,847
NYU Hospital Center - Tisch Hospital	4,204
St. Luke's - Roosevelt Hospital Center / Roosevelt Hospital Division	6,543
St. Luke's - Roosevelt Hospital Center / St. Luke's Division	3
Places other than a hospital or home**	25
Home†	144
Bronx	
Bronx Lebanon Hospital Center	2,237
Jack D. Weiler Hospital of the Albert Einstein College of Medicine	3,981
Jacobi Medical Center	1,948
Lincoln Medical and Mental Health Center	2,295
Montefiore Medical Center, Henry & Lucy Moses Division	7
Montefiore Medical Center, North Division	2,536
North Central Bronx Hospital	1,506
St. Barnabas Hospital	1,149
Women's Health & Birthing Pavilion	4
Places other than a hospital or home**	10
Home†	60
Foundling‡	1
Brooklyn	
Brookdale University Hospital and Medical Center	1,313
Brooklyn Birthing Center	107
Brooklyn Hospital Center	2,220
Coney Island Hospital	1,080
Kings County Hospital Center	2,390
Kingsbrook Jewish Medical Center	1
Long Island College Hospital	1,376
Lutheran Medical Center	4,300
Maimonides Medical Center	8,382
New York Methodist Hospital	5,660
University Hospital of Brooklyn	1,514
Woodhull Medical and Mental Health Center	2,154
Wyckoff Heights Medical Center	1,433
Beth Israel Kings Highway Division	2
Places other than a hospital or home**	46
Home†	368
Queens	
Elmhurst Hospital Center	3,430
Flushing Hospital Medical Center	2,786
Forest Hills Hospital	2,398
Jamaica Hospital Medical Center	2,345
Long Island Jewish Medical Center	5,959
Mount Sinai Hospital of Queens	1
New York Hospital Medical Center of Queens	4,376
Queens Hospital Center	1,801
St. John's Episcopal Hospital	757
Places other than a hospital or home**	23
Home†	116
Staten Island	
Richmond University Medical Center	2,913
Staten Island University Hospital	2,875
Places other than a hospital or home**	4
Home†	16
New York City Total	123,231

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

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

†See Technical Notes: Geographical Units, Place of Birth.

‡Abandoned infant whose record of birth was filed by the Administration for Children's Services.

PREGNANCY OUTCOMES

Table PO2. Live Births by Ancestry of Mother and Borough of Residence, New York City, 2012

Ancestry of Mother	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	123,231	19,086	20,044	42,087	26,986	5,260	9,760	8
Hispanic								
Colombian	1,104	84	54	138	698	32	98	-
Cuban	302	79	52	67	57	15	32	-
Dominican	11,145	2,334	5,138	1,651	1,549	89	383	1
Ecuadorian	3,096	182	407	531	1,855	41	80	-
Mexican	7,341	727	1,668	2,277	2,139	446	84	-
Puerto Rican	8,673	992	3,651	2,064	1,063	505	397	1
Other Hispanic	4,981	599	950	1,191	1,690	146	405	-
North American and the Caribbean								
African American	14,342	1,481	3,467	6,179	2,134	498	581	2
American	10,818	2,531	283	4,331	1,253	897	1,522	1
Guyanese	1,625	14	138	510	876	11	76	-
Haitian	1,734	58	56	1,092	378	16	134	-
Jamaican	2,025	64	401	852	554	10	144	-
Trinidadian	914	22	38	482	315	9	48	-
Other North American and the Caribbean	1,872	218	281	958	272	21	122	-
European								
English	1,268	606	32	405	94	7	124	-
German	865	344	20	227	97	41	136	-
Irish	1,947	499	61	462	284	196	445	-
Italian	3,494	613	133	808	419	837	684	-
Polish	1,178	191	27	323	415	101	121	-
Russian	1,842	345	31	826	315	125	200	-
Other European	4,593	1,035	298	1,629	787	298	546	-
Asian								
Asian Indian	2,066	392	85	208	893	59	429	-
Bangladeshi	2,149	56	350	447	1,264	8	24	-
Chinese	10,067	1,493	73	4,498	3,324	160	519	-
Filipino	949	149	58	118	438	59	127	-
Korean	1,168	382	18	142	458	23	145	-
Pakistani	1,547	63	83	703	493	80	125	-
Other Asian	5,444	989	292	2,018	1,518	194	432	1
Other								
Jewish or Hebrew	6,389	555	55	4,878	285	65	551	-
Other or not stated	8,293	1,989	1,844	2,072	1,069	271	1,046	2

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

Table PO3. Live Births by Mother's Ethnic Group and Age, New York City, 2012

Ethnic Group	Total	Age of Mother (Years)							
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40
Total	123,231	88	1,717	3,990	22,081	31,316	35,629	21,745	6,664
Puerto Rican	8,673	5	322	686	2,523	2,237	1,710	902	288
Other Hispanic	27,969	42	750	1,476	6,470	7,630	6,771	3,771	1,059
Asian and Pacific Islander	21,149	3	28	146	2,468	6,404	7,180	3,935	985
Non-Hispanic white	39,112	3	86	388	4,893	8,337	13,409	9,077	2,919
Non-Hispanic black	24,758	31	505	1,242	5,462	6,350	6,075	3,771	1,322
Non-Hispanic other	446	2	6	13	87	107	135	76	20
Non-Hispanic of two or more races	1,022	2	16	35	145	229	329	200	66
Not stated*	102	.	4	4	33	22	20	13	5

* See Technical Notes: Births, Birth Data Quality.

PREGNANCY OUTCOMES

Table PO4. Selected Characteristics of Live Births, Overall and by Age of Mother, New York City, 2012

	Total	Age of Mother (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Total Live Births	123,231	88	1,717	3,990	22,081	31,316	35,629	21,745	6,664	1
Sex										
Male	63,231	46	856	2,059	11,319	16,139	18,191	11,219	3,402	-
Female	60,000	42	861	1,931	10,762	15,177	17,438	10,526	3,262	1
First Live Birth*										
Yes	54,969	84	1,583	3,360	13,313	13,418	14,208	6,893	2,110	-
No	68,211	4	132	626	8,758	17,883	21,411	14,846	4,551	-
Unknown	51	-	2	4	10	15	10	6	3	1
Pre-pregnancy Body Mass Index (BMI)										
Underweight (BMI < 18.5)	7,140	3	152	306	1,645	2,030	1,851	913	240	-
Normal weight (18.5 ≤ BMI < 25)	67,125	53	991	2,152	11,644	16,530	20,124	12,084	3,547	-
Overweight (25 ≤ BMI < 30)	28,720	23	347	906	5,042	7,317	8,188	5,208	1,689	-
Obese (BMI ≥ 30)	19,683	7	207	594	3,612	5,303	5,348	3,455	1,157	-
Unknown	563	2	20	32	138	136	118	85	31	1
Birthweight at Delivery (Grams)										
< 1500	1,871	5	36	62	292	394	545	394	143	-
1500-2499	8,465	8	164	300	1,462	1,981	2,302	1,566	682	-
2500-3999	105,058	73	1,468	3,485	19,240	27,021	30,346	18,083	5,342	-
≥ 4000	7,834	2	49	143	1,085	1,920	2,436	1,702	497	-
Not stated	3	-	-	-	2	-	-	-	-	1
Gestational Age (Weeks)†										
< 32	1,986	7	39	65	318	423	597	387	150	-
32-36	9,155	13	171	267	1,490	2,104	2,579	1,823	708	-
≥ 37	112,033	68	1,506	3,656	20,267	28,779	32,431	19,523	5,803	-
Unknown	57	-	1	2	6	10	22	12	3	1
Plurality										
Single	118,549	86	1,684	3,936	21,551	30,420	34,170	20,592	6,110	-
Twin	4,555	2	30	54	510	884	1,405	1,131	539	-
Triplet	118	-	3	-	16	12	50	22	15	-
Quadruplet	8	-	-	-	4	-	4	-	-	-
Unknown/not stated	1	-	-	-	-	-	-	-	-	1
Apgar Score at 5 Minutes										
≤ 6	964	1	23	47	160	242	241	182	68	-
7	936	2	13	40	166	212	267	171	65	-
8	4,871	1	88	182	851	1,167	1,388	883	311	-
9	114,623	84	1,568	3,658	20,606	29,206	33,197	20,169	6,135	-
10	1,559	-	21	50	252	391	472	297	76	-
Not stated	278	-	4	13	46	98	64	43	9	1
Method of Delivery										
Vaginal	80,425	78	1,385	3,084	16,392	21,343	22,572	12,342	3,229	-
Vaginal after any prior C-section	2,425	-	6	22	288	655	798	501	155	-
Primary C-section	24,892	10	312	794	4,024	5,668	7,218	4,883	1,983	-
Repeat C-section	15,393	-	13	87	1,362	3,621	5,016	4,002	1,292	-
Unknown	96	-	1	3	15	29	25	17	5	1
Place of Birth										
Home	704	-	5	10	64	188	230	171	36	-
Voluntary hospital	102,132	64	1,164	2,822	16,903	25,494	30,776	19,090	5,819	-
Municipal hospital	20,175	24	548	1,155	5,086	5,561	4,552	2,448	801	-
Birthing center	111	-	-	1	12	36	43	16	3	-
Other	109	-	-	2	16	37	28	20	5	1
Attendant										
Physician	111,641	72	1,440	3,373	19,204	28,230	32,808	20,235	6,279	-
Certified nurse midwife	11,055	16	270	596	2,783	2,922	2,678	1,429	361	-
Other	535	-	7	21	94	164	143	81	24	1
Primary Payer for this Birth‡										
Medicaid/Family Plus/Child Health Plus B/Other govt	72,883	82	1,510	3,500	18,737	21,738	16,305	8,448	2,563	-
Private	47,485	2	114	332	2,698	8,883	18,607	12,867	3,982	-
Self-pay	1,648	3	57	104	414	393	371	246	60	-
Other	604	-	14	30	99	155	189	88	29	-
Not stated	611	1	22	24	133	147	157	96	30	1
First Visit for Prenatal Care										
First trimester (1-3 months)	87,325	30	776	2,177	13,878	22,147	26,876	16,547	4,894	-
Second trimester (4-6 months)	26,115	31	626	1,217	5,764	6,663	6,544	3,933	1,337	-
Late (7-9 months)	7,442	20	237	450	1,839	1,976	1,676	941	303	-
No care	870	7	48	64	249	198	187	82	35	-
Not stated	1,479	-	30	82	351	332	346	242	95	1
Marital Status of Mother§										
Not married	50,923	88	1,653	3,481	14,101	13,677	10,257	5,662	2,004	-
Married	72,307	.	64	509	7,980	17,639	25,372	16,083	4,660	-
Unknown	1	-	-	-	-	-	-	-	-	1
Education Level										
11th grade or less/12th grade no diploma	26,578	87	1,574	2,082	6,384	7,015	5,419	3,066	951	-
High school graduate or GED	26,699	-	129	1,343	7,553	7,509	5,794	3,253	1,118	-
Some college/associate degree	26,915	-	6	544	6,449	8,216	6,852	3,748	1,100	-
Bachelor's degree	23,723	-	-	9	1,323	5,617	9,309	5,757	1,708	-
Master's degree or higher	18,968	-	2	-	283	2,871	8,180	5,867	1,765	-
Not stated	348	1	6	12	89	88	75	54	22	1
Birthplace of Mother										
United States, including its territories	59,868	64	1,271	2,751	12,758	13,284	16,416	10,170	3,153	1
Foreign	63,337	24	446	1,238	9,314	18,029	19,211	11,568	3,507	-
Not stated	26	-	-	1	9	3	2	7	4	-

* See Technical Notes: Births, Birth Data Quality.
† See Technical Notes: Births, Gestational Age.
‡ See Technical Notes: Births, Birth Reporting.
§ See Technical Notes: Mother's Marital Status.

PREGNANCY OUTCOMES

Table PO5. Selected Characteristics of Live Births by Mother's Ethnic Group, New York City, 2012

	Total	Racial/Ethnic Group of Mother*							
		Puerto Rican	Other Hispanic	Asian	Non-Hispanic White	Non-Hispanic Black	Other	Non-Hispanic, Two or More Races	Not Stated
Total Live Births	123,231	8,673	27,969	21,149	39,112	24,758	446	1,022	102
Sex									
Male	63,231	4,478	14,272	11,035	20,052	12,587	224	527	56
Female	60,000	4,195	13,697	10,114	19,060	12,171	222	495	46
First Live Birth†									
Yes	54,969	3,740	11,099	10,569	18,051	10,693	214	566	37
No	68,211	4,932	16,843	10,577	21,053	14,058	232	456	60
Unknown	51	1	27	3	8	7	-	-	5
Pre-pregnancy Body Mass Index (BMI)									
Underweight (BMI < 18.5)	7,140	352	862	2,518	2,404	892	28	81	3
Normal weight (18.5 ≤ BMI < 25)	67,125	3,371	13,256	14,411	25,827	9,426	225	584	25
Overweight (25 ≤ BMI < 30)	28,720	2,390	8,420	3,183	7,281	7,121	106	198	21
Obese (BMI ≥ 30)	19,683	2,522	5,242	1,012	3,509	7,142	84	155	17
Unknown	563	38	189	25	91	177	3	4	36
Birthweight at Delivery (Grams)									
< 1500	1,871	172	401	187	406	674	14	12	5
1500-2499	8,465	733	1,593	1,458	2,274	2,289	39	70	9
2500-3999	105,058	7,221	23,954	18,642	33,401	20,501	367	888	84
≥ 4000	7,834	547	2,021	862	3,031	1,293	26	52	2
Not stated	3	-	-	-	-	1	-	-	2
Gestational Age (Weeks)‡									
< 32	1,986	186	435	216	396	718	14	16	5
32-36	9,155	837	1,983	1,343	2,520	2,358	37	63	14
≥ 37	112,033	7,646	25,541	19,581	36,172	21,676	395	942	80
Unknown	57	4	10	9	24	6	-	1	3
Plurality									
Single	118,549	8,397	27,259	20,536	36,975	23,861	427	995	99
Twin	4,555	270	690	609	2,074	870	16	24	2
Triplet	118	6	16	4	59	27	3	3	-
Quadruplet	8	-	4	-	4	-	-	-	-
Unknown/not stated	1	-	-	-	-	-	-	-	1
Apgar Score at 5 Minutes									
≤ 6	964	99	193	112	177	368	2	9	4
7	936	83	184	90	245	321	4	7	2
8	4,871	405	1,036	590	1,308	1,458	26	45	3
9	114,623	7,948	26,150	20,055	36,762	22,280	409	936	83
10	1,559	118	345	273	560	230	4	22	7
Not stated	278	20	61	29	60	101	1	3	3
Method of Delivery									
Vaginal	80,425	5,543	18,275	13,794	26,888	14,875	286	691	73
Vaginal after any prior C-section	2,425	173	515	306	953	456	9	9	4
Primary C-section	24,892	1,819	5,070	4,296	7,451	5,935	95	215	11
Repeat C-section	15,393	1,133	4,091	2,722	3,791	3,480	56	107	13
Unknown	96	5	18	31	29	12	-	-	1
Place of Birth									
Home	704	25	90	50	385	119	9	23	3
Voluntary hospital	102,132	6,974	19,847	18,624	37,345	17,998	384	882	78
Municipal hospital	20,175	1,666	8,003	2,455	1,284	6,588	52	107	20
Birthing center	111	2	17	5	62	16	-	9	-
Other	109	6	12	15	36	37	1	1	1
Attendant									
Physician	111,641	7,638	24,693	20,198	35,449	22,244	396	940	83
Certified nurse midwife	11,055	984	3,150	891	3,540	2,350	46	78	16
Other	535	51	126	60	123	164	4	4	3
Primary Payer for this Birth§									
Medicaid/Family Plus/Child Health Plus B/Other govt	72,883	6,208	22,449	12,916	13,202	17,357	259	414	78
Private	47,485	2,232	4,918	7,980	25,375	6,210	176	575	19
Self-pay	1,648	143	384	140	245	705	6	23	2
Other	604	48	89	57	177	221	4	8	-
Not stated	611	42	129	56	113	265	1	2	3
First Visit for Prenatal Care									
First trimester (1-3 months)	87,325	5,781	18,618	15,247	31,109	15,488	298	723	61
Second trimester (4-6 months)	26,115	2,043	6,903	4,533	6,342	5,971	108	197	18
Late (7-9 months)	7,442	611	1,921	1,128	1,182	2,491	25	78	6
No care	870	109	215	67	96	368	4	8	3
Not stated	1,479	129	312	174	383	440	11	16	14
Marital Status of Mother‖									
Not married	50,923	6,668	18,250	3,707	4,714	16,925	191	395	73
Married	72,307	2,005	9,719	17,442	34,398	7,833	255	627	28
Unknown	1	-	-	-	-	-	-	-	1
Education Level									
11th grade or less/12th grade, no diploma	26,578	2,747	10,551	4,955	3,109	4,999	88	104	25
High school graduate or GED	26,699	2,112	6,462	3,915	7,201	6,717	112	156	24
Some college/associate degree	26,915	2,693	6,788	3,402	5,766	7,903	106	250	7
Bachelor's degree	23,723	720	2,769	5,165	11,350	3,344	87	279	9
Master's degree or higher	18,968	392	1,322	3,698	11,615	1,656	51	231	3
Not stated	348	9	77	14	71	139	2	2	34
Birthplace of Mother									
United States, including its territories	59,868	8,610	7,020	2,084	27,113	14,057	198	703	83
Foreign	63,337	62	20,948	19,062	11,994	10,692	247	319	13
Not stated	26	1	1	3	5	9	1	-	6

* See Technical Notes: Demographic Characteristics of Vital Events, Birthplace.

† See Technical Notes: Births, Birth Data Quality.

‡ See Technical Notes: Births, Gestational Age.

PREGNANCY OUTCOMES

Table PO6. Live Births by Selected Characteristics and Mother's Ancestry, New York City, 2012

Ancestry of Mother	Live Births	Percent of Total Live Births with Specified Characteristics									
		Foreign-born Mother	First Live Birth	Low Birth Weight (<2,500 Grams)	Preterm Birth† (<37 Weeks	Late or No Prenatal Care	Mother Not Married	On Medicaid‡	Pre-pregency Obesity§	Teenage Mother (<20 Years)	Exclusive Breast Feeding
Total	123,231	51.4	44.6	8.4	9.0	6.8	41.3	59.4	16.0	4.7	31.7
Hispanic											
Colombian	1,104	68.3	53.2	7.0	6.8	5.1	47.2	55.2	13.6	4.9	32.4
Cuban	302	16.6	53.3	12.3	12.6	6.3	44.0	41.3	19.5	5.0	40.1
Dominican	11,145	69.9	44.5	7.8	9.5	9.0	65.2	79.6	19.6	8.7	23.9
Ecuadorian	3,096	83.9	35.0	5.4	6.6	7.9	59.2	83.6	15.4	7.2	24.5
Mexican	7,341	84.8	30.3	6.1	7.9	6.5	75.0	92.7	19.1	9.6	20.9
Puerto Rican	8,673	0.7	43.1	10.4	11.8	8.4	76.9	71.9	29.2	11.7	26.3
Other Hispanic	4,981	70.9	42.1	7.8	9.3	7.3	60.0	71.3	20.0	6.2	28.0
North America and the Caribbean											
African American	14,342	12.9	45.0	13.0	13.1	9.7	78.6	71.6	31.4	9.9	24.6
American	10,818	4.8	48.0	7.6	8.0	2.2	18.0	29.3	11.1	1.9	48.0
Guyanese	1,625	91.6	42.4	13.3	11.6	8.5	45.7	63.8	17.8	3.7	25.9
Haitian	1,734	84.9	44.0	10.8	12.5	15.5	46.8	71.4	28.8	2.1	30.2
Jamaican	2,025	91.7	43.1	11.4	11.4	11.9	64.2	66.3	27.5	4.5	31.5
Trinidadian	914	93.4	46.1	12.5	13.5	14.8	56.5	70.1	22.9	3.1	29.2
Other North America and the Caribbean	1,872	90.3	47.8	9.2	10.3	14.3	47.9	56.8	21.0	2.9	39.5
European											
English	1,268	29.1	57.1	6.0	7.7	1.9	9.5	7.5	3.9	0.2	73.2
German	865	22.9	63.8	8.0	8.6	2.2	14.7	10.1	6.4	0.9	57.5
Irish	1,947	10.3	58.4	6.5	7.4	2.2	14.7	10.4	9.2	0.8	49.1
Italian	3,494	6.3	53.2	8.0	9.0	2.0	18.9	15.3	16.0	1.4	40.3
Polish	1,178	63.9	54.8	5.0	6.3	2.1	15.6	33.7	6.2	0.5	47.5
Russian	1,842	76.5	53.3	6.6	7.4	3.9	20.6	34.6	5.8	0.7	48.0
Other European	4,593	63.3	52.6	6.1	7.5	3.4	16.2	31.8	8.2	0.9	46.7
Asian											
Asian Indian	2,066	83.7	55.2	12.8	9.4	3.5	7.8	34.3	8.2	0.6	33.4
Bangladeshi	2,149	98.6	42.1	12.0	8.7	8.8	5.8	83.8	9.0	1.3	23.2
Chinese	10,067	91.7	50.5	4.8	5.8	4.1	23.2	70.5	1.3	0.5	14.5
Filipino	949	79.5	54.1	10.2	10.2	5.1	22.1	26.7	7.2	1.3	33.7
Korean	1,168	78.4	62.9	6.0	7.3	3.6	9.8	30.7	3.3	0.2	41.5
Pakistani	1,547	95.1	35.9	9.9	9.9	11.6	4.4	79.0	12.8	1.4	22.3
Other Asian	5,444	86.5	46.3	6.8	6.7	9.0	13.3	53.1	6.4	2.5	36.4
Other											
Jewish or Hebrew	6,389	15.0	27.8	6.1	5.8	1.3	3.6	59.4	8.3	1.3	42.7
Other or Not Stated	8,293	56.1	40.0	8.8	9.4	11.2	24.6	50.4	15.1	1.7	33.4

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

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

† Clinical gestational age <37 completed weeks.

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

§ See Technical Notes: Births, Birth Data Quality.

PREGNANCY OUTCOMES

Table PO7. Live Births by Selected Characteristics and Community District of Residence, New York City, 2012

Community District of Residence	Live Births	Rate*	Percent of Total Live Births With Specified Characteristics								
			Hispanic Mother	Foreign-Born Mother†	First Live Birth	Low Birth weight (<2,500 Grams)	Preterm Birth‡ (<37 weeks)	Late or No Prenatal Care	On Medicaid §	Pre-pregnancy Obesity	Exclusive Breast Feeding
NEW YORK CITY	123,231	14.8	32.5	51.4	44.6	8.4	9.0	6.8	59.4	16.0	31.7
MANHATTAN	18,977	11.7	29.0	42.6	56.2	8.5	8.6	4.8	35.7	10.4	42.2
Battery Park, Tribeca (01)	1,191	19.0	9.0	39.5	64.4	7.6	9.5	1.9	4.8	1.4	54.9
Greenwich Village, SOHO (02)	851	9.3	5.6	36.4	67.1	7.8	6.1	1.3	9.8	2.2	52.6
Lower East Side (03)	1,743	10.4	24.0	58.3	51.2	7.4	7.5	5.4	68.7	9.7	28.2
Chelsea, Clinton (04)	963	9.1	18.6	41.8	63.8	8.5	9.1	4.0	20.5	5.8	55.7
Midtown Business District (05)	579	11.0	8.5	40.4	67.7	7.9	5.9	3.0	9.7	3.0	54.7
Murray Hill (06)	1,322	9.1	8.1	39.6	64.3	8.9	8.3	1.9	7.4	2.3	55.5
Upper West Side (07)	2,788	13.0	14.7	34.3	57.7	9.0	9.3	2.4	11.0	5.0	53.3
Upper East Side (08)	2,636	11.7	7.5	33.0	64.6	7.3	6.2	2.2	6.5	2.9	38.0
Manhattanville (09)	1,244	11.1	52.7	52.4	48.1	8.3	9.0	8.8	64.5	17.8	40.8
Central Harlem (10)	1,648	14.0	23.6	38.6	46.0	11.5	11.8	10.8	63.4	23.7	35.3
East Harlem (11)	1,537	12.5	52.4	37.5	46.8	10.2	10.6	8.3	69.5	25.2	26.0
Washington Heights (12)	2,474	12.7	78.2	58.1	47.9	7.4	8.4	6.8	68.4	18.6	34.8
BRONX	20,153	14.3	60.8	51.4	40.8	9.6	9.9	11.7	79.5	24.6	25.3
Mott Haven (01)	1,622	17.3	69.4	45.5	37.7	8.8	10.3	11.0	87.7	26.7	20.9
Hunts Point (02)	846	15.8	71.7	42.2	38.8	9.2	8.9	14.2	87.3	29.0	20.2
Morrisania (03)	1,409	17.4	53.8	42.3	38.4	9.8	9.7	12.4	83.2	29.0	19.6
Concourse, Highbridge (04)	2,594	17.4	66.9	60.6	39.7	9.4	10.0	11.4	84.5	24.6	21.2
University/Morris Heights (05)	2,355	18.0	68.5	59.1	39.0	8.7	9.2	12.2	86.4	25.5	20.4
East Tremont (06)	1,482	17.5	67.6	42.1	37.7	11.7	11.0	10.8	87.2	26.4	22.8
Fordham (07)	2,320	16.3	72.9	60.4	40.9	10.4	9.9	10.3	82.2	21.0	25.4
Riverdale (08)	1,185	11.5	63.2	48.1	44.0	7.1	9.5	6.3	53.7	16.2	36.4
Unionport, Soundview (09)	2,380	13.5	58.7	46.2	41.7	10.2	11.1	13.8	78.4	26.3	27.9
Throgs Neck (10)	940	7.7	49.6	40.5	47.5	9.5	10.7	11.1	58.2	20.7	38.7
Pelham Parkway (11)	1,268	11.0	48.8	54.4	44.6	8.2	8.1	11.6	70.1	21.9	35.2
Williamsbridge (12)	1,751	11.4	27.7	53.1	43.2	10.6	9.7	14.3	74.8	27.0	25.8
BROOKLYN	42,087	16.4	21.9	48.5	41.3	7.9	8.9	5.9	67.0	15.8	32.9
Williamsburg, Greenpoint (01)	3,511	20.1	21.6	18.7	36.6	5.4	6.1	3.4	64.6	10.9	43.9
Fort Greene, Brooklyn Heights (02)	1,669	16.5	13.6	28.4	61.5	8.6	9.5	2.6	23.6	8.8	51.7
Bedford Stuyvesant (03)	2,450	15.9	21.2	26.3	40.1	9.8	10.6	6.6	74.0	22.7	31.1
Bushwick (04)	1,764	15.5	73.3	55.9	37.4	7.6	9.4	8.2	85.1	24.8	26.0
East New York (05)	2,838	15.4	36.4	48.0	39.8	10.9	12.3	9.4	80.6	27.1	24.9
Park Slope (06)	1,809	17.0	14.1	25.0	58.6	6.7	7.1	2.1	17.7	7.7	61.0
Sunset Park (07)	3,220	25.1	30.0	78.9	44.9	5.7	6.3	3.6	81.2	7.3	16.4
Crown Heights North (08)	1,414	14.6	12.8	39.1	48.8	10.0	11.0	7.5	58.4	21.7	41.1
Crown Heights South (09)	1,517	15.4	9.5	47.8	40.4	7.9	8.3	8.3	71.6	19.2	48.2
Bay Ridge (10)	1,880	13.7	18.2	61.8	46.4	6.7	8.2	5.7	54.2	9.7	31.0
Bensonhurst (11)	2,558	13.1	19.4	76.7	42.8	6.1	7.5	4.8	68.3	9.5	24.8
Borough Park (12)	5,582	28.5	16.3	41.2	29.3	5.9	6.3	2.7	78.3	8.8	29.7
Coney Island (13)	1,275	12.1	26.0	65.8	42.8	8.2	10.2	6.7	71.1	15.1	27.3
Flatbush, Midwood (14)	2,722	16.6	20.3	57.6	38.0	8.4	9.4	7.6	67.9	17.2	33.1
Sheepshead Bay (15)	2,189	12.9	13.5	61.7	40.6	7.1	8.6	5.3	57.5	11.1	34.3
Brownsville (16)	1,417	16.4	19.8	31.6	41.3	12.8	14.1	11.2	84.2	31.5	25.9
East Flatbush (17)	1,971	12.6	7.5	63.6	43.9	12.1	13.3	12.0	75.1	29.2	28.9
Canarsie (18)	2,301	11.7	9.7	49.9	41.3	9.6	11.9	8.2	54.8	24.0	34.2
QUEENS	26,984	11.9	34.4	70.1	45.3	7.8	8.3	8.1	66.5	14.7	23.9
Astoria, Long Island City (01)	1,981	9.9	31.3	60.9	55.0	7.0	8.5	12.5	56.1	14.4	31.5
Sunnyside, Woodside (02)	1,616	13.5	34.1	74.8	52.2	6.0	6.6	6.8	56.8	9.4	31.1
Jackson Heights (03)	2,744	15.6	73.9	82.2	39.5	7.3	7.1	9.2	82.8	15.4	18.4
Elmhurst, Corona (04)	2,784	15.4	56.3	88.0	42.3	7.3	8.0	6.8	83.9	11.7	15.9
Ridgewood, Glendale (05)	2,091	12.4	45.1	62.6	44.7	6.0	7.2	6.8	62.5	14.8	27.6
Rego Park, Forest Hills (06)	1,311	11.5	12.9	69.0	52.3	6.7	7.4	3.7	30.4	7.2	31.5
Flushing (07)	2,979	11.8	15.5	85.8	48.9	5.8	6.4	6.8	73.1	6.2	16.1
Fresh Meadows, Briarwood (08)	1,734	11.4	19.8	67.6	42.8	7.5	8.5	5.7	54.2	13.5	28.8
Woodhaven (09)	1,893	13.1	45.6	71.1	43.9	9.0	8.7	7.6	69.8	15.7	21.1
Howard Beach (10)	1,257	10.2	26.9	64.9	44.5	10.1	9.6	8.0	64.3	15.9	21.3
Bayside (11)	728	6.2	14.2	68.0	43.2	6.1	7.7	3.9	40.4	8.7	24.9
Jamaica, St. Albans (12)	2,941	12.9	23.3	59.5	42.7	10.8	10.1	11.2	75.4	24.8	25.7
Queens Village (13)	1,620	8.5	13.3	60.9	46.2	11.9	11.9	9.3	59.3	21.4	25.6
The Rockaways (14)	1,307	11.3	26.7	36.0	37.6	8.3	9.9	11.4	66.9	24.6	29.2
STATEN ISLAND	5,260	11.2	24.8	36.4	40.3	7.5	9.2	2.9	43.0	20.3	34.0
Port Richmond (01)	2,429	13.7	36.4	40.1	38.2	8.4	10.4	3.8	57.4	23.5	30.3
Willowbrook, South Beach (02)	1,370	10.3	18.3	46.4	40.8	6.7	8.3	2.8	40.1	15.7	37.7
Tottenville (03)	1,444	9.0	11.2	21.1	43.3	6.6	8.2	1.2	21.8	19.4	36.6
NEW YORK CITY RESIDENTS	113,461	13.6	33.7	52.6	44.57739	8.25232	8.9	7.1	62.7	16.4	31.0
NON-RESIDENTS	9,762	-	17.7	37.3	45.2	10	10.5	3.2	21.3	11.7	39.6
RESIDENCE UNKNOWN	8	-	33.3	33.3	42.9	14.3	16.7	83.3	37.5	0.0	0.0

Note: Borough totals may be higher than the sum of the community districts as they may include some live births whose community district could not be determined.
* Rate per 1,000 population. For population information, see Technical Notes: Geographical Units, Community District.
† See Technical Notes: Birthplace.
‡ Clinical gestational age <37 completed weeks.
§ Due to revision of the birth certificate, since 2008 "On Medicaid" also includes Family Health Plus, Other government, and Child Health Plus B.

PREGNANCY OUTCOMES

Table PO8. Live Births by Mother's Birthplace and Borough of Residence, New York City 2012

Birthplace	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
United States	58,651	10,831	9,097	21,417	7,932	3,302	6,069	3
China	8,787	1,115	57	4,112	3,024	114	365	-
Dominican Republic	7,866	1,552	3,810	1,170	1,054	52	227	1
Mexico	6,282	601	1,416	1,911	1,914	395	45	-
Ecuador	2,581	140	311	436	1,626	19	49	-
Jamaica	2,430	70	590	952	632	18	168	-
Bangladesh	2,147	58	346	451	1,259	10	23	
Guyana	1,777	22	139	615	910	14	77	-
Haiti	1,548	41	38	1,029	328	11	101	-
India	1,546	226	62	121	750	43	344	-
Pakistan	1,437	47	80	665	461	76	108	-
Trinidad and Tobago	1,252	41	55	698	379	19	60	-
Puerto Rico	1,217	122	636	247	125	41	45	1
Russia	1,027	151	21	514	153	80	108	-
Israel	949	186	24	506	108	29	96	-
Korea	877	253	14	95	397	18	100	-
Ukraine	802	75	11	518	64	74	60	
Uzbekistan	777	10	4	436	298	17	12	-
Philippines	765	88	53	87	390	46	101	-
El Salvador	764	40	103	155	390	7	69	-
Colombia	760	55	31	88	502	22	62	-
Poland	760	45	16	211	367	66	55	-
Honduras	728	50	282	168	157	34	37	-
Canada	671	222	13	277	61	-	98	-
Egypt	666	47	4	244	227	93	51	
Other or Not Stated	16,164	2,998	2,831	4,964	3,478	660	1,230	3
Total	123,231	19,086	20,044	42,087	26,986	5,260	9,760	8

Table PO9. Live Births by Mother's Birthplace and Age, New York City, 2012

Birthplace	Total	Age of Mother (Years)						
		<20	20-24	25-29	30-34	35-39	≥40	Unknown
United States	58,651	3,965	12,446	13,016	16,149	9,977	3,097	1
China	8,787	37	1,207	3,308	2,699	1,239	297	-
Dominican Republic	7,866	499	1,878	2,152	1,920	1,087	330	-
Mexico	6,282	333	1,301	2,008	1,601	838	201	-
Ecuador	2,581	143	424	716	739	415	144	-
Jamaica	2,430	97	413	646	627	444	203	-
Bangladesh	2,147	25	380	816	615	255	56	-
Guyana	1,777	50	289	477	538	326	97	-
Haiti	1,548	19	139	371	509	366	144	-
India	1,546	4	109	508	605	253	67	-
Pakistan	1,437	19	270	532	427	152	37	-
Trinidad and Tobago	1,252	35	180	387	373	208	69	-
Puerto Rico	1,217	121	312	268	267	193	56	-
Russia	1,027	5	86	336	341	202	57	-
Israel	949	13	105	235	313	211	72	-
Korea	877	-	15	97	397	294	74	-
Ukraine	802	2	65	232	297	176	30	-
Uzbekistan	777	24	215	284	170	67	17	-
Philippines	765	7	47	138	284	224	65	-
El Salvador	764	41	142	226	193	131	31	-
Colombia	760	24	92	175	258	163	48	-
Poland	760	2	39	188	352	152	27	-
Honduras	728	38	133	200	203	111	43	-
Canada	671	4	75	102	238	202	50	-
Egypt	666	5	101	224	215	101	20	-
Other or Not Stated	16,164	283	1,618	3,674	5,299	3,958	1,332	-
Total	123,231	5,795	22,081	31,316	35,629	21,745	6,664	1

PREGNANCY OUTCOMES

Table PO10 Pregnancy Outcomes and Pregnancy Rates* to Teenagers (Age 15-19 Years) by Ethnic Group and Borough of Residence, New York City, 2012

	Age of Woman (Years)	Live Births	Spontaneous Terminations	Induced Terminations	Population Women	Birth Rate per 1,000 Women	Pregnancy Rate Per 1,000 Women
New York City †	15-17	1,805	242	3,554	140,752	12.8	39.8
	18-19	3,990	433	5,863	104,672	38.1	98.3
	Age 15-19	5,795	675	9,417	245,424	23.6	64.7
Ethnic Group†							
Hispanic	15-17	1,119	84	1,262	52,194	21.4	47.2
	18-19	2,162	124	2,095	36,713	58.9	119.3
	Age 15-19	3,281	208	3,357	88,907	36.9	77.0
Asian and Pacific Islander	15-17	31	0	86	16,252	1.9	7.2
	18-19	146	11	207	12,748	11.5	28.6
	Age 15-19	177	11	293	29,000	6.1	16.6
Non-Hispanic White	15-17	89	31	205	30,130	3.0	10.8
	18-19	388	40	465	26,086	14.9	34.2
	Age 15-19	477	71	670	56,216	8.5	21.7
Non-Hispanic Black	15-17	536	68	1,720	39,235	13.7	59.2
	18-19	1,242	148	2,695	26,923	46.1	151.7
	Age 15-19	1,778	216	4,415	66,158	26.9	96.9
NYC Events to NYC Residents‡	15-17	1,767	227	3,338	140,752	12.6	37.9
	18-19	3,880	397	5,462	104,672	37.1	93.0
	Age 15-19	5,647	624	8,800	245,424	23.0	61.4
Ethnic Group‡							
Hispanic	15-17	1,096	82	1,206	52,194	21.0	45.7
	18-19	2,121	118	2,013	36,713	57.8	115.8
	Age 15-19	3,217	200	3,219	88,907	36.2	74.6
Asian and Pacific Islander	15-17	31	0	77	16,252	1.9	6.6
	18-19	143	11	185	12,748	11.2	26.6
	Age 15-19	174	11	262	29,000	6.0	15.4
Non-Hispanic White	15-17	82	26	171	30,130	2.7	9.3
	18-19	353	32	390	26,086	13.5	29.7
	Age 15-19	435	58	561	56,216	7.7	18.7
Non-Hispanic Black	15-17	529	63	1,615	39,235	13.5	56.3
	18-19	1,214	139	2,509	26,923	45.1	143.4
	Age 15-19	1,743	202	4,124	66,158	26.3	91.7
Borough of Residence							
Manhattan	15-17	155	26	545	17,790	8.7	40.8
	18-19	428	58	849	20,603	20.8	64.8
	Age 15-19	583	84	1,394	38,393	15.2	53.7
Bronx	15-17	579	66	1,000	30,615	18.9	53.7
	18-19	1,220	90	1,542	21,431	56.9	133.1
	Age 15-19	1,799	156	2,542	52,046	34.6	86.4
Brooklyn	15-17	545	74	1,034	45,926	11.9	36.0
	18-19	1,298	134	1,694	31,424	41.3	99.5
	Age 15-19	1,843	208	2,728	77,350	23.8	61.8
Queens	15-17	404	52	628	37,335	10.8	29.0
	18-19	790	101	1,194	25,342	31.2	82.3
	Age 15-19	1,194	153	1,822	62,677	19.1	50.6
Staten Island	15-17	84	9	131	9,086	9.2	24.7
	18-19	144	14	183	5,872	24.5	58.1
	Age 15-19	228	23	314	14,958	15.2	37.8
NYC Events to Non-NYC Residents	15-17	38	15	216	–	N.A.	N.A.
	18-19	110	36	401	–	N.A.	N.A.
	Age 15-19	148	51	617	–	N.A.	N.A.

* See Technical Notes: Population, Vital Event Rates.
† Includes all events occurring in NYC regardless of residence; other/unknown ethnicities are not presented.
‡ Numbers and rates are limited to events occurring in NYC to NYC residents only; other/unknown ethnicities are not presented.
N.A. Not applicable.

PREGNANCY OUTCOMES

Table PO11. Live Births to Teenagers (Age < 20 Years), Overall and by Selected Characteristics, New York City, 2008-2012

	Year				
	2008	2009	2010	2011	2012
Total Live Births	127,680	126,774	124,791	123,029	123,231
Percent to Teenagers	6.6	6.2	5.9	5.3	4.7
Population* (Female Age 15-19)	267,542	267,521	264,778	251,854	245,424
Birth Rate† (Age 15-19)	31.5	29.2	27.6	25.8	23.6
Births to Teenagers	8,423	7,806	7,309	6,489	5,795
Percent of Births with					
Specified Characteristics:					
Hispanic	59.6	59.7	59.4	59.0	58.2
Foreign-born Mother	31.2	29.2	29.2	29.1	29.5
First Live Birth	86.2	86.2	86.9	87.4	86.8
< 2,500 grams	10.6	9.8	9.5	10.4	9.9
Preterm‡	10.4	10.0	9.6	9.8	9.7
Prenatal Care in First or Second					
Trimester of Pregnancy	§	§	85.2	85.9	85.5
Not Married	90.1	90.6	90.8	90.2	90.1
On Medicaid||	87.4	88.8	89.5	89.7	88.6
Pre-pregnancy Obesity	15	16	15.2	14.3	14.1
Infant Mortality Rate¶	7.6	8.5	8.1	8.8	6.6

* For denominator information, see Technical Notes: Population.
† Births to women age < 20 years to per 1,000 female population age 15 to 19.
‡ Clinical gestational age < 37 completed weeks.
§ Due to data quality issue, no prenatal care variables are available for the years of 2008-2009.
|| See Technical Notes: Births, Birth Reporting.
¶ Infant mortality rate per 1,000 live births to teenagers.

PREGNANCY OUTCOMES

Table PO12. Live Births to Teenagers (Age < 20 Years) by Selected Characteristics by Community District of Residence, New York City, 2010-2012*

Community District of Residence	Live Births	Percent of Total Live Births	Percent of Total Live Births with Specified Characteristics: Mother's Ancestry Hispanic	Foreign Born Mother	First Live Birth†	Low Birth Weight (<2,500 Grams)	Preterm Birth (<37 Weeks)	Late or No Prenatal Care	Mother Not Married	On Medicaid‡	Exclusive Breast Feeding
NEW YORK CITY	19,593	5.3	58.9	29.2	87.0	9.9	9.7	14.5	90.4	89.3	21.4
MANHATTAN	2,171	3.8	68.5	28.1	87.5	10.5	10.6	12.7	93.8	90.4	23.6
Battery Park, Tribeca (01)	6	0.2	20.0	16.7	100.0	33.3	16.7	33.3	100.0	83.3	0.0
Greenwich Village, SoHo (02)	9	0.4	22.2	22.2	88.9	0.0	11.1	0.0	66.7	77.8	11.1
Lower East Side (03)	205	3.9	70.0	13.2	89.8	9.8	10.7	9.8	92.7	90.1	24.1
Chelsea, Clinton (04)	62	2.2	50.9	12.9	90.3	6.5	8.1	12.1	95.2	87.1	29.5
Midtown Business District (05)	22	1.3	36.4	9.1	86.4	4.5	0.0	10.0	95.5	85.0	27.3
Murray Hill (06)	15	0.4	40.0	13.3	80.0	13.3	6.7	0.0	86.7	100.0	20.0
Upper West Side (07)	124	1.5	59.0	10.5	86.3	12.9	16.1	18.3	96.0	86.2	28.6
Upper East Side (08)	41	0.5	61.5	34.1	82.5	9.8	9.8	20.5	97.6	95.0	24.4
Manhattanville (09)	274	7.1	70.0	36.5	85.4	9.9	8.4	11.5	94.5	88.1	25.0
Central Harlem (10)	383	7.5	33.0	16.2	86.4	11.5	11.0	17.6	93.0	89.6	26.9
East Harlem (11)	460	9.4	72.0	21.7	87.4	12.0	11.5	12.0	95.4	89.7	18.5
Washington Heights (12)	570	7.3	94.7	48.8	88.7	9.5	10.2	10.3	92.6	94.1	23.5
BRONX	6,049	9.7	71.1	26.0	86.8	10.4	9.4	16.2	95.1	89.5	24.3
Mott Haven (01)	604	12.1	77.7	22.2	86.4	10.6	9.9	17.8	96.2	91.0	21.9
Hunts Point (02)	325	11.8	75.1	21.5	83.1	12.6	8.9	19.6	96.0	88.8	20.3
Morrisania (03)	494	11.4	65.5	19.9	85.4	11.7	9.1	17.4	96.2	88.4	18.5
Concourse, Highbridge (04)	811	10.1	76.1	31.4	87.3	9.0	9.5	13.9	94.8	88.9	22.6
University/Morris Heights (05)	766	10.8	75.8	32.9	86.6	9.3	9.4	13.5	94.9	87.5	26.3
East Tremont (06)	530	12.2	74.0	19.3	86.8	13.4	11.7	13.3	96.0	90.7	23.8
Fordham (07)	588	8.3	82.7	33.7	84.0	11.4	10.2	14.4	94.7	91.8	31.0
Riverdale (08)	188	5.3	87.6	29.3	88.3	6.4	6.4	11.3	94.1	86.5	29.3
Unionport, Soundview (09)	687	9.1	71.5	21.5	87.3	10.5	10.0	18.9	94.0	90.5	23.1
Throgs Neck (10)	188	6.4	67.4	18.1	92.0	9.0	9.0	14.4	93.6	86.2	28.3
Pelham Parkway (11)	280	7.1	66.8	25.4	90.0	6.8	6.1	18.5	91.1	91.7	29.4
Williamsbridge (12)	588	10.5	37.3	26.5	88.3	10.7	8.2	20.2	96.8	88.9	23.3
BROOKLYN	6,262	5.0	44.1	28.0	87.0	9.9	10.0	12.9	86.1	91.1	19.2
Williamsburg, Greenpoint (01)	326	3.1	57.8	15.6	92.3	4.9	5.5	15.0	62.0	89.2	28.0
Fort Greene, Brooklyn Heights (02)	137	2.9	31.6	11.7	86.9	10.2	14.0	6.7	95.6	90.5	8.1
Bedford Stuyvesant (03)	608	8.2	33.6	16.0	86.3	11.5	12.3	14.5	91.8	91.6	17.5
Bushwick (04)	536	9.7	81.3	32.8	84.1	8.2	7.8	12.0	94.6	92.5	17.1
East New York (05)	851	10.1	46.1	22.2	86.2	10.6	10.8	12.0	96.5	89.6	14.1
Park Slope (06)	114	2.1	51.8	14.9	86.8	12.3	10.5	8.8	96.5	90.4	18.6
Sunset Park (07)	391	4.3	84.4	44.8	85.7	8.4	7.9	7.7	89.0	94.1	23.8
Crown Heights North (08)	270	6.4	17.6	19.3	89.3	13.7	12.2	14.0	93.7	88.0	16.5
Crown Heights South (09)	207	4.3	17.2	30.9	87.4	10.1	13.0	17.7	95.2	90.5	13.2
Bay Ridge (10)	138	2.6	50.4	44.9	88.4	12.3	11.6	9.5	66.7	92.0	26.3
Bensonhurst (11)	212	2.9	60.8	50.9	86.3	8.0	7.1	10.0	72.6	94.8	18.4
Borough Park (12)	411	2.5	57.6	36.7	88.6	7.1	6.8	6.4	46.7	90.3	30.0
Coney Island (13)	261	7.1	55.0	22.2	83.9	13.8	12.3	11.7	91.2	94.6	14.2
Flatbush, Midwood (14)	345	4.2	45.2	41.4	87.2	9.3	9.9	18.2	84.3	92.4	22.5
Sheepshead Bay (15)	237	3.8	28.7	44.3	88.6	7.2	6.3	14.5	57.8	86.1	29.4
Brownsville (16)	483	11.1	23.4	12.8	85.7	12.2	12.2	16.3	97.5	90.6	17.1
East Flatbush (17)	379	6.1	14.0	34.3	91.3	12.4	9.3	17.3	95.8	92.4	18.3
Canarsie (18)	356	4.9	18.9	26.7	86.2	8.4	11.8	14.2	92.1	90.5	17.9
QUEENS	3,916	4.8	60.1	39.4	87.1	8.7	8.8	16.5	89.9	88.8	18.5
Astoria, Long Island City (01)	258	4.3	64.8	28.3	88.8	7.0	6.6	27.3	91.1	90.2	15.2
Sunnyside, Woodside (02)	143	3.0	84.4	54.5	88.8	7.0	8.4	22.5	89.5	90.1	13.3
Jackson Heights (03)	536	6.4	92.3	59.0	87.3	6.2	9.0	15.0	90.1	95.3	15.7
Elmhurst, Corona (04)	472	5.6	90.8	58.3	85.0	6.4	7.2	17.1	90.7	95.7	15.3
Ridgewood, Glendale (05)	299	4.8	78.5	40.8	88.0	7.7	9.1	14.7	89.3	85.9	23.2
Rego Park, Forest Hills (06)	43	1.1	31.6	60.5	93.0	2.3	0.0	7.0	55.8	83.7	16.3
Flushing (07)	176	2.1	70.9	48.3	87.5	7.4	6.3	13.5	89.8	88.1	27.6
Fresh Meadows, Briarwood (08)	116	2.2	46.8	31.9	88.8	7.8	5.2	19.6	79.3	82.0	26.7
Woodhaven (09)	319	5.6	71.9	39.9	90.0	7.5	9.7	14.3	83.1	90.5	13.8
Howard Beach (10)	220	5.6	47.9	36.4	86.4	9.5	8.2	12.3	87.7	86.1	10.9
Bayside (11)	27	1.3	48.1	29.6	92.6	11.1	14.8	7.7	77.8	55.6	33.3
Jamaica, St. Albans (12)	690	7.7	30.3	27.1	84.9	12.3	9.6	15.1	92.6	86.3	21.1
Queens Village (13)	259	5.1	16.0	28.6	89.6	10.0	9.7	17.9	93.1	81.0	20.8
The Rockaways (14)	358	9.0	31.4	14.8	85.5	12.0	13.1	17.6	96.6	86.3	21.2
STATEN ISLAND	741	4.5	50.8	22.8	85.0	10.5	11.9	8.3	91.5	81.1	20.1
Port Richmond (01)	547	7.3	51.3	22.3	84.8	11.5	12.1	9.1	94.0	83.7	19.9
Willowbrook, South Beach (02)	137	3.2	53.8	28.5	85.4	8.8	10.9	7.3	83.2	75.2	21.9
Tottenville (03)	56	1.2	40.0	14.3	85.7	5.4	12.5	3.6	89.3	71.4	17.9
NEW YORK CITY RESIDENTS	19,139	5.6	59.1	29.5	86.9	9.9	9.7	14.5	90.8	89.6	21.2
NON-RESIDENTS	454	1.6	47.3	18.9	91.2	10.1	10.1	15.2	74.4	73.5	27.3
RESIDENCE UNKNOWN	-	-	-	-	-	-	-	-	-	-	-

Note: Borough totals may be higher than the sum of the community districts, as they may include some live births whose community district could not be determined.
Map of percent of live births to teenagers by community district of residence is presented on page 14 (Map PO3).

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

† See Technical Notes: Births, Birth Data Quality.

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

PREGNANCY OUTCOMES

Table PO13. Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy, Overall and by Borough of Residence and Age of Woman, New York City, 2012

Borough of Residence / Pregnancy Outcome	Total	Age of Woman (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or Not Stated
NEW YORK CITY	210,560	380	5,221	10,286	46,196	53,089	52,053	32,124	11,206	5
Live Births	123,231	88	1,717	3,990	22,081	31,316	35,629	21,745	6,664	1
Spontaneous Terminations	13,514	19	223	433	2,067	2,856	3,363	2,907	1,645	1
Induced Terminations	73,815	273	3,281	5,863	22,048	18,917	13,061	7,472	2,897	3
MANHATTAN	33,611	55	671	1,335	6,143	7,188	9,331	6,434	2,453	1
Live Births	19,086	9	146	428	2,179	3,456	6,636	4,630	1,602	–
Spontaneous Terminations	2,141	2	24	58	247	362	585	558	305	–
Induced Terminations	12,384	44	501	849	3,717	3,370	2,110	1,246	546	1
BRONX	39,703	106	1,539	2,852	10,887	10,503	7,979	4,294	1,543	0
Live Births	20,044	25	554	1,220	4,973	5,499	4,529	2,420	824	–
Spontaneous Terminations	2,191	4	62	90	459	507	480	370	219	–
Induced Terminations	17,468	77	923	1,542	5,455	4,497	2,970	1,504	500	–
BROOKLYN	68,223	104	1,549	3,126	15,903	17,989	16,174	9,996	3,380	2
Live Births	42,087	22	523	1,298	8,821	11,368	11,186	6,919	1,950	–
Spontaneous Terminations	4,450	5	69	134	772	988	1,057	885	540	–
Induced Terminations	21,686	77	957	1,694	6,310	5,633	3,931	2,192	890	2
QUEENS	44,731	85	999	2,085	9,364	12,027	11,432	6,566	2,173	0
Live Births	26,986	26	378	790	4,564	7,740	7,943	4,292	1,253	–
Spontaneous Terminations	2,933	8	44	101	393	665	746	654	322	–
Induced Terminations	14,812	51	577	1,194	4,407	3,622	2,743	1,620	598	–
STATEN ISLAND	8,054	13	211	341	1,484	2,076	2,242	1,297	390	0
Live Births	5,260	5	79	144	730	1,410	1,723	934	235	–
Spontaneous Terminations	651	–	9	14	74	137	186	150	81	–
Induced Terminations	2,143	8	123	183	680	529	333	213	74	–
NON-RESIDENTS	16,217	17	252	546	2,414	3,301	4,889	3,534	1,263	1
Live Births	9,760	1	37	110	813	1,841	3,609	2,549	800	–
Spontaneous Terminations	1,135	–	15	35	122	194	306	288	174	1
Induced Terminations	5,322	16	200	401	1,479	1,266	974	697	289	–
RESIDENCE UNKNOWN	21	0	0	1	1	5	6	3	4	1
Live Births	8	–	–	–	1	2	3	1	–	1
Spontaneous Terminations	13	–	–	1	–	3	3	2	4	–
Induced Terminations	0	–	–	–	–	–	–	–	–	–

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table PO14. Spontaneous Terminations of Pregnancy by Gestational Age and Age of Woman, New York City, 2012

Gestational Age (Weeks)	Total	Age of Woman (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or not stated
Total	13,514	19	223	433	2,067	2,856	3,363	2,907	1,645	1
<13	10,836	13	181	330	1,604	2,227	2,693	2,372	1,416	–
13-15	770	4	11	30	121	175	197	150	82	–
16-19	797	1	12	27	139	183	220	150	65	–
20-27	690	–	13	24	133	163	159	147	51	–
≥28	379	1	5	20	60	98	86	80	28	1
Not Stated	42	–	1	2	10	10	8	8	3	–

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table PO15. Selected Characteristics of Spontaneous Terminations of Pregnancy, ≥28 Weeks Gestation, Overall and by Age of Woman, New York City, 2012

	Total	Age of Woman (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Total	379	1	5	20	60	98	86	80	28	1
Sex										
Male	191	–	1	7	26	52	43	41	21	–
Female	174	1	4	9	32	43	40	38	6	1
Undetermined	14	–	–	4	2	3	3	1	1	–
Weight at Delivery (Grams)										
<500	9	–	–	–	1	1	2	5	–	–
500-999	23	–	1	2	5	7	3	1	4	–
1,000-1,499	47	1	–	3	7	17	10	8	1	–
1,500-1,999	60	–	–	3	8	19	12	16	2	–
2,000-2,499	70	–	–	5	14	14	13	13	11	–
≥2,500	152	–	2	7	24	36	43	31	9	–
Not stated	18	–	2	–	1	4	3	6	1	1

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

PREGNANCY OUTCOMES

Table PO16. Selected Characteristics of Spontaneous Terminations of Pregnancy, ≥28 Weeks Gestation, Overall and by Ethnic Group of Woman, New York City, 2012

	Racial/Ethnic Group of Women							
	Total	Puerto Rican	Other Hispanic	Asian and Pacific Islander	Non-Hispanic White	Non-Hispanic Black	Other	Not Stated
Total	379	14	70	37	104	118	5	31
Sex								
Male	191	3	30	21	57	58	2	20
Female	174	11	36	16	44	55	2	10
Undetermined	14	–	4	–	3	5	1	1
Weight at Delivery (Grams)								
<500	9	–	1	–	5	2	–	1
500-999	23	1	5	1	2	10	2	2
1,000-1,499	47	1	9	4	9	20	–	4
1,500-1,999	60	4	14	4	14	22	–	2
2,000-2,499	70	3	11	8	20	21	1	6
≥2,500	152	5	26	20	47	42	1	11
Not stated	18	–	4	–	7	1	1	5

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table PO17. Live Births, Spontaneous Terminations of ≥ 28 Weeks Gestation, and Induced Terminations of Pregnancy by Borough of Residence and Occurrence, New York City, 2012

Borough of Residence / Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY.	197,425	74,766	27,662	48,917	40,076	6,004
Live Births	123,231	45,351	15,734	32,346	23,992	5,808
Spontaneous Terminations	379	106	68	111	72	22
Induced Terminations	73,815	29,309	11,860	16,460	16,012	174
MANHATTAN	31,502	28,456	1,450	1,068	517	11
Live Births	19,086	18,338	354	265	120	9
Spontaneous Terminations	32	28	2	-	2	-
Induced Terminations	12,384	10,090	1,094	803	395	2
BRONX	37,584	11,893	24,495	483	702	11
Live Births	20,044	5,259	14,441	157	176	11
Spontaneous Terminations	72	11	60	1	-	-
Induced Terminations	17,468	6,623	9,994	325	526	-
BROOKLYN	63,900	17,097	345	41,732	3,562	1,164
Live Births	42,087	10,492	116	29,093	1,231	1,155
Spontaneous Terminations	127	21	-	101	3	2
Induced Terminations	21,686	6,584	229	12,538	2,328	7
QUEENS	41,869	7,719	300	3,171	30,654	25
Live Births	26,986	5,141	106	1,784	19,930	25
Spontaneous Terminations	71	8	-	5	58	-
Induced Terminations	14,812	2,570	194	1,382	10,666	-
STATEN ISLAND	7,425	1,259	40	1,396	166	4,564
Live Births	5,260	301	17	532	29	4,381
Spontaneous Terminations	22	-	-	2	-	20
Induced Terminations	2,143	958	23	862	137	163
NON-RESIDENTS	15,137	8,339	1,030	1,066	4,473	229
Live Births	9,760	5,817	698	514	2,504	227
Spontaneous Terminations	55	38	6	2	9	-
Induced Terminations	5,322	2,484	326	550	1,960	2
RESIDENCE UNKNOWN	8	3	2	1	2	-
Live Births	8	3	2	1	2	-
Spontaneous Terminations	–	-	-	-	-	-
Induced Terminations	–	-	-	-	-	-

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table PO18. Induced Terminations of Pregnancy by Selected Characteristics and Age of Woman, New York City, 2012

		Age of Woman (Years)								
	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Induced Termination of Pregnancy, All	73,815	273	3,281	5,863	22,048	18,917	13,061	7,472	2,897	3
Ethnic Group										
Hispanic	22,917	93	1,169	2,095	7,488	5,807	3,707	1,957	600	1
Asian and Pacific Islander	4,493	5	81	207	1,028	1,144	957	706	365	-
Non-Hispanic white	9,704	10	195	465	2,414	2,796	1,958	1,247	619	-
Non-Hispanic black	31,328	134	1,586	2,695	9,490	7,900	5,448	2,993	1,080	2
Other	2,555	18	139	221	884	594	420	203	76	-
Unknown	2,818	13	111	180	744	676	571	366	157	-
Marital Status										
Married	11,961	4	58	185	1,651	3,044	3,351	2,485	1,183	-
Not married	55,474	242	2,923	5,152	18,596	14,294	8,555	4,287	1,423	2
Other/Unknown	6,380	27	300	526	1,801	1,579	1,155	700	291	1
Gestational Age (Weeks)										
≤6	27,690	49	878	1,692	7,851	7,697	5,377	2,922	1,224	-
7 - 8	21,964	60	875	1,640	6,468	5,678	4,013	2,389	838	3
9 - 10	10,040	46	518	927	3,148	2,497	1,642	913	349	-
11 - 12	5,024	30	322	563	1,641	1,131	757	428	152	-
13 - 15	3,652	27	251	406	1,151	807	495	365	150	-
16 - 20	3,594	32	263	410	1,220	730	520	303	116	-
≥21	1,832	29	173	225	567	371	251	151	65	-
Unknown	19	-	1	-	2	6	6	1	3	-
Type of Primary Termination Procedure										
Suction curettage	54,092	175	2,283	4,156	15,994	13,954	9,775	5,640	2,113	2
Sharp curettage / D+C	1,494	3	45	76	319	354	328	240	129	-
Dilatation and evacuation	7,595	78	569	877	2,416	1,612	1,083	680	280	-
Intrauterine instillation	50	-	-	1	3	3	21	16	6	-
Hysterotomy / hysterectomy	7	-	-	-	1	.	2	3	1	-
Medical (non-surgical)	10,488	16	384	748	3,299	2,977	1,831	875	357	1
Other	89	1	-	5	16	17	21	18	11	-

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table PO19. Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Ethnic Group, New York City, 2008-2012

	2008	2009	2010	2011	2012
Marital Status (Percent)					
Married	14.2	14.2	13.6	15.8	16.2
Not married	83.3	83.6	82.5	67.2	75.2
Other/Unknown	2.6	2.2	3.9	17.0	8.6
Age of Woman (Years)					
<15	457	461	431	317	273
15 - 19	14,276	13,577	12,139	10,985	9,144
20 - 24	25,998	25,365	24,898	24,266	22,048
25 - 29	21,949	21,702	20,707	20,126	18,917
30 - 34	14,459	14,330	14,009	13,809	13,061
35 - 39	8,665	8,324	8,047	7,903	7,472
≥40	3,247	3,176	3,199	3,077	2,897
Unknown	418	338	320	2	3
Ethnic Group					
Hispanic	28,921	28,364	27,112	23,959	22,917
Asian and Pacific Islander	5,557	5,212	4,761	4,308	4,493
Non-Hispanic white	10,451	9,853	9,220	9,550	9,704
Non-Hispanic black	41,857	40,798	38,574	35,188	31,328
Other	396	349	607	3,246	2,555
Unknown	2,287	2,697	3,476	4,234	2,818
Total	89,469	87,273	83,750	80,485	73,815

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

PREGNANCY OUTCOMES

Table PO20. Most Popular Baby Names by Sex, New York City, Selected Years

Rank	Girls										
	1898	1928	1948	1980	1990	2000	2005	2009	2010	2011	2012
1	Mary	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Isabella	Isabella	Isabella	Sophia
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Sophia	Sophia	Sophia	Isabella
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Mia	Olivia	Olivia	Emma
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Emily	Emily	Emma	Olivia
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Olivia	Madison	Mia	Emily
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Madison	Mia	Emily	Mia
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Sarah	Emma	Madison	Chloe
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Ashley	Leah	Leah	Madison
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Leah	Sarah	Chloe	Leah
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Emma	Chloe	Sofia	Ava

Rank	Boys										
	1898	1928	1948	1980	1990	2000	2005	2009	2010	2011	2012
1	John	John	Robert	Michael	Michael	Michael	Michael	Jayden	Jayden	Jayden	Jayden
2	William	William	John	David	Christopher	Justin	Daniel	Daniel	Ethan	Jacob	Ethan
3	Charles	Joseph	James	Jason	Jonathan	Christopher	Joshua	Ethan	Daniel	Ethan	Jacob
4	George	James	Michael	Joseph	Anthony	Matthew	David	Michael	Jacob	Daniel	Daniel
5	Joseph	Richard	William	Christopher	David	Daniel	Justin	David	David	Michael	Matthew
6	Edward	Edward	Richard	Anthony	Daniel	Anthony	Matthew	Justin	Justin	Matthew	Michael
7	James	Robert	Joseph	John	Joseph	Joshua	Anthony	Matthew	Michael	Justin	Aiden
8	Louis	Thomas	Thomas	Daniel	Matthew	David	Christopher	Joshua	Matthew	David	David
9	Francis	George	Stephen	Robert	John	Joseph	Joseph	Alexander	Joseph	Aiden	Ryan
10	Samuel	Louis	David	James	Andrew	Kevin	Nicholas	Christopher Ryan*	Joshua	Alexander	Alexander

* Tied ranks.

Table PO 21. Most Popular Baby Names by Sex and Mother's Ethnic Group, New York City, 2012

Rank	Girls				Boys			
	Hispanic	NH-Black	NH-White	Asian & P.I.	Hispanic	NH-Black	NH-White	Asian & P.I.
1	Isabella	Madison	Emma	Chloe	Jayden	Jayden	Joseph	Ryan
2	Sophia	London	Leah	Sophia	Jacob	Aiden	David	Ethan*
3	Mia	Taylor	Sarah	Olivia	Matthew	Ethan	Michael	Jayden*
4	Emily	Chloe	Olivia*	Emily	Ethan	Jeremiah	Jacob	Lucas
5	Sofia	Abigail	Sophia*	Emma	Angel	Joshua	Moshe	Justin
6	Camila	Kayla	Esther	Isabella	Aiden	Elijah*	Daniel	Eric
7	Ashley	Serenity	Rachel	Angela*	Daniel	Michael*	Alexander	Aiden
8	Madison	Olivia	Chaya	Ella*	Justin	Christian	Benjamin	Muhammad
9	Emma	Nevaeh	Ava	Grace	Alexander	Josiah†	Samuel	Jason
10	Genesis	Aaliyah	Chana	Hailey	Sebastian	Mason†	James	Daniel

*, † Tied ranks.

NH = non-Hispanic; P.I. = Pacific Islander. Mothers of other, multiple race, or unknown ethnic group not shown.

PREGNANCY OUTCOMES

Table PO22. Characteristics of Birth and Pregnancy Outcomes by Neighborhood Poverty*, New York City, 2003, 2012

	Low (< 10%)			Medium (10 to < 20%)			High (20 to < 30%)			Very High (≥ 30%)		
Birth Charteristics	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)	2012	2003	Chg 2003 to 2012 (%)
Births	25,611	22,282	15	30,373	28,371	7	25,741	26,836	-4	31,723	36,265	-13
Population	2,390,191	2,089,989	14	2,414,452	2,250,518	7	1,730,680	1,731,982	0	1,801,375	2,001,789	-10
Birth Rate (per 1,000 population)	10.7	10.7	0.0	12.6	12.6	0.0	14.9	15.5	-3.9	17.6	18.1	-2.8
Preterm Live Births (%)	8.3	9.1	-8.8	8.9	9.1	-2.2	9.0	9.2	-2.2	9.4	10.0	-6.0
Low Birth Weight (%)	7.8	8.1	-3.7	8.2	8.2	0.0	8.1	8.2	-1.2	8.8	9.1	-3.3
Body Mass Indicator‡												
Normal (%)	63.6	-	-	55.8	-	-	50.7	-	-	47.4	-	-
Overweight/Obese (%)	29.9	-	-	38.1	-	-	44.0	-	-	47.0	-	-
C-section (%)**	34.3	31.0	**	33.6	27.4	**	32.5	25.1	**	29.3	23.9	**
Multiple Births (%)	4.9	5.0	-2.0	3.5	3.3	6.1	2.9	2.8	3.6	2.9	2.7	7.4
Breastfed Only (%)‡	40.6	-	-	32.1	-	-	27.9	-	-	24.8	-	-
Late or No Prenatal Care	4.3	3.7	16.2	7.2	7.1	1.4	8.2	7.7	6.5	8.5	7.7	10.4
Foreign Born (%)	45.1	40.6	11.1	60.4	64.4	-6.2	59.7	63.6	-6.1	45.5	48.2	-5.6

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

† Summary of Vital Statistics 2012, Appendix B. Technical Notes. Neighborhood Poverty. Neighborhood poverty (based on census tract) defined as percent of residents with incomes below 100% of the Federal Poverty Level, per Census 2010.

‡Prior to 2008, data needed to compute these variables were not collected on the New York City certificate of birth.

** 2003 C-section data is not comparable to 2012 due to 2008 birth certificate revisions. Historical Technical Notes: Births.

PREGNANCY OUTCOMES

Table PO23. Pregnancy Outcomes, Pregnancy Outcome Rates*, and Pregnancy Rates* by Mother's Age Group, Racial/Ethnic Group, and Borough of Residence, New York City, 2012

	Age of Woman	Live Births		Spontaneous Terminations		Induced Terminations		Pregnancy
	Years	Counts†	Rates per 1,000	Counts†	Rates per 1,000	Counts†	Rates per 1,000	Rates per 1,000
New York City‡	15-19	5,795	23.6	675	2.8	9,417	38.4	64.7
	20-29	53,397	73.9	4,923	6.8	40,965	56.7	137.5
	30-39	57,374	87.1	6,270	9.5	20,533	31.2	127.8
	40-49	6,664	11.4	1,645	2.8	2,897	4.9	19.1
	Total	123,231	14.8	13,514	7.0	73,815	38.4	109.6
Ethnic Group‡§								
Hispanic	15-19	3,281	36.9	208	2.3	3,357	37.8	77.0
	20-29	18,860	91.9	1,248	6.1	13,295	64.8	162.7
	30-39	13,154	71.1	1,225	6.6	5,664	30.6	108.3
	40-49	1,347	8.0	270	1.6	600	3.6	13.1
	Total	36,642	15.2	2,951	5.2	22,917	40.6	110.7
Asian and Pacific Islander	15-19	177	6.1	11	0.4	293	10.1	16.6
	20-29	8,872	85.6	333	3.2	2,172	20.9	109.7
	30-39	11,115	105.4	563	5.3	1,663	15.8	126.5
	40-49	985	11.0	111	1.2	365	4.1	16.3
	Total	21,149	18.8	1,018	3.6	4,493	15.8	93.8
Non-Hispanic White	15-19	477	8.5	71	1.3	670	11.9	21.7
	20-29	13,230	54.3	853	3.5	5,210	21.4	79.2
	30-39	22,486	104.0	1,676	7.8	3,205	14.8	126.6
	40-49	2,919	17.7	449	2.7	619	3.8	24.2
	Total	39,112	14.2	3,049	5.1	9,704	16.1	86.2
Non-Hispanic Black	15-19	1,778	26.9	216	3.3	4,415	66.7	96.9
	20-29	11,812	76.0	1,392	9.0	17,390	111.8	196.8
	30-39	9,846	70.3	1,430	10.2	8,441	60.3	140.9
	40-49	1,322	8.6	408	2.7	1,080	7.1	18.4
	Total	24,758	13.0	3,446	7.9	31,328	72.0	136.9
Borough of Residence‖								
Manhattan	15-19	583	15.2	84	2.2	1,394	36.3	53.7
	20-29	5,635	31.7	609	3.4	7,087	39.8	74.9
	30-39	11,266	76.9	1,143	7.8	3,356	22.9	107.6
	40-49	1,602	14.9	305	2.8	546	5.1	22.8
	Total	19,086	11.8	2,141	5.1	12,384	29.6	80.2
Bronx	15-19	1,799	34.6	156	3.0	2,542	48.8	86.4
	20-29	10,472	90.0	966	8.3	9,952	85.6	183.9
	30-39	6,949	68.0	850	8.3	4,474	43.8	120.1
	40-49	824	8.1	219	2.1	500	4.9	15.1
	Total	20,044	14.2	2,191	6.8	17,468	54.4	123.7
Brooklyn	15-19	1,843	23.8	208	2.7	2,728	35.3	61.8
	20-29	20,189	90.9	1,760	7.9	11,943	53.8	152.6
	30-39	18,105	87.8	1,942	9.4	6,123	29.7	126.9
	40-49	1,950	11.1	540	3.1	890	5.1	19.3
	Total	42,087	16.4	4,450	7.5	21,686	36.5	114.7
Queens	15-19	1,194	19.1	153	2.4	1,822	29.1	50.6
	20-29	12,304	70.5	1,058	6.1	8,029	46.0	122.5
	30-39	12,235	70.8	1,400	8.1	4,363	25.2	104.1
	40-49	1,253	7.6	322	2.0	598	3.6	13.2
	Total	26,986	11.9	2,933	6.0	14,812	30.1	90.8
Staten Island	15-19	228	15.2	23	1.5	314	21.0	37.8
	20-29	2,140	68.7	211	6.8	1,209	38.8	114.3
	30-39	2,657	86.6	336	11.0	546	17.8	115.4
	40-49	235	6.6	81	2.3	74	2.1	11.0
	Total	5,260	11.2	651	6.9	2143	22.8	85.6

Note: Population data used to calculate rates are 2012 estimates based on the 2010 census. See Technical Notes: Population.

*See Technical Notes: Population, Vital Event Rates

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

‡Includes all events occurring in NYC regardless of residence.

§Other/unknown ethnicities are excluded.

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

SUMMARY OF VITAL STATISTICS
2012
THE CITY OF NEW YORK
Appendix B

Technical Notes and New York City Vital Event Certificates

BUREAU OF VITAL STATISTICS, NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
125 WORTH STREET, CN 7, NEW YORK, NEW YORK, 10013

JANUARY 2014

POPULATION

CITYWIDE POPULATION

The 2012 NYC population estimates used in tables and figures are based on the US Census Bureau 2012 Vintage population estimate as of July 1, 2012 extracted from http://www.census.gov/popest/data/counties/asrh/2012/CC-EST2012-ALLDATA.html. The 2012 US Census population estimate for New York City (NYC) is 8,336,697. (See table on next page for 2012 NYC population estimates by age, race/ethnicity and sex). Population data used to compute rate trends (2003-2012), regardless of NYC geography presented, was estimated by DOHMH, Epidemiology Services, using the methodology found below under Community District Population Estimates.

RACE/ETHNICITY CATEGORIES

Beginning with the 2000 Census, respondents could describe themselves and household members as being of more than one race, selecting at least one of six race categories: white, black, American Indian and Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and some other race(s). These categories yield 63 possible combinations. Respondents also were asked if they were of Hispanic origin. The resulting responses could be organized into 64 groups. New York City's Department of City Planning collapses these groups into seven categories: (1) Hispanic origin, (2) non-Hispanic white, (3) non-Hispanic black, (4) non-Hispanic Asian or Pacific Islander, (5) non-Hispanic American Indian and Alaska Native, (6) non-Hispanic of some other race, and (7) non-Hispanic of two or more races, which the Department of City Planning refers to as "mutually exclusive race and Hispanic categories. The first four of these categories are reflected in the Vital Statistics Summary variable "ethnic group" with a 5th that combines non-Hispanic American Indian and Alaska Native, non-Hispanic of some other race, non-Hispanic of two or more races and other or multiple race. For more information, see "Race, Ancestry, and Ethnic Group."

COMMUNITY DISTRICT POPULATION ESTIMATES

Community districts were established by City Charter in 1969 for the delivery of city services. Population figures 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.

2003-2012 Community District estimates

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

The 2012 Community District estimates were calculated based on the Census postcensal estimate for 2012 released in May 2013 (See Historical Technical Notes for previous years' methods).

AGE CATEGORIES

For life expectancy computations, single-year age group populations were based on decennial census counts. Life expectancies for 2001-2009 have been updated from previous Summary using linear interpolation of single-year age group populations based on 2000 and 2010 census counts. Life expectancies for 2010 are calculated based on 2010 census population.

Since 2010, rates of teen events (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.

Population Estimates by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2012

Age in	All			Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Multiple Race		
Years	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Ages	8,336,697	3,972,371	4,364,326	2,406,889	1,168,292	1,238,597	2,757,628	1,339,445	1,418,183	1,900,419	855,269	1,045,150	1,124,558	540,227	584,331	147,203	69,138	78,065
Under 5	544,892	278,672	266,220	190,160	97,069	93,091	151,067	77,421	73,646	122,077	62,106	59,971	61,945	31,978	29,967	19,643	10,098	9,545
5-9	482,213	246,547	235,666	170,339	86,991	83,348	127,103	65,436	61,667	114,121	57,809	56,312	57,700	29,810	27,890	12,950	6,501	6,449
10-14	464,739	237,030	227,709	165,590	84,543	81,047	110,332	56,947	53,385	122,297	61,443	60,854	55,759	28,628	27,131	10,761	5,469	5,292
15-19	496,237	250,813	245,424	181,370	92,463	88,907	113,351	57,135	56,216	132,161	66,003	66,158	59,281	30,281	29,000	10,074	4,931	5,143
20-24	646,005	316,963	329,042	213,644	110,420	103,224	179,459	84,459	95,000	154,453	75,043	79,410	86,415	41,383	45,032	12,034	5,658	6,376
25-29	756,643	363,488	393,155	209,486	107,382	102,104	282,375	133,700	148,675	141,464	65,382	76,082	109,659	50,994	58,665	13,659	6,030	7,629
30-34	694,963	337,884	357,079	198,143	99,875	98,268	247,988	125,080	122,908	131,831	59,038	72,793	105,236	48,630	56,606	11,765	5,261	6,504
35-39	587,468	286,026	301,442	173,015	86,185	86,830	193,420	100,082	93,338	119,518	52,347	67,171	91,937	43,064	48,873	9,578	4,348	5,230
40-44	574,299	279,100	295,199	167,555	82,187	85,368	179,654	93,997	85,657	130,434	57,160	73,274	87,710	41,635	46,075	8,946	4,121	4,825
45-49	560,192	269,767	290,425	158,992	75,514	83,478	166,758	87,524	79,234	142,242	62,438	79,804	83,586	40,254	43,332	8,614	4,037	4,577
50-54	547,728	259,160	288,568	143,722	66,235	77,487	176,328	89,127	87,201	140,124	61,509	78,615	79,615	38,672	40,943	7,939	3,617	4,322
55-59	501,130	231,435	269,695	121,212	53,901	67,311	178,725	87,308	91,417	121,548	51,636	69,912	73,173	35,613	37,560	6,472	2,977	3,495
60-64	434,872	196,037	238,835	98,252	42,719	55,533	172,474	81,098	91,376	99,798	41,585	58,213	59,299	28,442	30,857	5,049	2,193	2,856
65-69	327,798	142,952	184,846	74,006	30,966	43,040	135,651	62,234	73,417	76,191	30,235	45,956	38,516	18,038	20,478	3,434	1,479	1,955
70-74	244,093	102,663	141,430	53,802	21,637	32,165	102,494	45,430	57,064	56,671	21,304	35,367	28,668	13,249	15,419	2,458	1,043	1,415
75-79	182,556	74,356	108,200	38,860	14,644	24,216	81,215	35,227	45,988	39,949	14,285	25,664	20,873	9,537	11,336	1,659	663	996
80-84	140,572	52,573	87,999	26,319	9,070	17,249	72,374	28,910	43,464	27,280	8,530	18,750	13,573	5,699	7,874	1,026	364	662
85 & Over	150,297	46,905	103,392	22,422	6,491	15,931	86,860	28,330	58,530	28,260	7,416	20,844	11,613	4,320	7,293	1,142	348	794

Data Source: US Census Bureau, population estimates, 2012.

DEMOGRAPHIC 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 not recoded.

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, or 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

Mother'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.

GEOGRAPHICAL UNITS

RESIDENCY STATUS IN DATA PRESENTATION

Community districts were established by City Charter in 1969 for the delivery of city services. Population figures 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.

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 (Report: Figures 4 and 5; Appendix A Tables M24, M25, and Figure M14). Life expectancy calculations use national data from the NCHS, including deaths to New York City residents that occurred outside of New York City. For more information see Life Expectancy.

BIRTHPLACE PRESENTATION

Mortality Data

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

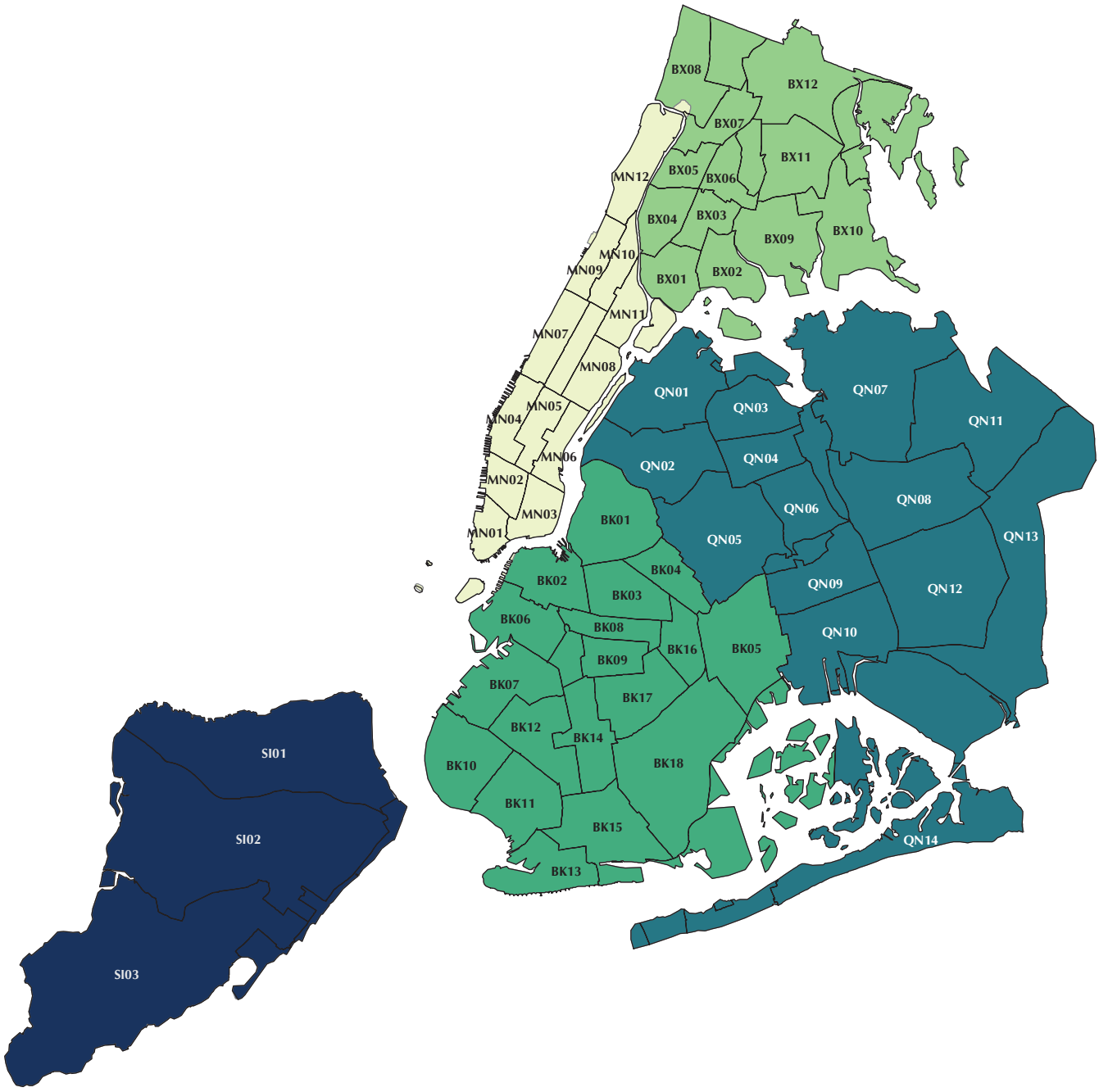
Mother's Birthplace (used for births and infant mortality data)

Starting in 2007, mother's birthplace is categorized as: "United States, including its territories" (Puerto Rico, the US Virgin Islands, American Samoa, Northern Marianas Islands, and Guam), "Foreign," and "Not Stated." When mother's birthplace is classified by country-specific categories, Puerto Rico is categorized apart from the United States.

BOROUGH OF RESIDENCE

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

Community Districts and Boroughs, New York City



COMMUNITY DISTRICT (CD)

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 www.nyc.gov/dcp.

NEIGHBORHOOD POVERTY INDICATOR

Neighborhood poverty disparities are presented in the 2012 summary of vital statistics for the first time. 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: $<10\%$ of the population below poverty, 10-19% of the population below poverty, 20-29% of the population below poverty and $\geq 30\%$ of the population below poverty. The denominator of any rate by neighborhood poverty category contains the combined populations of census tracts falling within a category. The numerator contains the summed number of vital events occurring to residents of the census tracts falling within a category. Additional information on poverty indicator can be found at http://www.hsph.harvard.edu/thegeocodingproject/.

VITAL EVENT RATES

DEATH RATES

Death Rate, all causes per 1,000 population	Death Rate, specified causes per 100,000 population
$\frac{Deaths\ All\ Causes}{Population} x1{,}000$	$\frac{Deaths\ due\ to\ Specific\ Cause\ (specified\ ICD10\ codes)}{Population} x100{,}000$
Death Rate, age and sex specific per 1,000 population	Death Rate, age, sex and race-adjusted per 100,000
$\frac{Deaths\ to\ persons\ of\ specificed\ age\ group\ and\ sex}{Population, specified\ age\ group\ and\ sex} x1{,}000$	The number of deaths per 100,000 US standard population. Age, sex and race/ethnicity specific death rates are applied to a standard population age distribution eliminating the effect of differences in population age composition, and allowing comparisons over time and between geographic areas.
Maternal Mortality Ratio – World Health Organization Definition (Appendix M13)	
$\frac{Deaths\ due\ to\ complications\ of\ pregnancy, childbirth\ and\ the\ puerperium\ occurring\ within\ 42\ days\ of\ delivery\ *}{Live\ births} x100{,}000$	
*Deaths of a woman while pregnancy or within 42 days of termination of pregnancy from any cause related to or aggravated by pregnancy or its management (ICD10 codes: O00-O95, O98-O99, A34)	
Perinatal Mortality Ratio	
$\frac{Fetal\ Deaths\ 28\ Weeks\ and\ Over + Infant\ Deaths\ Under\ 7\ days}{Fetal\ Deaths\ 28\ Weeks\ and\ Over + Live\ Births} x1{,}000$	

INFANT MORTALITY RATES

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

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

All characteristics of infant deaths are drawn from the death certificate, except mother's demographic, pregnancy, prenatal care, birth weight, and gestational age information, which derive from the child's birth certificate. 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: Table IM2.

PREGNANCY OUTCOME RATES

FERTILITY RATE	PREGNANCY RATE
$\frac{Live\ births}{Female\ population\ aged\ 15-44\ years} x1{,}000$	$\frac{\Sigma\ (Births, Spontaneous, Induced\ Terminations)}{Female\ population\ of\ specific\ age\ group} x1{,}000$

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

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

*Pregnancy Outcome Counts and Rates

Pregnancy outcome (birth, spontaneous termination, or induced termination) counts and rate numerators use the number of events to women of all ages. For example, the birth rate includes all births in a population, regardless of the mother's age. The denominator for these rates differs by event, consistent with national standards. The birth rate denominator is the number of males and females of all ages. The denominator for spontaneous or induced termination rates is the number of females ages 15-44. 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 1. Pregnancy Outcomes Report). 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 B) 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 is unattended or due to certain other circumstances (approximately 15% of deaths), the New York City Office of the Chief Medical Examiner (OCME) completes the medical examiner certificate of death and supplementary report.

For natural cause certificates, the Electronic Vital Events Registration System's (EVERS) 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, birth place, 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, the OCME certificate and 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 in-route to New York City, regardless of individual residency status, in a particular year. Any events registered after file closure (typically occurring within 5 months of year-end) are excluded from this report. Such late registrations are rare.

Death certificates must be filed within 72 hours of death or finding the body. During 2012, 93% of death certificates were filed electronically using the Electronic Vital Events Registration System (EVERS). Additional information on EVERS is available at: www.nyc.gov/evers. 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 www.nyc.gov/evers.

The Office of Vital Statistics initiated a program to improve quality of cause of death data in 2009, affecting mortality trends. 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, pg. 73-75.

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

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

COMPARABILITY RATIO

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

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

$$\frac{Deaths\ from\ cause\ _{I}CD-10}{Deaths\ from\ cause\ _{I}CD-9}$$

More information on the ICD-10/ICD-9 comparability ratio can be found at http://www.cdc.gov/nchs/nvss/mortality/comparability_icd.htm

ALCOHOL-RELATED DEATHS

Alcohol-Related Deaths (Mortality Figure 24) Following an increasing deaths due to binge drinking, the ICD codes for alcohol-related deaths were reevaluated by the World Health Organization's Mortality Reference Group and a coding change was implemented in 2008. Core changes included recoding acute alcoholism, previously coded as F10.2, to X45 (alcohol poisoning) and retiring F100 and going forward coding such cases as X45. This resulted in an increase in alcohol liver disease and alcohol poisoning and a decrease in alcohol dependence syndrome. A subsequent decrease in alcohol liver disease between 2008 and 2009 is, in part, a result of further corrections to coding applied in 2009. Similar changes are seen in US data.

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 using 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. Detailed description of the methodology is available at http://apps.nccd.cdc.gov/ardi/HomePage.aspx.

COMPLICATIONS OF MEDICAL AND SURGICAL CARE (Appendix A Table 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

Two definitions of drug-related deaths are presented in this report. The first, "Mental and behavioral 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. The second definition, "Accidental/unintentional Drug-related Overdose Deaths" is presented in the Executive Summaries of Summary of Vital Statistics, starting in 2009 and in 2012 Mortality Report.

Mental and behavioral disorders due to use of or accidental poisoning by psychoactive substance excluding alcohol and tobacco (Mortality Tables 1-5, Figures 9-12, Appendix A Tables M1, M7-M12 and M26): also called "Use of or poisoning by psychoactive substance" or "Drug Use/Poisoning" combines underlying chronic drug-use ICD 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 1-5 Figures 9-12, 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 and M18. "Mental and behavioral 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. 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.

Unintentional Drug-related Deaths (Mortality: Figure 31) is the definition used in Take Care New York (TCNY). Reported in the Summary since 2008, the definition has changed. Starting in 2011 Summary, the definition of Unintentional Drug-related Deaths has 2 modifications from "Drug Use/Poisoning": (i) restricted to deaths among individuals ages $15 \leq 84$; (ii) restricted to deaths confirmed by medical examiner to be accidental. This definition has changed since 2008 after extensive review of drug related death case files.

Deaths due to alcohol are reported separately. See Alcohol-Related Deaths above.

EXTERNAL CAUSES OF DEATH (Mortality Figures 28-21; 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 are described above: Cause of Death Coding.

FATAL OCCUPATIONAL INJURIES (Mortality Figure 27, Table 6; Appendix A Table M17 and Figure M12)

Appendix A, Table M17 and Figure M12 are 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.

HIV AND AIDS MORTALITY (Mortality Tables 1-5; Figures 9-12, 25, 26; Appendix M16)

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

HOMICIDE (Mortality Figure 32; 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. BVS reports a death as a homicide based on the ICD-10 system. ICD-10 defines legal intervention as "including 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.

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

The Bureau of Vital Statistics (BVS) methodology for counting Motor Vehicle Deaths differs from that of the Department of Transportation (DOT) and NYPD in two ways. First, DOT and NYPD do not include deaths resulting from illness while operating a motor vehicle in their traffic fatality count, while BVS does, as this is the standardized NCHS approach. Second, in cases where serious injury suffered during a motor vehicle accident results in subsequent death (e.g., one month later) the fatality will be counted by DOT and NYPD for the month in which the accident occurred. However, BVS reports deaths by date of death.

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.

LIFE EXPECTANCY (Mortality Figures 4, 5; 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.

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

Appendix, Table M25 presents annual life expectancy by age and sex providing trend information. Annual life expectancy is estimated using single-year death data. Table M25 does not include life expectancy for 2011 because national data on deaths to New York City residents occurring outside of New York City are required and not yet available.

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.

YEARS OF POTENTIAL LIFE LOST (Mortality Figure 12, Table 5; 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:

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

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

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 http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf. The 2008 revision coincided with the January 2008 electronic filing requirement.

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

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 Department of Health and Mental Hygiene (DOHMH) for vital events occurring in or in-route to New York City, regardless of individual residency status, in a particular year. Births must be filed within five business days of the event. Birth data are generally collected using two worksheets: mother/parent and facility worksheets. Guides for the completion of the birth certificate and data entry can be found at http://www.nyc.gov/evers. Effective January 2008, BVS requires all hospitals registering more than 100 births per year to use the Electronic Vital Events Registration System (EVERS). In 2012, more than 99% of all births were registered electronically through the Electronic Vital Events Registration System (EVERS). 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

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 Maps: PO1, PO2, PO3, and PO4.

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, above.

GESTATIONAL AGE

Gestational age, or clinical estimate of gestation, is defined as the best obstetric estimate of the infant's gestation in completed weeks based on the birth attendant's final estimate of gestation. Characteristics of live births and/or infant deaths in the Appendix A, Tables PO4-PO7, PO11, PO12, and Figure PO4, respectively, include either gestational age categories or a dichotomous indicator of preterm (< 37 weeks gestation) birth. Beginning 2007, the range for valid gestational age was changed from 20-44 weeks to 17-47 weeks.

SPONTANEOUS AND INDUCED TERMINATIONS OF PREGNANCY REPORTING

SPONTANEOUS TERMINATION OF PREGNANCY CERTIFICATE (see copy 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)

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

The spontaneous and induced termination of pregnancy events reported are based on certificates filed with the New York City Department of Health and Mental Hygiene (DOHMH) for vital events occurring in or in-route to New York City, regardless of individual residency status, in a particular year. By law, all terminations of pregnancy are to be reported within 5 business days of the event, unless a permit to dispose of the conceptus is required ($\geq$24 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); 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. In 2011, 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

HISTORICAL TECHNICAL NOTES

POPULATION		
Technical Note Section	Description	Summary Year Affected
Citywide	Tables and figures with 2001-2010 data use intercensal population estimates determined by Census Bureau as of October 2012	2011
	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.	2010
	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.	2007-2009
	The 2005-2006 Annual Summaries used post 2000 census estimates for citywide, county (borough), 5-year age group, ethnic group and sex population counts. The Summary year population counts used pre-challenged census estimates; prior year population counts presented in the Summaries used post-challenged census estimates in addition to Census 2000 data.	2005-2006
	Population counts used US Census citywide decennial population counts.	2000–2004
	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 between 1990 and 2000
	Intercensal counts were estimated using a linear interpolation.	Intercensal years through 1989
	The population counts for years 1960, 1970, 1980, 1990 and 2000 were US Census counts.	1960, 1970, 1980, 1990, 2000
Community District	Community District population estimates for the years 2000-2010 use population estimates from Census 2000 and Census 2010 and the official Census intercensal estimates by county, age, race, and sex. To calculate individual year's Community District estimates beginning with July 1st, 2000, an interpolation by Community District, age, race, and sex was adjusted to the county, age, race, and sex numbers using an iterative proportional fitting procedure. Each year through 2009 was constructed from an interpolation based on the previous year and Census 2010. The July 1st, 2010 numbers were then extrapolated using July 1st, 2009 and Census 2010 and then adjusted to the July 1st intercensal numbers. These estimates differ from the 2000-2010 estimates used in the 2010 Summary because they are adjusted to official intercensal estimates consistent with Census 2010 released in October 2012.	2011

	Community district population estimates by sex and 18 age groups were derived by the New York City Department of City Planning. For community district data by race/ethnicity and 22 age groups for the same period, DOHMH Bureau of Epi Services constructed estimates from the Department of City Planning data and available Census 2000 and 2010 data, ensuring consistency with marginal totals from the Census Intercensal Estimates program. Postcensal estimates as well as the official 2010 modified race summary files were used. Because the 2010 modified race summary file was not available from the Census for single-year age by modified race groups, DOHMH used Census summary file 1 and adjusted the dataset to match the Census modified race summary file. To create the modified race groups, the "some other race" group was removed and race is imputed. While the modified race summary file created by the Census used information from other members of the same household, the DOHMH used race information from the corresponding Census tract. The race distribution was then modified to match the 2010 modified race summary file.	2010
	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 estimate 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.	2008-2009
Health Center District	Year 2000 census counts were used for defining smaller geographic units such as Community Districts or single-year age groups.	2005-2006
	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
Race/Ethnic Group	Health Center district data were presented in Summary Reports. Populations for geographic area smaller than borough were based on decennial census data.	Through 2007

	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.	2000-2001
DEMOGRAPHIC CHARACTERISTICS OF VITAL EVENTS		
Race, Ancestry and Ethnic Group	The death certificate allowed the selection of one race category	Through 2002
	The birth certificate allowed the selection of one race category.	Through 2007
	The meaning of ancestry was clarified with hospitals, resulting in a notable increase in Hebrew and Jewish ancestry and a decrease in American ancestry.	1999
	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.	1991-2006
Birthplace	Decedent's birthplace was first reported by country in 2000. US Virgin Islands and Guam were included in the "Other" category.	2000 - 2006
GEOGRAPHICAL UNITS		
Community District	Community districts were referred to by number through 2002 and by name after.	Prior to 2003
Place of Birth	Through 1995, all reports of home births included only events filed outside the hospital.	Through 1995
DEATHS		
Death Reporting	Medical certifier provided race and ancestry information.	Through 1992
Race/Ethnicity	The death certificate was revised in June 1993 to require funeral directors to provide ancestry information, presumably from decedents' family members.	1993 - present
	Medical certifier provided ancestry information.	Through 1992
Cause of Death Coding	ICD-coding was conducted manually by an NCHS certified nosologist.	Through 2006

Alcohol-related Deaths: ICD Coding	Following increasing deaths due to binge drinking, the ICD codes for alcohol-related deaths were reevaluated by the World Health Organization's Mortality Reference Group and coding was implemented in 2008. Core changes included recoding acute alcoholism, previously coded as F10.2, to X45 (alcohol poisoning) and retiring F100 and going forward coding such cases as X45. This resulted in an increase in alcohol liver disease and alcohol poisoning and a decrease in alcohol dependence syndrome. A subsequent decrease in alcohol liver disease between 2008 and 2009 is, in part, a result of further corrections to coding applied in 2009. Similar changes are seen in US data.	2008 - present
HIV and AIDS	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.	1987 to 1999
	AIDS was recognized as a cause of death and coded as ICD-9 code 279.1.	1983 to 1986
External Causes	External Causes were not shown separately.	Through 1999
Drug-related Deaths: ICD Coding	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, pg 73-75. NCHS coded data is often substituted when presenting external causes of death trends that span 2006 to 2007.	Through 2006
Maternal Deaths and Maternal Mortality	Currently labeled "Maternal deaths" were "Complications of pregnancy, childbirth and the puerperium" through 1998.	Through 1998
Accidents (Unintentional)	The site of accidents (home and public place) has been dropped due to unreliable reporting.	Through 1998
	Complications of medical care and surgical care were classified as accidents per ICD-9.	Through 1999

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 were estimated from the American Cancer Society's Cancer Prevention Study. The smoking-attributable fraction (SAF) for each smoking-related disease and sex is calculated using the following formula: $$SAF = [(p_0 + p_1(RR_1) + p_2(RR_2)) - 1] / [p_0 + p_1(RR_1) + p_2(RR_2)],$$ Where p_0 is the percentage of adult never-smokers in New York City; p_1 is the percentage of adult current smokers in New York City; p_2 is the percentage of adult former smokers in New York City; RR_1 is the relative risk of death for adult current smokers relative to adult never-smokers; and the RR_2 is the relative risk of death for adult former-smokers relative to adult never-smokers. To estimate the SAM, the age- and sex-specific SAFs are multiplied by the number of deaths for each smoking-related disease. Specifically, the number of deaths for each sex and 5-year age category was multiplied by the SAF: **SAM = 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 http://apps .nccd.cdc.gov/sammec.	Through 2010
World Trade Center Deaths	See Technical Notes, 2009 regarding late effect WTC-deaths.	2008-present
	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.	2007, 2008
	In 2002, the number of WTC deaths included in 2001 deaths was updated from 2,740 to 2,749. This new number included six additional death certificates filed through October 31, 2003 and three deaths that occurred outside of New York City (See 2002 Special Section for details).	2002
Fatal Occupational Injuries	The industry in which the decedent worked and was injured was coded based on the Standard Industrial Classification (SIC).	Through 2002
World Trade Center Deaths and Life Expectancy	Impact of World Trade Center deaths on life expectancy.	2002 (Special Section)

BIRTHS		
Age-specific Birth Rates	Until, 2011, youngest and oldest 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 in 2011.	Through 2010
Age-specific Birth Rates	Until 2011, the oldest age-specific birth rate presented was 40 to 44. See current technical notes for change in 2011	Through 2010
Trimester of First Prenatal Care Visit (Late or no Prenatal care).	Following the 2008 transition to EVERS, the magnitude of births registered without information used to calculate Trimester of First Prenatal Care Visit was so great that the data were suppressed. By 2010 reporting improved such that data could be released and included in the Summary.	2008-2009
Ancestry, Other	Following the 2008 transition to EVERS, the number of births registered with an "other" or unknown ancestry increased.	2008-2010
Mother's Marital Status	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.	Through 1996
2008 Revised NYC Birth Certificate	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://www.nyc.gov/html/doh/downloads/pdf/vs/2008sum.pdf.	2008
INDUCED AND SPONTANEOUS TERMINATION OF PREGNANCY		
Reporting	Induced and spontaneous terminations of pregnancies registered after the annual file closed were added to the following year's data.	Through 2007

VR-6S
(Rev. 12/09)

DATE FILED

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

CERTIFICATE OF BIRTH

CERTIFICATE NO.

Cert. No.

Place:

Died: Date:

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

Please complete the following:
Has parent approved assignment of SSN for child? YES ☐ NO ☐

Father/Parent's SSN:

Mother/Parent's SSN:

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

2. SEX

3a. NUMBER DELIVERED of this pregnancy

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

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

4b. TIME ☐ AM ☐ PM

5. PLACE OF BIRTH

5a. NEW YORK CITY BOROUGH

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

5c. TYPE OF PLACE ☐ Hospital ☐ Freestanding Birthing Center ☐ Clinic/Doctor's Office ☐ Home Delivery: Planned to deliver at home? ☐ Yes ☐ No ☐ Unknown

☐ Other-specify: _____

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

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

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

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

7c. City or town

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

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

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

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

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

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

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

Signed _____

Name of Signer _____ *(Type or Print)*

Address _____

Date Signed _____, Year - yyyy _____

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

Address _____ Apt. _____

City _____ State _____ ZIP _____

VOID

VR-6S
(Rev. 12/09)

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)

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

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

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

10. PARENT'S RACE

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

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

☐ .....White ..... ☐
☐ .....Black or African American ..... ☐
☐ .....American Indian or Alaska Native ..... ☐

Name of enrolled or principal tribe

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

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

Specify

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

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

Specify

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

☐ .....Other..... ☐

Specify

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

11. PARENT'S ANCESTRY

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

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

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

Specify

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

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

Specify

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

12. PARENT'S LENGTH OF TIME IN US

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

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

13. PARENT'S EDUCATION

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

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

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

14. PARENT'S OCCUPATION

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

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

15. PRENATAL HISTORY

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

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

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

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

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

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

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

16. PRENATAL CARE

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

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

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

d. Primary Prenatal Care Provider Type
(Check **one**)
☐ MD/DO ☐ No Provider
☐ C(N)M/NP/PA/Other Midwife ☐ No Information
☐ Clinic ☐ Other

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

f. Infections Present and/or Treated During Pregnancy
(Check **all** that apply)
☐ Gonorrhea ☐ Hepatitis C
☐ Syphilis ☐ Tuberculosis
☐ Herpes Simplex (HSV) ☐ Rubella
☐ Chlamydia ☐ Bacterial Vaginosis
☐ Hepatitis B ☐ None of the above

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

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

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

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

i. Illicit and other Drugs Used During This Pregnancy?
☐ Yes ☐ No
If yes, check **all** that apply
☐ Heroin ☐ Marijuana
☐ Cocaine ☐ Sedatives
☐ Methadone ☐ Tranquilizers
☐ Methamphetamine ☐ Anticonvulsants

j. Mother/Parent Pre-Pregnancy Weight _____ pounds

k. Mother/Parent Height _____ feet _____ inches

l. Obstetric Procedures
(Check **all** that apply)
☐ Cervical cerclage ☐ Fetal genetic testing
☐ Tocolysis ☐ None of the above
☐ External cephalic version:
  ☐ Successful
  ☐ Failed

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

17. FINANCIAL COVERAGE

a. Primary Payor
(Check **one**)
☐ Medicaid/Family Health Plus ☐ Other
☐ Private Insurance ☐ Self-pay
☐ Other govt/CHPlusB ☐ Unknown
☐ CHAMPUS/TRICARE

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

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

18. MATERNAL MORBIDITY

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

VR-6S
(Rev. 12/09)

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

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (2 of 2)

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

NAME OF CHILD _____ CERTIFICATE NO. _____

19. LABOR AND DELIVERY

a. If birth occured in hospital, was mother/parent transferred in before giving birth?
If yes, name of facility transferred from
☐ Yes _____
☐ No

b. Mother/Parent Weight at Delivery
_____ pounds

c. Onset of Labor
(Check **all** that apply)
☐ Prolonged rupture of membranes (12 hours or more)
☐ Prolonged labor (20 hours or more)
☐ Premature rupture of membranes (prior to labor)
☐ None of the above
☐ Precipitous labor (less than 3 hours)

d. Characteristics of Labor & Delivery
(Check **all** that apply)
☐ Induction of Labor-AROM
☐ Induction of Labor-Medicinal
☐ Augmentation of Labor
☐ Placenta previa
☐ Other excessive bleeding
☐ Steroids
☐ Antibiotics
☐ Chorioamnionitis
☐ Febrile (>100.4F or 38C)
☐ Meconium staining
☐ Fetal intolerance
☐ External electronic fetal monitor
☐ Internal electronic fetal monitor
☐ None of the above

e. 1. Anesthesia
(Check **all** that apply)
☐ Epidural
☐ General inhalation
☐ General intravenous
☐ Spinal
☐ Paracervical
☐ Pudendal
☐ Local
☐ None of the above

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

Method of Delivery

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

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

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

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

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

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

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

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

h. Other Procedures Performed at Delivery (Check **all** that apply)
☐ Episiotomy & repair
☐ Sterilization
☐ Repair of lacerations
☐ None of the above

20. INFANT

a. Birthweight
_____ Pounds _____ Ounces **or** _____ Grams

b. If birth weight < 1250 grams (2 lbs. 12 oz.), reason(s) for delivery at a less than level III hospital: *(Only if applicable)*
☐ None ☐ Unknown at this time
(Select **all** that apply)
☐ Rapid/Advanced Labor
☐ Bleeding
☐ Fetus at Risk
☐ Severe pre-eclampsia
☐ Woman Refused Transfer
☐ Other-*specify* _____

c. Apgar Score at
1. 1 minute _____ **2.** 5 minutes _____ **3.** 10 minutes _____

d. Clinical Estimate of Gestation
Completed Weeks: _____

e. Infant Transferred
☐ Within 24 hours of Delivery ☐ After 24 hours ☐ Not Transferred

f. If transferred, name of facility transferred to:
_____

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

h. Hepatitis B Inoculation
1. Immunization administered?
☐ Yes Date: (mm/dd/yyyy) _____/_____/_____
☐ No
2. Immunoglobulin administered?
☐ Yes Date: (mm/dd/yyyy) _____/_____/_____
☐ No

i. Is infant living at time of report?
☐ Yes ☐ No

j. How is infant being fed? (Check **one**)
☐ Breast milk ☐ Both
☐ Formula ☐ Neither

Congenital Anomalies

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

13. None of those listed above ☐

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

CERTIFICATE OF DEATH

Certificate No.

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

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

Place Of Death

2a. New York City
2b. Borough

2c. Type of Place
1 ❑ Hospital Inpatient
2 ❑ Emergency Dept./Outpatient
3 ❑ Dead on Arrival
4 ❑ Nursing Home/Long Term Care Facility
5 ❑ Hospice Facility
6 ❑ Decedent's Residence
7 ❑ Other Specify _____

2d. Any Hospice care in last 30 days
1 ❑ Yes
2 ❑ No
3 ❑ Unknown

2e. Name of hospital or other facility (if not facility, street address)

Date and Time of Death

3a. (Month) (Day) (Year-yyyy)

3b. Time ❑ AM ❑ PM

4. Sex

5. Date last attended by a Physician (mm dd yyyy)

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

Name of Physician _____ (Type or Print)

Signature _____ D.O. M.D.

Address _____

License No. _____ Date _____

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

7a. Usual Residence State

7b. County

7c. City or Town

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

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

8. Date of Birth (Month) (Day) (Year-yyyy)

9. Age at last birthday (years) 1

Under 1 Year: Months 2 Days 3

Under 1 Day: Hours 4 Minutes 5

10. Social Security No.

11a. Usual Occupation (Type of work done during most of working life. Do not use "retired")

11b. Kind of business or industry

12. Aliases or AKAs

13. Birthplace (City & State or Foreign Country)

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

15. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No

16. Marital/Partnership Status at time of death
1 ❑ Married
2 ❑ Domestic Partnership
3 ❑ Divorced
4 ❑ Married, but separated
5 ❑ Never Married
6 ❑ Widowed
7 ❑ Other, Specify _____
8 ❑ Unknown

17. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)

18. Father's Name (First, Middle, Last)

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

20a. Informant's Name

20b. Relationship to Decedent

20c. Address (Street and Number Apt. No. City & State ZIP Code)

21a. Method of Disposition
1 ❑ Burial
2 ❑ Cremation
3 ❑ Entombment
4 ❑ City Cemetery
5 ❑ Other Specify _____

21b. Place of Disposition (Name of cemetery, crematory, other place)

21c. Location of Disposition (City & State or Foreign Country)

21d. Date of Disposition mm dd yyyy

22a. Funeral Establishment

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

VR 15 (Rev. 01/09)

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

CONFIDENTIAL MEDICAL REPORT

VR 15 (Rev. 01/09)

Certificate No.

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

23. Ancestry (Check one box and specify)

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

Specify _____

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

Specify _____

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

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

DECEDENT'S LEGAL NAME (Type or Print)

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

IMMEDIATE CAUSE → FINAL disease or condition resulting in death.

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

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

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

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

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

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

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

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

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

27c. Date of Outcome: mm dd yyyy

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

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

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

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

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

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

CERTIFICATE OF DEATH

Certificate No.

❑ New
❑ Corr/Amend
❑ Replacement

DOHMH USE ONLY

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

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

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

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

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

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

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

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

7f. How Injury Occurred

7g. If Transportation Injury Specify ❑ Driver/Operator ❑ Pedestrian ❑ Passenger ❑ Other Specify _____

8. Manner of Death ❑ Pending further study ❑ Natural ❑ Homicide ❑ Accident ❑ Suicide ❑ Undetermined

9. Autopsy ❑ Yes ❑ No Autopsy Pursuant to Law ❑ No Autopsy

10. On the basis of examination and/or investigation, in my opinion, death occurred due to the causes and manner as stated:
Certifier Signature _____ D.O. M.D. Date _____
Certifier Name (Print) _____
(Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

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

11a. Usual Residence State | 11b. County | 11c. City or Town | 11d. Street and Number Apt. No. ZIP Code | 11e. Inside City Limits? 1 ❑ Yes 2 ❑ No

12. Date of Birth (Month) (Day) (Year-yyyy) | 13. Age at last birthday (years) 1 | Under 1 Year: Months 2, Days 3 | Under 1 Day: Hours 4, Minutes 5 | 14. Social Security No.

15a. Usual Occupation (Type of work done during most of working life. Do not use "retired") | 15b. Kind of business or industry | 16. Aliases or AKAs

17. Birthplace (City & State or Foreign Country)

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

19. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No

20. Marital/Partnership Status at time of death
1 ❑ Married 2 ❑ Domestic Partnership 3 ❑ Divorced 4 ❑ Married, but separated 5 ❑ Never Married 6 ❑ Widowed 7 ❑ Other, Specify _____ 8 ❑ Unknown

21. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)

22. Father's Name (First, Middle, Last)

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

24a. Informant's Name | 24b. Relationship to Decedent | 24c. Address (Street and Number Apt. No. City & State ZIP Code)

25a. Method of Disposition
1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery
5 ❑ Other Specify _____

25b. Place of Disposition (Name of cemetery, crematory, other place)

25c. Location of Disposition (City & State or Foreign Country) | 25d. Date of Disposition mm dd yyyy

26a. Funeral Establishment | 26b. Address (Street and Number City & State ZIP Code)

VR 16 (Rev. 01/09)

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

MEDICAL EXAMINER'S SUPPLEMENTARY REPORT

VR 16 (Rev. 01/09)

Certificate No.

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

27. Ancestry (Check one box and specify)

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

Specify _____

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

Specify _____

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

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

DECEDENT'S LEGAL NAME (Type or Print)

29a. If Female

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

29b. If pregnant within one year of death, outcome of pregnancy

1 ❑ Live Birth
2 ❑ Spontaneous Termination / Ectopic Pregnancy
3 ❑ Induced Termination
4 ❑ None

29c. Date of Outcome

mm	dd	yyyy

30. Did tobacco use contribute to death?

1 ❑ Yes 2 ❑ No 3 ❑ Probably 4 ❑ Unknown

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

Cleared For Cremation If Family Requests

_____
M.E. Signature

I certify that I personally examined the body on

_____ (Date) at _____ (Location)

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

or

I did not personally examine the body after death.

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

DATE FILED

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

CERTIFICATE OF SPONTANEOUS TERMINATION OF PREGNANCY

VR-17
(REV. 01/10)

CERTIFICATE NO.

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

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

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

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

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

FETUS

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

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

2b. TIME _____ ☐ AM ☐ PM ☐ Unknown

3. SEX ☐ Male ☐ Unknown ☐ Female

4. OBSTETRIC ESTIMATE OF GESTATION _____ # of weeks

5a. NUMBER DELIVERED THIS PREGNANCY _____

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

FETUS Place of Delivery

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

6b. FACILITY NAME/ADDRESS

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

MOTHER/PARENT

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

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

12. BIRTHPLACE City State Country

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

10. AGE

11. SEX ☐ Male ☐ Female

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

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

FATHER/PARENT

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

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

19. BIRTHPLACE City State Country

17. AGE

18. SEX ☐ Male ☐ Female

ATTENDANT/CERTIFIER

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

21. CERTIFIER: I HEREBY CERTIFY THAT THIS EVENT OCCURRED AT THE TIME AND ON THE DATE INDICATED AND THAT ALL FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF. ☐ MD ☐ DO

Signature of Physician Certifier

Name of Physician Certifier

Address

License No. ____/____/____ *Date*

FUNERAL DIRECTOR'S CERTIFICATE

FUNERAL DIRECTOR'S CERTIFICATE

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

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

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

Funeral Establishment _____ Business Registration No. _____

Address _____

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

VR-17
(REV. 01/10)

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

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

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

Mother/Parent Medical Record No. _____ CERTIFICATE NO.

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

23. PARENT'S EDUCATION

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

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

24. PARENT'S OCCUPATION

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

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

25. PARENT'S ANCESTRY

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

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

26. PARENT'S RACE

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

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

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

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

28. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH

a. Initiating Cause/Condition

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

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

b. Other Significant Causes or Conditions

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

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

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

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

29. PRENATAL

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

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

b. Total Number of Prenatal Visits for this Pregnancy

☐ None _____

c. Date of First Prenatal Care Visit

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

d. Date of Last Prenatal Care Visit

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

e. Previous Live Births

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

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

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

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

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

30. MOTHER/PARENT HEALTH

a. Height _____ feet _____ inches

b. Pre-Pregnancy Weight _____ pounds

c. Weight Immediately Prior to Event _____ pounds

d. Cigarette Smoking

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

If yes, average number of cigarettes or packs/day (enter 0 if None)

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

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

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

If yes, check **all** that apply

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

31. PREGNANCY FACTORS

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

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

VR-17
(REV. 01/10)

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

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

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

Mother/Parent Medical Record No. _____ CERTIFICATE NO.

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

31. PREGNANCY FACTORS (cont.)

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

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

32. DELIVERY

a. Method of Delivery

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

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

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

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

5. Hysterotomy/Hysterectomy
☐ Yes ☐ No ☐ Unknown

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

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

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

If yes, name of facility transferred from:

_____

33. FETAL ATTRIBUTES

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

_____ ☐ lb/oz _____ ☐ grams

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

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

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

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

f. Congenital Anomalies of the Fetus
(Check **all** that apply)

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

DATE FILED
(For Health Dept. Use Only)

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

CERTIFICATE OF INDUCED TERMINATION OF PREGNANCY

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

CERTIFICATE NO.
(For Health Dept. Use Only)

FACILITY

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

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

3A. FACILITY NAME

3B. FACILITY ADDRESS
Street Number and Name Apt. #, Suite #, etc.
City or Town County State Country ZIP Code

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

PATIENT

INST. B R

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

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

7. PATIENT'S BIRTHPLACE
City or Town State Country

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

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

PATIENT ATTRIBUTES

A E

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

11. ANCESTRY (CHECK ONE BOX AND SPECIFY)
☐ Hispanic *(Mexican, Puerto Rican, Cuban, Dominican, etc.)*
Specify _____
☐ NOT Hispanic *(Italian, African American, Haitian, Pakistani, Ukranian, Nigerian, Taiwanese, etc.)*
Specify _____
☐ Unknown

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

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

MEDICAL

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

15. OBSTETRIC ESTIMATE OF GESTATION
_____ completed weeks

16. PREVIOUS PREGNANCIES
a. Total Number of Previous Live Births _____ ☐ None
b. Born Alive Now Living _____ ☐ None
c. Born Alive Now Dead _____ ☐ None
d. Total Number Other Pregnancy Outcomes _____ ☐ None
(Spontaneous or Induced losses or ectopic pregnancies)
Do not include this termination.

17. TERMINATION PROCEDURE

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

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

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

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

ATTENDANT/CERTIFIER

20. CERTIFIER: I HEREBY CERTIFY THAT THIS EVENT OCCURRED AT THE TIME AND ON THE DATE INDICATED AND THAT ALL FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.
☐ MD ☐ DO
Signature of Physician Certifier
Name of Physician Certifier
Address
License No. _____/_____/_____ *Date*

VR-18
(REV. 01/12)