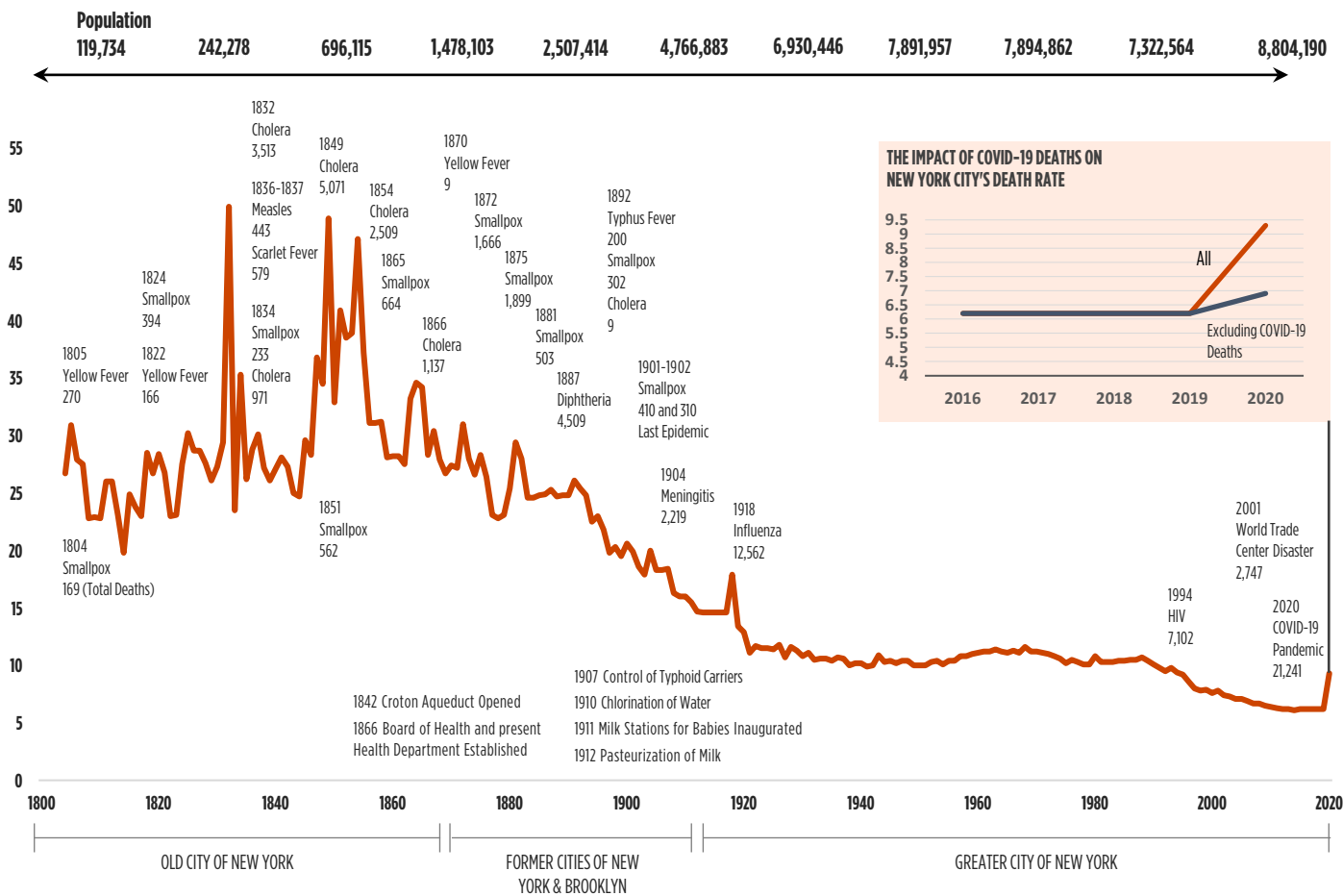


Summary of Vital Statistics 2020

The Conquest of Pestilence in New York City

...As Shown by the Death Rate as Recorded in the Official Records of the Department of Health and Mental Hygiene

Deaths per 1,000 Population



IMPORTANT NOTES REGARDING COVID-19 MORTALITY REPORTING IN THE SUMMARY OF VITAL STATISTICS, 2020

Deaths—How NYC ascertained deaths during the COVID-19 pandemic: Comparison of two COVID-19 definitions

COVID-19 deaths reported on the DOHMH website	Confirmed* COVID-19 deaths in 2020	19,224
	Probable† COVID-19 deaths in 2020	5,405
	Other deaths	57,514
	Total deaths	82,143
COVID-19 deaths reported in this Summary	Deaths identified using ICD-10 guidelines‡	21,241
	Other deaths	60,902
	Total deaths	82,143

*Decedents who were PCR positive for COVID-19, had COVID-19 on the death certificate, or died within 60 days of their lab result, regardless of what was on the death certificate, excluding external causes of death.

†Decedents without a positive test for COVID-19 but with COVID-19 on the death certificate.

‡The underlying cause of death is U07.1, which is defined by the World Health Organization (WHO) as COVID-19.

Note: Number of deaths is as of the date when this report was produced.

See Special Section on COVID-19 Mortality on pages 54-66.

SUMMARY OF VITAL STATISTICS 2020

The City of New York

New York City Department of Health and Mental Hygiene
Division of Epidemiology
Gretchen Van Wye, PhD, MA, Acting Deputy Commissioner

Bureau of Vital Statistics
David Mitcham, Director, Office of Vital Records Documentation
Jessica Borrelli, MPH, Director, Office of Integrated Electronic Records
Milton Mino, Director, Office of Vital Records Services
Wenhui Li, PhD, Director, Statistical Analysis and Reporting Unit
Muriel Silin, MPH, Director, Quality Improvement Unit

Eric Adams, Mayor

Ashwin Vasani, MD, PhD, Commissioner

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Special Section: Drug-Related Deaths.....	50-53
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This report was prepared by the Office of Vital Statistics, New York City Department of Health and Mental Hygiene, under the direction of Wenhui Li, PhD.
Suggested citation: Li W, Onyebeke C, Castro A, Gurung S, Maduro G, Sun Y and Van Wye G. *Summary of Vital Statistics, 2020*. New York, NY: Bureau of Vital Statistics, New York City Department of Health and Mental Hygiene.

This publication is available online at <https://www1.nyc.gov/assets/doh/downloads/pdf/vs/2020sum.pdf>.

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

Dear Fellow New Yorker:

The New York City Department of Health and Mental Hygiene's *Annual Summary of Vital Statistics* highlights trends in births and deaths that occur in New York City. Our 2020 report covers the start of the COVID-19 pandemic. The special section on COVID-19 mortality was added to highlight COVID-19 data by various demographic and geographic categories. These 2020 data and trends are important depictions of the state of health in New York City during the COVID-19 pandemic.

Highlights from our 2020 report, which begins on the next page, include:

- Citywide, life expectancy at birth was 78.0 years, decreasing by 4.6 years since 2019. The sharp decline in life expectancy from 2019 was largely due to the COVID-19 pandemic.
- The COVID-19 pandemic resulted in a mortality rate of 241.3 deaths per 100,000 population in 2020, its impact exceeding the 1918 influenza pandemic in New York City, which had a mortality rate of 228.9 deaths per 100,000 population.
- The pandemic also exacerbated existing inequities- Non-Hispanic/Latino Black New Yorkers had the lowest life expectancy among racial/ethnic groups at 73.0 years, while non-Hispanic/Latino White New Yorkers had the highest at 80.1 years.
- From 2011 to 2019, the citywide age-adjusted mortality rate decreased by 15.6%. From 2019 to 2020, the citywide age-adjusted mortality rate increased from 512.7 per 100,000 population to 787.4 per 100,000 population. This significant increase in rate was largely due to the COVID-19 pandemic.
- New York City's age-adjusted premature death rate (age <65 years) decreased by 8.6% from 2011 to 2019. Between 2019 and 2020, the age-adjusted premature death rate sharply increased by 48.8%, from 180.2 per 100,000 population to 268.2 per 100,000 population. This increase was largely due to the COVID-19 pandemic.
- The crude unintentional drug overdose rate continued to rise, with a 42.2% increase from 2019. The 2020 drug-related death rate was highest among non-Hispanic/Latino Black New Yorkers. The drug-related death rate for 55-64 year-olds was higher than all other age groups.
- The infant mortality rate was 3.9 infant deaths per 1,000 live births in 2020, a 7.1% decrease from 2019, and the rate for non-Hispanic/Latino Black New Yorkers was 3.1 times the rate for non-Hispanic/Latino Whites. The rate may vary from year to year due to small numbers.
- New York City's birth rate declined by 8.8% from 2019, making it a historic low. This relatively large decrease from 2019 to 2020 was accelerated by the COVID-19 pandemic.

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

Sincerely,

Ashwin Vashan, MD, PhD
Commissioner

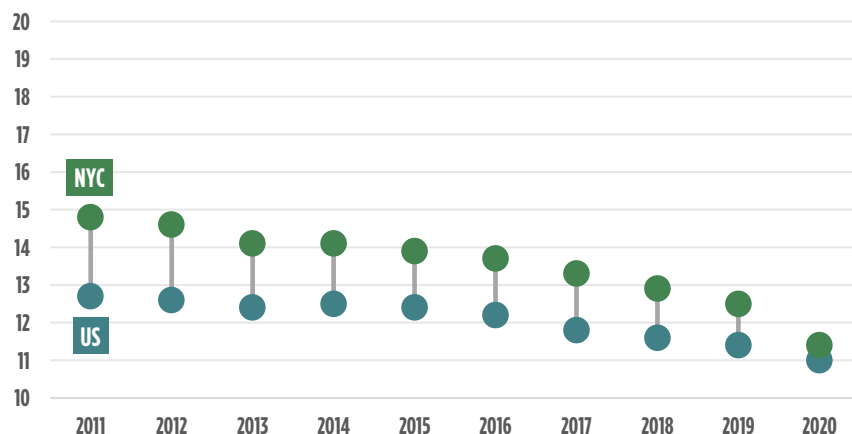
SUMMARY OF VITAL STATISTICS

EXECUTIVE SUMMARY, 2020

- In 2020, birth rates decreased from 2019 among all racial/ethnic groups, partially due to the COVID-19 pandemic. The birth rate was highest among non-Hispanic/Latino Whites at 12.6 births per 1,000 population, followed by 11.9 among Asians and Pacific Islanders, 11.2 among Hispanics/Latinos, and 9.6 among non-Hispanic/Latino Blacks.
- In 2020, the community district with the highest crude birth rate was Borough Park with 22.4 births per 1,000 population; the community district with the lowest crude birth rate was Bayside with 3.7 births per 1,000 population.

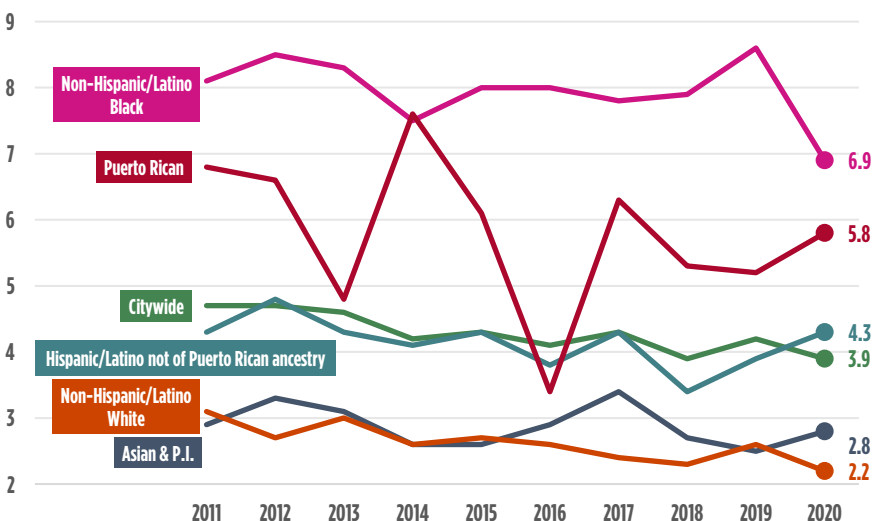
Pregnancy Outcomes

The 2020 **citywide** crude birth rate was 11.4 births per 1,000 population, a decrease of 8.8% from 2019. **New York City's** birth rate has experienced a modest decrease in the years before 2020, as has the **United States' birth rate**.



Infant Mortality

Infant mortality rates increased from 2019 to 2020 among **Puerto Ricans**, **Hispanics/Latinos not of Puerto Rican ancestry**, and **Asians and Pacific Islanders** by 11.5%, 10.3%, and 12.0%, respectively, while the rates decreased for **non-Hispanic/Latino Whites** and **non-Hispanic/Latino Blacks** by 15.4% and 19.8%, respectively.



- In 2020, New York City had an infant mortality rate of 3.9 infant deaths per 1,000 live births. This represents a decrease of 7.1% from 2019 (4.2 infant deaths per 1,000 live births). Due to the small number of infant deaths, the rate may fluctuate from year to year.
- The infant mortality rate has declined by 17.0% since 2011.
- The infant mortality rate disparity between non-Hispanic/Latino Blacks and non-Hispanic/Latino Whites decreased slightly from 3.3 in 2019 to 3.1 in 2020. The disparity in infant mortality rates between Puerto Ricans and non-Hispanic/Latino Whites increased from 2.0 in 2019 to 2.6 in 2020. These changes may be due to the small number of infant deaths from year to year.

SUMMARY OF VITAL STATISTICS

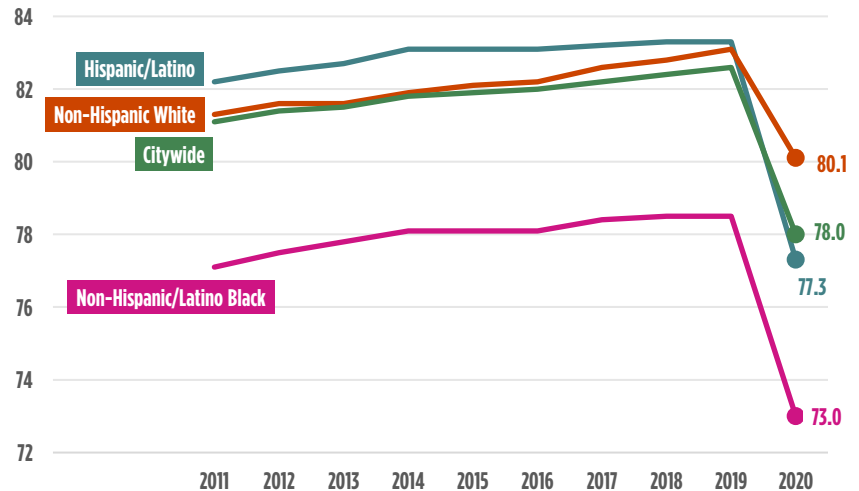
EXECUTIVE SUMMARY, 2020

- New York City’s life expectancy at birth in 2020 was 78.0 years, decreasing by 4.6 years since 2019. The sharp decrease of life expectancy from 2019 to 2020 was mainly caused by the COVID-19 pandemic.
- From 2019 to 2020, life expectancy decreased by 5.5 years among non-Hispanic/Latino Blacks, 6.0 years among Hispanics/Latinos, and 3.0 years among non-Hispanic/Latino Whites.
- The life expectancy estimate for Asians and Pacific Islanders is not displayed due to small single-year age population denominators.

- The citywide age-adjusted death rate increased since 2019, from 512.7 per 100,000 population in 2019, to 787.4 in 2020 (a 53.6% increase). The sharp increase in death rate from 2019 to 2020 was mainly caused by the COVID-19 pandemic.
- From 2019 to 2020, the age-adjusted death rate increased among Hispanics/Latinos by 73.5%, among non-Hispanic/Latino Blacks by 60.6%, among non-Hispanic/Latino Whites by 32.7%, and among Asians and Pacific Islanders by 63.5%.

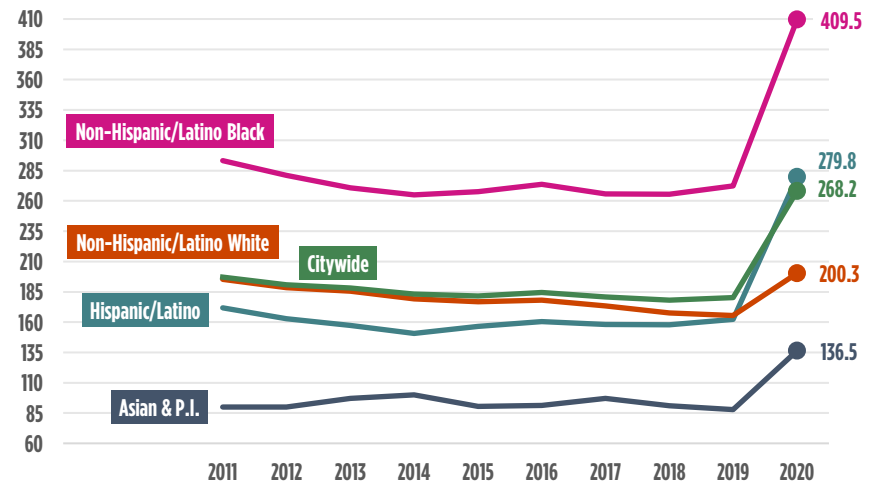
Life Expectancy at Birth

The New York City 2020 life expectancy at birth was 77.3 years among **Hispanics/Latinos**, 80.1 years among **non-Hispanic/Latino Whites**, and 73.0 years among **non-Hispanic/Latino Blacks**. The COVID-19 deaths contributed to the sharp decrease in life expectancies in 2020.



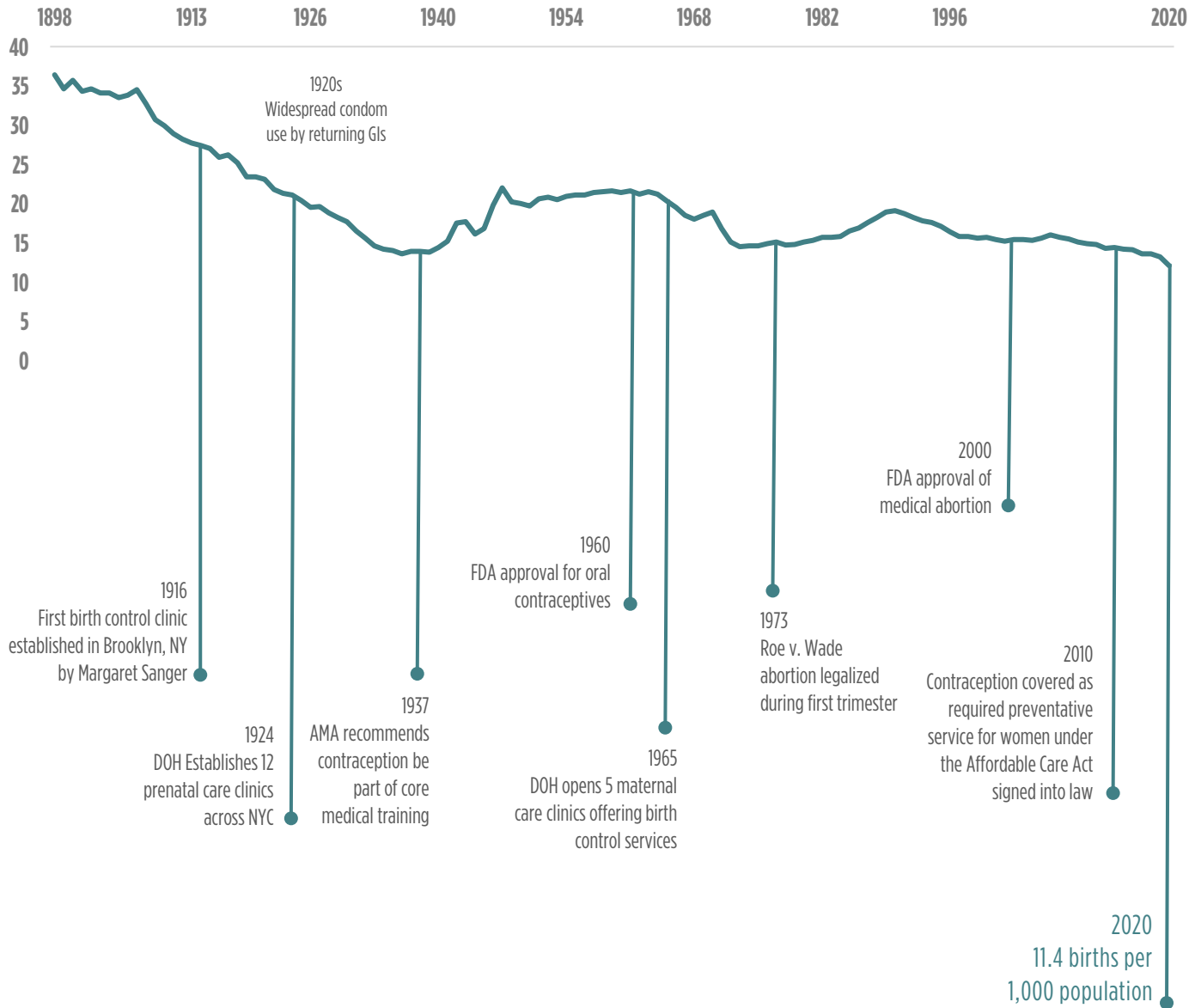
Mortality

From 2019 to 2020, the age-adjusted premature mortality rate increased among **Hispanics/Latinos** by 72.5%, among **non-Hispanic/Latino Blacks** by 50.3%, among **non-Hispanic/Latino Whites** by 21.1%, and among **Asians and Pacific Islanders** by 55.5%.



PREGNANCY OUTCOMES

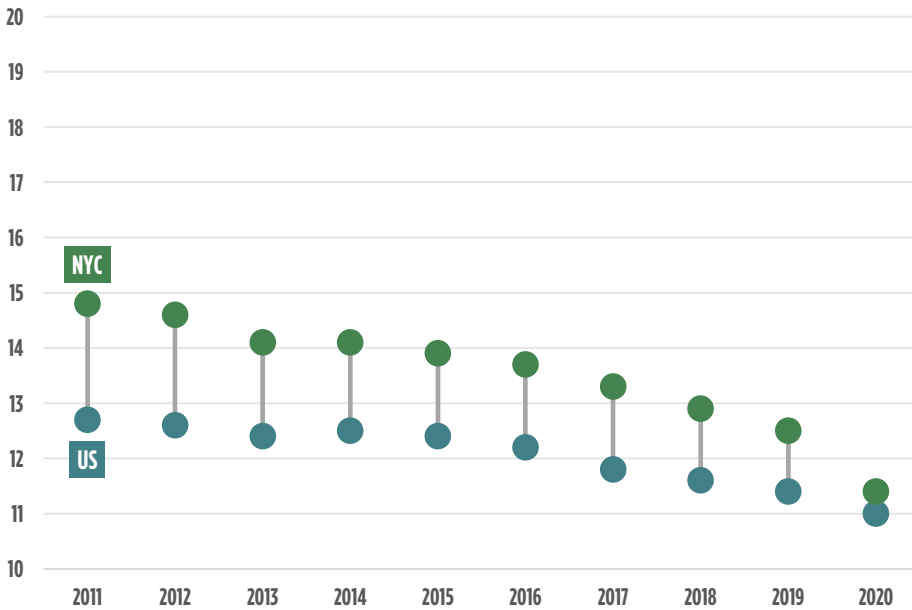
Birth Rate Per 1,000 Population Over Time



PREGNANCY OUTCOMES

Figure 1. Birth Rates, New York City and the United States, 2011–2020

The 2020 citywide crude birth rate was 11.4 births per 1,000 population. New York City's birth rate has experienced a modest decrease in the past ten years, as has the United States' birth rate.



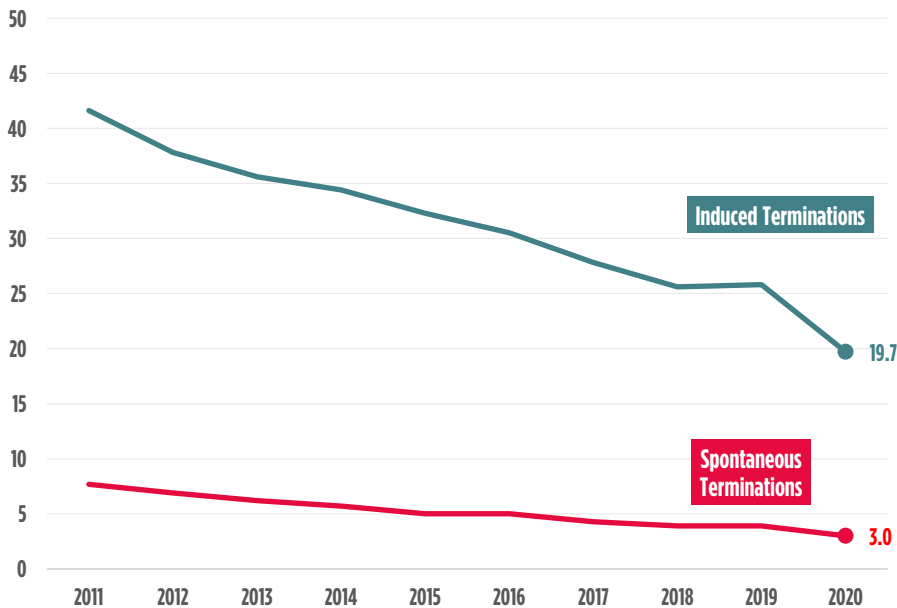
The 2020 citywide crude birth rate decreased by 8.8% from 2019, making it a historic low. It decreased by 23.0% since 2011.

In 2020, live births decreased by 9.4% from 2019, a sixth consecutive year decline. The relatively large decrease from 2019 to 2020 was partially due to the COVID-19 pandemic. The population also decreased slightly from 2019 to 2020, by 0.6%.

New York City's 2020 crude birth rate was slightly higher than the United States rate (11.4 vs. 11.0 nationwide), consistent with previous years.

Figure 2. Spontaneous and Induced Termination of Pregnancy Rates, New York City, 2011–2020

The 2020 citywide crude spontaneous termination of pregnancy (miscarriages and stillbirths) rate was 3.0 terminations per 1,000 females aged 15 to 44 years.



The spontaneous termination of pregnancy rate has decreased since 2019 and has been between 3.0 and 7.7 terminations per 1,000 females aged 15 to 44 years since 2011.

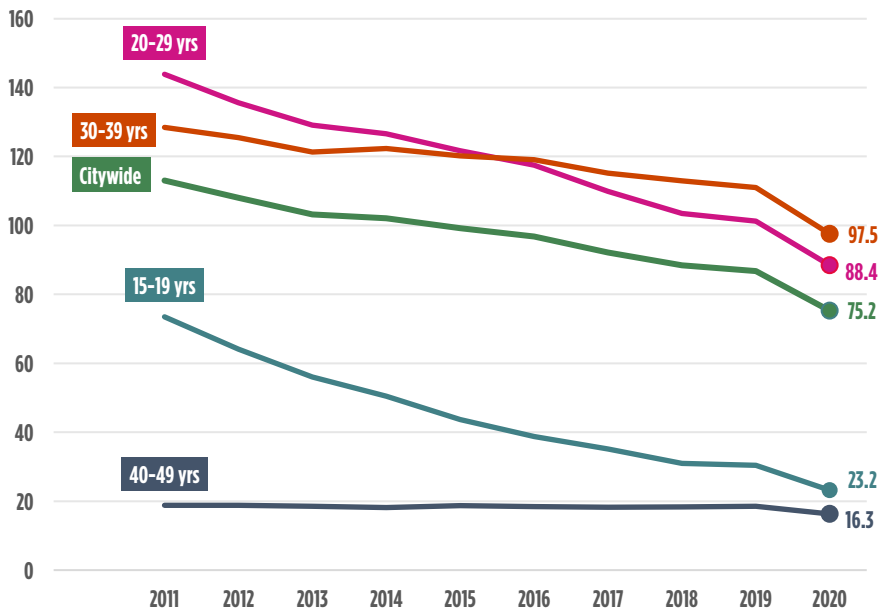
Changes in rates of spontaneous terminations of pregnancy may be due to variations in the reporting of these events by facilities rather than true changes in such events. For example, some facilities may fail to report very early gestational age spontaneous terminations. DOHMH continues to conduct outreach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

The 2020 citywide crude rate of induced terminations of pregnancy was 19.7 terminations per 1,000 females aged 15 to 44 years, decreasing by 23.6% since 2019. Since 2011, the rate has decreased by 52.6%, from 41.6 to 19.7 terminations per 1,000 females aged 15 to 44 years.

PREGNANCY OUTCOMES

Figure 3. Pregnancy Rates* by Woman's Age Group, New York City, 2011-2020

In 2020, women aged 30 to 39 years of age had the highest rate of pregnancy (live births, induced terminations, and spontaneous terminations) at 97.5 pregnancies per 1,000 females aged 30 to 39 years.



*See Technical Notes for the definition of pregnancy rate.

The second highest rate of pregnancy was for women aged 20 to 29 at 88.4, then women 15 to 19 years old and 40 to 49 years old, with pregnancy rates of 23.2 and 16.3, respectively.

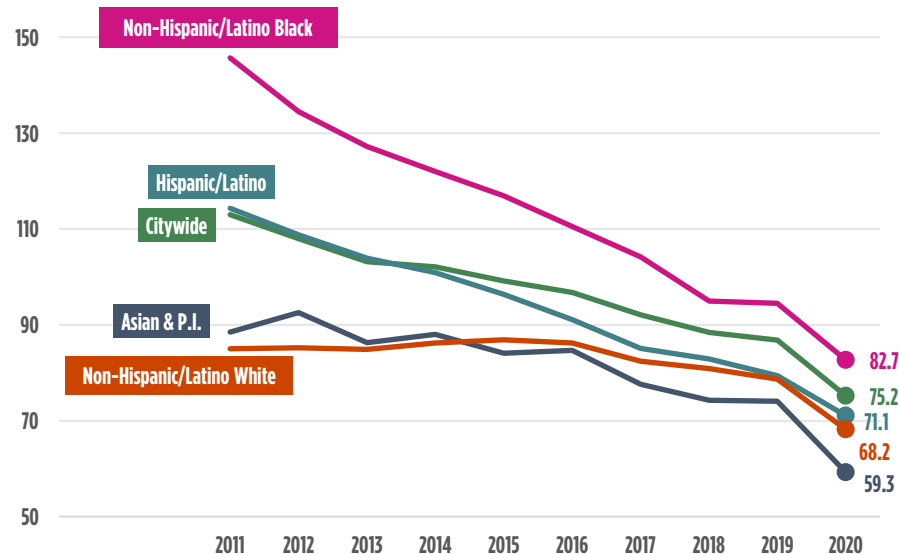
Since 2011, pregnancy rates have decreased 13.3% among women aged 40-49 years old.

Since 2011, pregnancy rates have decreased by 38.6% among women aged 20-29 years old, and by 24.1% among women aged 30-39 years old.

The teen pregnancy rate (15-19 years of age) decreased by 68.4% since 2011, and 23.7% since 2019.

Figure 4. Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2011-2020

Since 2011, the citywide pregnancy rate has declined by 33.5%, from 113.0 pregnancies per 1,000 females aged 15-44 to 75.2.



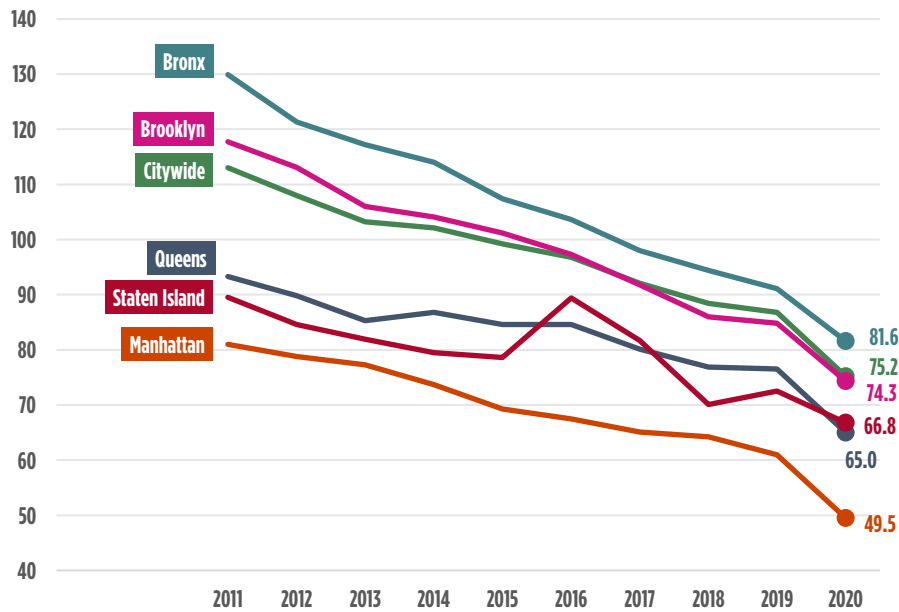
In 2020, the pregnancy rate was highest among non-Hispanic/Latino Blacks at 82.7 pregnancies per 1,000 females aged 15-44, followed by 71.1 among Hispanics/Latinos, 68.2 among non-Hispanic/Latino Whites, and 59.3 among Asians and Pacific Islanders.

From 2011 to 2020, the pregnancy rate decreased among all groups. Over the ten-year period, non-Hispanic/Latino Blacks experienced a 43.2% decline; Hispanics/Latinos, a 37.8% decline; Asians and Pacific Islanders, a 33.0% decline, and non-Hispanic/Latino Whites, a 19.8% decline.

PREGNANCY OUTCOMES

Figure 5. Pregnancy Rates by Woman's Borough of Residence, New York City, 2011-2020

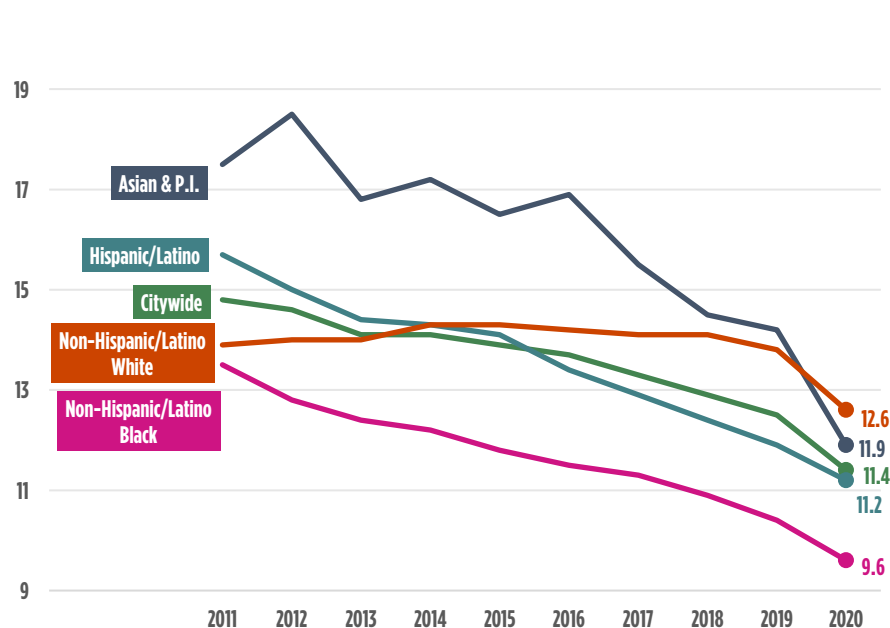
In 2020, the pregnancy rate in the Bronx continued to be the highest, at 81.6 pregnancies per 1,000 females aged 15-44, followed by Brooklyn at 74.3, Staten Island at 66.8, Queens at 65.0 and Manhattan at 49.5.



Since 2011, pregnancy rates have declined in all boroughs. Rates have decreased by 37.2% in the Bronx, by 36.9% in Brooklyn, by 38.9% in Manhattan, by 30.3% in Queens, and by 25.4% in Staten Island.

Figure 6. Birth Rates by Mother's Racial/Ethnic Group, New York City, 2011-2020

In 2020, the birth rate was highest among non-Hispanic/Latino Whites at 12.6 births per 1,000 population, followed by 11.9 among Asians and Pacific Islanders, 11.2 among Hispanics/Latinos, and 9.6 among non-Hispanic/Latino Blacks.

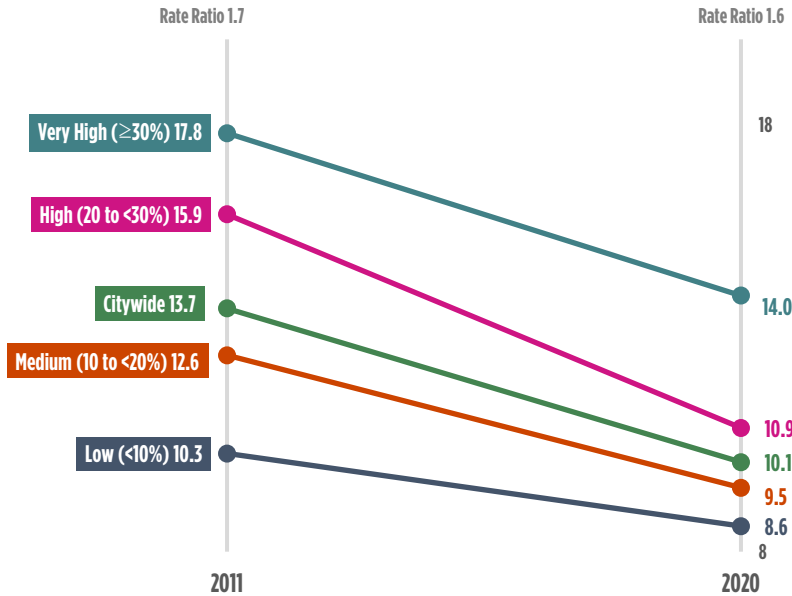


From 2011 to 2020, the birth rate decreased among all groups. Over the ten-year period, Asians and Pacific Islanders experienced a 32.0% decline; Hispanics/Latinos, a 28.7% decline; non-Hispanic/Latino Blacks, a 28.9% decline; and non-Hispanic/Latino Whites, a 9.4% decline.

PREGNANCY OUTCOMES

Figure 7. Birth Rates by Neighborhood Poverty**+, New York City, 2011 and 2020

In 2020, the birth rate was highest in the city's **very high** poverty neighborhoods, at 14.0 births per 1,000 population, compared to 8.6 for the low poverty neighborhoods.



In 2020, the birth rate in the city's **very high** poverty neighborhoods was 1.6 times the birth rate of the city's low poverty neighborhoods, compared to 1.7 in 2011.

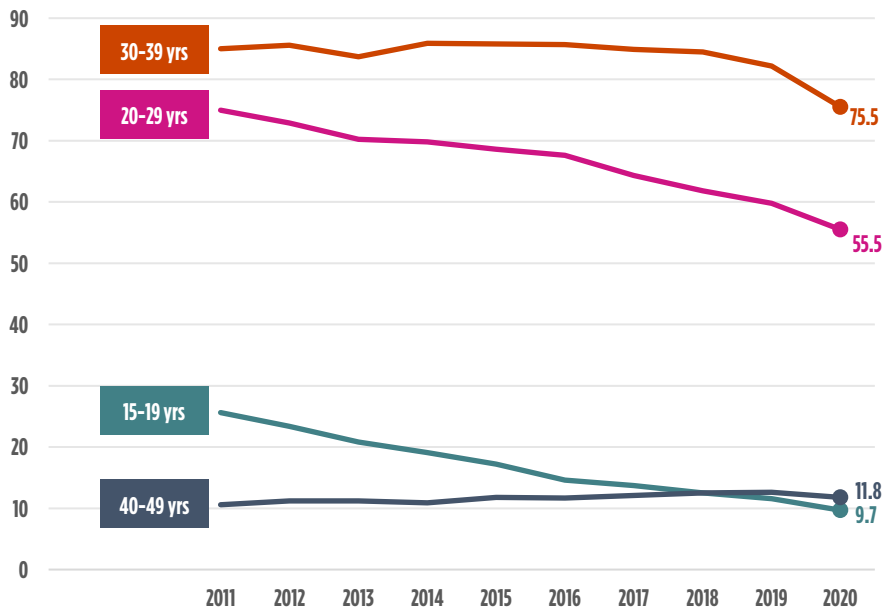
Since 2011, birth rates decreased across all categories of neighborhood poverty.

*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

**The citywide estimate is restricted to NYC residents.

Figure 8. Birth Rates by Mother's Age Group, New York City, 2011-2020

In 2020, the birth rate among women aged **30 to 39 years** of age continued to be the highest, at 75.5 births per 1,000 female population, followed by women **20 to 29** at 55.5, then women **40 to 49 years** old and **15 to 19 years** old, with birth rates of 11.8 and 9.7, respectively.

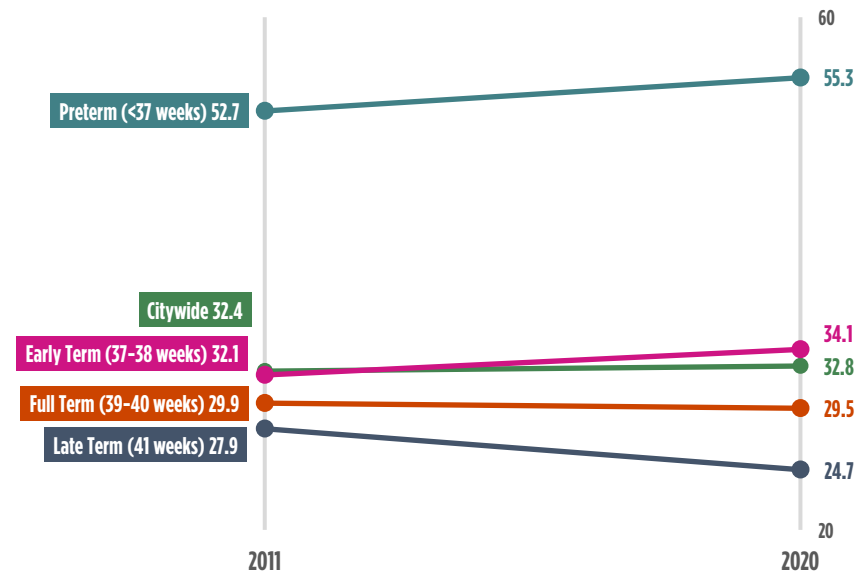


Since 2011, birth rates decreased among all age groups except for women aged 40-49 years old, for which the rate increased by 11.3%.

Among women **20-29 years** old, the birth rate has declined by 26.0% since 2011, and 7.2% since 2019. The teen birth rate (**15-19 years** of age) has decreased by 62.1% since 2011, and 16.4% since 2019. The birth rate for women aged **30-39 years** old has declined by 11.2% since 2011, and 8.2% since 2019.

PREGNANCY OUTCOMES

Figure 9. Percent of Births via Cesarean Delivery by Gestational Age, New York City, 2011 and 2020
From 2011 to 2020, the percent of births delivered via Cesarean delivery increased for **preterm infants (<37 weeks gestational age)** and **early term infants (37-38 weeks gestation)** but decreased for **full term infants (39-40 weeks gestation)** and late term infants (41 weeks gestation).



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

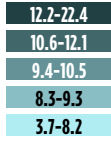
For 2011 and 2020, a majority of **preterm infants** were delivered by Cesarean section.

PREGNANCY OUTCOMES

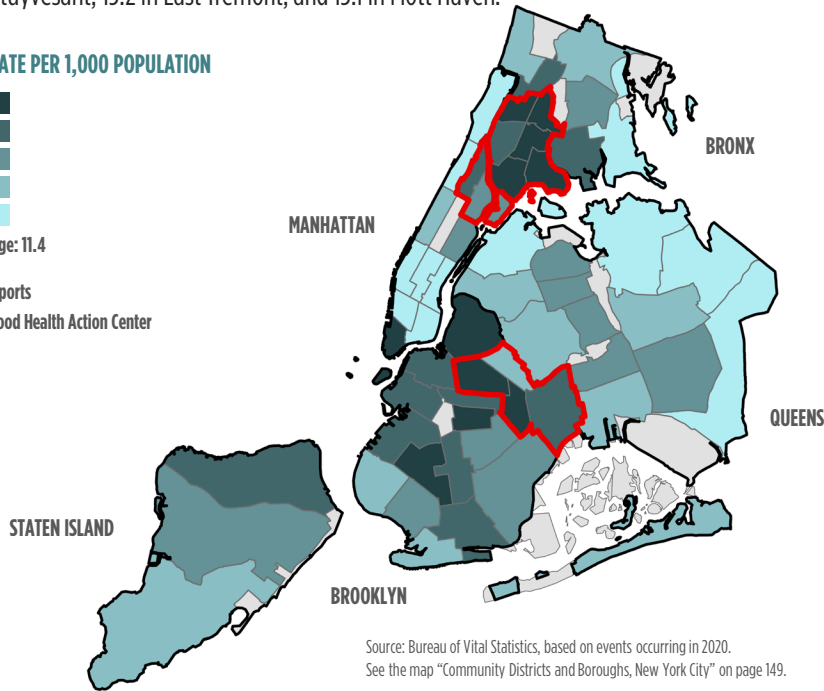
Figure 10. Birth Rates by Community District of Residence, New York City, 2020

In 2020, the community district with the highest crude birth rate was Borough Park with 22.4 births per 1,000 population, followed by 16.7 in Williamsburg/Greenpoint, 13.3 in Battery Park/Tribeca, Morrisania, and Bedford Stuyvesant, 13.2 in East Tremont, and 13.1 in Mott Haven.

LIVE BIRTH RATE PER 1,000 POPULATION



Citywide Average: 11.4



Source: Bureau of Vital Statistics, based on events occurring in 2020.
See the map "Community Districts and Boroughs, New York City" on page 149.

The community district with the lowest crude birth rate was Bayside with 3.7 births per 1,000 population, then the Lower East Side with 5.2, Chelsea/Clinton with 5.8, Greenwich Village/SOHO with 6.2, and Queens Village with 6.7.

MANHATTAN	CD	Birth Rate
Battery Park, Tribeca	MN01	13.3
Central Harlem	MN10	11.0
Upper East Side	MN08	9.4
East Harlem	MN11	9.4
Upper West Side	MN07	9.0
Washington Heights	MN12	8.2
Midtown Business District	MN05	8.1
Murray Hill	MN06	7.8
Manhattanville	MN09	7.4
Greenwich Village, SOHO	MN02	6.2
Chelsea, Clinton	MN04	5.8
Lower East Side	MN03	5.2

BRONX	CD	Birth Rate
Morrisania	BX03	13.3
East Tremont	BX06	13.2
Mott Haven	BX01	13.1
University, Morris Heights	BX05	12.7
Hunts Point	BX02	12.3
Concourse, Highbridge	BX04	11.9
Fordham	BX07	11.5
Unionport, Soundview	BX09	11.5
Pelham Parkway	BX11	9.8
Williamsbridge	BX12	9.3
Riverdale	BX08	8.7
Throgs Neck	BX10	7.3

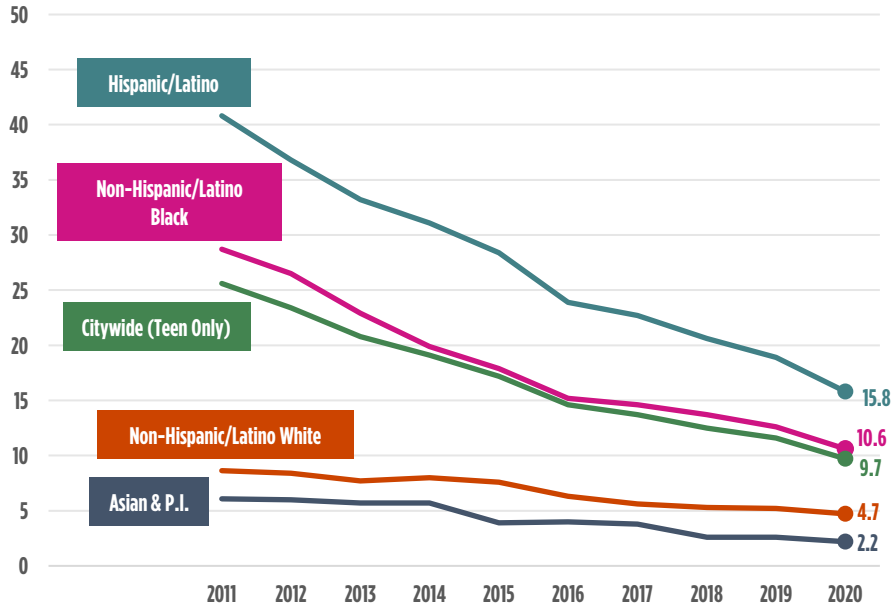
STATEN ISLAND	CD	Birth Rate
Port Richmond	SI01	10.9
Willowbrook, South Beach	SI02	9.4
Tottenville	SI03	8.8

BROOKLYN	CD	Birth Rate
Borough Park	BK12	22.4
Williamsburg, Greenpoint	BK01	16.7
Bedford Stuyvesant	BK03	13.3
Brownsville	BK16	12.8
Crown Heights South	BK09	12.6
Park Slope	BK06	12.1
East New York	BK05	12.0
Flatbush, Midwood	BK14	12.0
Sunset Park	BK07	11.5
Sheepshead Bay	BK15	11.0
Crown Heights North	BK08	10.9
Fort Greene, Brooklyn Heights	BK02	10.6
Bensonhurst	BK11	9.9
East Flatbush	BK17	9.8
Canarsie	BK18	9.4
Coney Island	BK13	9.3
Bay Ridge	BK10	9.1
Bushwick	BK04	8.6

QUEENS	CD	Birth Rate
Woodhaven	QN09	10.5
Jamaica, St. Albans	QN12	10.4
Jackson Heights	QN03	9.8
Elmhurst, Corona	QN04	9.7
Rego Park, Forest Hills	QN06	9.6
Ridgewood, Glendale	QN05	9.1
The Rockaways	QN14	9.1
Sunnyside, Woodside	QN02	8.8
Howard Beach	QN10	8.8
Fresh Meadows, Briarwood	QN08	8.6
Astoria, Long Island City	QN01	8.1
Flushing	QN07	7.0
Queens Village	QN13	6.7
Bayside	QN11	3.7

PREGNANCY OUTCOMES

Figure 11. Teen Birth Rates by Mother's Racial/Ethnic Group, New York City, 2011-2020
From 2011 to 2020, the citywide teen birth rate declined by 62.1% overall.

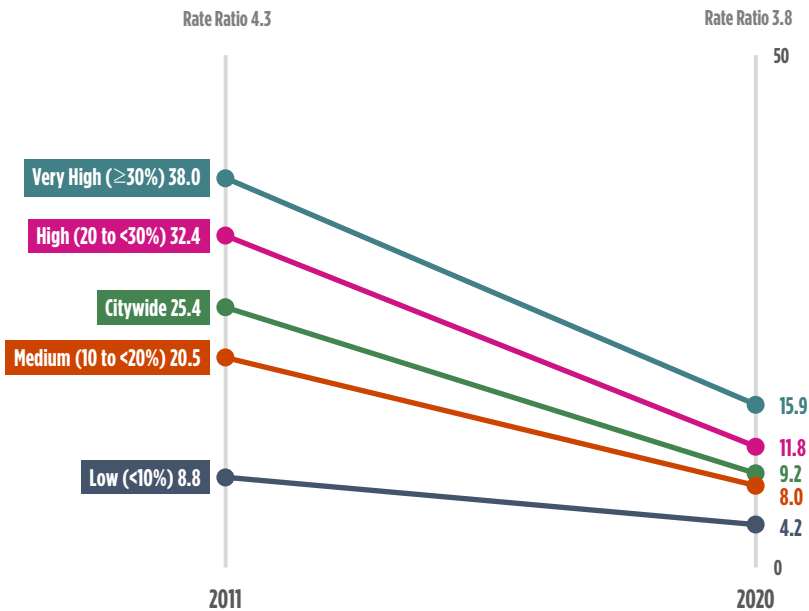


Teen birth rates also declined for all racial/ethnic groups: by 61.3% among Hispanics/Latinos, 63.1% among non-Hispanic/Latino Blacks, 45.3% among non-Hispanic/Latino Whites, and 63.9% among Asians and Pacific Islanders.

The teen birth rate among Hispanics/Latinos remains high compared to that of non-Hispanic/Latino Whites. In 2011 the teen birth rate for Hispanics/Latinos was 4.7 times that of non-Hispanic/Latino Whites. In 2020, the teen birth rate for Hispanics/Latinos was 3.4 times that of non-Hispanic/Latino Whites.

In 2020, the teen birth rate among non-Hispanic/Latino Blacks was 2.3 times that of non-Hispanic/Latino Whites, reflecting a narrowing of the difference since 2011, when it was 3.3 times that of non-Hispanic/Latino Whites.

Figure 12. Teen Birth Rate by Neighborhood Poverty*, New York City Residents, 2011 and 2020
Between 2011 and 2020, teen birth rates declined across all poverty levels.



Over that time period, teen birth rates declined by 58.2% in the city's very high poverty neighborhoods, by 63.6% in high poverty neighborhoods, by 61.0% in medium poverty neighborhoods, and by 52.3% in low poverty neighborhoods.

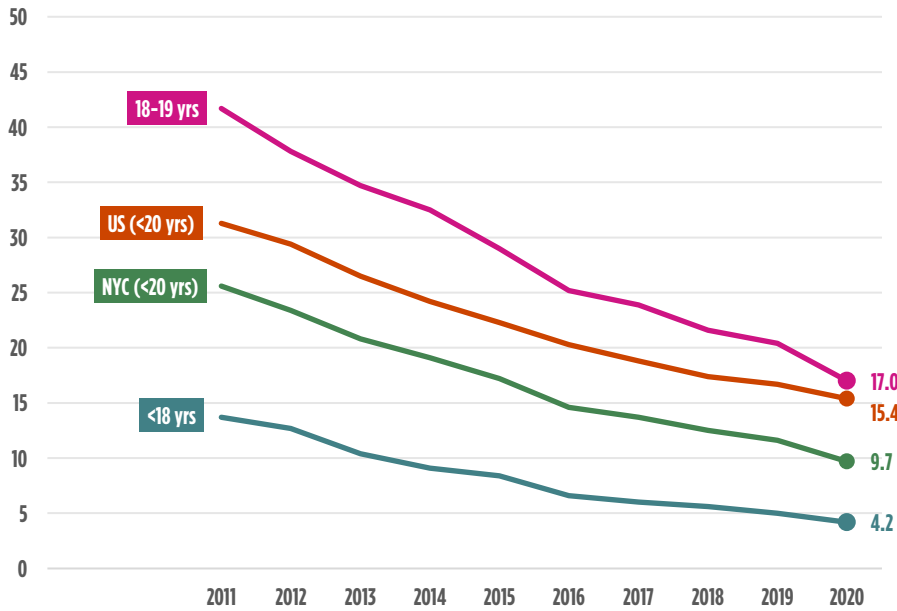
The disparity between low poverty and very high poverty neighborhoods has decreased. Teen birth rates remain comparatively high in the city's very high poverty neighborhoods. In 2020, the teen birth rate in very high poverty neighborhoods was 3.8 times that of low poverty neighborhoods; in 2011, it was 4.3 times that of low poverty neighborhoods.

*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

†The citywide estimate is restricted to NYC residents.

PREGNANCY OUTCOMES

Figure 13. Teen Birth Rates by Age Group, New York City, 2011-2020
From 2011 to 2020, birth rates declined among all teenagers, regardless of age.



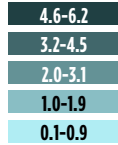
Among teens less than 18 years of age, the birth rate declined over this period by 69.3%; among women 18-19, it declined by 59.2%.

The overall rate of teen birth in New York City (births to women <20) declined by 62.1%, and the citywide teen birth rate has been consistently lower than the US teen birth rate.

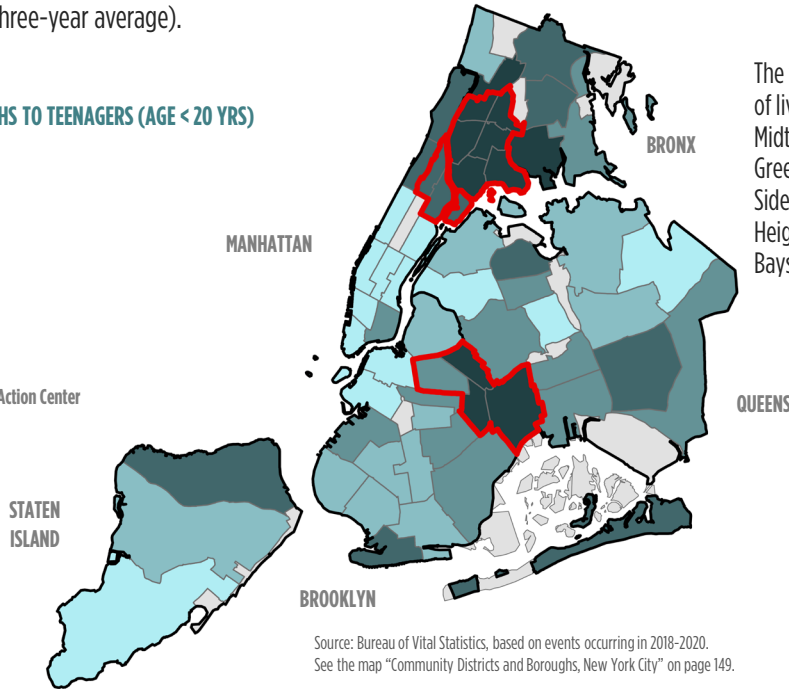
PREGNANCY OUTCOMES

Figure 14. Percent of Live Births to Teenagers (Three-Year Averages) by Community District of Residence, New York City, 2018-2020
The community districts with the highest percentage of live births to teenagers (<20 years) were East Tremont with 6.2%, followed by Brownsville with 6.1%, Mott Haven and Hunts Point with 6.0%, Morrisania with 5.5%, and Bushwick with 5.4% (three-year average).

PERCENT OF LIVE BIRTHS TO TEENAGERS (AGE < 20 YRS)



Citywide Average: 2.4



Source: Bureau of Vital Statistics, based on events occurring in 2018-2020.
See the map "Community Districts and Boroughs, New York City" on page 149.

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

MANHATTAN		
CD	Birth Percentage	
Manhattanville	MN09	4.3
East Harlem	MN11	3.6
Central Harlem	MN10	3.5
Washington Heights	MN12	3.4
Lower East Side	MN03	2.3
Chelsea, Clinton	MN04	0.9
Midtown Business District	MN05	0.8
Upper West Side	MN07	0.5
Greenwich Village, SOHO	MN02	0.4
Murray Hill	MN06	0.3
Upper East Side	MN08	0.2
Battery Park, Tribeca	MN01	0.1

BRONX		
CD	Birth Percentage	
East Tremont	BX06	6.2
Mott Haven	BX01	6.0
Hunts Point	BX02	6.0
Morrisania	BX03	5.5
University, Morris Heights	BX05	4.9
Concourse, Highbridge	BX04	4.8
Unionport, Soundview	BX09	4.7
Fordham	BX07	4.6
Williamsbridge	BX12	4.3
Pelham Parkway	BX11	3.5
Throgs Neck	BX10	2.7
Riverdale	BX08	1.9

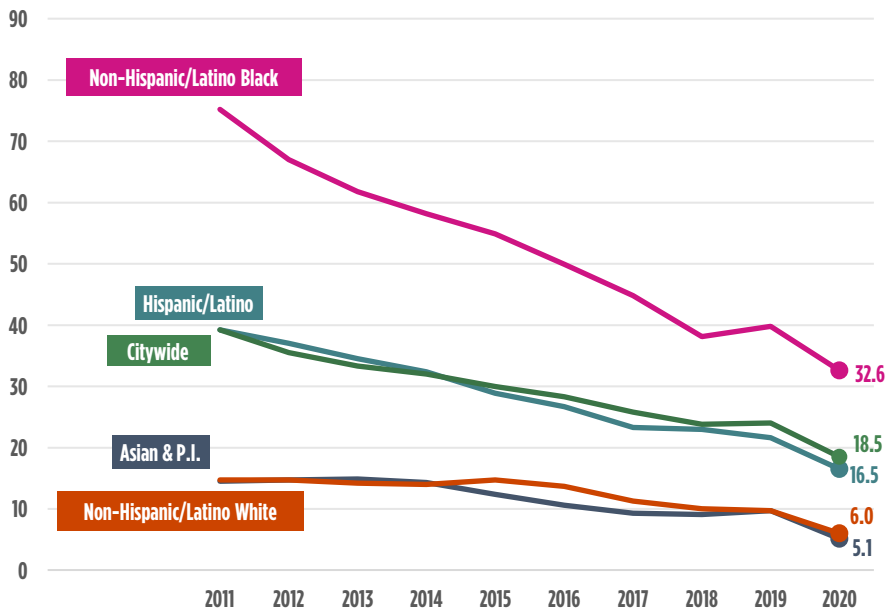
STATEN ISLAND		
CD	Birth Percentage	
Port Richmond	SI01	3.9
Willowbrook, South Beach	SI02	1.2
Tottenville	SI03	0.6

BROOKLYN		
CD	Birth Percentage	
Brownsville	BK16	6.1
Bushwick	BK04	5.4
East New York	BK05	5.0
Coney Island	BK13	3.5
Bedford Stuyvesant	BK03	3.1
East Flatbush	BK17	3.1
Crown Heights North	BK08	2.4
Sunset Park	BK07	2.3
Canarsie	BK18	2.1
Bensonhurst	BK11	1.8
Borough Park	BK12	1.6
Flatbush, Midwood	BK14	1.6
Sheepshead Bay	BK15	1.5
Williamsburg, Greenpoint	BK01	1.4
Crown Heights South	BK09	1.4
Bay Ridge	BK10	1.1
Park Slope	BK06	0.9
Fort Greene, Brooklyn Heights	BK02	0.8

QUEENS		
CD	Birth Percentage	
The Rockaways	QN14	4.5
Jackson Heights	QN03	3.6
Jamaica, St. Albans	QN12	3.2
Elmhurst, Corona	QN04	2.4
Ridgewood, Glendale	QN05	2.4
Woodhaven	QN09	2.4
Queens Village	QN13	2.4
Howard Beach	QN10	2.1
Astoria, Long Island City	QN01	1.4
Flushing	QN07	1.3
Fresh Meadows, Briarwood	QN08	1.2
Sunnyside, Woodside	QN02	0.9
Rego Park, Forest Hills	QN06	0.6
Bayside	QN11	0.6

PREGNANCY OUTCOMES

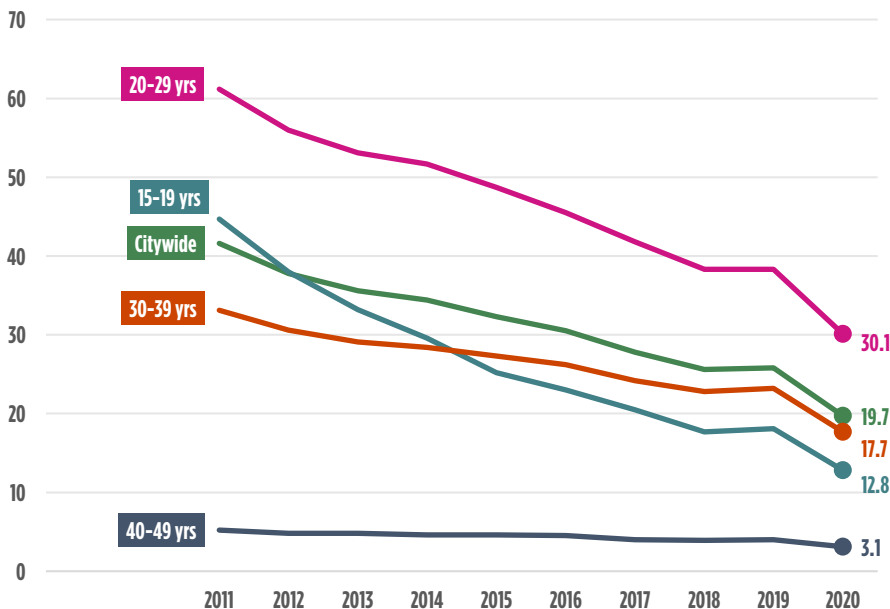
Figure 15. Age-Adjusted Induced Termination of Pregnancy Rates by Woman's Racial/Ethnic Group, New York City, 2011-2020
The 2020 **citywide** age-adjusted rate of induced terminations of pregnancy (at 18.5 terminations per 1,000 females aged 15 to 44 years) declined by 52.8% since 2011.



Similarly, age-adjusted rates among each racial/ethnic group declined: 64.8% among Asians and Pacific Islanders, 57.9% among Hispanics/Latinos, 56.6% among **non-Hispanic/Latino Blacks**, and 59.2% among **non-Hispanic/Latino Whites**.

The disparity between **non-Hispanic/Latino White** and **non-Hispanic/Latino Black** induced termination of pregnancy rates has increased since 2011. The rate among **non-Hispanic/Latino Blacks** was 5.4 times that of **non-Hispanic/Latino Whites** (32.6 terminations per 1,000 females aged 15-44 vs. 6.0) in 2020, compared to 5.1 times in 2011.

Figure 16. Age-Specific Induced Termination of Pregnancy Rates by Woman's Age Group, New York City, 2011-2020
The 2020 crude **citywide** rate of induced terminations of pregnancy declined 52.6% since 2011, from 41.6 to 19.7 terminations per 1,000 women aged 15-49 years.

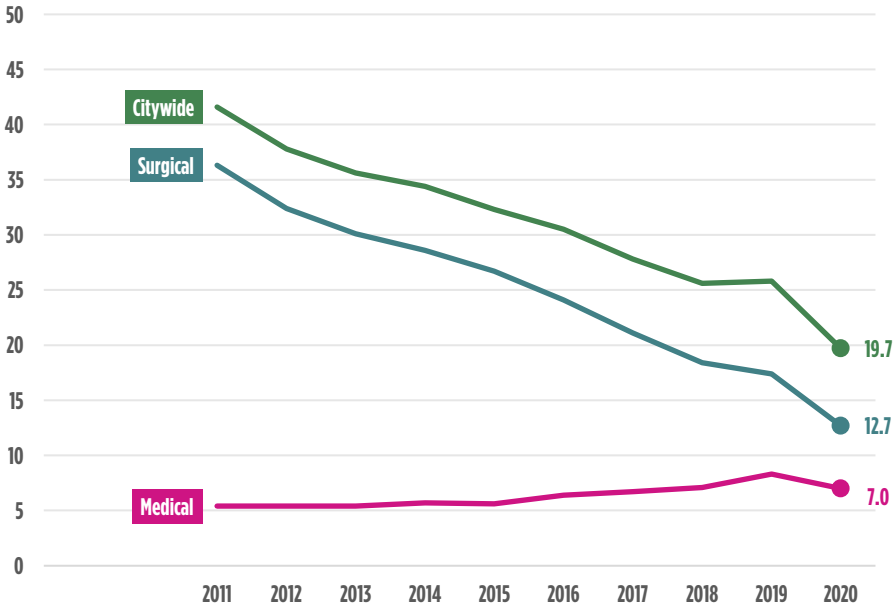


Since 2011, the age-specific rate declined 71.4% among teens (15 to 19 years of age), from 44.7 terminations per 1,000 females in 2011, to 12.8 in 2020. The rate declined by 50.8% among women 20 to 29 years of age, 46.5% among women 30 to 39 years of age and 40.4% among women 40 and older.

Rates remain the highest among women 20 to 29 years of age, followed by women 30 to 39 years of age, then teens, and women 40 and over.

PREGNANCY OUTCOMES

Figure 17. Induced Termination of Pregnancy Rates by Medical vs. Surgical Procedure, New York City, 2011-2020
Since 2011, the crude rate of **medical abortion** in **New York City** increased 29.6%, to 7.0 terminations per 1,000 females aged 15-44, while the rate of **surgical abortion** decreased 65.0% to 12.7 terminations per 1,000 females aged 15-44.

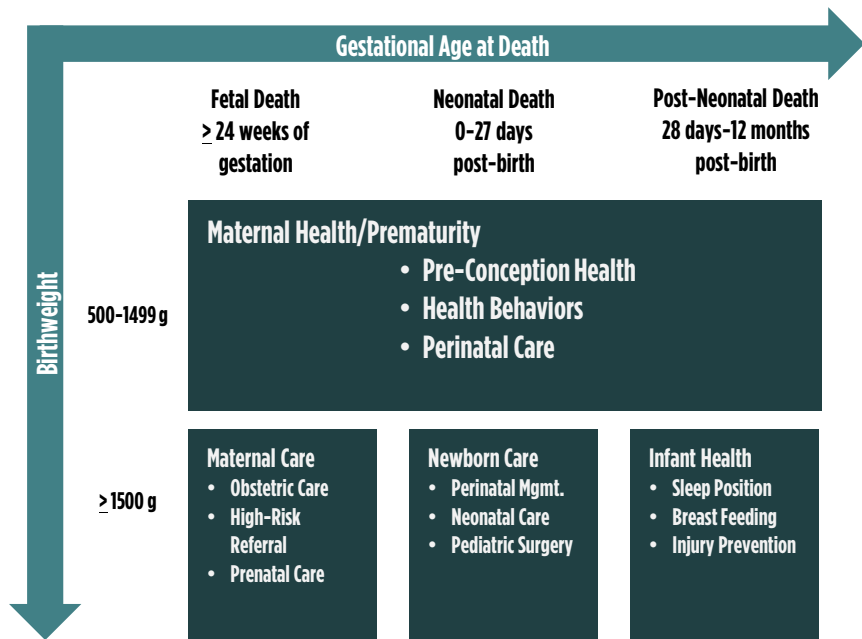


Medication-induced abortion, using mifepristone in combination with misoprostol, is termed a “**medical abortion**” and may be performed up to eleven weeks of gestation, rather than a **surgical procedure**, to terminate a pregnancy. **Medical abortion** is not to be confused with the morning-after pill, also known as emergency contraception, which is used to prevent pregnancy.

PERINATAL PERIODS OF RISK (PPOR)

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

The Perinatal Periods of Risk (PPOR) model (see below) illustrates four periods of risk and classifies fetal and infant deaths based on birthweight (500-1,499 grams vs. 1,500 grams or more) and gestational age/age at death (fetal, neonatal, or post-neonatal death), and the labels indicate the primary areas of prevention.



Based on WHO/CDC's Periods of Risk approach (1991) to reduce fetal deaths (more commonly called miscarriages and/or stillbirths) and infant mortality, the PPOR methodology was developed to address the complexity of infant mortality.

Each labeled box in the PPOR model (maternal health/prematurity; maternal care; newborn care; and infant health) represents a period of risk, and within each period, deaths are similar in terms of causes, maternal risk factors, and opportunities for prevention.

PPOR first requires that deaths are 'mapped' to the correct period of risk based on birthweight and gestational age/age at death. The mortality rate is then calculated for each period of risk. Mortality rates from the four periods should sum up to the overall mortality rate.

Figure 2. Contributions to Fetal-Infant Mortality Rates per 1,000 Births and Fetal Deaths, New York City, 2011-2020
The overall fetal-infant mortality rate (FIMR) for New York City was 6.7 per 1,000 live births in 2020, decreasing by 5.6% since 2011, and increasing by 6.3% from 2019.

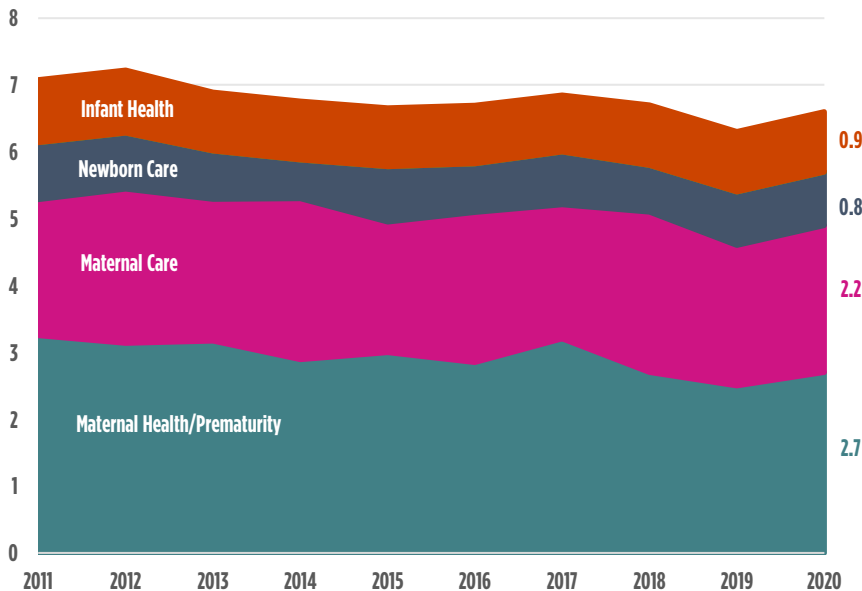
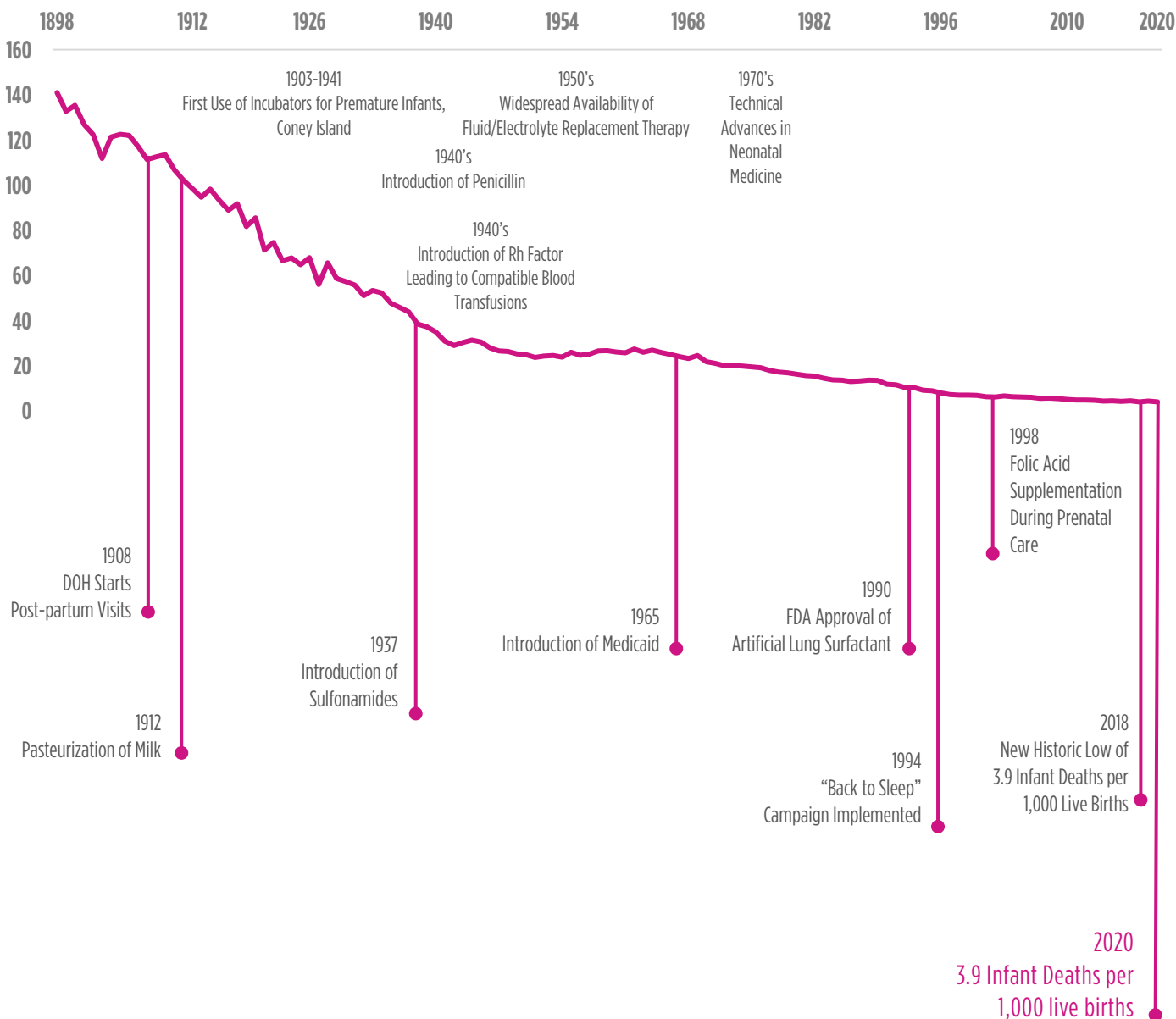


Figure 2 illustrates the relative contribution of risk factors to the overall FIMR. Refer to Figure 1 for specific risk factors. Deaths with a birthweight between 500 grams and 1,499 grams, and occurring at any gestational age or birth age, contributed 40.3% to the FIMR in 2020, indicating that prevention efforts should focus on maternal health/prematurity risk factors.

The share of the FIMR attributable to the infant health period slightly increased from 13.3% in 2011 to 13.4% in 2020 (post-neonatal deaths with a birthweight of 1,500 grams or greater). The contribution of the maternal care period to the FIMR increased from 28.8% in 2011 to 32.8% in 2020 (fetal deaths with a birthweight of 1,500 grams or greater). The share of the FIMR attributable to the newborn care period decreased by 0.1 percentage points between 2011 and 2020 (neonatal deaths with a birthweight of 1,500 grams or greater), from 12.0% to 11.9%.

INFANT MORTALITY

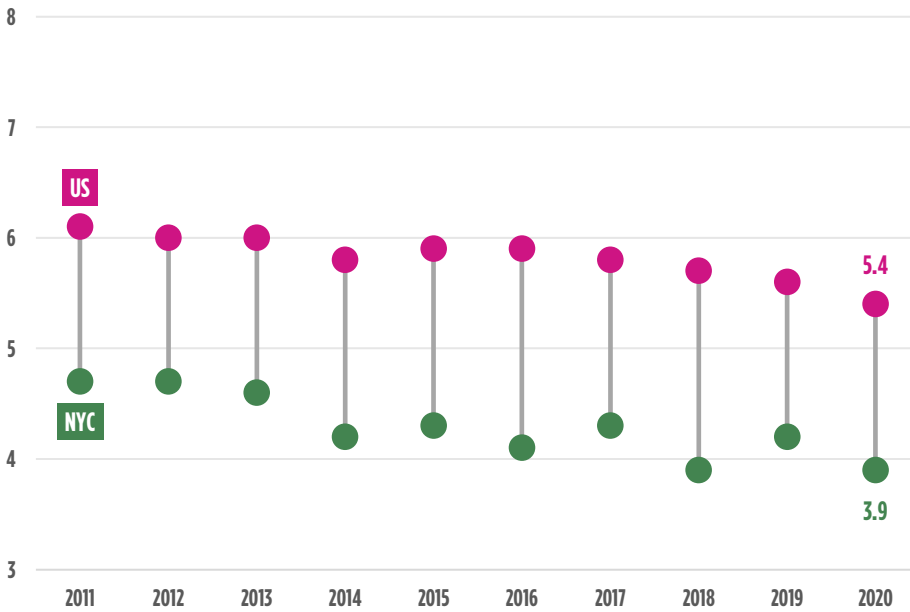
Infant Mortality Rate Per 1,000 Live Births Over Time



INFANT MORTALITY

Figure 1. Infant Mortality Rate, New York City and the United States*, 2011-2020

In the last 10 years, New York City's infant mortality rate (the number of infant deaths-death of an infant before their first birthday-for every 1,000 live births) has had a steeper decline than the US rate has (17.0% decline vs. 11.5% decline).

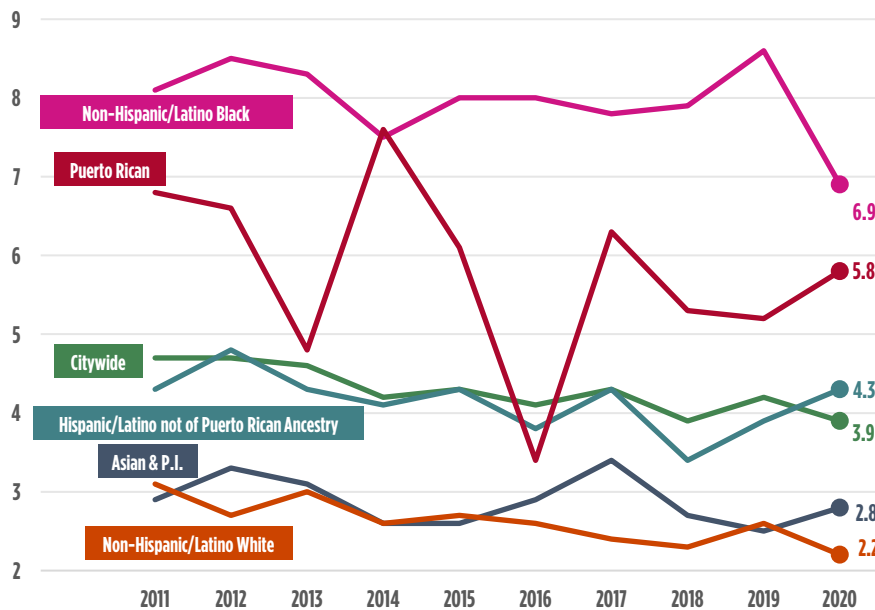


In 2020, New York City had an infant mortality rate of 3.9 infant deaths per 1,000 live births. This represents a decrease of 7.1% from 2019 (4.2 infant deaths per 1,000 live births). The infant mortality rate may fluctuate from year to year due to the small number of infant deaths.

*Data source: National Center for Health Statistics, National Vital Statistics System

Figure 2. Infant Mortality Rate by Mother's Racial/Ethnic Group, New York City, 2011-2020

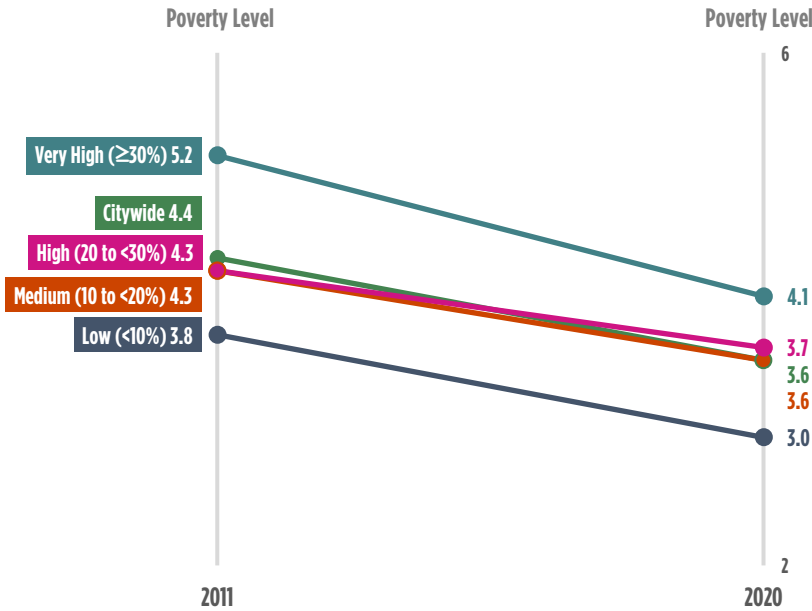
Infant mortality rates increased from 2019 to 2020 among Puerto Ricans, Hispanics/Latinos not of Puerto Rican ancestry, and Asians and Pacific Islanders by 11.5%, 10.3%, and 12.0%, respectively, while the rates decreased for non-Hispanic/Latino Whites and non-Hispanic/Latino Blacks by 15.4% and 19.8%, respectively.



Although rates fluctuate due to small numbers, they are consistently higher among some groups: the rate for non-Hispanic/Latino Blacks was 3.1 times the rate for non-Hispanic/Latino Whites in 2020; the rate for Puerto Ricans was 2.6 times the rate for non-Hispanic/Latino Whites in 2020.

INFANT MORTALITY

Figure 3. Infant Mortality Rate by Neighborhood Poverty*, New York City Residents, 2011 and 2020
From 2011 to 2020, the infant mortality rate declined in all poverty groups.

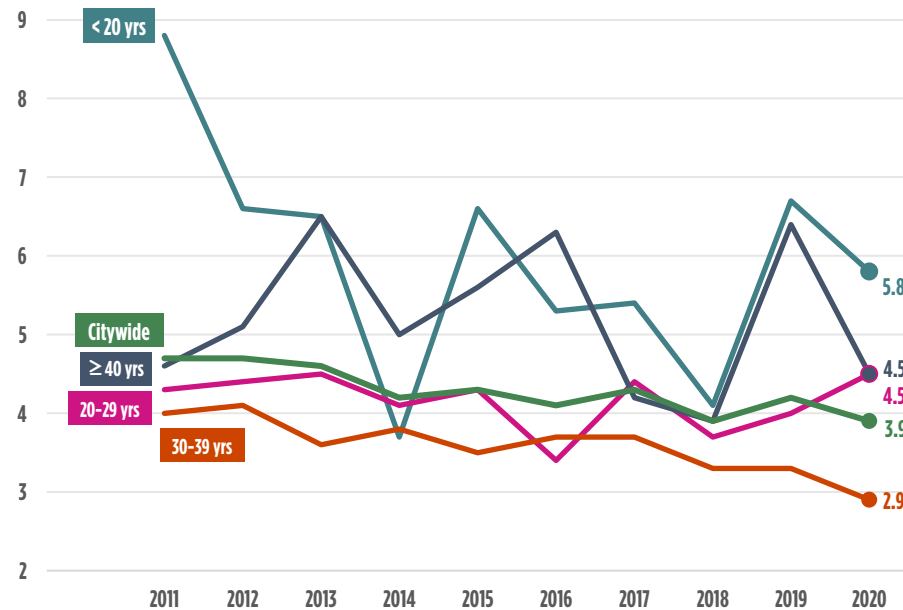


The infant mortality rate in very high poverty areas was 1.4 times the infant mortality rate in low poverty areas in 2020.

*Neighborhood poverty (based on woman's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

†The citywide estimate is restricted to NYC residents.

Figure 4. Infant Mortality Rate by Mother's Age, New York City, 2011-2020
Infant mortality rates have decreased among infants born to women in all age groups since 2011 except for women in the 20-29 age group, for which the rate increased by 4.7%.

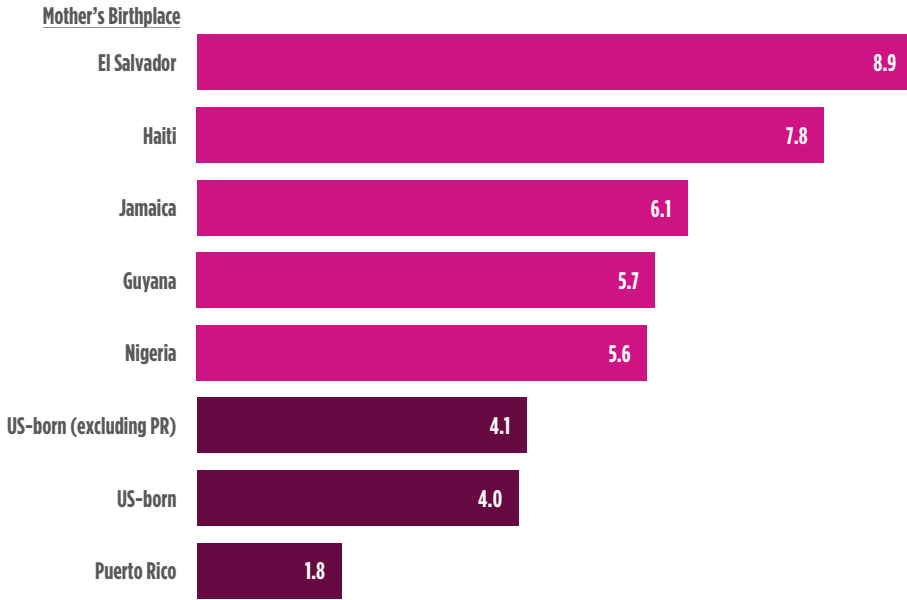


The infant mortality rate in New York City was highest among infants born to the youngest women (<20 years of age). In 2020, the rate among this group was 5.8 infant deaths per 1,000 live births (a 13.4% decrease from 2019). In 2020, the infant mortality rate for women in the ≥40 age group was 4.5 infant deaths per 1,000 live births. The fluctuation (from year to year) in the infant mortality rate among infants born to women age <20 and ≥40 is likely due to the small number of infant deaths.

INFANT MORTALITY

Figure 5. Infant Mortality Rates by Mother's Birthplace, US-born and Countries of Top 5 IMR, 3-Year Moving Average, 2018-2020

From 2018 to 2020, the infant mortality rate among US-born women (excluding Puerto Rico) was 4.1 infant deaths per 1,000 live births. For the same time period, the infant mortality rate for Puerto Rico-born women was 1.8 infant deaths per 1,000 live births.



The infant mortality rate was highest among women born in El Salvador at 8.9 infant deaths per 1,000 live births.

Women born in Haiti had the second highest infant mortality rate at 7.8 infant deaths per 1,000 live births, followed by Jamaica-born women (6.1), Guyana-born women (5.7), and Nigeria-born women at 5.6 infant deaths per 1,000 live births.

Figure 6. Neonatal and Post-Neonatal Infant Mortality Rate, New York City, 2011-2020

In 2020, the **neonatal** (infants who are less than 28 days old) infant mortality rate was 2.4 infant deaths per 1,000 live births, and the **post-neonatal** (infants 28 days to less than 1 year old) IMR was 1.4 infant deaths per 1,000 live births.

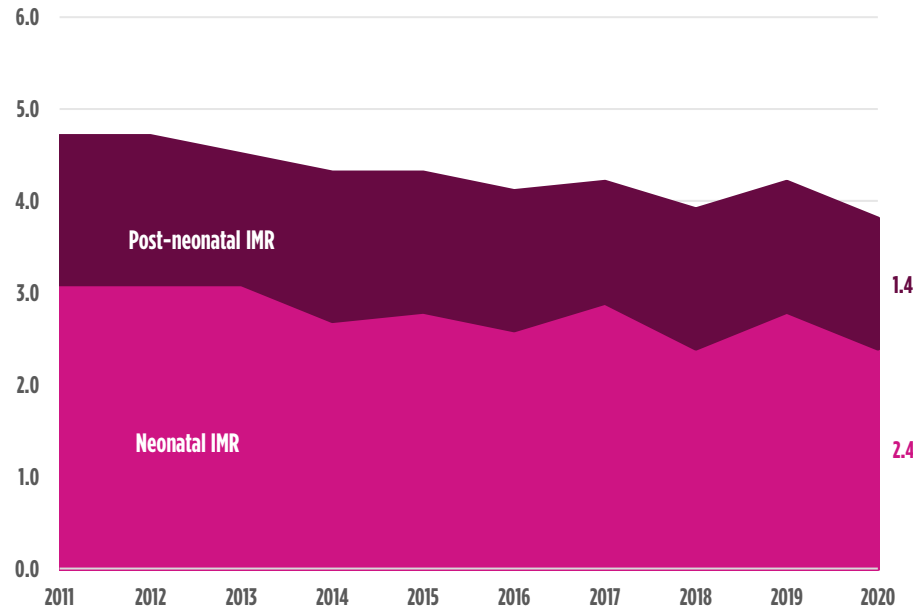
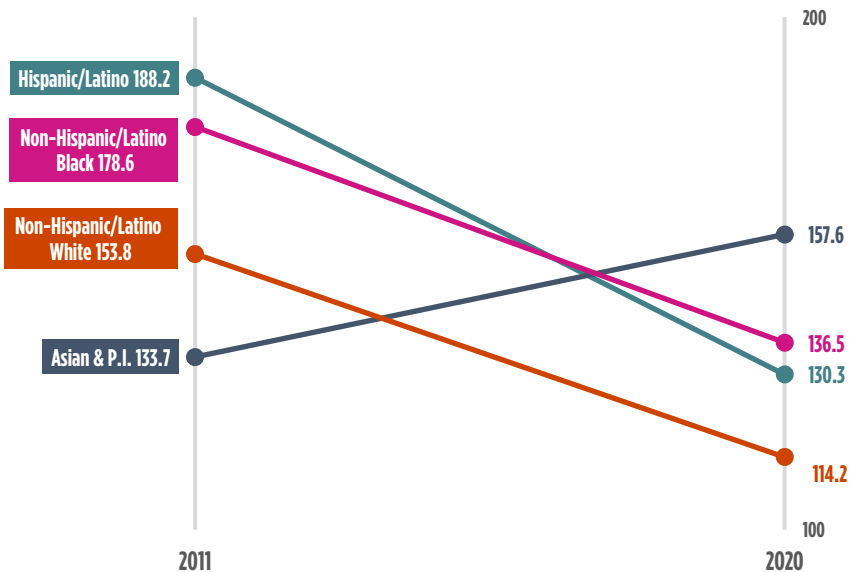


Figure 6 illustrates the share of the IMR that is attributable to **neonatal** and **post-neonatal** deaths. The share of the IMR attributable to **neonatal** deaths decreased from 66.0% in 2011 to 62.9% in 2020. The share of the IMR attributable to **post-neonatal** deaths increased from 34.0% in 2011 to 37.1% in 2020.

INFANT MORTALITY

Figure 7. Infant Mortality Rates by Mother's Racial/Ethnic Group*, Very Low Birthweight, 2011 and 2020
 From 2011 to 2020, infant mortality rates among very low birthweight infants (born under 1,500 grams, VLBW) declined among all ethnic groups except for Asians and Pacific Islanders, for which the rate increased.

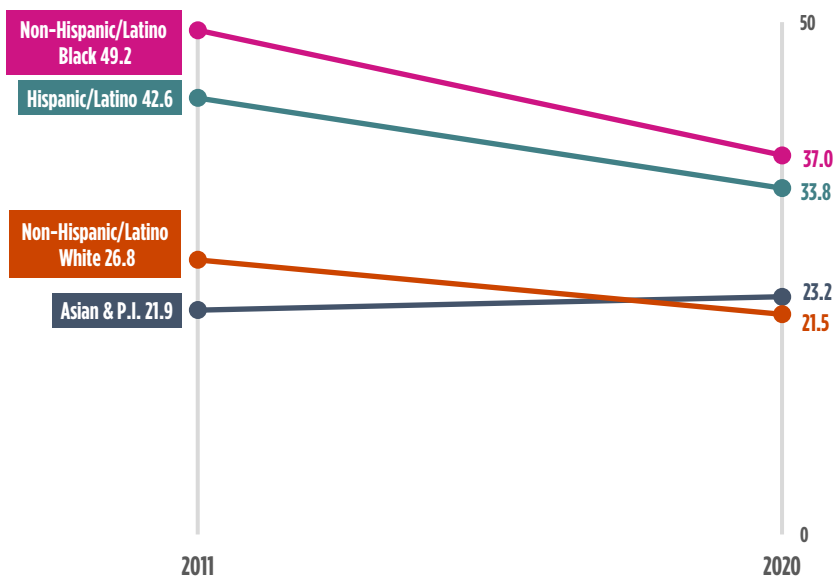


Among VLBW infants in 2020, the infant mortality rate was highest for Asians and Pacific Islanders at 157.6 deaths per 1,000 live births, followed by non-Hispanic/Latino Blacks (136.5), Hispanics/Latinos (130.3) and non-Hispanic/Latino Whites (114.2).

In 2020, the infant mortality rates for non-Hispanic/Latino Black, Asian and Pacific Islander, and Hispanic/Latino VLBW infants were 1.2, 1.4, and 1.1 times the VLBW infant mortality rate for non-Hispanic/Latino White infants, respectively.

*Other/not stated maternal racial/ethnic groups not included in the figure.

Figure 8. Infant Mortality Rates by Mother's Racial/Ethnic Group*, Low Birthweight, 2011 and 2020
 From 2011 to 2020, infant mortality rates among low birthweight infants (born under 2,500 grams) declined among all ethnic groups except for Asians and Pacific Islanders, for which the rate increased.

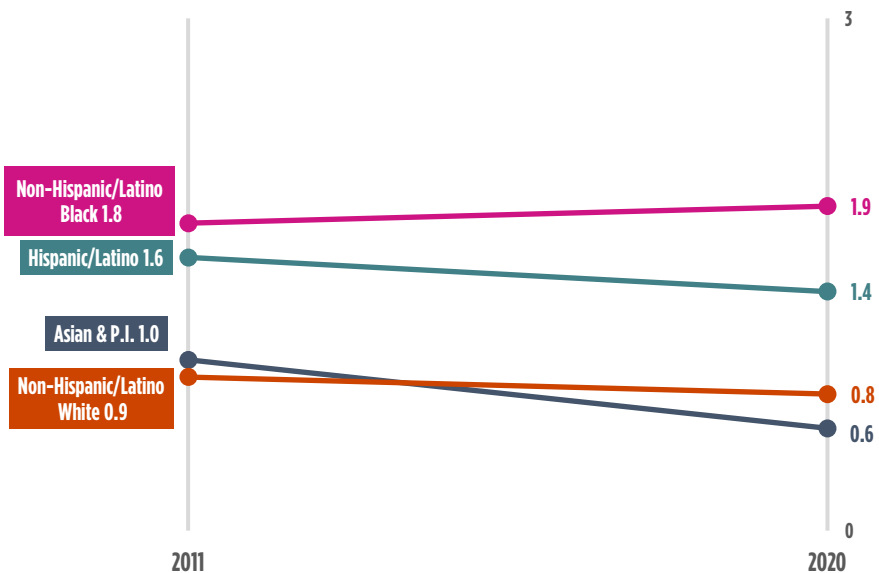


Among low birthweight infants in 2020, the infant mortality rate was highest for non-Hispanic/Latino Blacks at 37.0 deaths per 1,000 live births, 1.7 times that of non-Hispanic/Latino Whites (21.5).

*Other/not stated maternal racial/ethnic groups not included in the figure.

INFANT MORTALITY

Figure 9. Infant Mortality Rates by Mother's Racial/Ethnic Group*, Normal Birthweight, 2011 and 2020
From 2011 to 2020, infant mortality rates among normal birthweight infants ($\geq 2,500$ grams) decreased among all ethnic groups except for **non-Hispanic/Latino Blacks**, for which the rate increased.

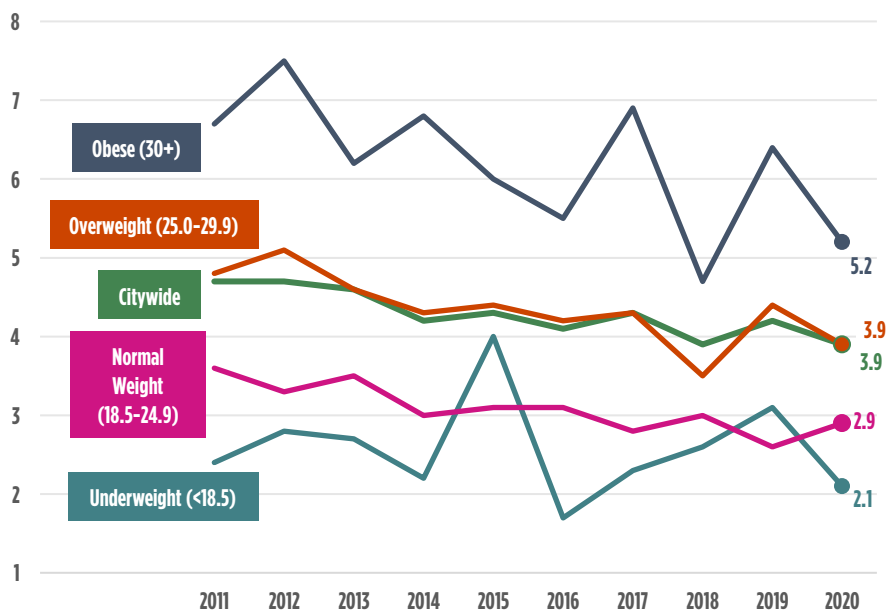


In 2020, **Hispanic/Latino** normal birthweight infants had an infant mortality rate of 1.4 infant deaths per 1,000 live births, 0.6 for **Asians and Pacific Islanders**, and 0.8 for **non-Hispanic/Latino Whites**.

The infant mortality rate among **non-Hispanic/Latino Black** normal birthweight infants was 1.9 infant deaths per 1,000 live births, or 3.2 times that of **Asians and Pacific Islanders**, 2.4 times that of **non-Hispanic/Latino Whites**, and 1.4 times that of **Hispanics/Latinos**.

*Other/not stated maternal racial/ethnic groups not included in the figure.

Figure 10. Infant Mortality Rates by Mother's Pre-Pregnancy Body Mass Index (BMI)*, 2011-2020
Infant mortality rates decreased from 2019 to 2020 among all pre-pregnancy body mass index (BMI) groups except for women with a **normal weight** BMI, who saw an increase.



Rates fluctuate over time but are consistently higher among women with **overweight** and **obese** BMIs. The rate for women with an **overweight** BMI was 1.3 times the rate for women with a **normal weight** BMI in 2020; the rate for women with **obesity** was 1.8 times the rate for women with a **normal weight** BMI in 2020.

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

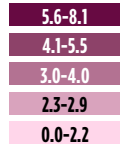
*See Technical Notes for BMI definition.

INFANT MORTALITY

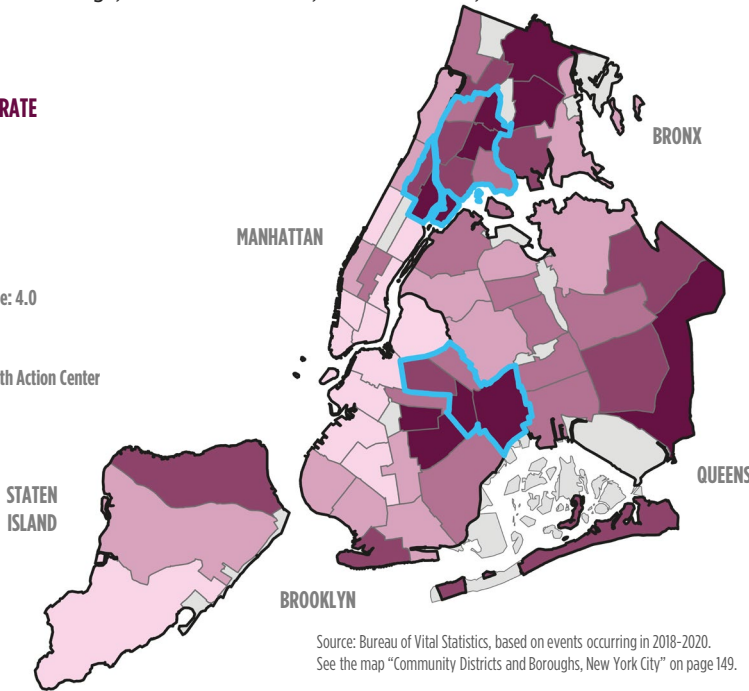
Figure 11. Average Infant Mortality Rate (Three-Year Averages) by Community District of Residence, New York City, 2018-2020*

The three-year average infant mortality rate was highest in Williamsbridge at 8.1 deaths per 1,000 live births, followed by 7.7 in Queens Village, 6.9 in East New York, 6.5 in Morrisania, and 6.2 in East Tremont and Brownsville.

INFANT MORTALITY RATE



Citywide 3-Year Average: 4.0



The lowest three-year average infant mortality rate was in Greenwich Village/SOHO with 0.0 deaths per 1,000 live births, followed by 0.8 in the Upper East Side, 1.2 in Williamsburg/Greenpoint, 1.3 in Battery Park/Tribeca, and 1.6 in Murray Hill.

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

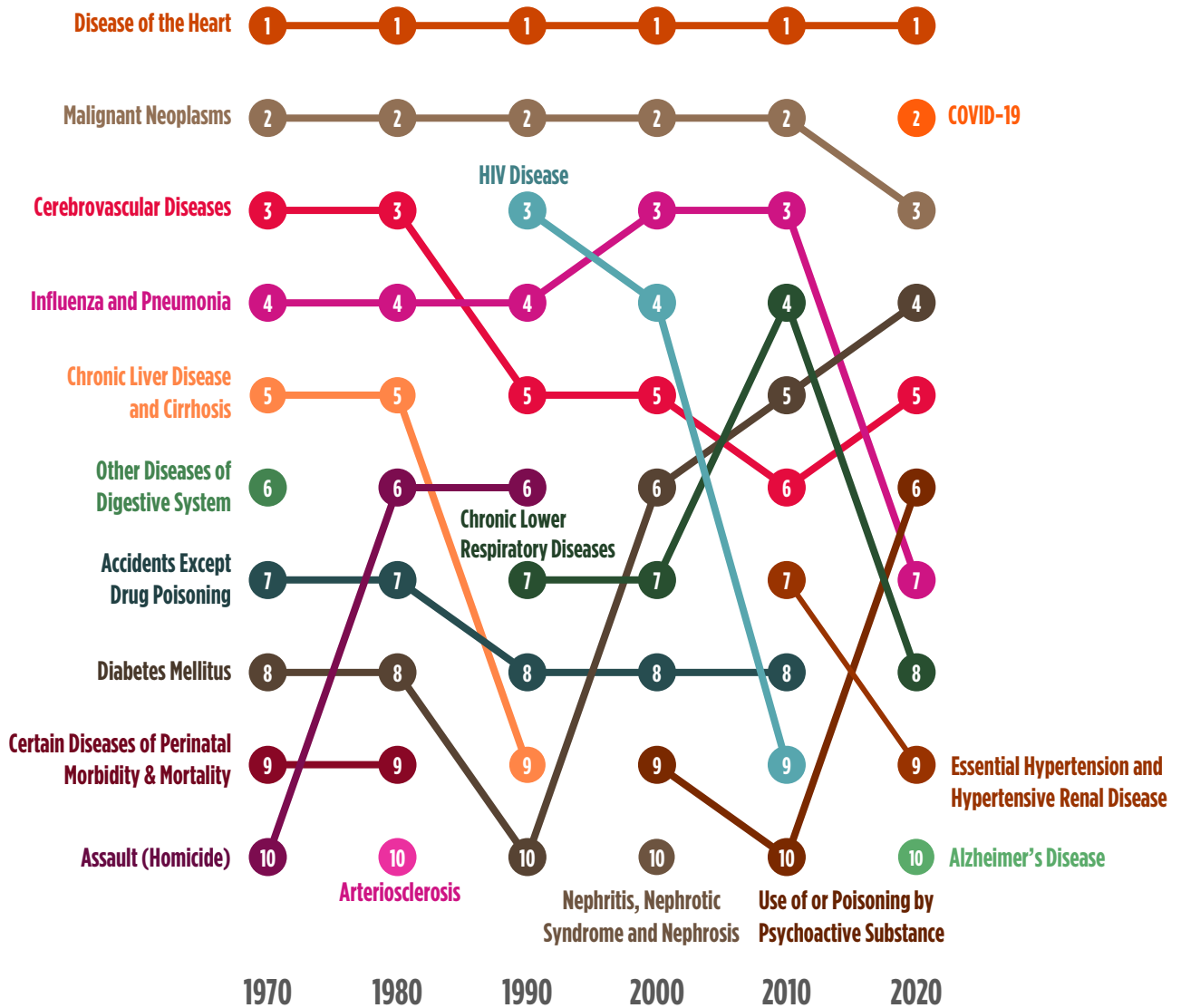
Source: Bureau of Vital Statistics, based on events occurring in 2018-2020. See the map "Community Districts and Boroughs, New York City" on page 149.

MANHATTAN		
CD	IMR	
East Harlem	MN11	5.6
Central Harlem	MN10	5.5
Midtown Business District	MN05	3.5
Washington Heights	MN12	2.8
Manhattanville	MN09	2.6
Chelsea, Clinton	MN04	2.4
Lower East Side	MN03	2.2
Upper West Side	MN07	2.0
Murray Hill	MN06	1.6
Battery Park, Tribeca	MN01	1.3
Upper East Side	MN08	0.8
Greenwich Village, SOHO	MN02	0.0
BRONX		
CD	IMR	
Williamsbridge	BX12	8.1
Morrisania	BX03	6.5
East Tremont	BX06	6.2
Pelham Parkway	BX11	6.0
Mott Haven	BX01	5.4
Concourse, Highbridge	BX04	5.3
Unionport, Soundview	BX09	4.3
Fordham	BX07	4.2
Hunts Point	BX02	4.0
University, Morris Heights	BX05	4.0
Riverdale	BX08	3.8
Throgs Neck	BX10	2.9
STATEN ISLAND		
CD	IMR	
Port Richmond	SI01	4.8
Willowbrook, South Beach	SI02	2.7
Tottenville	SI03	2.2

BROOKLYN		
CD	IMR	
East New York	BK05	6.9
Brownsville	BK16	6.2
Crown Heights South	BK09	6.1
East Flatbush	BK17	5.9
Bedford Stuyvesant	BK03	4.9
Coney Island	BK13	4.7
Canarsie	BK18	3.6
Crown Heights North	BK08	3.4
Bushwick	BK04	3.2
Bay Ridge	BK10	2.6
Sheepshead Bay	BK15	2.6
Bensonhurst	BK11	2.4
Flatbush, Midwood	BK14	2.4
Fort Greene, Brooklyn Heights	BK02	2.2
Sunset Park	BK07	2.0
Borough Park	BK12	2.0
Park Slope	BK06	1.7
Williamsburg, Greenpoint	BK01	1.2
QUEENS		
CD	IMR	
Queens Village	QN13	7.7
Jamaica, St. Albans	QN12	5.5
Bayside	QN11	5.1
The Rockaways	QN14	5.0
Woodhaven	QN09	3.9
Howard Beach	QN10	3.9
Fresh Meadows, Briarwood	QN08	3.8
Rego Park, Forest Hills	QN06	3.5
Elmhurst, Corona	QN04	3.3
Astoria, Long Island City	QN01	3.1
Ridgewood, Glendale	QN05	2.9
Flushing	QN07	2.8
Jackson Heights	QN03	2.5
Sunnyside, Woodside	QN02	2.4

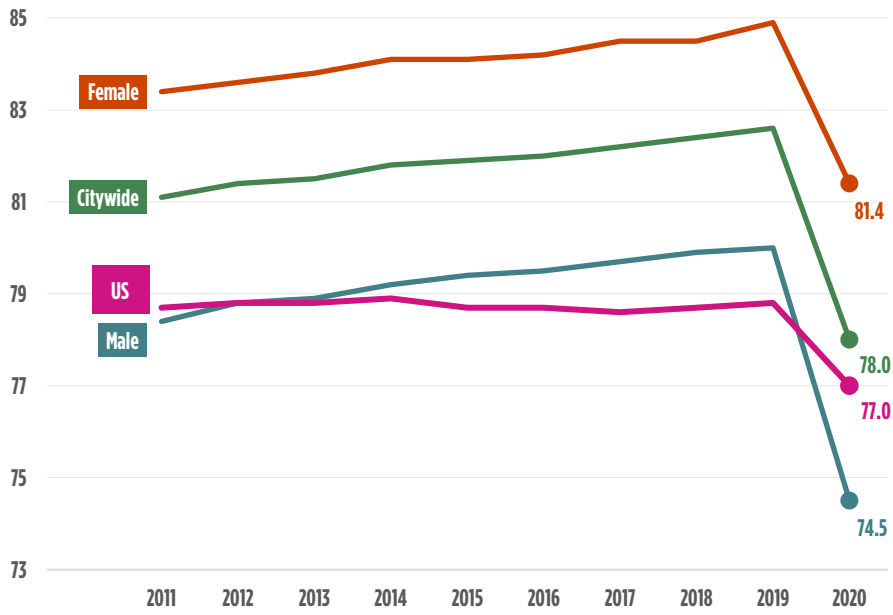
MORTALITY

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



LIFE EXPECTANCY

Figure 1. Life Expectancy at Birth, Overall and by Sex, New York City and the United States, 2011-2020*
 New York City's life expectancy at birth in 2020 was 78.0 years, decreasing by 4.6 years since 2019. The sharp decline in life expectancy from 2019 was largely due to the COVID-19 pandemic.



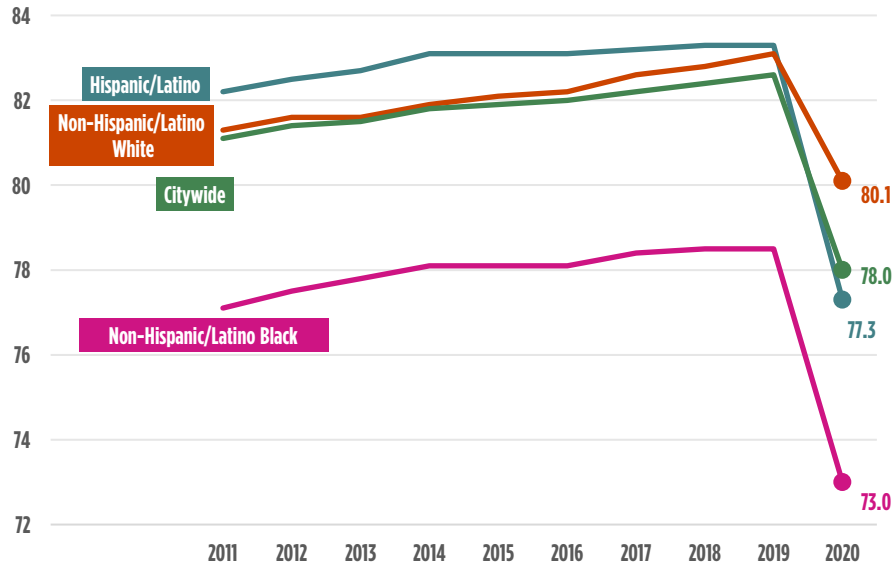
The life expectancy among **males** in New York City was 74.5 years, a 5.5-year decrease since 2019.

The life expectancy among **females** in New York City was 81.4 years, a 3.5-year decrease since 2019.

The **United States'** life expectancy at birth was 77.0 in 2020 and has been consistently lower than **New York City's** life expectancy. The disparity between the **US** and **citywide** life expectancies gradually increased between 2011 and 2019 yet decreased between 2019 and 2020.

*Life expectancies for 2011-2019 are updated based on linear interpolation of population changes between Census 2010 and Census 2020.

Figure 2. Life Expectancy at Birth by Racial/Ethnic Group, New York City, 2011-2020*
 The New York City 2020 life expectancy at birth was 77.3 years among **Hispanics/Latinos**, 80.1 years among **non-Hispanic/Latino Whites**, and 73.0 years among **non-Hispanic/Latino Blacks**. Life expectancy among **non-Hispanic/Latino Whites** exceeded **Hispanics/Latinos** for the first time in 2020.



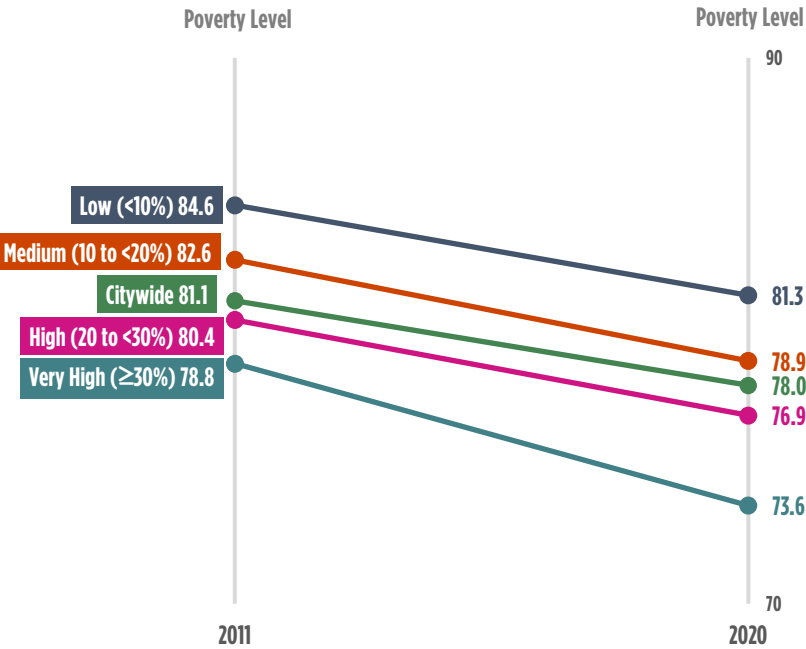
From 2019 to 2020, life expectancy decreased by 5.5 years among **non-Hispanic/Latino Blacks**, 6.0 years among **Hispanics/Latinos**, and 3.0 years among **non-Hispanic/Latino Whites**.

Life expectancy estimates for **Asians** and **Pacific Islanders** are not reported due to their statistical unreliability across the decade.

*Life expectancies for 2011-2019 are updated based on linear interpolation of population changes between Census 2010 and Census 2020.

LIFE EXPECTANCY

Figure 3. Life Expectancy at Birth by Neighborhood Poverty*, New York City, 2011 and 2020
Life expectancy decreased across all categories of neighborhood poverty between 2011 and 2020. For very high poverty areas, life expectancy decreased by 5.2 years, compared to 3.3 years for low poverty areas.



The difference in life expectancy between very high and low poverty areas in 2020 was 7.7 years, compared to 5.5 years in 2011.

*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

*Mortality data are based on NYC residents, including New York State occurrence.

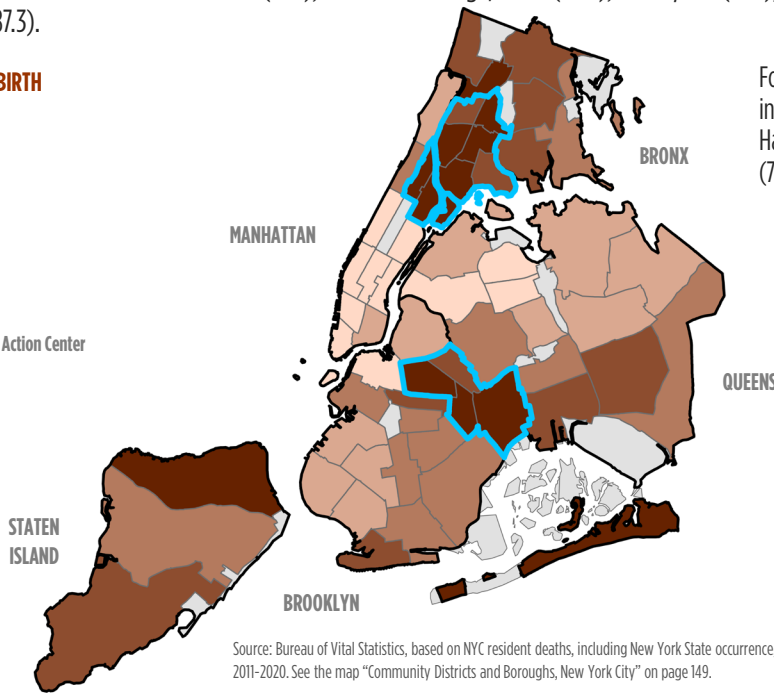
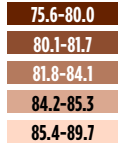
LIFE EXPECTANCY

Figure 4. Life Expectancy at Birth by Community District, New York City, 2011-2020

For 2011-2020, New York City's life expectancy at birth was highest in Sunnyside/Woodside (89.7), Chelsea/Clinton and the Midtown Business District (89.1), Greenwich Village/SOHO (88.4), Murray Hill (87.4), and the Upper East Side (87.3).

For 2011-2020, life expectancy at birth was lowest in Brownsville (75.6), the Rockaways (76.6), Central Harlem (77.0), Morrisania (77.7), and East Tremont (77.8).

LIFE EXPECTANCY AT BIRTH



Source: Bureau of Vital Statistics, based on NYC resident deaths, including New York State occurrence, 2011-2020. See the map "Community Districts and Boroughs, New York City" on page 149.

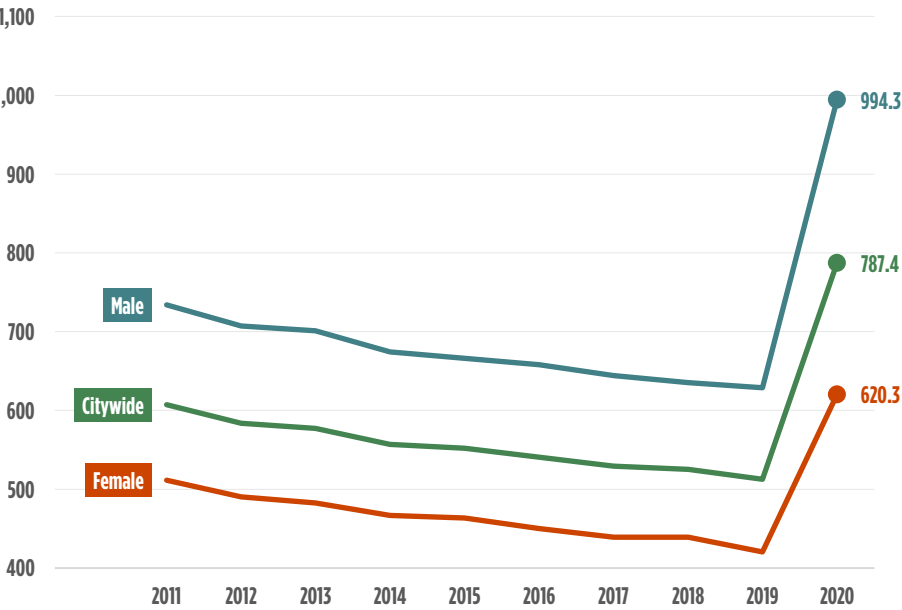
MANHATTAN		
CD	Life Expectancy	
Chelsea, Clinton	MN04	89.1
Midtown Business District	MN05	89.1
Greenwich Village, SOHO	MN02	88.4
Murray Hill	MN06	87.4
Upper East Side	MN08	87.3
Battery Park, Tribeca	MN01	86.8
Upper West Side	MN07	85.8
Washington Heights	MN12	84.6
Lower East Side	MN03	84.3
Manhattanville	MN09	82.4
East Harlem	MN11	78.3
Central Harlem	MN10	77.0
BRONX		
CD	Life Expectancy	
Throgs Neck	BX10	81.7
Riverdale	BX08	81.7
Williamsbridge	BX12	81.4
Unionport, Soundview	BX09	80.8
Pelham Parkway	BX11	80.5
University/Morris Heights	BX05	80.1
Hunts Point	BX02	80.1
Concourse, Highbridge	BX04	80.0
Fordham	BX07	79.9
Mott Haven	BX01	78.1
East Tremont	BX06	77.8
Morrisania	BX03	77.7
STATEN ISLAND		
CD	Life Expectancy	
Willowbrook, South Beach	SI02	82.2
Tottenville	SI03	81.5
Port Richmond	SI01	80.0

BROOKLYN		
CD	Life Expectancy	
Fort Greene, Brooklyn Heights	BK02	85.7
Bensonhurst	BK11	84.9
Borough Park	BK12	84.7
Bay Ridge	BK10	84.4
Sunset Park	BK07	84.1
Williamsburg, Greenpoint	BK01	84.1
Sheepshead Bay	BK15	84.1
Park Slope	BK06	83.1
Flatbush, Midwood	BK14	82.4
East Flatbush	BK17	82.2
Crown Heights South	BK09	82.0
Canarsie	BK18	81.7
Bushwick	BK04	81.6
Crown Heights North	BK08	81.0
Coney Island	BK13	80.7
Bedford Stuyvesant	BK03	79.4
East New York	BK05	78.4
Brownsville	BK16	75.6
QUEENS		
CD	Life Expectancy	
Sunnyside, Woodside	QN02	89.7
Elmhurst, Corona	QN04	86.2
Jackson Heights	QN03	85.4
Rego Park, Forest Hills	QN06	85.3
Flushing	QN07	85.2
Bayside	QN11	85.0
Fresh Meadows, Briarwood	QN08	84.9
Astoria, Long Island City	QN01	84.2
Woodhaven	QN09	83.2
Queens Village	QN13	83.0
Ridgewood, Glendale	QN05	81.9
Howard Beach	QN10	81.7
Jamaica, St. Albans	QN12	81.0
The Rockaways	QN14	76.6

CITYWIDE MORTALITY

Figure 5. Age-Adjusted Death Rates, Overall and by Sex, New York City, 2011-2020

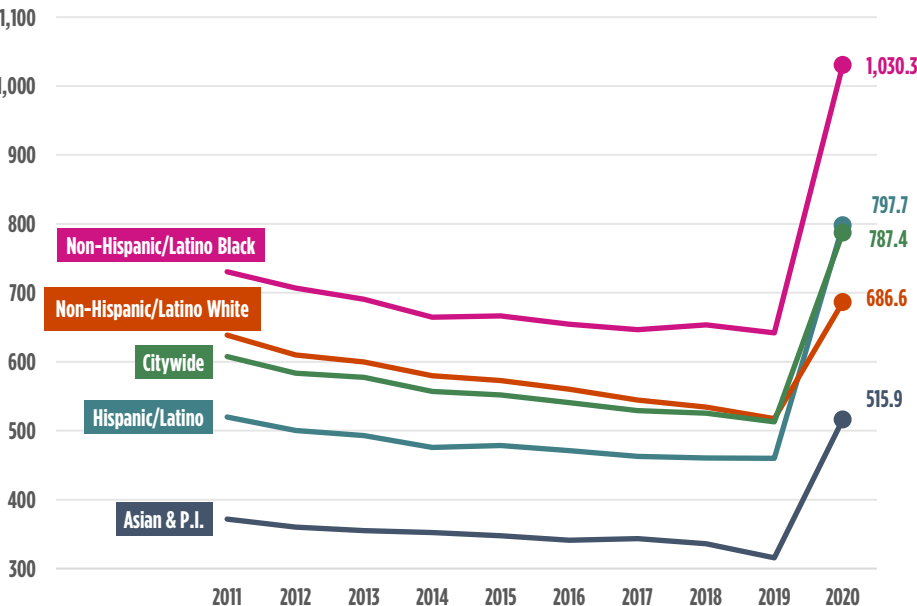
From 2011 to 2019, the citywide age-adjusted mortality rate decreased by 15.6%. The age-adjusted death rate sharply increased from 512.7 per 100,000 population in 2019, to 787.4 in 2020. This significant increase in rate was largely due to the COVID-19 pandemic.



From 2019 to 2020, age-adjusted death rates increased by 58.1% among males, and by 47.6% among females.

Figure 6. Age-Adjusted Death Rates by Racial/Ethnic Group, New York City, 2011-2020

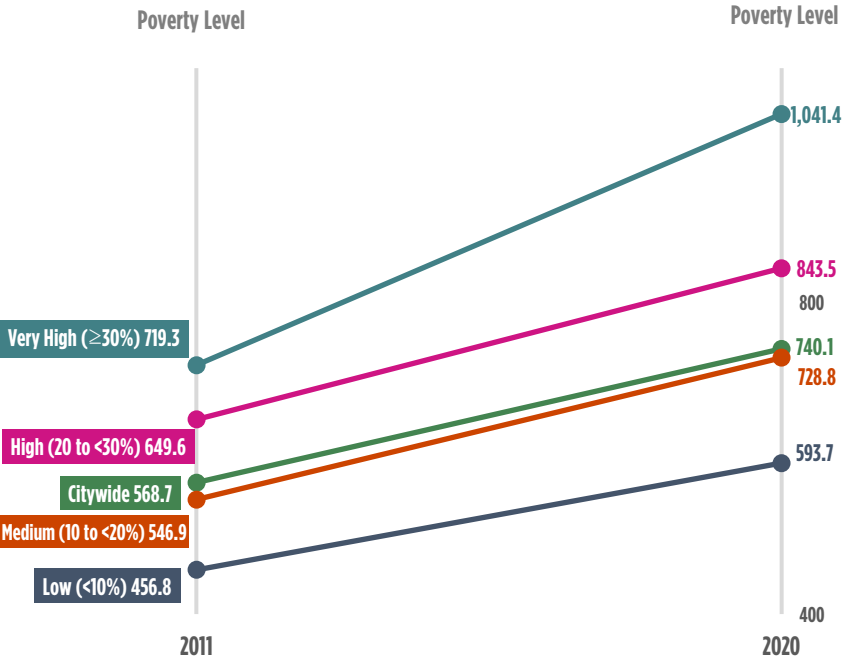
From 2019 to 2020, the age-adjusted death rate increased among Hispanics/Latinos by 73.5%, among non-Hispanic/Latino Blacks by 60.6%, among non-Hispanic/Latino Whites by 32.7%, and among Asians and Pacific Islanders by 63.5%.



In 2020, the death rate for non-Hispanic/Latino Blacks was 50.0% higher than the rate for non-Hispanic/Latino Whites. The death rate has continued to be higher among non-Hispanic/Latino Blacks compared to non-Hispanic/Latino Whites over time, and the gap has increased since 2019 (the death rate for non-Hispanic/Latino Blacks was 24.0% higher than the rate for non-Hispanic/Latino Whites in 2019). The death rate for Hispanics/Latinos exceeded non-Hispanic/Latino Whites for the first time in 2020.

CITYWIDE MORTALITY

Figure 7. Age-Adjusted Death Rates by Neighborhood Poverty*, New York City Residents, 2011 and 2020
 Since 2011, age-adjusted death rates increased across all categories of neighborhood poverty. Over that period, the rate increased by 44.8% in very high poverty areas, by 29.8% in high poverty areas, by 33.3% in medium poverty areas, and by 30.0% in low poverty areas.



The age-adjusted death rate in areas with very high poverty was 1.8 times the rate in areas with low poverty in 2020, an increase in disparity since 2011 (1.6 times the rate in 2011).

*Neighborhood poverty (based on decedent’s residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

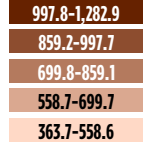
†The citywide estimate is restricted to NYC residents.

NEIGHBORHOOD MORTALITY

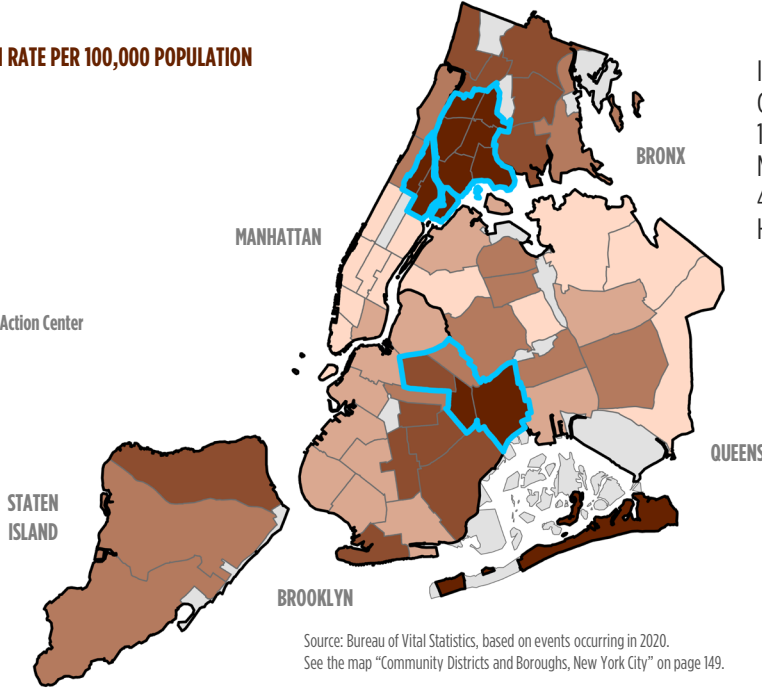
Figure 8. Age-Adjusted Death Rates by Community District of Residence, New York City, 2020

In 2020, Brownsville had the highest age-adjusted death rate, at 1,282.9 deaths per 100,000 population, followed by 1,197.5 in Morrisania, 1,196.6 in the Rockaways, 1,158.5 in Central Harlem, and 1,149.3 in East Tremont.

AGE-ADJUSTED DEATH RATE PER 100,000 POPULATION



Citywide Average: 788.8



Source: Bureau of Vital Statistics, based on events occurring in 2020.
See the map "Community Districts and Boroughs, New York City" on page 149.

In 2020, age-adjusted death rates were lowest in Greenwich Village/SOHO at 363.7 deaths per 100,000 population, followed by 375.7 in the Midtown Business District, 414.2 in Chelsea/Clinton, 418.4 in the Upper East Side, and 421.0 in Murray Hill.

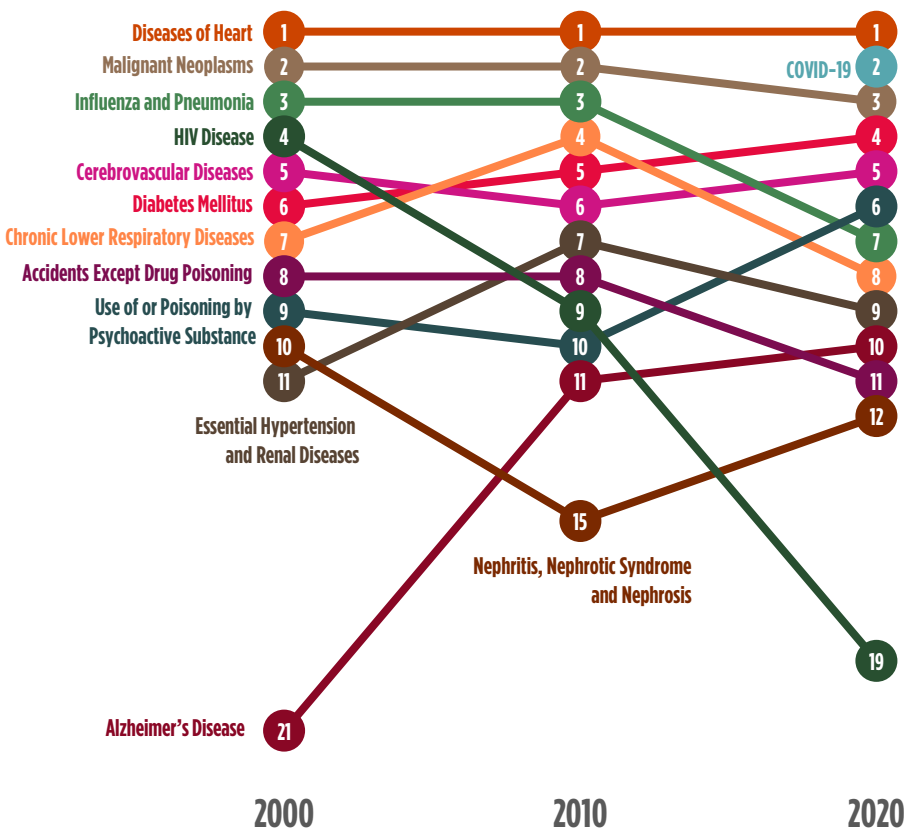
MANHATTAN		
CD	Age-adjusted Death Rates	
Central Harlem	MN10	1158.5
East Harlem	MN11	1058.2
Manhattanville	MN09	813.6
Washington Heights	MN12	759.5
Lower East Side	MN03	624.8
Upper West Side	MN07	545.5
Battery Park, Tribeca	MN01	454.5
Murray Hill	MN06	421.0
Upper East Side	MN08	418.4
Chelsea, Clinton	MN04	414.2
Midtown Business District	MN05	375.7
Greenwich Village, SOHO	MN02	363.7
BRONX		
CD	Age-adjusted Death Rates	
Morrisania	BX03	1197.5
East Tremont	BX06	1149.3
Mott Haven	BX01	1104.2
University/Morris Heights	BX05	1042.0
Concourse, Highbridge	BX04	1022.1
Hunts Point	BX02	1010.3
Fordham	BX07	997.7
Pelham Parkway	BX11	958.3
Williamsbridge	BX12	904.7
Unionport, Soundview	BX09	897.8
Riverdale	BX08	865.0
Throgs Neck	BX10	839.5
STATEN ISLAND		
CD	Age-adjusted Death Rates	
Port Richmond	SI01	900.2
Tottenville	SI03	742.6
Willowbrook, South Beach	SI02	741.5

BROOKLYN		
CD	Age-adjusted Death Rates	
Brownsville	BK16	1282.9
East New York	BK05	1082.2
Coney Island	BK13	904.9
Bedford Stuyvesant	BK03	896.5
East Flatbush	BK17	896.2
Flatbush, Midwood	BK14	871.3
Canarsie	BK18	869.8
Crown Heights South	BK09	864.2
Crown Heights North	BK08	859.1
Bushwick	BK04	802.6
Borough Park	BK12	699.7
Sunset Park	BK07	659.0
Park Slope	BK06	656.2
Sheepshead Bay	BK15	649.4
Bay Ridge	BK10	623.6
Williamsburg, Greenpoint	BK01	619.5
Bensonhurst	BK11	607.0
Fort Greene, Brooklyn Heights	BK02	606.3
QUEENS		
CD	Age-adjusted Death Rates	
The Rockaways	QN14	1196.6
Jamaica, St. Albans	QN12	851.0
Jackson Heights	QN03	750.2
Ridgewood, Glendale	QN05	717.2
Woodhaven	QN09	710.3
Elmhurst, Corona	QN04	703.9
Howard Beach	QN10	699.3
Astoria, Long Island City	QN01	640.8
Fresh Meadows, Briarwood	QN08	587.8
Queens Village	QN13	558.6
Flushing	QN07	552.3
Rego Park, Forest Hills	QN06	548.9
Sunnyside, Woodside	QN02	454.8
Bayside	QN11	430.9

LEADING CAUSES OF DEATH

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

Heart disease* and COVID-19 ranked as the top two leading causes of death in 2020.



HIV disease has dropped from the 4th leading cause in 2000, and the 9th leading cause in 2010, to the 19th in 2020.

Nephritis, nephrotic syndrome and nephrosis dropped from the 10th leading cause in 2000 to the 15th in 2010, then rose to the 12th in 2020.

Alzheimer's disease has risen from the 21st leading cause in 2000, and the 11th leading cause in 2010, to the 10th in 2020. Although this change in ranking reflects the aging of the population, increases in Alzheimer's disease observed since 2010 may be partly attributed to efforts to improve cause of death reporting.

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

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

† Appendix B Technical Notes: Drug-Related Deaths.

Table 1. Leading Causes of Death by Sex, New York City, 2020*

COVID-19 and heart disease are the leading causes of death for both males and females, with COVID-19 as the first leading cause for males and heart disease as the first leading cause for females.

Rank	Male	Female
1	COVID-19	Diseases of Heart
2	Diseases of Heart	COVID-19
3	Malignant Neoplasms	Malignant Neoplasms
4	Use of or Poisoning by Psychoactive Substance	Cerebrovascular Diseases
5	Diabetes Mellitus	Diabetes Mellitus
6	Influenza and Pneumonia	Influenza and Pneumonia
7	Cerebrovascular Diseases	Chronic Lower Respiratory Diseases
8	Chronic Lower Respiratory Diseases	Essential Hypertension and Hypertensive Renal Disease
9	Essential Hypertension and Hypertensive Renal Disease	Alzheimer's Disease
10	Accidents Except Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance

Malignant neoplasms are the 3rd leading cause of death among males and females.

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

Accidents except poisoning by psychoactive substance is a leading cause of death among males only (10th).

Alzheimer's disease is ranked as a leading cause of death among females only (9th).

*Counts and percentages for this table can be found in Table M7.

LEADING CAUSES OF DEATH

Table 2. Leading Causes of Death by Racial/Ethnic Group*, New York City, 2020†

COVID-19, heart disease, and malignant neoplasms are the top 3 leading causes of death among all racial/ethnic groups.

Rank	Puerto Rican	Hispanic/Latino not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic/Latino White	Non-Hispanic/Latino Black
1	COVID-19	COVID-19	COVID-19	Diseases of Heart	Diseases of Heart
2	Diseases of Heart	Diseases of Heart	Diseases of Heart	COVID-19	COVID-19
3	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms	Malignant Neoplasms
4	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance	Influenza and Pneumonia	Chronic Lower Respiratory Diseases	Diabetes Mellitus
5	Diabetes Mellitus	Cerebrovascular Diseases	Cerebrovascular Diseases	Influenza and Pneumonia	Cerebrovascular Diseases
6	Influenza and Pneumonia	Diabetes Mellitus	Diabetes Mellitus	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance
7	Cerebrovascular Diseases	Influenza and Pneumonia	Essential Hypertension and Hypertensive Renal Disease	Cerebrovascular Diseases	Essential Hypertension and Hypertensive Renal Disease
8	Chronic Lower Respiratory Diseases	Essential Hypertension and Hypertensive Renal Disease	Chronic Lower Respiratory Diseases	Alzheimer's Disease	Influenza and Pneumonia
9	Essential Hypertension and Hypertensive Renal Disease	Accidents Except Poisoning by Psychoactive Substance	Alzheimer's Disease	Diabetes Mellitus	Chronic Lower Respiratory Diseases
10	Alzheimer's Disease	Chronic Liver Disease and Cirrhosis	Accidents Except Poisoning by Psychoactive Substance	Essential Hypertension and Hypertensive Renal Disease	Assault (Homicide)

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

Diabetes mellitus is among the top 10 leading causes in all racial/ethnic groups. It ranks 5th among Puerto Ricans, 6th among Hispanics/Latinos not of Puerto Rican ancestry and Asians and Pacific Islanders, 9th among non-Hispanic/Latino Whites, and 4th among non-Hispanic/Latino Blacks.

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

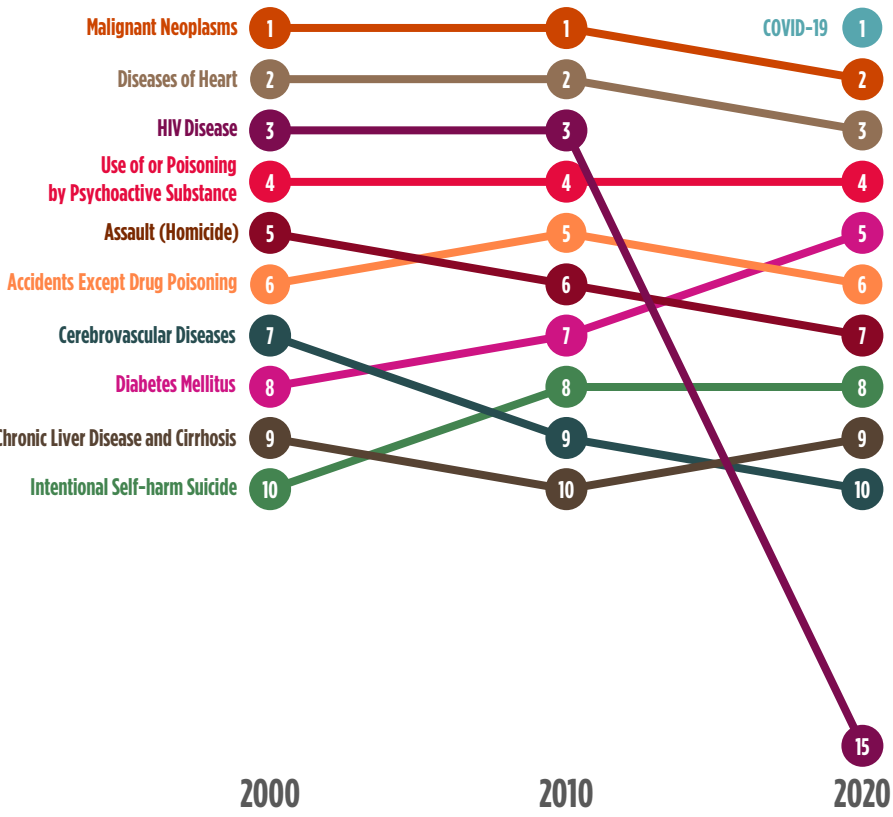
Alzheimer's disease ranks 10th among Puerto Ricans, 9th among Asians and Pacific Islanders, and 8th among non-Hispanic/Latino Whites.

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

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

PREMATURE DEATH

Figure 10. Leading Causes of Premature Death (Age <65 Years), New York City, 2000, 2010, and 2020
COVID-19 and **malignant neoplasms (cancer)** ranked as the top two leading causes of premature death in 2020.



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

Assault (homicide) has also dropped in ranking from the 5th leading cause of premature death in 2000, and the 6th leading cause in 2010, to the 7th in 2020.

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

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

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

† Appendix B Technical Notes: Drug-Related Deaths.

Table 3. Leading Causes of Premature Death (Age <65 Years) by Sex, New York City, 2020*
COVID-19 was the 1st leading cause of premature death for males in 2020, and **malignant neoplasms** was the 1st leading cause of premature death for females.

Rank	Male	Female
1	COVID-19	Malignant Neoplasms
2	Diseases of Heart	COVID-19
3	Malignant Neoplasms	Diseases of Heart
4	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance
5	Assault (Homicide)	Diabetes Mellitus
6	Diabetes Mellitus	Chronic Lower Respiratory Diseases
7	Accidents Except Poisoning by Psychoactive Substance	Cerebrovascular Diseases
8	Intentional Self-harm (Suicide)	Influenza and Pneumonia
9	Chronic Liver Disease and Cirrhosis	Accidents Except Poisoning by Psychoactive Substance
10	Influenza and Pneumonia	Chronic Liver Disease and Cirrhosis

Use of or poisoning by psychoactive substance is the 4th leading cause of premature death among both males and females.

Assault (homicide) and intentional self-harm (suicide) are leading causes of premature death among males only (5th and 8th, respectively). Chronic lower respiratory diseases and cerebrovascular diseases ranked as leading causes among females only (6th and 7th, respectively).

*Counts and percentages for this table can be found in Table M9.

PREMATURE DEATH

Table 4. Leading Causes of Premature Death (Age <65 Years) by Racial/Ethnic Group*, New York City, 2020†
 COVID-19, heart disease, and malignant neoplasms are the top 3 leading causes of premature death among all racial/ethnic groups.

Rank	Puerto Rican	Hispanic/Latino not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic/Latino White	Non-Hispanic/Latino Black
1	COVID-19	COVID-19	COVID-19	Malignant Neoplasms	COVID-19
2	Diseases of Heart	Malignant Neoplasms	Malignant Neoplasms	Diseases of Heart	Diseases of Heart
3	Malignant Neoplasms	Diseases of Heart	Diseases of Heart	COVID-19	Malignant Neoplasms
4	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance	Intentional Self-harm (Suicide)	Use of or Poisoning by Psychoactive Substance	Use of or Poisoning by Psychoactive Substance
5	Diabetes Mellitus	Chronic Liver Disease and Cirrhosis	Diabetes Mellitus	Intentional Self-harm (Suicide)	Assault (Homicide)
6	Accidents Except Poisoning by Psychoactive Substance	Accidents Except Poisoning by Psychoactive Substance	Cerebrovascular Diseases	Diabetes Mellitus	Diabetes Mellitus
7	Chronic Lower Respiratory Diseases	Diabetes Mellitus	Use of or Poisoning by Psychoactive Substance	Chronic Liver Disease and Cirrhosis	Accidents Except Poisoning by Psychoactive Substance
8	Chronic Liver Disease and Cirrhosis	Assault (Homicide)	Accidents Except Poisoning by Psychoactive Substance	Accidents Except Poisoning by Psychoactive Substance	Cerebrovascular Diseases
9	Influenza and Pneumonia	Mental Disorders Due to Use of Alcohol	Influenza and Pneumonia	Mental Disorders Due to Use of Alcohol	Chronic Lower Respiratory Diseases
10	Human Immunodeficiency Virus (HIV) Disease	Cerebrovascular Diseases	Chronic Liver Disease and Cirrhosis	Influenza and Pneumonia	Influenza and Pneumonia

Use of or poisoning by psychoactive substance is the 4th leading cause of premature death for all racial/ethnic groups except for Asians and Pacific Islanders, for whom it is the 7th leading cause.

Mental disorders due to use of alcohol is a leading cause of premature death among Hispanics/Latinos not of Puerto Rican ancestry and non-Hispanic/Latino Whites (9th). It is not ranked as a leading cause of premature death among Puerto Ricans, Asians and Pacific Islanders, and non-Hispanic/Latino Blacks.

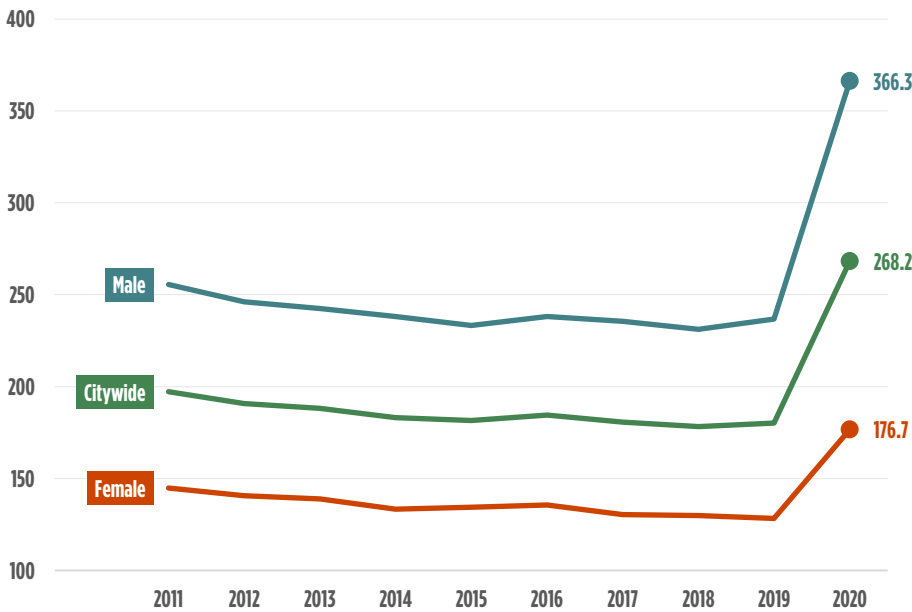
Human immunodeficiency virus (HIV) disease is a leading cause of premature death among Puerto Ricans only (10th).

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

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

PREMATURE DEATH

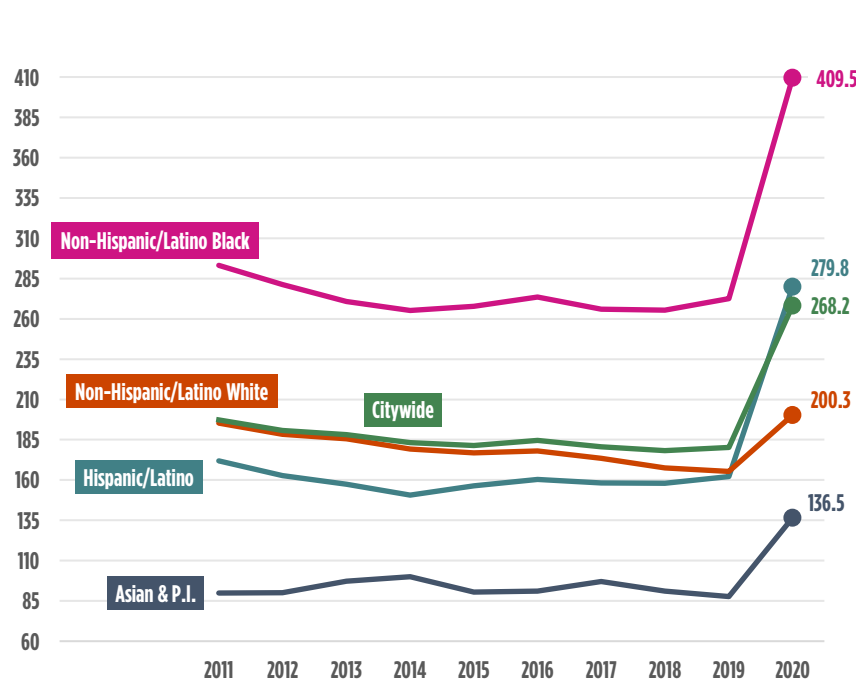
Figure 11. Age-Adjusted Premature Death (Age <65 Years) Rates, Overall and by Sex, New York City, 2011–2020
 New York City's age-adjusted premature death rate (age <65 years) decreased by 8.6% from 2011 to 2019. In contrast, the citywide age-adjusted premature death rate increased by 48.8% from 2019 (180.2 per 100,000 population) to 2020 (268.2 per 100,000 population).



The sharp increase in the premature death rate was mainly due to the 49.6% increase in deaths, primarily COVID-19 deaths, among those under the age of 65, from 2019 to 2020.

The age-adjusted premature death rate for females has been consistently lower than the rate for males.

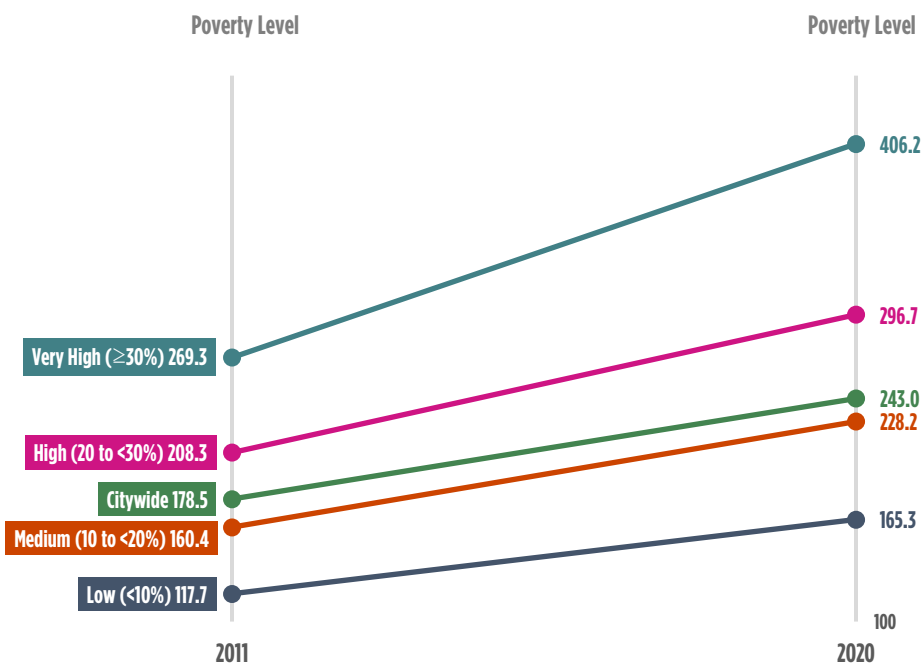
Figure 12. Age-Adjusted Premature Death (Age <65 Years) Rates by Racial/Ethnic Group, New York City, 2011–2020
 From 2019 to 2020, the age-adjusted premature mortality rate increased among Hispanics/Latinos by 72.5%, among non-Hispanic/Latino Blacks by 50.3%, among non-Hispanic/Latino Whites by 21.1%, and among Asians and Pacific Islanders by 55.5%.



Non-Hispanic/Latino Blacks had the highest age-adjusted premature death rate (104.4% higher than non-Hispanic/Latino Whites). Non-Hispanic/Latino Blacks and Hispanics/Latinos had rates above the citywide average.

PREMATURE DEATH

Figure 13. Age-Adjusted Premature Death (Age <65 Years) Rates by Neighborhood Poverty**†, New York City Residents, 2011 and 2020
 Between 2011 and 2020, the age-adjusted premature mortality rate increased across all neighborhood poverty categories.



Over that time, the rate increased by 40.4% in low poverty neighborhoods, by 42.3% in **medium** poverty neighborhoods, by 42.4% in **high** poverty neighborhoods, and by 50.8% in **very high** poverty neighborhoods.

The gap between **very high** and low poverty neighborhoods remains pronounced. **Very high** poverty neighborhoods experienced an age-adjusted premature mortality rate that was 2.5 times that of low poverty neighborhoods in 2020, a slight increase in disparity from 2019 (2.4 in 2019).

*Neighborhood poverty (based on decedent's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

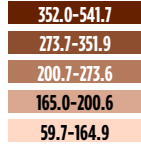
†The citywide estimate is restricted to NYC residents.

PREMATURE DEATH

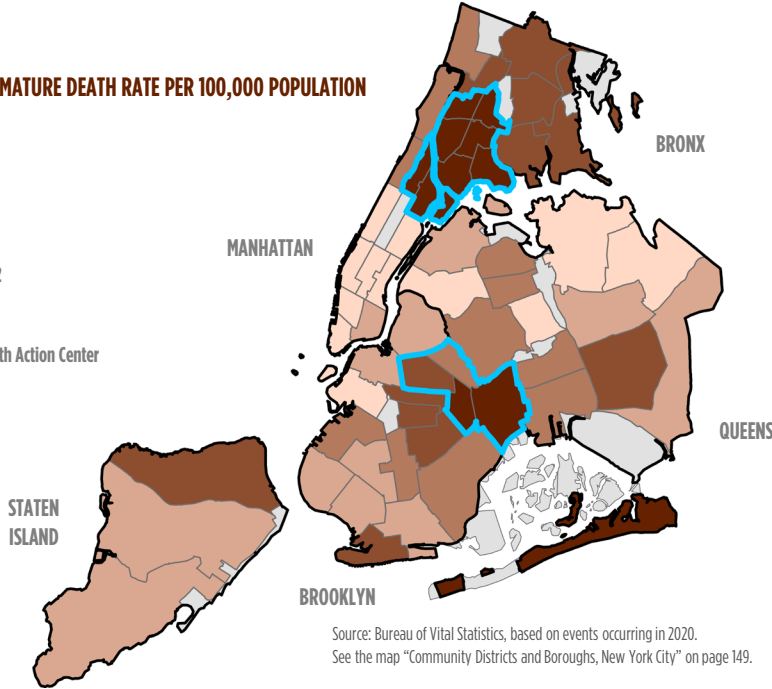
Figure 14. Age-Adjusted Premature Death (Age <65 Years) Rates by Community District of Residence, New York City, 2020

In 2020, New York City age-adjusted premature death rates were highest in Brownsville at 541.7 deaths per 100,000 population, followed by 525.5 in Morrisania, 503.1 in East Tremont, 502.0 in Mott Haven, and 434.2 in East Harlem.

AGE-ADJUSTED PREMATURE DEATH RATE PER 100,000 POPULATION



Citywide Average: 267.2



Source: Bureau of Vital Statistics, based on events occurring in 2020.
See the map "Community Districts and Boroughs, New York City" on page 149.

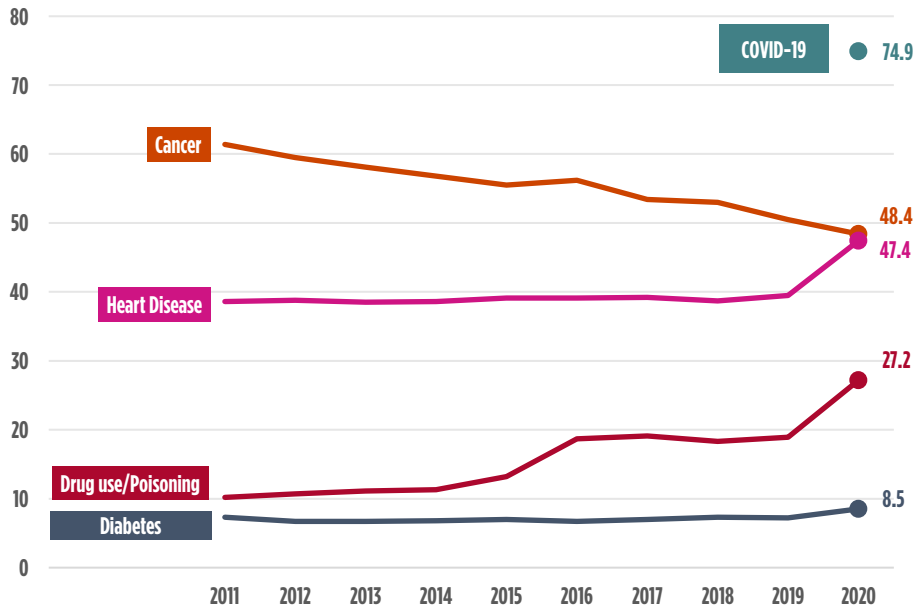
In 2020, age-adjusted premature death rates were lowest in Greenwich Village/SOHO at 59.7 deaths per 100,000 population, followed by 87.7 in the Upper East Side, 99.9 in Murray Hill, 103.0 in the Midtown Business District, and 103.7 in Battery Park/Tribeca.

MANHATTAN			BROOKLYN		
CD	Premature Death Rates		CD	Premature Death Rates	
East Harlem	MN11	434.2	Brownsville	BK16	541.7
Central Harlem	MN10	377.0	East New York	BK05	421.4
Manhattanville	MN09	239.5	Bedford Stuyvesant	BK03	351.9
Washington Heights	MN12	211.7	East Flatbush	BK17	340.6
Lower East Side	MN03	188.7	Crown Heights North	BK08	326.4
Upper West Side	MN07	139.9	Coney Island	BK13	290.1
Chelsea, Clinton	MN04	124.6	Crown Heights South	BK09	284.0
Battery Park, Tribeca	MN01	103.7	Bushwick	BK04	273.6
Midtown Business District	MN05	103.0	Flatbush, Midwood	BK14	258.9
Murray Hill	MN06	99.9	Canarsie	BK18	250.0
Upper East Side	MN08	87.7	Sunset Park	BK07	221.0
Greenwich Village, SOHO	MN02	59.7	Fort Greene, Brooklyn Heights	BK02	187.1
BRONX			QUEENS		
CD	Premature Death Rates		CD	Premature Death Rates	
Morrisania	BX03	525.5	The Rockaways	QN14	414.7
East Tremont	BX06	503.1	Jamaica, St. Albans	QN12	310.1
Mott Haven	BX01	502.0	Jackson Heights	QN03	272.6
Hunts Point	BX02	424.7	Woodhaven	QN09	253.6
University, Morris Heights	BX05	379.8	Elmhurst, Corona	QN04	243.2
Concourse, Highbridge	BX04	356.5	Howard Beach	QN10	238.0
Unionport, Soundview	BX09	338.2	Ridgewood, Glendale	QN05	217.7
Fordham	BX07	323.1	Astoria, Long Island City	QN01	200.6
Pelham Parkway	BX11	321.3	Queens Village	QN13	176.7
Williamsbridge	BX12	320.0	Fresh Meadows, Briarwood	QN08	176.3
Throgs Neck	BX10	288.8	Flushing	QN07	159.9
Riverdale	BX08	232.5	Rego Park, Forest Hills	QN06	136.3
STATEN ISLAND					
CD	Premature Death Rates		CD	Premature Death Rates	
Port Richmond	SI01	298.5	Sunnyside, Woodside	QN02	133.9
Willowbrook, South Beach	SI02	197.1	Bayside	QN11	113.8
Tottenville	SI03	184.4			

PREMATURE DEATH

Figure 15. Leading Causes of Premature Death (Age <65 Years), New York City, 2011–2020

In 2020, COVID-19 had the highest premature death rate at 74.9 deaths per 100,000 population. Over the past ten years, the death rate for cancer declined by 21.2%.



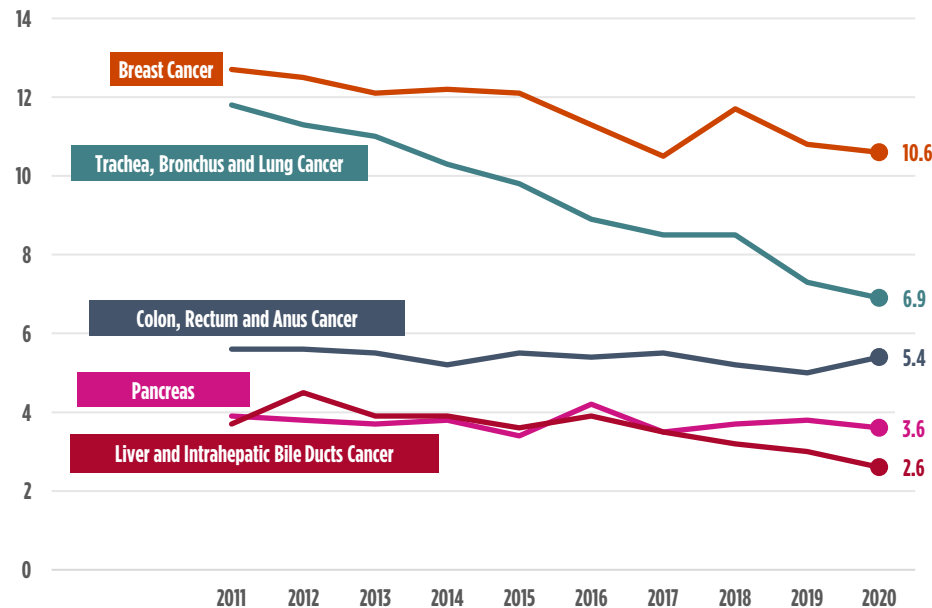
Heart disease, use of or poisoning by psychoactive substance, and diabetes accounted for the 3rd, 4th and 5th leading causes of premature death, respectively, in 2020.

The rate of premature drug-related deaths (use of or poisoning by psychoactive substance) increased by 43.9% from 2019 to 2020 and increased by 166.7% since 2011.

The rate of diabetes deaths increased by 16.4% since 2011 and by 18.1% since 2019.

Figure 16. Leading Causes of Premature Cancer Deaths (Age <65 Years), New York City, 2011–2020

Breast (female) and lung cancer death rates were the highest in New York City, at 10.6 and 6.9 deaths per 100,000 population, respectively.

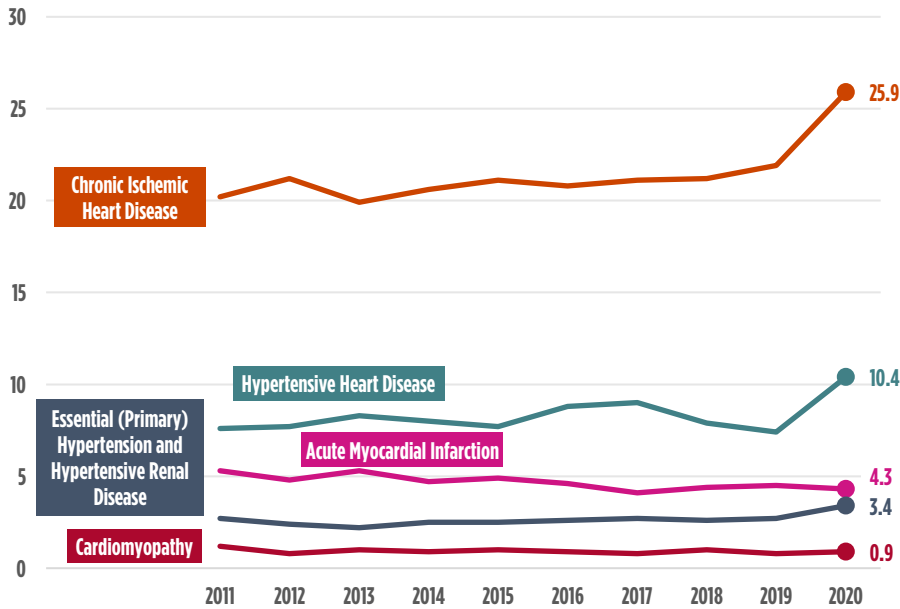


Breast (female) cancer and lung cancer death rates declined by 16.5% and 41.5%, respectively, since 2011. The breast (female) cancer rate declined by 1.9% from 2019 to 2020, and the lung cancer rate declined by 5.5% from 2019 to 2020.

Colon, pancreas, and liver cancers account for the 3rd, 4th, and 5th highest rates of cancer deaths, at 5.4, 3.6, and 2.6 deaths per 100,000 population, respectively. Death rates for these cancers have declined since 2011.

PREMATURE DEATH

Figure 17. Leading Causes of Premature Heart Disease Deaths (Age <65 Years), New York City, 2011–2020
 The crude rate of the leading cause of premature heart disease deaths, **chronic ischemic heart disease**, has increased by 28.2% since 2011.

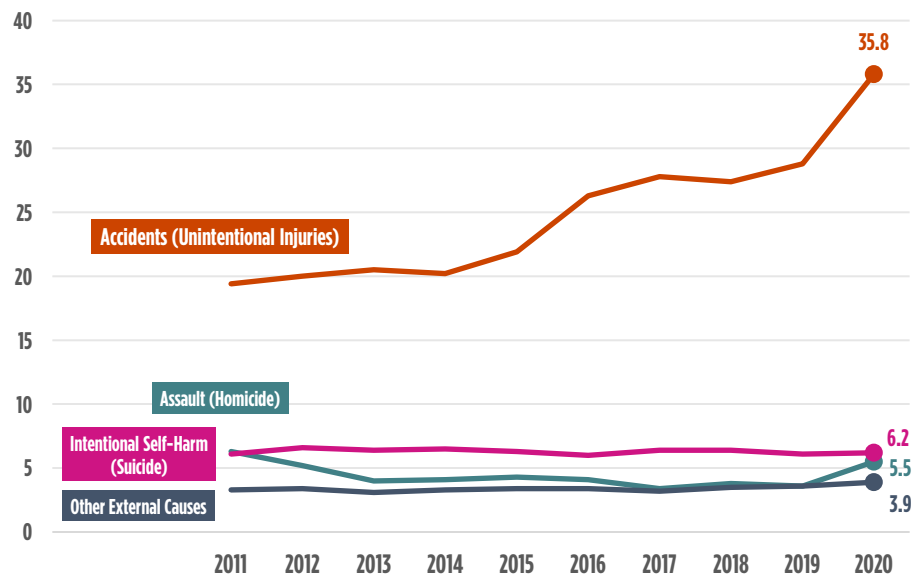


Since 2011, **hypertensive heart disease** increased by 36.8%, and **essential hypertension and hypertensive renal disease** increased by 25.9%, while **acute myocardial infarction** decreased by 18.9%, and **cardiomyopathy** decreased by 25.0%.

EXTERNAL CAUSES OF DEATH

Figure 18. Crude Death Rates for External Causes of Death*, New York City, 2011–2020

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



In 2020, the accident death rate exceeded the rate from ten years ago (35.8 per 100,000 population in 2020 vs. 19.4 per 100,000 population in 2011), primarily due to the increase of drug-related deaths.

The rate of deaths due to **assault (homicide)** declined over the past ten years by 12.7%.

The **suicide** rate has risen slightly over the past ten years from 6.1 per 100,000 population in 2011, to 6.2 per 100,000 population in 2020.

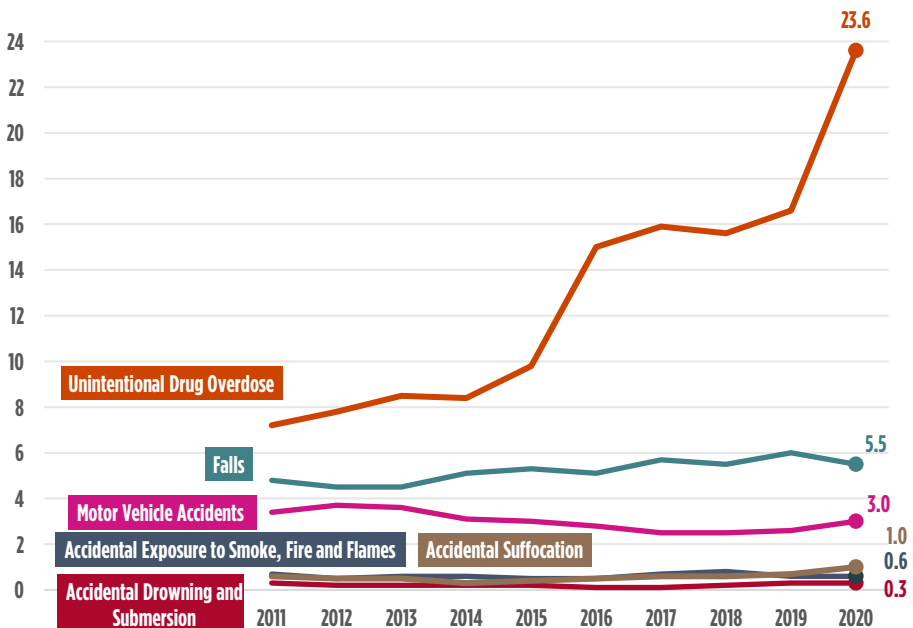
The death rate due to all other external causes combined was higher in 2020 (3.9 per 100,000 population) compared to ten years ago (3.3 per 100,000 population)†.

* Appendix B. Technical Notes: Deaths, Cause of Death International Classification of Disease (ICD) Coding.

† Other external causes include medical and/or surgical care complications and deaths due to undetermined intent.

Figure 19. Crude Death Rates for Selected Accidental Causes of Death, New York City, 2011–2020

The **unintentional drug overdose*** rate increased by 42.2% from 2019 (16.6 per 100,000 population in 2019 vs. 23.6 per 100,000 population in 2020), and by 227.8% from 2011 (7.2 per 100,000 population in 2011).



Unintentional drug overdose exceeds all other causes, with a crude rate in 2020 that was 7.9 times that of **motor vehicle accidents**, and 4.3 times that of **fall-related** deaths.

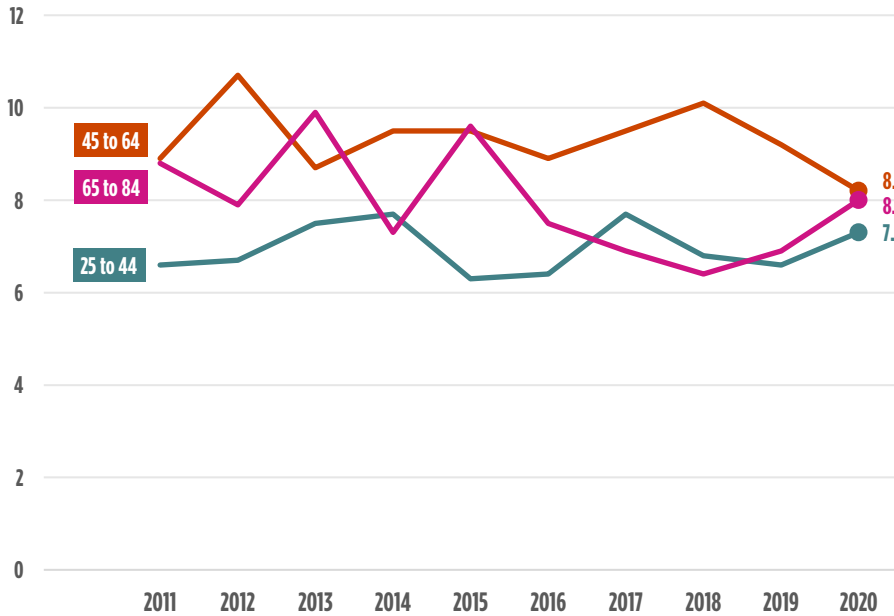
The crude death rate due to **motor vehicle accidents** declined over the past ten years, from 3.4 deaths per 100,000 population in 2011, to 3.0 per 100,000 population in 2020, a decrease of 11.8%. The **falls-related** crude death rate has increased by 14.6% since 2011 (5.5 per 100,000 population in 2020 vs. 4.8 per 100,000 population in 2011).

Death rates due to **accidental suffocation** increased over the past ten years by 66.7% and death rates due to accidental exposure to smoke, fire, and flames decreased by 14.3%. The death rate due to **accidental drowning and submersion** in 2020 was the same as it was in 2011.

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

EXTERNAL CAUSES OF DEATH

Figure 20. Age-Specific Suicide Death Rates, New York City, 2011–2020
Death rates due to suicide were highest among the age group 45 to 64, at 8.2 deaths per 100,000 population in 2020.

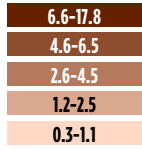


The rate of suicide deaths among adults aged 65-84 was 8.0 per 100,000 population in 2020, 9.1% lower than the rate in 2011. Compared to 2011, rates increased by 10.6% among the age group 25-44, and decreased by 7.9% among the age group 45-64.

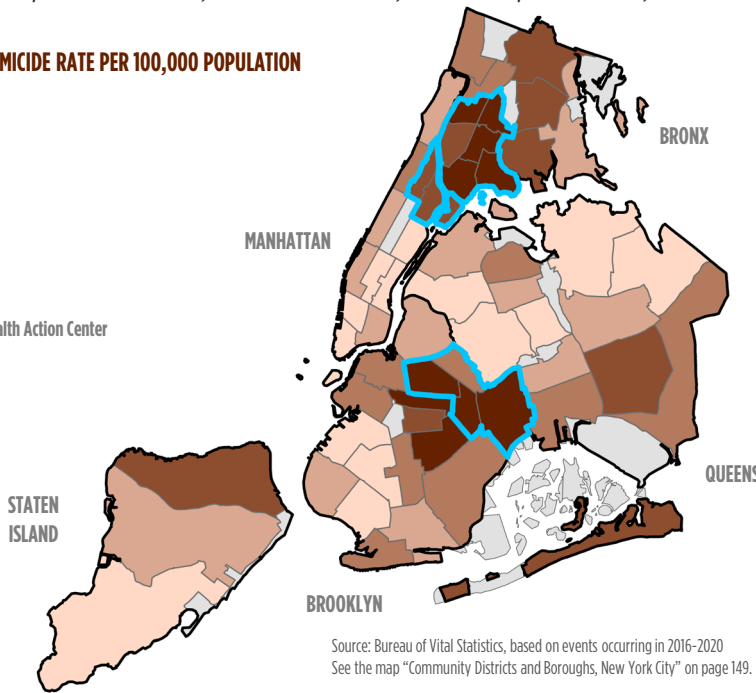
EXTERNAL CAUSES OF DEATH

Figure 21. Age-Adjusted Homicide Death Rates (Five-Year Averages) by Community District of Residence, New York City, 2016-2020
 The five-year average age-adjusted homicide rate was highest in Brownsville with 17.8 deaths per 100,000 population, followed by Morrisania at 11.5, East Tremont at 10.9, Bedford Stuyvesant at 9.8, and East New York at 9.7.

AGE-ADJUSTED HOMICIDE RATE PER 100,000 POPULATION



Citywide Average: 4.1



Source: Bureau of Vital Statistics, based on events occurring in 2016-2020
 See the map "Community Districts and Boroughs, New York City" on page 149.

In ten community districts, five-year average rates were less than 1.0 per 100,000 population: Battery Park/Tribeca, Greenwich Village/SOHO, Midtown Business District, Murray Hill, Upper East Side, Bensonhurst, Borough Park, Ridgewood/Glendale, Rego Park/Forest Hills, and Bayside.

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

MANHATTAN		
CD		Homicide Death Rates
Central Harlem	MN10	6.5
East Harlem	MN11	5.9
Manhattanville	MN09	3.4
Washington Heights	MN12	2.5
Lower East Side	MN03	2.1
Upper West Side	MN07	1.6
Chelsea, Clinton	MN04	1.3
Battery Park, Tribeca	MN01	0.8
Greenwich Village, SOHO	MN02	0.8
Upper East Side	MN08	0.6
Murray Hill	MN06	0.4
Midtown Business District	MN05	0.3

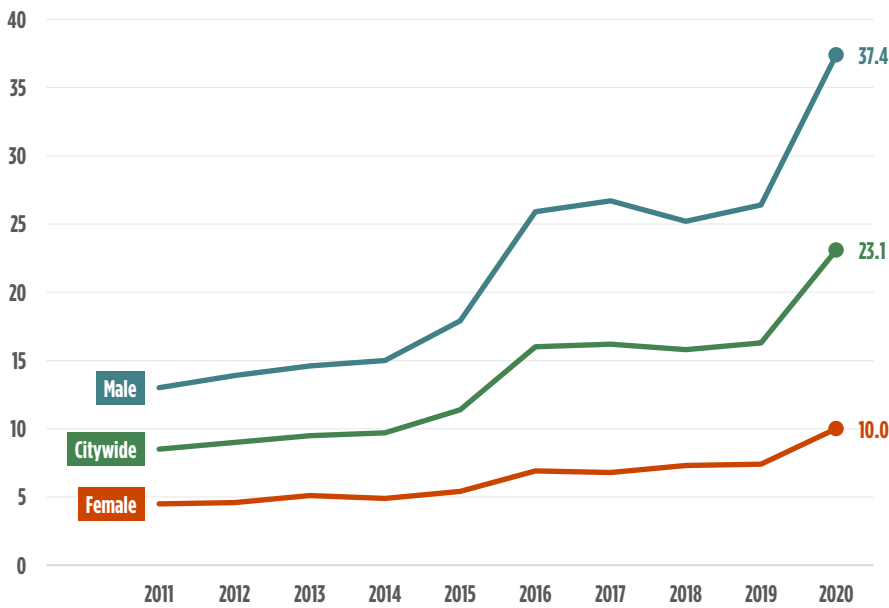
BRONX		
CD		Homicide Death Rates
Morrisania	BX03	11.5
East Tremont	BX06	10.9
Mott Haven	BX01	8.9
University, Morris Heights	BX05	7.0
Hunts Point	BX02	6.7
Unionport, Soundview	BX09	6.4
Concourse, Highbridge	BX04	6.2
Williamsbridge	BX12	5.7
Pelham Parkway	BX11	4.6
Fordham	BX07	4.3
Riverdale	BX08	2.7
Throgs Neck	BX10	1.9

STATEN ISLAND		
CD		Homicide Death Rates
Port Richmond	SI01	5.1
Willowbrook, South Beach	SI02	2.3
Tottenville	SI03	1.1

BROOKLYN		
CD		Homicide Death Rates
Brownsville	BK16	17.8
Bedford Stuyvesant	BK03	9.8
East New York	BK05	9.7
Crown Heights North	BK08	8.1
East Flatbush	BK17	7.9
Crown Heights South	BK09	5.2
Bushwick	BK04	4.5
Canarsie	BK18	4.5
Coney Island	BK13	4.4
Flatbush, Midwood	BK14	4.0
Fort Greene, Brooklyn Heights	BK02	3.2
Park Slope	BK06	3.0
Sheepshead Bay	BK15	2.1
Williamsburg, Greenpoint	BK01	1.9
Bay Ridge	BK10	1.6
Sunset Park	BK07	1.0
Bensonhurst	BK11	0.9
Borough Park	BK12	0.5

QUEENS		
CD		Homicide Death Rates
The Rockaways	QN14	6.3
Jamaica, St. Albans	QN12	5.9
Howard Beach	QN10	3.5
Queens Village	QN13	3.5
Jackson Heights	QN03	3.0
Woodhaven	QN09	2.5
Astoria, Long Island City	QN01	2.1
Fresh Meadows, Briarwood	QN08	2.1
Elmhurst, Corona	QN04	1.7
Sunnyside, Woodside	QN02	1.1
Flushing	QN07	1.1
Ridgewood, Glendale	QN05	0.9
Rego Park, Forest Hills	QN06	0.5
Bayside	QN11	0.5

Figure S1. Age-Adjusted Drug-related Death Rates, Overall and by Sex, New York City, 2011-2020



This special section focuses on **drug-related** (use of or poisoning by psychoactive substance) deaths, which include deaths due to chronic substance use and drug overdose. All manners of death are included in drug-related deaths. The National Center for Health Statistics uses this definition for categorizing the leading causes of death.

Unintentional drug overdose deaths accounted for 95.4% of drug-related deaths in 2020. The crude mortality rate for unintentional drug overdose has risen by 42.2% since 2019.

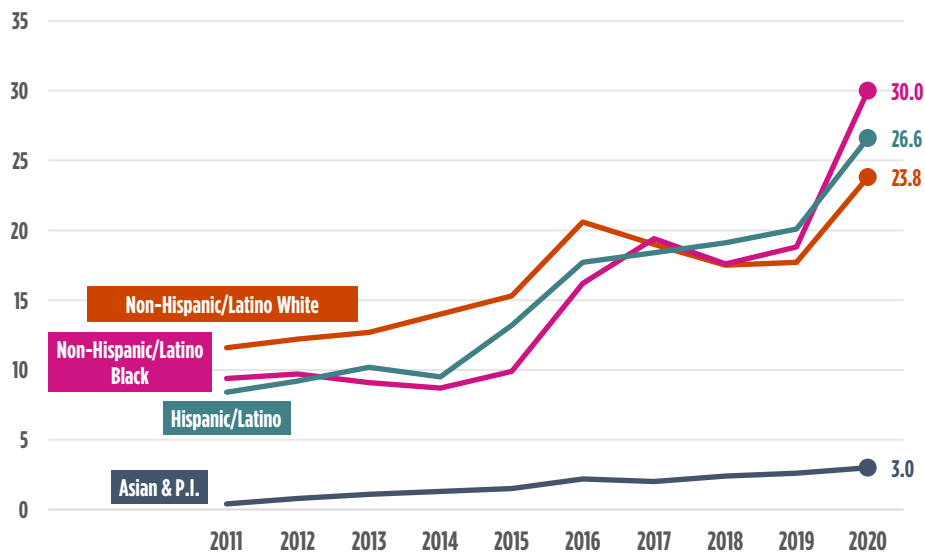
The age-adjusted drug-related death rate was 23.1 per 100,000 population in 2020, a 41.7% increase since 2019, and a 171.8% increase since 2011.

The age-adjusted drug-related death rate for **males** increased to 37.4 per 100,000 population in 2020, a 41.7% increase since 2019, and a 187.7% increase since 2011. The age-adjusted drug-related death rate for **females** increased to 10.0 per 100,000 population in 2020, a 35.1% increase since 2019 and a 122.2% increase since 2011.

DRUG-RELATED MORTALITY

Figure S2. Age-Adjusted Drug-related Death Rates by Racial/Ethnic Group, New York City, 2011-2020

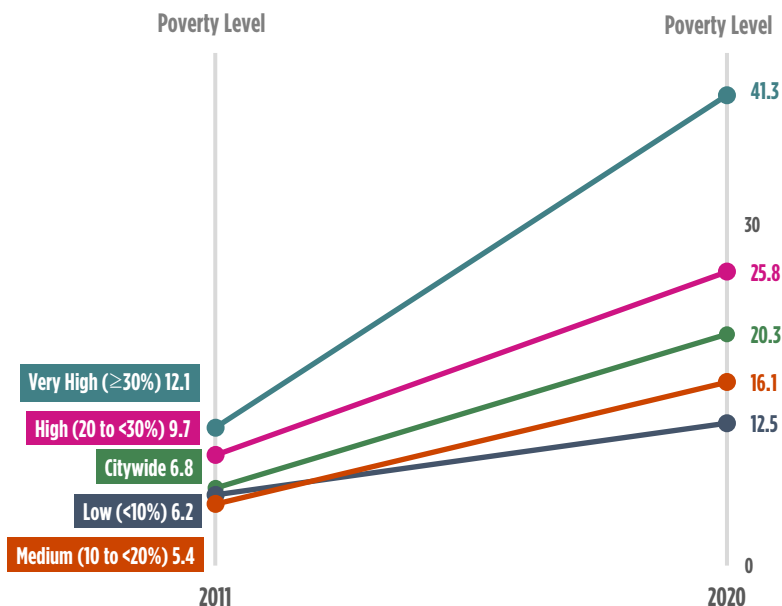
Between 2011 and 2020, age-adjusted drug-related death rates increased by 219.1% among **non-Hispanic/Latino Blacks**, by 216.7% among **Hispanics/Latinos**, by 105.2% among **non-Hispanic/Latino Whites**, and by 650.0% among **Asians and Pacific Islanders**.



In 2020, the drug-related death rate among **non-Hispanic/Latino Blacks** was 1.3 times the rate for **non-Hispanic/Latino Whites**, a change from 2019, in which the death rate for **non-Hispanic/Latino Blacks** was 1.1 times the rate for **non-Hispanic/Latino Whites**.

Figure S3. Age-Adjusted Drug-related Death Rates by Neighborhood Poverty**, New York City, 2011 and 2020

Since 2011, age-adjusted drug-related death rates increased across all categories of neighborhood poverty. Over that period, the rate increased by 241.3% in **very high poverty** areas, by 166.0% in **high poverty** areas, by 198.1% in **medium poverty** areas, and by 101.6% in **low poverty** areas.



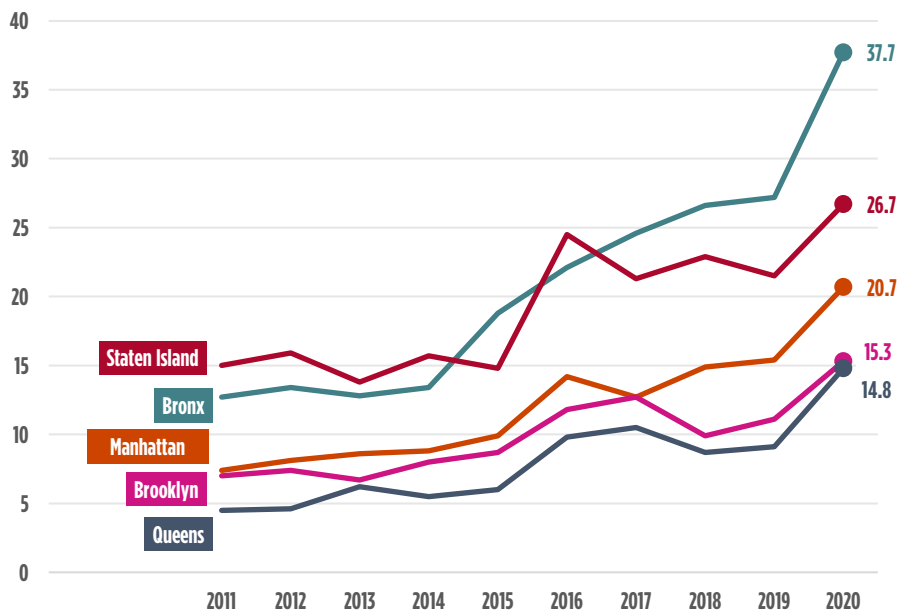
The age-adjusted drug-related death rate in areas with **very high poverty** was 3.3 times the rate in areas with **low poverty** in 2020. In 2011, the rate in areas with **very high poverty** was 2.0 times the rate of areas with **low poverty**.

*Neighborhood poverty (based on mother's residential census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level, per the American Community Survey (ACS) 2008-2012 for 2011 data and per ACS 2015-2019 for 2020 data.

†The citywide estimate is restricted to NYC residents.

DRUG-RELATED MORTALITY

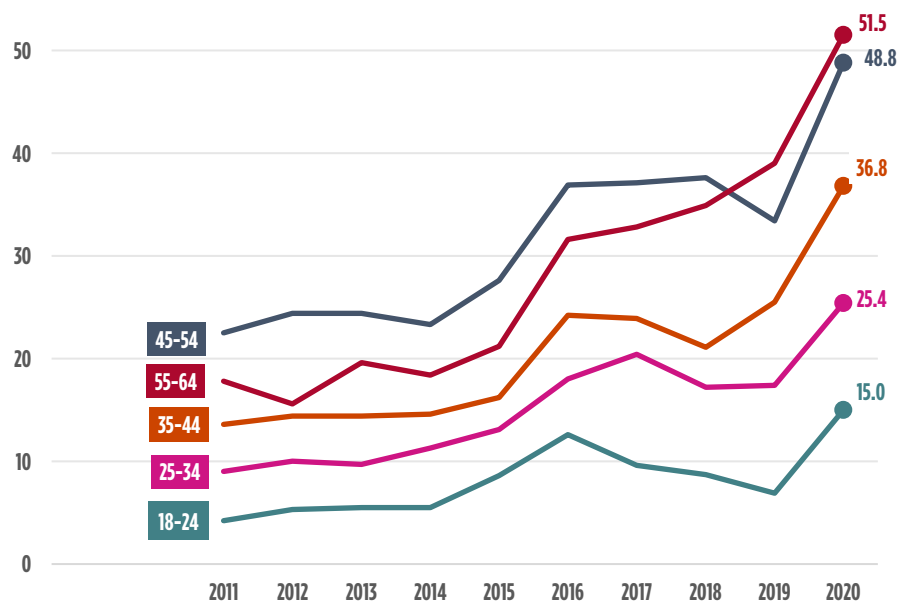
Figure S4. Age-Adjusted Drug-related Death Rates by Borough of Residence, New York City, 2011-2020
 Since 2011, age-adjusted drug-related death rates have increased across all boroughs.



Over that period, age-adjusted drug-related death rates increased by 179.7% in **Manhattan**, by 196.9% in the **Bronx**, by 118.6% in **Brooklyn**, by 228.9% in **Queens**, and by 78.0% in **Staten Island**.

From 2011 to 2020, the **Bronx** and **Staten Island** have consistently had higher age-adjusted drug-related death rates, compared to the other three boroughs.

Figure S5. Age-Specific Drug-related Death Rates, Ages 18-64, New York City, 2011-2020
 Between 2011 and 2020, age-specific drug-related death rates increased for all age groups.



Over that period, age-specific drug-related death rates increased by 257.1% for **18-24 year-olds**, by 182.2% for **25-34 year-olds**, by 170.6% for **35-44 year-olds**, by 116.9% for **45-54 year-olds**, and by 189.3% for **55-64 year-olds**.

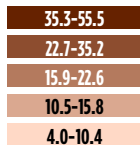
The drug-related death rate for **55-64 year-olds** was higher than all other age groups.

93.0% of drug-related deaths were premature (<65 year olds) in 2020.

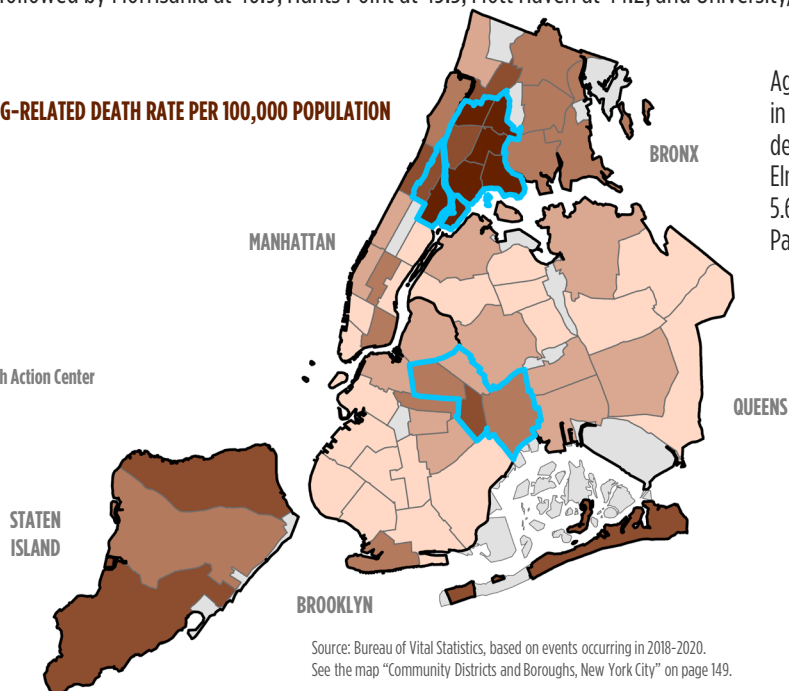
DRUG-RELATED MORTALITY

Figure S6. Age-Adjusted Drug-related Death Rates (Three-Year Averages) by Community District of Residence, New York City, 2018-2020
 The three-year average age-adjusted drug-related death rate was highest in East Tremont with 55.5 deaths per 100,000 population, followed by Morrisania at 46.9, Hunts Point at 45.3, Mott Haven at 44.2, and University/Morris Heights at 41.8.

AGE-ADJUSTED DRUG-RELATED DEATH RATE PER 100,000 POPULATION



Citywide Average: 16.1



Age-adjusted drug-related death rates were lowest in Borough Park and Battery Park/Tribeca at 4.0 deaths per 100,000 population, followed by 5.3 in Elmhurst/Corona, 5.5 in Greenwich Village/SOHO, 5.6 in Sunnyside/Woodside, and 7.0 in Rego Park/Forest Hills and Fresh Meadows/Briarwood.

Source: Bureau of Vital Statistics, based on events occurring in 2018-2020. See the map "Community Districts and Boroughs, New York City" on page 149.

MANHATTAN	CD	Drug-Related Death Rate
East Harlem	MN11	38.3
Central Harlem	MN10	35.2
Manhattanville	MN09	26.3
Lower East Side	MN03	21.4
Washington Heights	MN12	19.5
Midtown Business District	MN05	19.1
Chelsea, Clinton	MN04	13.6
Upper West Side	MN07	12.2
Murray Hill	MN06	8.7
Upper East Side	MN08	7.5
Greenwich Village, SOHO	MN02	5.5
Battery Park, Tribeca	MN01	4.0

BRONX	CD	Drug-Related Death Rate
East Tremont	BX06	55.5
Morrisania	BX03	46.9
Hunts Point	BX02	45.3
Mott Haven	BX01	44.2
University, Morris Heights	BX05	41.8
Fordham	BX07	32.7
Concourse, Highbridge	BX04	30.3
Williamsbridge	BX12	22.6
Throgs Neck	BX10	22.3
Unionport, Soundview	BX09	20.8
Pelham Parkway	BX11	20.1
Riverdale	BX08	15.8

STATEN ISLAND	CD	Drug-Related Death Rate
Tottenville	SI03	26.4
Port Richmond	SI01	25.5
Willowbrook, South Beach	SI02	18.9

BROOKLYN	CD	Drug-Related Death Rate
Brownsville	BK16	27.0
East New York	BK05	21.9
Coney Island	BK13	18.1
Crown Heights North	BK08	17.6
Bedford Stuyvesant	BK03	17.0
Williamsburg, Greenpoint	BK01	14.9
Crown Heights South	BK09	12.7
Bushwick	BK04	12.4
Fort Greene, Brooklyn Heights	BK02	12.2
East Flatbush	BK17	12.1
Sheepshead Bay	BK15	10.4
Bay Ridge	BK10	10.2
Sunset Park	BK07	9.4
Flatbush, Midwood	BK14	9.1
Canarsie	BK18	9.1
Park Slope	BK06	8.8
Bensonhurst	BK11	8.7
Borough Park	BK12	4.0

QUEENS	CD	Drug-Related Death Rate
The Rockaways	QN14	25.7
Howard Beach	QN10	15.8
Jamaica, St. Albans	QN12	14.0
Woodhaven	QN09	13.6
Ridgewood, Glendale	QN05	13.3
Flushing	QN07	11.7
Astoria, Long Island City	QN01	11.0
Queens Village	QN13	9.8
Bayside	QN11	9.0
Jackson Heights	QN03	8.4
Rego Park, Forest Hills	QN06	7.0
Fresh Meadows, Briarwood	QN08	7.0
Sunnyside, Woodside	QN02	5.6
Elmhurst, Corona	QN04	5.3

SPECIAL SECTION: COVID-19 MORTALITY

Introduction

In March 2020, New York City became the epicenter of the COVID-19 pandemic. Deaths due to COVID-19 increased sharply from March to May 2020. COVID-19 deaths varied widely by demographics and geographics: COVID-19 death rates were higher among Hispanics/Latinos and non-Hispanic/Latino Blacks, and COVID-19 death rates were highest in very high poverty neighborhoods. New York City life expectancy also dropped substantially from recent pre-pandemic years.

In this Special Section, we summarize some of the data on mortality in New York City caused by COVID-19. COVID-19 mortality is presented by demographic characteristics of decedents, small geographic area of residence i.e., community district, socio-economic strata i.e., neighborhood poverty, and place of death, occupation, and industry. The impact of COVID-19 deaths on life expectancy at birth is also presented.

At the end of this report is an important note concerning the measures taken by the Bureau of Vital Statistics to ensure that COVID-19 deaths were properly classified during a time of great fluidity, uncertainty, and quickly-evolving understanding about the nature of this novel condition. This report is solely based on the ICD-10 classification code, U07.1, assigned to COVID-19. However, real time surveillance data and PCR testing efforts complemented death certificate data in order to obtain a better assessment of the mortality impact of the epidemic.

COVID-19 MORTALITY

Figure C1. Daily COVID-19 Deaths, New York City, March 11 –December 31, 2020
 COVID-19 death counts peaked from March to May 2020 in New York City, with April 7 having the highest death count at 731 deaths. Death counts slightly rose again in November and December 2020.

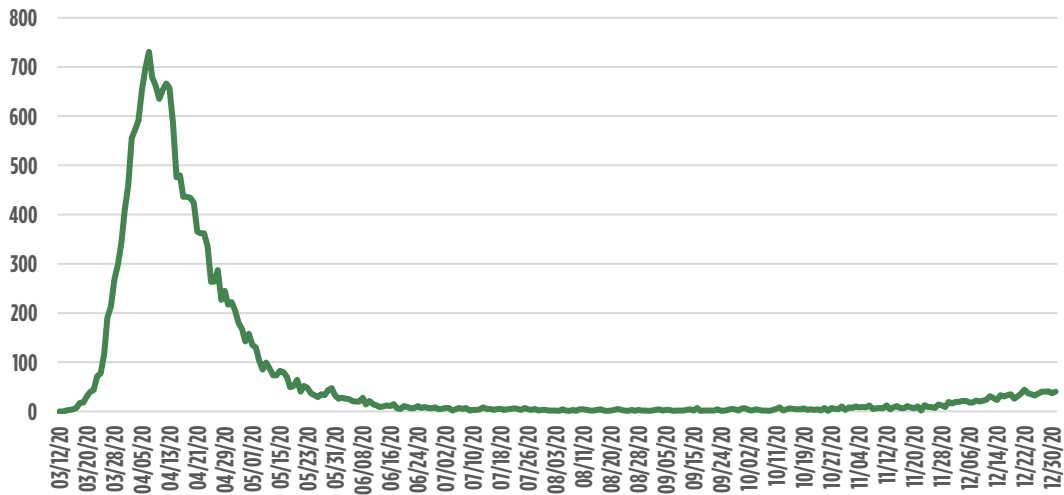
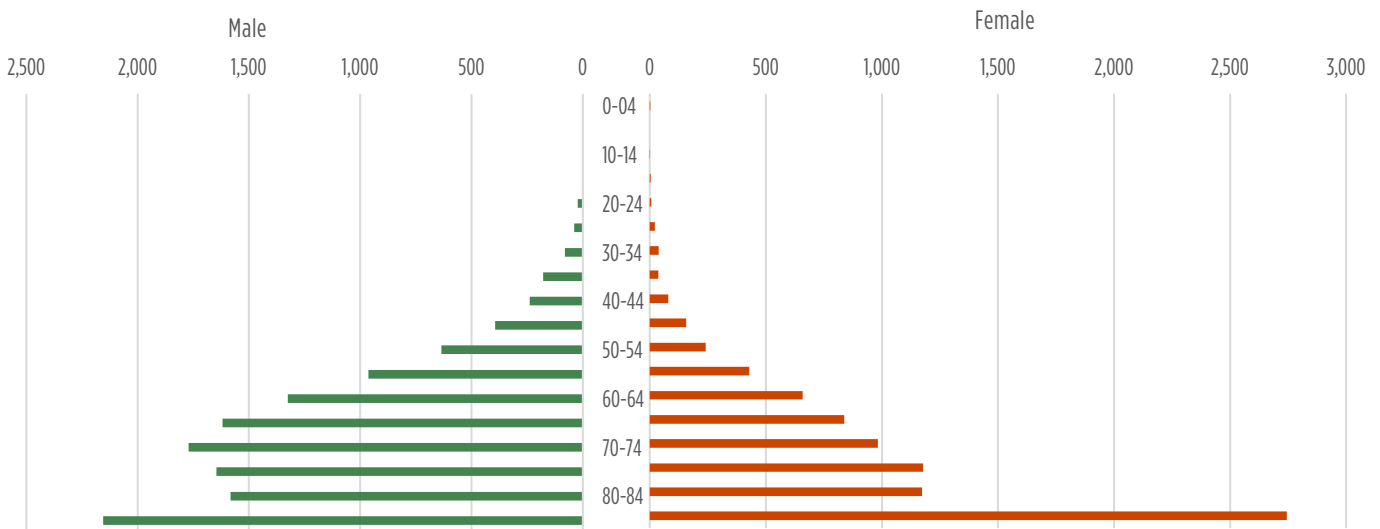


Figure C2. Age Pyramid, COVID-19 Deaths, New York City, 2020
 COVID-19 deaths were much higher among males than females except among ages 85 and over.



COVID-19 MORTALITY

Figure C3. Crude COVID-19 Death Rate by Age and Sex, New York City, 2020

The crude COVID-19 death rate increased as age increased. Rates among males exceeded rates among females in each age group.

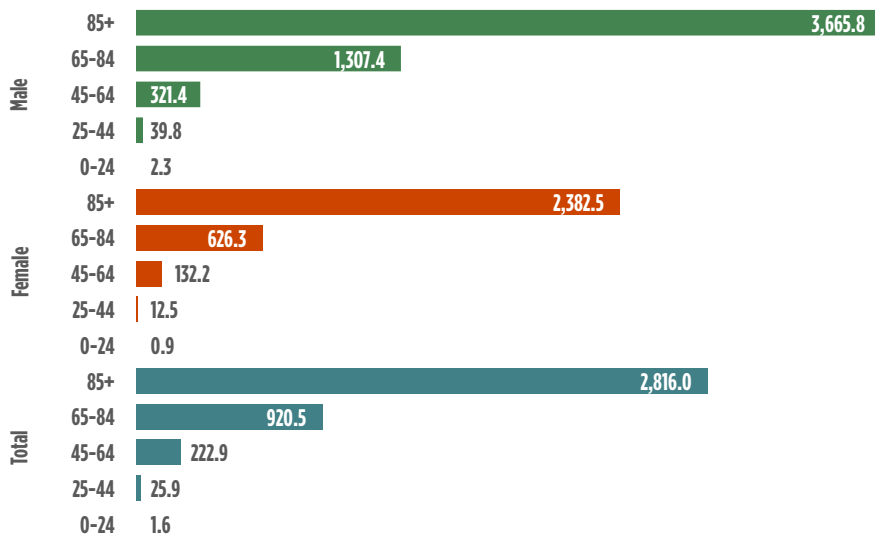


Figure C4. Age-adjusted COVID-19 Death Rate by Race/Ethnicity, New York City, 2020

The age-adjusted COVID-19 death rate was highest among Hispanic/Latino males at 401.1 deaths per 100,000 population, followed by non-Hispanic/Latino Black males at 371.9. Age-adjusted COVID-19 death rates were lowest among Asian & Pacific Islander females at 91.0 per 100,000 population, followed by non-Hispanic/Latino White females at 91.3.

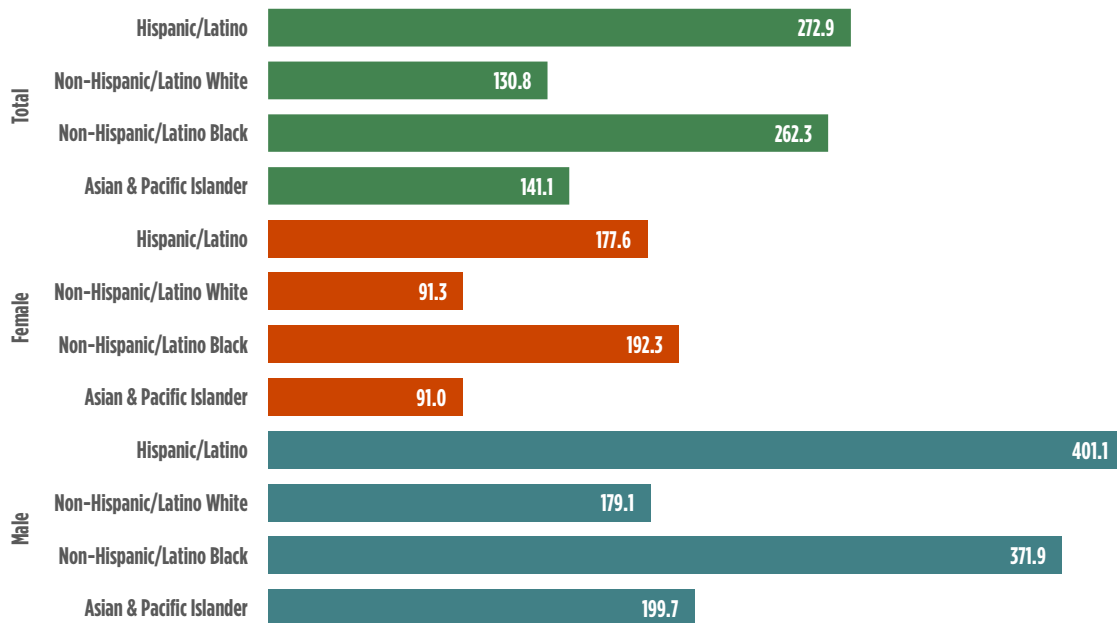


Figure C5. COVID-19 Deaths by Birthplace and Sex, New York City, 2020

Nearly half of COVID-19 decedents were born in the United States. The second most common birthplace among decedents was the Dominican Republic (D.R.) overall, as well as for males and females.

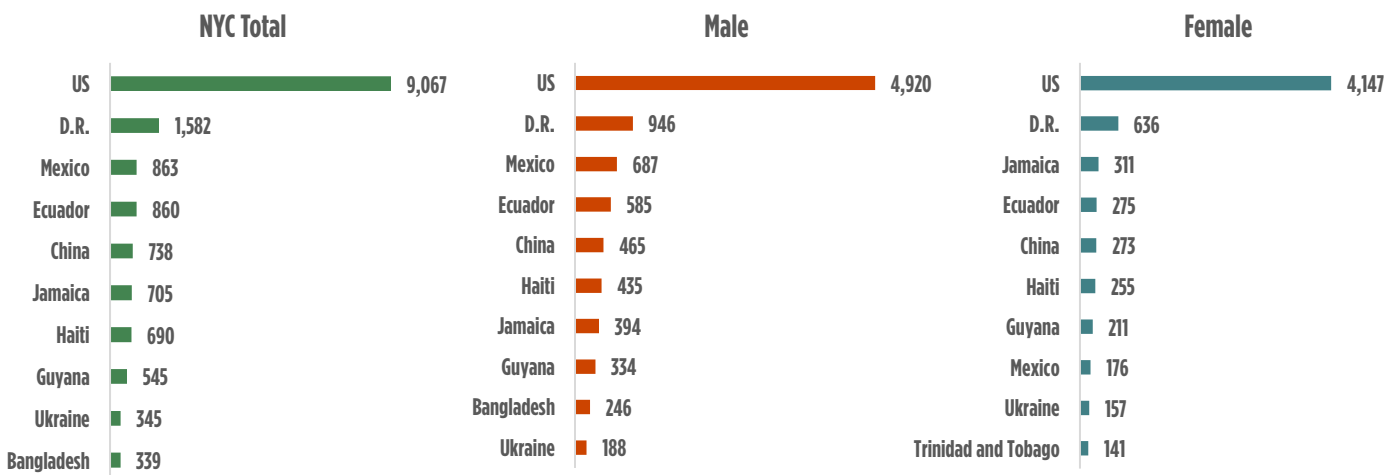


Figure C6. Age-adjusted COVID-19 Death Rate by Neighborhood Poverty, New York City, 2020

COVID-19 mortality was highest in very high poverty neighborhoods, at 290.9 deaths per 100,000 population, and lowest in low poverty neighborhoods, at 135.4 deaths per 100,000 population.



Figure C7. Age-adjusted COVID-19 Death Rate by Borough of Residence and Sex, New York City, 2020

Males in the Bronx had the highest age-adjusted COVID-19 death rate compared to other groups (by borough and sex), at 387.5 deaths per 100,000 population. Rates among males exceed the rates among females in each borough.

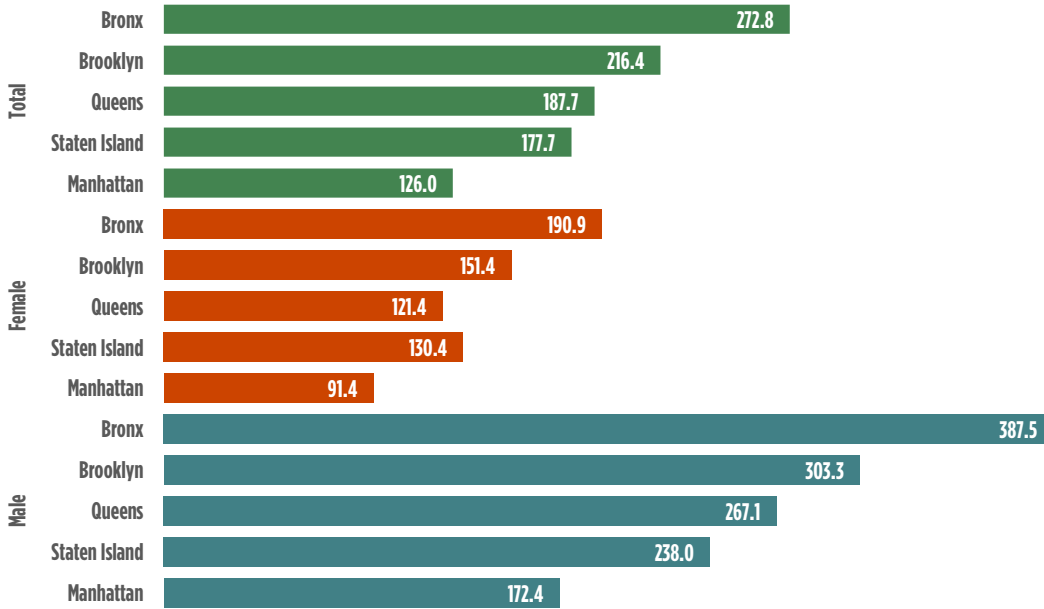
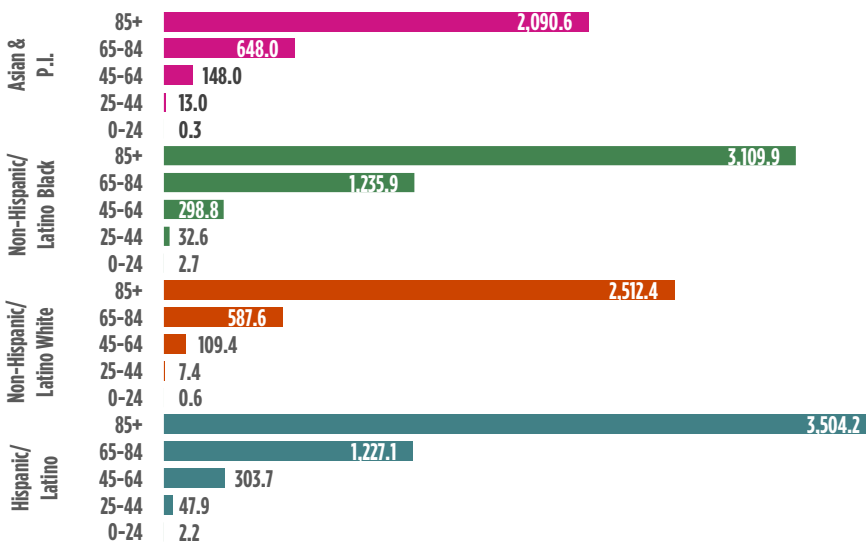


Figure C8. Crude COVID-19 Death Rate by Race/Ethnicity and Age, New York City, 2020

COVID-19 death rates were highest in the 85+ age group for each racial/ethnic group. Hispanics/Latinos in the 85+ age group had the highest death rate at 3,504.2 deaths per 100,000 population.

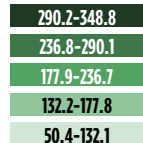


COVID-19 MORTALITY

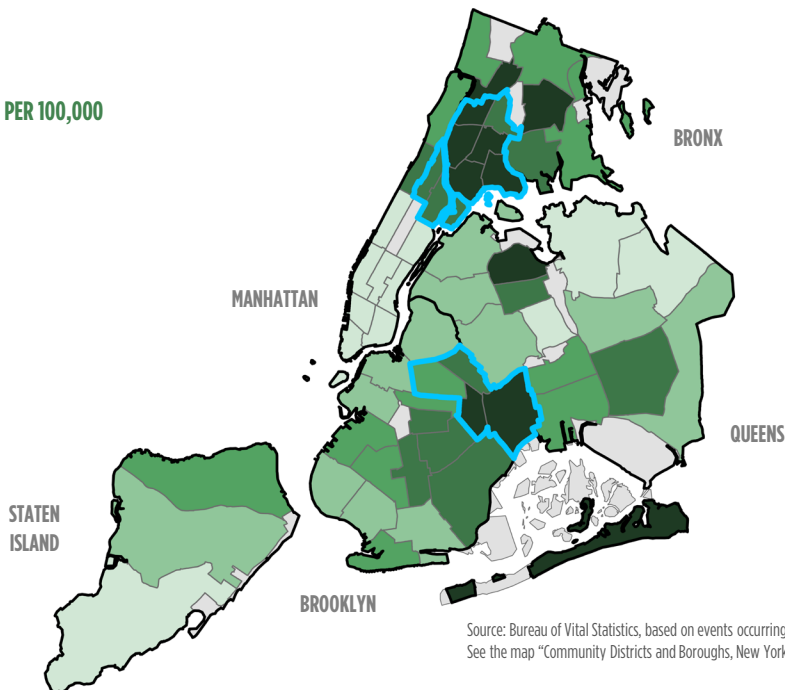
Figure C9. Age-adjusted COVID-19 Death Rate by Community District, New York City, 2020

Age-adjusted COVID-19 death rates were highest in the Rockaways (348.8 deaths per 100,000 population), Morrisania (346.4), Hunts Point (341.6), University/Morris Heights (333.5), and Concourse/Highbridge (329.0), all of which are in the Neighborhood Health Action Centers except the Rockaways.

AGE-ADJUSTED COVID-19 DEATH RATE PER 100,000 POPULATION



Citywide Average: 203.5



Source: Bureau of Vital Statistics, based on events occurring in 2020. See the map "Community Districts and Boroughs, New York City" on page 149.

MANHATTAN	CD	COVID-19 Death Rate
East Harlem	MN11	273.4
Central Harlem	MN10	272.7
Manhattanville	MN09	242.7
Washington Heights	MN12	236.7
Lower East Side	MN03	113.7
Upper West Side	MN07	96.0
Chelsea, Clinton	MN04	72.0
Midtown Business District	MN05	69.1
Upper East Side	MN08	57.0
Murray Hill	MN06	55.4
Greenwich Village, SOHO	MN02	52.8
Battery Park, Tribeca	MN01	50.4

BRONX	CD	COVID-19 Death Rate
Morrisania	BX03	346.4
Hunts Point	BX02	341.6
University/Morris Heights	BX05	333.5
Concourse, Highbridge	BX04	329.0
Mott Haven	BX01	314.8
Fordham	BX07	308.5
Pelham Parkway	BX11	294.9
East Tremont	BX06	280.9
Unionport, Soundview	BX09	253.3
Williamsbridge	BX12	220.9
Riverdale	BX08	204.5
Throgs Neck	BX10	196.0

STATEN ISLAND	CD	COVID-19 Death Rate
Port Richmond	SI01	223.2
Willowbrook, South Beach	SI02	174.4
Tottenville	SI03	132.1

BROOKLYN	CD	COVID-19 Death Rate
East New York	BK05	320.9
Brownsville	BK16	311.0
Flatbush, Midwood	BK14	290.1
Crown Heights South	BK09	275.5
Canarsie	BK18	268.0
Bushwick	BK04	258.5
East Flatbush	BK17	252.8
Bedford Stuyvesant	BK03	233.7
Borough Park	BK12	232.3
Coney Island	BK13	215.5
Crown Heights North	BK08	211.8
Sunset Park	BK07	203.6
Williamsburg, Greenpoint	BK01	159.0
Sheepshead Bay	BK15	157.2
Bensonhurst	BK11	148.1
Park Slope	BK06	147.9
Fort Greene, Brooklyn Heights	BK02	138.5
Bay Ridge	BK10	133.4

QUEENS	CD	COVID-19 Death Rate
The Rockaways	QN14	348.8
Jackson Heights	QN03	320.6
Elmhurst, Corona	QN04	282.0
Jamaica, St. Albans	QN12	244.7
Woodhaven	QN09	228.8
Howard Beach	QN10	183.0
Astoria, Long Island City	QN01	177.8
Ridgewood, Glendale	QN05	177.4
Fresh Meadows, Briarwood	QN08	155.8
Sunnyside, Woodside	QN02	142.6
Queens Village	QN13	136.0
Flushing	QN07	126.3
Rego Park, Forest Hills	QN06	118.6
Bayside	QN11	67.1

Table C1. Percent of COVID-19 Deaths by Place of Death and Sex, New York City, 2020

Females were more likely than males to die of COVID-19 in nursing home/long term care facilities.

Place of Death	Total		Male		Female	
	Deaths	%	Deaths	%	Deaths	%
Hospital Inpatient	16,304	76.8	9,929	78.5	6,375	74.2
Emergency/Outpatient	1,428	6.7	843	6.7	585	6.8
Dead on Arrival	25	0.1	16	0.1	9	0.1
Nursing Home/Long Term Care Facility	1,908	9.0	863	6.8	1,045	12.2
Hospice Facility	15	0.1	6	0.0	9	0.1
Home	1,528	7.2	974	7.7	554	6.5
Other	33	0.2	24	0.2	9	0.1
Total	21,241	100.0	12,655	100.0	8,586	100.0

Table C2. Percent of COVID-19 Deaths by Place of Death and Race/Ethnicity, New York City, 2020

Non-Hispanic/Latino Whites were more likely to die of COVID-19 in nursing home/long term care facilities than those of other racial/ethnic groups.

Place of Death	Hispanic/Latino		Non-Hispanic/Latino White		Non-Hispanic/Latino Black		Asian & Pacific Islander	
	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Hospital Inpatient	5,271	79.6	4,230	74.7	4,531	75.7	1,599	76.7
Emergency/Outpatient	433	6.5	261	4.6	542	9.1	125	6.0
Dead on Arrival	6	0.1	4	0.1	10	0.2	2	0.1
Nursing Home/Long Term Care Facility	410	6.2	773	13.7	478	8.0	173	8.3
Hospice Facility	1	0.0	9	0.2	1	0.0	3	0.1
Home	487	7.4	375	6.6	419	7.0	179	8.6
Other	11	0.2	7	0.1	7	0.1	4	0.2
Total	6,619	100.0	5,659	100.0	5,988	100.0	2,085	100.0

Table C3. Leading Causes of Death by Sex, New York City, 2019 and 2020

Among the top 10 leading causes of death, all deaths increased in 2020 except for malignant neoplasms (cancer) and chronic lower respiratory diseases. In total, the number of deaths increased by 57.7% among **males** and by 43.2% among **females** from 2019 to 2020.

Cause of Death		Deaths 2019	Deaths 2020	% Change
Male				
1	Diseases of Heart	8,961	10,700	19.4%
2	COVID-19	-	12,655	-
3	Malignant Neoplasms	6,163	5,701	-7.5%
4	Psych. Substance Use & Accidental Drug Poisoning	1,189	1,687	41.9%
5	Diabetes Mellitus	992	1,136	14.5%
6	Influenza and Pneumonia	851	1,110	30.4%
7	Cerebrovascular Disease	802	979	22.1%
8	Chronic Lower Respiratory Diseases	859	822	-4.3%
9	Accidents Except Drug Poisoning	668	691	3.4%
10	Essential Hypertension and Renal Diseases	574	725	26.3%
	Other Causes	6,614	7,423	12.2%
	Total	27,673	43,629	57.7%
Female				
1	Diseases of Heart	8,860	10,561	19.2%
2	COVID-19	-	8,586	-
3	Malignant Neoplasms	6,285	5,969	-5.0%
4	Cerebrovascular Disease	1,087	1,215	11.8%
5	Diabetes Mellitus	902	1,083	20.1%
6	Chronic Lower Respiratory Diseases	955	913	-4.4%
7	Influenza and Pneumonia	773	939	21.5%
8	Essential Hypertension and Renal Diseases	752	867	15.3%
9	Alzheimer's Disease	802	816	1.7%
10	Psych. Substance Use & Accidental Drug Poisoning	367	484	31.9%
	Other Causes	6,103	7,081	16.0%
	Total	26,886	38,514	43.2%

Table C4. Top 10 Occupations among COVID-19 Decedents by Sex, Age 18-64, New York City, 2020

Among those who died from COVID-19 in 2020, transportation and healthcare support were the top occupations for **males** and **females**, respectively, reflecting the risk of frontline workers during the beginning of the pandemic.

Male	Female
Transportation	Healthcare Support
Construction and Extraction	Office and Administrative Support
Food Preparation and Serving Related	Personal Care and Service
Sales and Related	Healthcare Practitioners and Technical
Protective Service	Building and Grounds Cleaning and Maintenance
Building and Grounds Cleaning and Maintenance	Management
Office and Administrative Support	Sales and Related
Management	Education, Training, and Library
Production	Food Preparation and Serving Related
Installation, Maintenance, and Repair	Protective Service

Table C5. Top 10 Industries among COVID-19 Decedents by Sex, Age 18-64, New York City, 2020

Among those who died from COVID-19 in 2020, transportation and warehousing, and health care and social assistance were the top industries among **males** and **females**, respectively.

Male	Female
Transportation and Warehousing	Health Care and Social Assistance
Accommodations and Food Service	Education Services
Construction	Other Services Sector (except Public Admin)
Retail Trade	Public Administration
Health Care and Social Assistance	Retail Trade
Administrative and Support and Waste Management	Transportation and Warehousing
Other Services Sector (except Public Admin)	Accommodations and Food Service
Manufacturing	Manufacturing
Public Administration	Finance and Insurance
Education Services	Administrative and Support and Waste Management

Table C6. Top 10 Occupations among COVID-19 Decedents by Race/Ethnicity, Age 18-64, New York City, 2020

Among those who died from COVID-19 in 2020, food preparation, sales, protective service, and transportation were the top occupations for all racial/ethnic groups, reflecting the high risk of frontline workers during the early wave of the pandemic.

Hispanic/Latino	Non-Hispanic/Latino White	Non-Hispanic/Latino Black	Asian and Pacific Islander
Food Preparation and Serving Related	Sales and Related	Protective Service	Transportation
Construction and Extraction	Transportation	Office and Administrative Support	Food Preparation and Serving Related
Transportation	Management	Healthcare Support	Healthcare Practitioners and Technical
Production	Construction and Extraction	Transportation	Sales and Related
Building and Grounds Cleaning and Maintenance	Office and Administrative Support	Construction and Extraction	Management
Sales and Related	Healthcare Practitioners and Technical	Building and Grounds Cleaning and Maintenance	Office and Administrative Support
Office and Administrative Support	Education, Training, and Library	Management	Construction and Extraction
Healthcare Support	Business and Financial Operations	Sales and Related	Personal Care and Service
Installation, Maintenance, and Repair	Arts, Design, Entertainment, Sports, and Media	Personal Care and Service	Protective Service
Management	Protective Service	Healthcare Practitioners and Technical	Healthcare Support

Table C7. Top 10 Industries among COVID-19 Decedents by Race/Ethnicity, Age 18-64, New York City, 2020

Among those who died from COVID-19 in 2020, health care and social assistance, and transportation and warehousing were the top 2 industries for all racial/ethnic groups except for **Hispanics/Latinos**.

Hispanic/Latino	Non-Hispanic/Latino White	Non-Hispanic/Latino Black	Asian and Pacific Islander
Accommodations and Food Service	Health Care and Social Assistance	Health Care and Social Assistance	Health Care and Social Assistance
Construction	Transportation and Warehousing	Transportation and Warehousing	Transportation and Warehousing
Transportation and Warehousing	Retail Trade	Public Administration	Accommodations and Food Service
Retail Trade	Construction	Administrative and Support and Waste Management	Retail Trade
Health Care and Social Assistance	Professional, Scientific, and Technical Services	Construction	Construction
Other Services Sector (except Public Admin)	Education Services	Education Services	Manufacturing
Manufacturing	Finance and Insurance	Other Services Sector (except Public Admin)	Other Services Sector (except Public Admin)
Administrative and Support and Waste Management	Other Services Sector (except Public Admin)	Retail Trade	Professional, Scientific, and Technical Services
Education Services	Public Administration	Accommodations and Food Service	Finance and Insurance
Public Administration	Manufacturing	Finance and Insurance	Public Administration

Table C8. The Impact of COVID-19 Deaths on Life Expectancy by Sex, New York City, 2020

Life expectancy at birth decreased by 5.4 years among males and by 3.5 years among females from 2019 to 2020.

Exact Age	Total	Change from 2019 (Years)	Male	Change from 2019 (Years)	Female	Change from 2019 (Years)
0	78.0	-4.6	74.5	-5.4	81.4	-3.5
1	77.3	-4.6	73.8	-5.5	80.7	-3.5
5	73.3	-4.7	69.8	-5.5	76.7	-3.5
10	68.3	-4.7	64.9	-5.5	71.7	-3.6
15	63.4	-4.7	59.9	-5.5	66.8	-3.6
20	58.5	-4.7	55.0	-5.5	61.8	-3.6
25	53.7	-4.6	50.4	-5.4	56.9	-3.5
30	48.9	-4.6	45.7	-5.4	52.0	-3.5
35	44.1	-4.5	41.0	-5.3	47.2	-3.5
40	39.5	-4.4	36.5	-5.1	42.4	-3.5
45	35.0	-4.3	32.1	-5.0	37.7	-3.4
50	30.6	-4.1	27.9	-4.7	33.1	-3.3
55	26.4	-3.9	23.9	-4.4	28.7	-3.2
60	22.4	-3.6	20.2	-4.0	24.5	-3.0
65	18.7	-3.2	16.7	-3.7	20.5	-2.7
70	15.3	-2.9	13.5	-3.2	16.7	-2.5
75	12.0	-2.4	10.6	-2.7	13.1	-2.1
80	9.2	-1.9	8.1	-2.1	9.9	-1.7
85	6.7	-1.3	6.0	-1.4	7.1	-1.2

COVID-19 MORTALITY

Table C9. The Impact of COVID-19 Deaths on Life Expectancy by Race/Ethnicity, New York City, 2020
Life expectancy at birth decreased by 6.0 years among Hispanics/Latinos, by 3.1 years among non-Hispanic/Latino Whites, and by 5.6 years among non-Hispanic/Latino Blacks from 2019 to 2020.

Exact Age	Hispanic/Latino	Change from 2019 (Years)	Non-Hispanic/Latino White	Change from 2019 (Years)	Non-Hispanic/Latino Black	Change from 2019 (Years)
0	77.3	-6.0	80.1	-3.1	73.0	-5.6
1	76.5	-6.0	79.3	-3.1	72.5	-5.7
5	72.5	-6.0	75.3	-3.1	68.5	-5.7
10	67.6	-6.1	70.3	-3.1	63.6	-5.7
15	62.6	-6.1	65.4	-3.1	58.7	-5.7
20	57.7	-6.1	60.4	-3.1	53.8	-5.7
25	52.9	-6.0	55.6	-3.0	49.2	-5.6
30	48.1	-5.9	50.8	-3.0	44.5	-5.5
35	43.4	-5.9	46.0	-3.0	39.9	-5.4
40	38.9	-5.7	41.3	-2.9	35.5	-5.3
45	34.4	-5.5	36.6	-2.8	31.1	-5.1
50	30.1	-5.2	32.0	-2.7	26.9	-4.9
55	26.0	-4.9	27.7	-2.6	23.0	-4.7
60	22.1	-4.6	23.5	-2.4	19.5	-4.4
65	18.4	-4.1	19.6	-2.3	16.3	-4.0
70	15.0	-3.6	15.9	-2.1	13.4	-3.5
75	11.9	-3.0	12.4	-1.8	10.7	-2.9
80	9.1	-2.4	9.3	-1.5	8.4	-2.2
85	6.6	-1.8	6.6	-1.0	6.4	-1.6

NOTES TO SPECIAL SECTION: COVID-19 MORTALITY

Deaths—How NYC ascertained deaths during the COVID-19 pandemic: Comparison of two COVID-19 definitions

COVID-19 deaths reported on the DOHMH website	Confirmed* COVID-19 deaths in 2020	19,224
	Probable† COVID-19 deaths in 2020	5,405
	Other deaths	57,514
	Total deaths	82,143

COVID-19 deaths reported in this Summary	Deaths identified using ICD-10 guidelines‡	21,241
	Other deaths	60,902
	Total deaths	82,143

*Decedents who were PCR positive for COVID-19, had COVID-19 on the death certificate, or died within 60 days of their lab result, regardless of what was on the death certificate, excluding external causes of death.

†Decedents without a positive test for COVID-19 but with COVID-19 on the death certificate.

‡The underlying cause of death is U07.1, which is defined by the World Health Organization (WHO) as COVID-19.

Note: Number of deaths is as of the date when this report was produced.

With the beginning of the COVID-19 pandemic, the NYC Health Department implemented several measures to ensure complete ascertainment of COVID-19 deaths, as adequate nosology guidance did not exist, doctors did not necessarily know how to complete the cause of death section on the death certificate, and testing for the disease was extremely limited. To ensure the best possible ascertainment, the team worked very closely with the NYC DOHMH ICS/Surveillance Epidemiology team to monitor cases, including matching lab records of COVID-19 tests with the death registry. This allowed real-time reporting of COVID-19 deaths in a time when total deaths were increasing rapidly.

COVID-19 deaths in this Summary are defined by the International Classification of Diseases, 10th Revision (ICD-10): U07.1. This definition is different from surveillance data that were released daily on the NYC Department of Health and Mental Hygiene website. See the table above for the different definitions.

Life Expectancy

Deaths in New York City are relatively stable from year to year with a small downward trend. As a result, the excess deaths in 2020 compared to 2019 are most likely due to COVID-19. Life expectancy in 2019 is used as a baseline to show the decrease of life expectancy caused by COVID-19 deaths.

POPULATION CHARACTERISTICS

Table PC1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2020

Year	Population	Live Births		Fertility Rates		Total Fertility Rates		Marriages [†]		Deaths		Infant Mortality	
		Total Reported*	Rate per 1,000 Population	Per 1,000 Women Aged 15-44	Per 1,000 Women	Total Reported*	Rate per 1,000 Population	Total Reported*	Rate per 1,000 Population	Deaths Under One Year*	Rate per 1,000 Live Births		
1898-1900	3,358,000	119,000	35.4			30,535	9.1	67,503	20.1	16,264	136.7		
1901-1905	3,786,000	129,000	34.1			37,988	10.0	71,689	18.9	15,611	121.0		
1906-1910	4,473,000	144,000	32.2			44,966	10.1	75,865	17.0	16,609	115.3		
1911-1915	5,049,000	140,581	27.8			51,157	10.1	74,666	14.8	14,060	100.0		
1916-1920	5,492,000	136,101	24.8			59,081	10.8	80,435	14.6	12,004	88.2		
1921-1925	6,175,000	130,462	21.1			62,710	10.2	69,303	11.2	8,985	68.9		
1926-1930	6,703,000	125,590	18.7			62,278	9.3	75,395	11.2	7,662	61.0		
1931-1935	7,101,000	106,179	15.0			63,273	8.9	75,561	10.6	5,521	52.0		
1936-1940	7,363,000	102,418	13.9			69,184	9.4	76,065	10.3	4,079	39.8		
1941-1945	7,597,000	126,495	16.7			76,086	10.0	78,382	10.3	3,525	27.9		
1946-1950	7,815,000	158,926	20.3			90,914	11.6	79,708	10.2	4,139	26.0		
1951-1955	7,867,000	163,526	20.8			71,689	9.1	80,583	10.2	3,986	24.4		
1956-1960	7,806,000	166,949	21.4			68,281	8.7	84,290	10.8	4,290	25.7		
1961-1965	7,816,200	165,197	21.1			68,318	8.7	87,597	11.2	4,333	26.2		
1966-1970	7,872,972	147,294	18.7			71,653	9.1	88,779	11.3	3,477	23.6		
1971-1975	7,652,200	115,941	15.1			67,737	8.9	82,113	10.7	2,313	19.9		
1976	7,401,000	109,995	14.9			55,829	7.5	77,538	10.5	2,092	19.0		
1977	7,318,000	110,486	15.1			52,804	7.2	75,011	10.3	1,971	17.8		
1978	7,236,000	106,720	14.7			54,247	7.5	73,081	10.1	1,827	17.1		
1979	7,154,000	106,021	14.8			58,532	8.2	72,079	10.1	1,767	16.7		
1980	7,071,639	107,066	15.1	63.6		58,637	8.3	76,625	10.8	1,719	16.1		
1981	7,097,000	108,547	15.3	63.9		61,775	8.7	73,329	10.3	1,678	15.5		
1982	7,122,000	111,487	15.7	65.1		66,619	9.4	73,083	10.3	1,706	15.3		
1983	7,147,000	112,353	15.7	65.1		68,164	9.5	73,544	10.3	1,603	14.3		
1984	7,172,000	113,332	15.8	65.1		76,336	10.6	74,278	10.4	1,540	13.6		
1985	7,197,000	118,542	16.5	67.6		77,897	10.8	74,852	10.4	1,591	13.4		
1986	7,222,000	122,108	16.9	69.0		82,199	11.4	75,702	10.5	1,566	12.8		
1987	7,247,000	127,386	17.6	71.5		76,194	10.5	76,448	10.5	1,673	13.1		
1988	7,272,000	132,226	18.2	73.6		74,137	10.2	77,817	10.7	1,770	13.4		
1989	7,297,000	137,673	18.9	76.0		69,758	9.6	75,957	10.4	1,827	13.3		
1990	7,322,564	139,630	19.1	76.5		71,301	9.7	73,875	10.1	1,620	11.6		
1991	7,388,000	138,148	18.7	75.3		69,314	9.4	72,421	9.8	1,575	11.4		
1992	7,455,000	136,002	18.2	73.8		71,947	9.7	71,001	9.5	1,390	10.2		
1993	7,522,000	133,583	17.8	72.1		72,490	9.6	73,408	9.8	1,366	10.2		
1994	7,590,000	133,662	17.6	71.8		70,438	9.3	71,038	9.4	1,207	9.0		
1995	7,658,000	131,009	17.1	70.1		71,507	9.3	70,769	9.2	1,155	8.8		
1996	7,727,000	126,901	16.4	67.5		79,361	10.3	66,784	8.6	992	7.8		
1997	7,796,000	123,313	15.8	65.3		80,027	10.3	62,506	8.0	881	7.1		
1998	7,866,000	124,252	15.8	65.5		53,661	6.8	61,010	7.8	843	6.8		
1999	7,937,000	123,739	15.6	64.9		55,075	6.9	62,470	7.9	848	6.9		
2000	8,008,278	125,563	15.7	65.5	1,918.4	58,291	7.3	60,839	7.6	839	6.7		
2001‡	8,060,000	124,023	15.4	64.5	1,884.2	72,587	9.0	62,964	7.8	760	6.1		
2001‡	8,060,000	Excluding World Trade Center disaster deaths						60,218	7.5				
2002‡	8,072,000	122,937	15.2	64.1	1,866.4	65,490	8.1	59,651	7.4	742	6.0		
2003‡	8,068,000	124,345	15.4	65.1	1,890.5	61,101	7.6	59,213	7.3	807	6.5		
2004‡	8,043,000	124,099	15.4	65.3	1,898.3	62,057	7.7	57,466	7.1	760	6.1		
2005‡	8,013,000	122,725	15.3	65.0	1,890.7	66,348	8.3	57,068	7.1	732	6.0		
2006‡	7,994,000	125,506	15.7	66.6	1,935.2	65,619	8.2	55,391	6.9	740	5.9		
2007	8,014,000	128,961	16.1	68.4	1,976.3	66,483	8.3	54,073	6.7	697	5.4		
2008	8,068,000	127,680	15.8	67.3	1,937.2	66,670	8.3	54,193	6.7	698	5.5		
2009	8,132,000	126,774	15.6	66.5	1,902.0	65,542	8.1	52,881	6.5	668	5.3		
2010	8,175,133	124,791	15.3	65.3	1,863.2	67,051	8.2	52,575	6.4	609	4.9		
2011‡	8,338,000	123,029	14.8	63.7	1,835.1	71,401	8.6	52,789	6.3	577	4.7		
2012‡	8,464,000	123,231	14.6	63.2	1,824.5	74,362	8.8	52,455	6.2	583	4.7		
2013‡	8,566,000	120,457	14.1	61.5	1,768.7	77,678	9.1	53,409	6.2	551	4.6		
2014‡	8,655,000	122,084	14.1	62.1	1,767.2	78,409	9.1	53,034	6.1	516	4.2		
2015‡	8,737,000	121,673	13.9	61.8	1,753.9	77,777	8.9	54,120	6.2	526	4.3		
2016‡	8,795,000	120,367	13.7	61.3	1,738.6	84,073	9.6	54,280	6.2	491	4.1		
2017‡	8,815,000	117,013	13.3	59.9	1,688.8	82,866	9.4	54,319	6.2	500	4.3		
2018‡	8,826,000	114,296	12.9	58.8	1,714.2	76,688	8.7	55,081	6.2	446	3.9		
2019‡	8,825,000	110,442	12.5	57.1	1,678.5	73,827	8.4	54,559	6.2	464	4.2		
2020	8,804,190	100,022	11.4	52.2	1,452.5	36,142	4.1	82,143	9.3	388	3.9		

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

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

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



POPULATION CHARACTERISTICS

Table PC2. Population Estimates by Age, Mutually Exclusive Race and Hispanic/Latino Origin, and Sex, New York City, 2020

Age in Years	All			Hispanic/Latino			Non-Hisp./Latino White			Non-Hisp./Latino Black			Asian and Pacific Islander			Other or Multiple Races		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Ages	8,804,190	4,223,117	4,575,073	2,538,671	1,233,364	1,305,307	2,856,475	1,404,861	1,451,614	1,907,715	873,474	1,034,241	1,315,631	628,912	686,719	185,698	88,506	97,192
Under 5	545,023	278,426	266,597	174,843	88,852	85,991	160,285	82,388	77,897	107,020	53,902	53,118	79,631	41,414	38,217	23,244	11,870	11,374
5-9	514,758	263,427	251,331	177,352	90,273	87,079	137,389	70,680	66,709	105,638	53,644	51,994	73,811	36,277	35,534	20,568	10,553	10,015
10-14	488,458	249,942	238,516	174,643	89,367	85,276	128,464	63,840	62,624	111,375	56,307	55,068	59,226	30,959	28,267	14,750	7,469	7,281
15-19	472,601	238,635	233,966	174,759	85,486	82,273	122,059	61,575	60,484	109,297	54,479	54,818	61,073	30,978	30,095	12,413	6,117	6,296
20-24	531,039	254,589	276,450	174,497	86,171	88,326	148,680	69,677	79,003	191,338	56,961	62,177	75,441	35,644	39,797	13,283	6,136	7,147
25-29	762,493	366,663	395,830	212,474	106,052	106,422	262,334	124,744	137,590	156,505	75,450	81,055	113,728	52,265	61,463	17,452	8,152	9,300
30-34	772,152	382,447	389,705	209,816	107,955	101,861	276,302	137,826	138,476	149,658	72,656	77,002	120,997	56,818	64,179	15,379	7,192	8,187
35-39	651,250	322,217	329,033	187,494	95,134	92,360	220,269	113,072	107,197	127,434	59,808	67,626	104,438	48,813	55,625	11,615	5,390	6,225
40-44	566,280	275,811	290,469	168,626	83,613	85,013	177,742	92,018	85,724	117,841	53,349	64,492	92,615	42,620	49,995	9,456	4,211	5,245
45-49	540,294	261,749	278,545	159,353	78,121	81,232	165,103	85,671	79,432	116,936	52,037	64,899	90,187	41,879	48,308	8,715	4,041	4,674
50-54	546,380	264,110	282,270	157,798	75,699	82,099	163,936	85,666	78,270	129,534	57,786	71,748	86,712	41,073	45,639	8,400	3,886	4,514
55-59	554,114	265,136	288,978	149,192	69,631	79,561	170,185	88,179	82,006	138,538	61,571	76,967	87,992	41,929	46,063	8,207	3,826	4,381
60-64	515,553	241,011	272,542	126,452	57,343	69,089	171,402	85,115	86,287	125,999	55,167	70,832	82,362	40,010	42,352	7,358	3,376	3,982
65-69	428,713	194,969	233,744	99,350	43,029	56,321	160,436	76,424	84,012	96,689	40,845	55,844	66,918	32,230	34,688	5,320	2,441	2,879
70-74	347,084	151,297	195,787	76,272	31,774	44,498	143,280	65,477	77,803	75,994	29,034	44,960	49,624	23,344	26,280	3,914	1,668	2,246
75-79	232,359	95,713	136,646	52,693	20,749	31,944	95,522	41,592	53,930	52,628	19,034	33,594	29,079	13,312	15,767	2,437	1,026	1,411
80-84	163,666	64,216	99,450	36,460	13,489	22,971	69,620	28,980	40,640	34,956	11,874	23,082	21,037	9,238	11,799	1,593	635	958
85 & Over	173,973	58,759	115,214	33,617	10,626	22,991	83,467	29,937	53,530	34,535	9,570	24,965	20,760	8,109	12,651	1,594	517	1,077

Data Source: US Census Bureau, 2020 Census population. See Technical Notes.

Table PC3. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2020

Months	Number			Average Per Day			
	Marriages*	Births	Deaths	Marriages	Births	Deaths	Infant Deaths
January	4,889	9,109	5,104	158	294	165	1.0
February	5,302	8,390	4,681	183	289	161	1.4
March	3,427	8,661	8,672	111	279	280	1.1
April	1	7,985	24,015	0	266	801	1.0
May	665	8,221	7,031	21	265	227	1.0
June	2,001	8,303	4,545	67	277	152	1.3
July	3,172	8,790	4,426	102	284	143	0.9
August	3,463	8,568	4,311	112	276	139	1.2
September	3,519	8,509	4,232	117	284	141	1.0
October	3,428	8,509	4,565	111	274	147	0.9
November	2,938	7,647	4,746	98	255	158	0.9
December	3,337	7,330	5,815	108	236	188	1.1
Total	36,142	100,022	82,143	99	273	224	1.1

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

PREGNANCY OUTCOMES

Table PO1. Live Births by Borough of Birth* and Institution, New York City, 2020

Borough and Institution	Births
Manhattan	
Bellevue Hospital Center	1,161
Harlem Hospital Center	645
Jazz Birth Center of Manhattan	33
Lenox Hill Hospital	4,229
Metropolitan Hospital Center	886
Mount Sinai Beth Israel	1
Mount Sinai Hospital	7,497
Mount Sinai St. Luke's	2
Mount Sinai West	5,046
New York-Presbyterian/Columbia University Medical Center	4,414
New York Weill Cornell Medical Center	5,402
New York-Presbyterian/Lower Manhattan Hospital	2,252
New York-Presbyterian/The Allen Hospital	1,872
NYU Langone - Tisch Hospital	5,369
Home†	124
Places other than a hospital or home‡	18
Bronx	
Bronxcare Health Systems	1,738
Jack D. Weiler Hospital	3,454
Jacobi Medical Center	1,569
Lincoln Medical and Mental Health Center	1,417
Montefiore Medical Center - Wakefield Division	1,481
North Central Bronx Hospital	969
St. Barnabas Hospital	751
Home†	121
Places other than a hospital or home‡	16
Brooklyn	
Brookdale University Hospital and Medical Center	709
Brooklyn Birthing Center	162
Brooklyn Hospital Center	1,757
Coney Island Hospital	1,068
Kingsbrook Jewish Medical Center	1
Kings County Hospital Center	1,315
NYU Lutheran Medical Center	3,743
Maimonides Medical Center	7,098
New York-Presbyterian/Brooklyn Methodist Hospital	4,617
The Birthing Center of NYS	10
University Hospital of Brooklyn	714
Woodhull Medical and Mental Health Center	1,253
Wyckoff Heights Medical Center	1,133
Home†	491
Places other than a hospital or home‡	58
Queens	
Elmhurst Hospital Center	1,811
Flushing Hospital Medical Center	2,480
Jamaica Hospital Medical Center	1,450
Long Island Jewish Forest Hills	2,091
Long Island Jewish Medical Center	7,406
Mount Sinai Queens	1
New York-Presbyterian/Queens Medical Center	2,896
Queens Hospital Center	1,088
St. John's Episcopal Hospital South Shore	488
Home†	134
Places other than a hospital or home‡	32
Staten Island	
Richmond University Medical Center	2,826
Staten Island University Hospital	2,696
Home†	20
Places other than a hospital or home‡	7
New York City Total	100,022

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

† See Technical Notes: Geographical Units, Birthplace Presentation.

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

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

PREGNANCY OUTCOMES

Table PO2. Live Births by Mother's Ancestry* and Borough of Residence, New York City, 2020

Mother's Ancestry	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Unknown
Total	100,022	13,894	16,272	33,393	20,672	4,850	10,939	2
Hispanic/Latino								
Colombian	940	68	51	123	545	37	116	-
Cuban	258	53	41	53	48	15	48	-
Dominican	9,093	1,343	4,643	1,206	1,227	109	565	-
Ecuadorian	2,523	115	363	422	1,456	45	122	-
Mexican	4,104	400	1,034	1,198	1,037	327	108	-
Puerto Rican	5,198	624	2,010	1,080	712	423	349	-
Other Hispanic/Latino	6,318	791	1,608	1,368	1,772	208	571	-
North American and the Caribbean								
African-American	11,203	1,129	2,497	4,686	1,747	395	749	-
American	10,493	2,194	218	4,359	1,062	953	1,707	-
Guyanese	1,307	13	95	306	809	3	81	-
Haitian	1,051	27	29	603	217	11	164	-
Jamaican	1,352	30	321	453	399	11	138	-
Trinidadian	433	20	22	206	147	7	31	-
Other North American and Caribbean	1,084	151	99	457	203	18	156	-
African								
Egyptian	505	26	19	166	174	82	38	-
Ghanaian	443	11	335	32	31	12	22	-
Nigerian	497	14	138	135	107	62	41	-
Other African	1,852	284	891	328	199	72	78	-
European								
English	625	227	8	221	55	6	108	-
German	481	173	9	142	52	16	88	1
Irish	1,203	322	30	277	167	96	311	-
Italian	2,321	366	40	457	294	588	576	-
Polish	628	109	9	142	204	42	122	-
Russian	1,031	180	18	437	177	86	133	-
Other European	3,725	667	210	1,536	611	260	441	-
Asian								
Asian Indian	1,598	310	38	155	594	42	459	-
Bangladeshi	2,582	37	552	515	1,400	11	67	-
Chinese	5,704	708	48	2,114	2,004	307	523	-
Filipino	651	80	29	81	305	35	121	-
Korean	641	229	14	108	177	7	106	-
Pakistani	1,427	54	77	614	354	125	203	-
Other Asian	5,715	779	371	2,370	1,523	267	405	-
Other								
Jewish or Hebrew	4,701	384	37	3,505	218	74	483	-
Other or not stated	8,335	1,976	368	3,538	645	98	1,709	1

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

PREGNANCY OUTCOMES

Table PO3. Live Births by Mother's Racial/Ethnic Group and Age, New York City, 2020

	Total	Age of Mother (Years)						
		<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	100,022	558	1,698	13,788	23,188	31,977	22,133	6,680
Puerto Rican	5,198	81	199	1,080	1,485	1,339	783	231
Hispanic/Latino not of Puerto Rican ancestry	23,236	279	732	4,089	6,269	6,450	4,193	1,224
Asian and Pacific Islander	15,633	11	55	1,174	3,660	5,926	3,802	1,005
Non-Hispanic/Latino White	35,812	27	259	4,332	6,657	12,505	9,271	2,761
Non-Hispanic/Latino Black	18,162	155	421	2,872	4,719	5,145	3,549	1,301
Non-Hispanic/Latino Other	609	-	11	88	139	193	137	41
Non-Hispanic/Latino of two or more races	1,061	3	14	106	193	324	317	104
Not stated	311	2	7	47	66	95	81	13

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2020

	Total	Age Group (Years)						
		<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	100,022	558	1,698	13,788	23,188	31,977	22,133	6,680
Sex								
Male	51,255	291	892	7,009	11,964	16,442	11,287	3,370
Female	48,767	267	806	6,779	11,224	15,535	10,846	3,310
First Live Birth								
Yes	42,258	528	1,481	8,477	9,906	13,182	6,880	1,804
No	57,738	29	217	5,307	13,274	18,791	15,246	4,874
Unknown	26	1	-	4	8	4	7	2
Pre-pregnancy Body Mass Index (BMI)								
Underweight (BMI<18.5)	4,342	41	130	890	1,105	1,321	667	188
Normal weight (18.5≤BMI<25)	49,287	283	868	6,885	10,581	16,368	11,220	3,082
Overweight (25≤BMI<30)	25,847	140	424	3,346	6,358	7,941	5,753	1,885
Obese (BMI≥30)	20,141	83	269	2,597	5,056	6,246	4,399	1,491
Unknown	405	11	7	70	88	101	94	34
Birthweight at Delivery (Grams)								
<1500	1,416	16	21	206	297	406	329	141
1500-2499	7,286	56	160	984	1,634	2,262	1,564	626
2500-3999	85,363	470	1,456	11,945	19,919	27,307	18,796	5,470
≥4000	5,949	16	61	653	1,336	2,000	1,441	442
Not Stated	8	-	-	-	2	2	3	1
Gestational Age (Weeks)*								
<32	1,522	18	22	218	305	438	367	154
32-36	7,739	56	130	904	1,651	2,421	1,823	754
≥37	90,751	484	1,546	12,666	21,230	29,117	19,937	5,771
Unknown	10	-	-	-	2	1	6	1
Plurality								
Single	96,833	546	1,672	13,477	22,509	30,921	21,319	6,389
Twin	3,121	12	26	308	660	1,031	802	282
Triplet	60	-	-	3	15	21	12	9
Quadruplet	8	-	-	-	4	4	-	-
Apgar Score at 5 Minutes								
≤6	927	10	25	139	195	289	180	89
7	948	8	22	132	204	307	198	77
8	5,020	39	82	671	1,071	1,546	1,178	433
9	92,342	495	1,558	12,742	21,541	29,577	20,393	6,036
10	574	5	8	59	120	194	148	40
Not Stated	211	1	3	45	57	64	36	5

Table continued on following page

PREGNANCY OUTCOMES

Table PO4. Selected Characteristics of Live Births, Overall and by Mother's Age, New York City, 2020 [CONTINUED]

	Age Group (Years)							
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total Live Births	100,022	558	1,698	13,788	23,188	31,977	22,133	6,680
Method of Delivery								
Vaginal	64,637	453	1,353	10,704	15,881	20,380	12,699	3,167
Vaginal after any prior C-section	2,614	1	8	208	628	890	659	220
Primary C-section	18,935	100	314	2,150	4,129	6,050	4,452	1,740
Low Risk†	10,261	68	236	1,442	2,385	3,242	2,111	777
Other	8,674	32	78	708	1,744	2,808	2,341	963
Repeat C-section	13,830	4	23	726	2,549	4,656	4,320	1,552
Unknown	6	-	-	-	1	1	3	1
Attendant								
Physician	91,219	468	1,414	11,881	20,829	29,663	20,654	6,310
Certified nurse midwife	8,208	86	270	1,796	2,198	2,132	1,378	348
Other	595	4	14	111	161	182	101	22
Primary Payer for this Birth‡								
Medicaid/Family Plus/Child Health Plus B/Other govt	55,114	474	1,478	11,207	16,111	14,629	8,555	2,660
Private	43,021	59	168	2,267	6,576	16,817	13,231	3,903
Self-pay	489	7	15	83	129	139	93	23
Other	623	5	14	101	147	185	130	41
Not Stated	775	13	23	130	225	207	124	53
First Visit for Prenatal Care								
First trimester (1-3 months)	73,449	245	934	9,097	16,402	24,620	17,142	5,009
Second trimester (4-6 months)	18,018	173	467	3,084	4,526	4,992	3,580	1,196
Third trimester (7-9 months)	4,946	73	191	897	1,338	1,354	809	284
No care	985	30	34	206	261	256	152	46
Not Stated	2,624	37	72	504	661	755	450	145
Marital Status§								
Not married	36,963	542	1,388	7,588	10,405	9,272	5,761	2,007
Married	63,059	16	310	6,200	12,783	22,705	16,372	4,673
Education Level								
11th grade or less/12th grade, no diploma	14,245	492	718	2,836	3,399	3,456	2,418	926
High school graduate or GED	23,273	60	705	5,872	6,675	5,523	3,331	1,107
Some college/associate degree	21,067	2	260	3,789	6,342	6,104	3,517	1,053
Bachelor's degree	22,028	-	3	977	4,414	8,773	6,208	1,653
Master's degree or higher	18,894	-	-	218	2,245	7,964	6,563	1,904
Not Stated	515	4	12	96	113	157	96	37
Birthplace 								
United States, including its territories	52,489	392	1,092	8,517	11,895	16,360	11,083	3,150
Foreign-born	47,416	164	601	5,245	11,258	15,591	11,033	3,524
Not Stated	117	2	5	26	35	26	17	6

* See Technical Notes: Births, Gestational Age.

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

‡ See Technical Notes: Births, Birth Reporting.

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

|| See Technical Notes: Geographical Units, Birthplace Presentation.

PREGNANCY OUTCOMES

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2020

	Racial/Ethnic Group*								Not Stated
	Total	Puerto Rican	Hispanic/Latino not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Latino White	Non-Hispanic/Latino Black	Non-Hispanic/Latino Other	Non-Hispanic/Latino Two or More Races	
Total Live Births	100,022	5,198	23,236	15,633	35,812	18,162	609	1,061	311
Sex									
Male	51,255	2,693	11,878	8,100	18,345	9,220	324	525	170
Female	48,767	2,505	11,358	7,533	17,467	8,942	285	536	141
First Live Birth									
Yes	42,258	2,160	8,965	7,453	15,424	7,374	242	519	121
No	57,738	3,038	14,263	8,180	20,385	10,781	367	542	182
Unknown	26	-	8	-	3	7	-	-	8
Pre-pregnancy Body Mass Index									
Underweight (BMI<18.5)	4,342	160	515	1,247	1,824	508	21	53	14
Normal weight (18.5≤BMI<25)	49,287	1,708	8,769	9,628	22,396	5,797	301	565	123
Overweight (25≤BMI<30)	25,847	1,444	7,723	3,331	7,402	5,450	171	254	72
Obese (BMI≥30)	20,141	1,870	6,145	1,409	4,062	6,302	114	182	57
Unknown	405	16	84	18	128	105	2	7	45
Birthweight at Delivery (Grams)									
<1500	1,416	111	334	165	254	520	11	11	10
1500-2499	7,286	460	1,668	1,257	1,882	1,856	42	91	30
2500-3999	85,363	4,313	19,735	13,668	31,041	14,942	521	898	245
≥4000	5,949	314	1,499	542	2,635	844	35	61	19
Not stated	8	-	-	1	-	-	-	-	7
Gestational Age (Weeks)†									
<32	1,522	126	372	167	283	543	9	15	7
32-36	7,739	525	1,980	1,125	2,115	1,852	45	71	26
≥37	90,751	4,547	20,884	14,339	33,414	15,765	555	975	272
Unknown	10	-	-	2	-	2	-	-	6
Plurality									
Single	96,833	5,009	22,554	15,260	34,638	17,457	592	1,018	305
Twin	3,121	189	664	367	1,146	689	17	43	6
Triplet	60	-	18	6	24	12	-	-	-
Quadruplet	8	-	-	-	4	4	-	-	-
Apgar Score at 5 Minutes									
≤6	927	78	243	87	210	283	6	17	3
7	948	52	214	103	276	285	2	12	4
8	5,020	297	1,051	768	1,553	1,248	28	56	19
9	92,342	4,716	21,550	14,602	33,491	16,189	566	955	273
10	574	35	133	60	238	80	7	18	3
Not stated	211	20	45	13	44	77	-	3	9
Method of Delivery									
Vaginal	64,637	3,206	14,211	9,893	25,306	10,732	407	678	204
Vaginal after any prior C-section	2,614	140	632	298	1,017	476	17	23	11
Primary C-section	18,935	1,093	4,374	3,048	5,935	4,114	102	221	48
Low Risk	10,261	573	2,302	1,829	3,272	2,077	53	126	29
Other	8,674	520	2,072	1,219	2,663	2,037	49	95	19
Repeat C-section	13,830	759	4,019	2,394	3,554	2,840	83	139	42
Unknown	6	-	-	-	-	-	-	-	6

Table continued on following page

PREGNANCY OUTCOMES

Table PO5. Selected Characteristics of Live Births by Mother's Racial/Ethnic Group, New York City, 2020 [CONTINUED]

	Racial/Ethnic Group*								Not Stated
	Total	Puerto Rican	Hispanic/Latino not of Puerto Rican ancestry	Asian & Pacific Islander	Non-Hispanic/White	Non-Hispanic/Black	Non-Hispanic/Latino/Other	Non-Hispanic/Latino Two or More Races	
Attendant									
Physician	91,219	4,684	20,776	14,962	32,746	16,276	560	975	240
Certified nurse midwife	8,208	467	2,282	631	2,919	1,723	47	80	59
Other	595	47	178	40	147	163	2	6	12
Primary Payer for this Births									
Medicaid/Family Plus/Child Health Plus B/Other govt	55,114	3,425	17,542	8,340	13,446	11,505	327	350	179
Private	43,021	1,646	5,305	7,142	22,003	5,864	267	687	107
Self-pay	489	22	116	82	122	136	3	7	1
Other	623	52	125	44	190	195	1	12	4
Not stated	775	53	148	25	51	462	11	5	20
First Visit for Prenatal Care									
First trimester (1-3 months)	73,449	3,585	15,459	12,251	29,127	11,636	424	785	182
Second trimester (4-6 months)	18,018	1,094	5,309	2,475	4,658	4,107	124	192	59
Third trimester (7-9 months)	4,946	269	1,510	609	1,032	1,411	39	51	25
No care	985	80	254	106	216	298	4	9	18
Not stated	2,624	170	704	192	779	710	18	24	27
Marital Status 									
Not married	36,963	3,840	14,125	2,250	3,934	12,073	200	368	173
Married	63,059	1,358	9,111	13,383	31,878	6,089	409	693	138
Education Level									
11 th grade or less/12th grade, no diploma	14,245	1,017	6,131	2,170	2,402	2,358	66	78	23
High school graduate or GED	23,273	1,531	6,006	2,740	7,410	5,216	172	148	50
Some college/associate degree	21,067	1,671	6,210	2,514	4,520	5,734	149	220	49
Bachelor's degree	22,028	613	3,238	4,351	10,398	2,979	118	299	32
Master's degree or higher	18,894	358	1,545	3,822	10,938	1,786	93	314	38
Not stated	515	8	106	36	144	89	11	2	119
Birthplace¶									
United States, including territories	52,489	5,183	7,939	2,302	25,012	10,783	294	803	173
Foreign-born	47,416	11	15,271	13,327	10,787	7,363	315	258	84
Not stated	117	4	26	4	13	16	-	-	54

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

† See Technical Notes: Births, Gestational Age.

‡ Low Risk: Primiparous, Full-term, Singleton, and Vertex/Cephalic (head-first).

§ See Technical Notes: Births, Birth Reporting.

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

¶ See Technical Notes: Geographical Units, Birthplace Presentation.

PREGNANCY OUTCOMES

Table PO6. Live Births by Selected Characteristics and Mother's Ancestry, New York City, 2020

Mother's Ancestry	Percent of Total Live Births with Specified Characteristics										
	Live Births	Foreign-Born*	First Live Birth	Low Birth Weight (<2,500 Grams)	Preterm Birth (<37 Weeks)†	Late or No Prenatal Care	Not Married	On Medicaid‡	Pre-pregnancy Obesity	Teen-aged (<20 Years)	Exclusive Breast Feeding
Total	100,022	47.5	42.3	8.7	9.3	6.1	37.0	55.5	20.2	2.3	44.6
Hispanic/Latino											
Colombian	940	69.8	53.9	5.9	8.5	5.0	49.8	55.4	19.0	1.7	54.3
Cuban	258	12.8	53.9	9.3	8.1	6.7	45.7	35.0	20.2	1.9	55.4
Dominican	9,093	70.2	41.4	9.7	10.5	8.7	60.7	77.3	26.3	4.3	28.5
Ecuadorian	2,523	81.0	33.9	6.7	9.6	8.7	54.3	79.8	22.2	3.8	45.4
Mexican	4,104	66.5	31.9	7.2	9.3	6.6	64.6	85.7	28.5	4.9	38.6
Puerto Rican	5,198	0.2	41.6	11.0	12.5	6.9	73.9	66.6	36.1	5.4	33.8
Other Hispanic/Latino	6,318	54.5	37.9	9.1	10.6	7.5	63.3	71.0	28.8	4.7	40.5
North America and the Caribbean											
African-American	11,203	13.7	42.6	14.1	14.1	8.5	76.9	65.2	36.4	4.5	33.5
American	10,493	4.0	44.0	6.3	7.3	2.1	14.4	32.1	12.6	0.8	58.1
Guyanese	1,307	88.8	43.3	13.6	12.4	9.6	44.6	63.6	24.4	2.0	36.8
Haitian	1,051	79.8	39.2	11.6	11.4	9.8	40.8	62.7	34.6	0.4	30.9
Jamaican	1,352	92.5	40.8	12.5	12.6	13.2	62.1	66.8	36.1	1.3	31.9
Trinidadian	433	88.5	40.0	11.8	13.4	9.6	48.5	54.4	31.5	1.2	39.4
Other North America and the Caribbean	1,084	85.1	49.2	8.8	9.0	10.0	37.2	45.4	22.8	0.8	50.3
African											
Egyptian	505	87.5	32.7	9.5	8.7	16.2	4.0	66.1	26.2	0.4	42.3
Ghanaian	443	97.3	30.0	12.6	13.3	15.9	46.3	67.8	33.0	0.7	35.1
Nigerian	497	94.0	35.2	9.7	13.3	7.5	32.8	61.0	30.2	0.0	36.2
Other African	1,852	96.0	32.3	8.1	7.1	13.1	33.1	73.2	23.8	0.7	44.9
European											
English	625	36.5	56.8	7.2	8.5	4.2	10.7	5.9	5.3	0.2	76.3
German	481	23.7	58.4	6.9	8.3	2.7	11.0	6.4	9.8	0.2	73.5
Irish	1,203	8.7	59.9	6.6	8.0	2.3	13.7	7.4	13.6	0.6	65.9
Italian	2,321	7.2	55.6	5.4	5.9	2.4	15.7	12.2	16.7	0.3	52.3
Polish	628	61.0	52.9	5.9	7.5	2.9	17.5	25.5	11.0	0.2	59.9
Russian	1,031	79.5	52.5	5.5	5.8	4.4	23.0	34.5	6.5	0.3	61.4
Other European	3,725	72.2	50.8	5.2	6.5	4.5	16.4	36.4	9.5	0.4	59.9
Asian											
Asian Indian	1,598	78.8	53.4	11.8	8.5	4.8	7.4	31.9	10.5	0.3	54.2
Bangladeshi	2,582	97.0	38.3	13.2	9.7	6.7	3.5	80.7	14.6	0.3	41.1
Chinese	5,704	86.9	47.9	6.1	6.6	2.0	21.1	57.2	2.9	0.2	36.3
Filipino	651	74.0	50.7	10.4	10.6	5.0	21.8	28.5	11.4	0.6	52.5
Korean	641	64.4	63.2	6.6	8.1	3.7	8.0	12.3	4.1	0.0	60.7
Pakistani	1,427	90.7	36.0	8.2	8.2	7.7	2.7	74.1	19.0	0.7	27.8
Other Asian	5,715	87.5	40.1	6.6	6.9	6.7	12.2	59.8	10.6	1.7	45.6
Other											
Jewish or Hebrew	4,701	11.7	28.4	5.9	5.8	2.8	4.8	63.3	11.2	1.0	43.3
Other or Not Stated	8,335	18.6	43.0	7.7	7.9	4.4	14.8	30.4	12.3	1.0	63.1

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

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

† Clinical gestational age <37 completed weeks.

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

PREGNANCY OUTCOMES

Table PO7. Live Births by Selected Characteristics and Community District of Residence, New York City, 2020

Community District of Residence	Live Births	Rate*	Percent of Total Live Births With Specified Characteristics								
			Foreign-Born†	First Live Birth	Low Birth-weight (<2,500 Grams)	Preterm Birth (<37 weeks)‡	Late or No Prenatal Care	On Medicaid§	Pre-pregnancy Obesity	Exclusive Breast Feeding	
NEW YORK CITY	100,022	11.4	47.5	42.3	8.7	9.3	6.1	55.5	20.2	44.6	
MANHATTAN	13,823	8.2	36.0	53.5	8.3	8.7	5.7	28.9	13.5	61.2	
Battery Park, Tribeca (01)	858	10.9	34.1	54.8	5.8	4.8	1.7	4.3	2.2	78.3	
Greenwich Village, SOHO (02)	574	6.2	34.0	63.9	8.5	7.7	3.4	6.7	1.6	76.8	
Lower East Side (03)	911	5.6	38.6	49.9	8.8	9.8	7.1	56.0	18.5	56.3	
Chelsea, Clinton (04)	873	6.6	43.4	65.5	7.3	7.3	4.2	17.7	9.3	70.1	
Midtown Business District (05)	508	8.0	33.5	63.2	8.7	9.1	5.1	18.4	9.1	68.2	
Murray Hill (06)	1,144	7.4	36.0	60.5	7.1	8.0	3.1	6.0	5.6	78.7	
Upper West Side (07)	1,960	8.8	32.4	55.3	6.2	7.4	3.9	11.5	6.9	66.6	
Upper East Side (08)	2,160	9.3	28.4	56.7	7.5	7.9	2.1	5.1	5.8	75.0	
Manhattanville (09)	813	7.4	40.8	46.5	8.7	10.1	11.3	57.3	26.6	44.2	
Central Harlem (10)	1,268	9.7	35.3	45.5	11.0	10.6	10.8	53.1	25.3	53.6	
East Harlem (11)	1,163	9.2	31.3	43.5	11.4	11.1	8.7	61.1	27.5	37.9	
Washington Heights (12)	1,591	8.8	49.7	46.8	9.3	10.6	8.8	60.4	23.1	36.0	
BRONX	16,339	11.1	54.9	37.4	10.7	11.2	10.3	79.0	30.4	28.8	
Mott Haven (01)	1,305	12.9	44.8	33.5	10.0	11.6	8.8	80.2	32.7	40.7	
Hunts Point (02)	699	12.8	48.2	32.8	9.4	9.9	10.0	84.1	34.9	30.0	
Morrisania (03)	1,227	13.1	46.2	32.0	12.5	12.4	12.8	83.1	34.2	27.3	
Concourse, Highbridge (04)	1,873	12.5	60.7	37.5	11.5	12.8	10.2	81.7	30.4	29.9	
University/Morris Heights (05)	1,739	13.1	62.5	37.7	11.4	12.0	12.5	87.4	32.5	22.9	
East Tremont (06)	1,160	13.0	45.4	34.2	10.7	11.0	11.0	87.5	33.5	24.9	
Fordham (07)	1,725	11.7	62.6	41.6	9.2	9.7	8.8	82.2	29.5	23.0	
Riverdale (08)	915	8.6	49.2	41.9	9.7	10.2	8.0	53.8	19.3	35.6	
Unionport, Soundview (09)	2,158	11.5	57.1	37.1	9.8	9.5	9.4	79.6	27.4	30.0	
Throgs Neck (10)	907	6.9	51.3	40.9	11.4	11.1	8.7	64.3	28.3	33.2	
Pelham Parkway (11)	1,160	9.7	60.2	40.0	10.3	10.5	9.5	72.9	26.7	29.1	
Williamsbridge (12)	1,471	9.0	54.2	37.9	12.5	13.3	13.2	77.0	34.7	25.8	
BROOKLYN	33,393	12.2	42.4	39.3	7.7	8.2	4.7	61.5	18.6	43.6	
Williamsburg, Greenpoint (01)	3,501	17.2	17.7	36.6	5.6	5.7	4.1	59.4	11.4	58.9	
Fort Greene, Brooklyn Heights (02)	1,503	11.6	29.3	59.5	7.2	8.8	2.6	18.4	10.3	71.8	
Bedford Stuyvesant (03)	2,043	11.7	20.4	38.8	8.2	8.9	5.9	63.0	22.1	44.6	
Bushwick (04)	972	8.0	49.1	43.5	9.3	10.8	6.8	66.1	22.6	38.2	
East New York (05)	2,172	10.8	50.9	39.9	11.8	11.4	7.8	76.7	31.9	34.5	
Park Slope (06)	1,410	12.4	24.5	56.4	6.7	7.6	2.0	16.3	10.8	75.8	
Sunset Park (07)	1,566	11.8	66.9	42.6	7.7	8.2	2.1	66.4	14.2	40.1	
Crown Heights North (08)	1,085	10.0	31.8	49.4	10.2	10.9	4.6	43.7	18.9	54.5	
Crown Heights South (09)	1,276	12.5	43.1	42.1	8.5	8.0	4.8	61.5	20.9	54.4	
Bay Ridge (10)	1,362	10.0	60.4	42.9	4.9	6.2	3.1	53.7	15.9	42.0	
Bensonhurst (11)	2,136	10.7	78.3	37.2	6.2	7.2	4.1	73.5	14.5	34.0	
Borough Park (12)	4,759	23.2	26.2	25.8	5.7	5.6	2.3	77.6	12.6	35.1	
Coney Island (13)	1,047	9.6	65.5	40.4	9.0	10.5	8.4	73.6	20.4	34.6	
Flatbush, Midwood (14)	2,064	12.5	52.8	38.6	7.2	7.6	4.9	62.0	19.3	40.1	
Sheepshead Bay (15)	2,038	12.0	58.2	35.2	6.3	6.9	5.2	56.5	13.1	43.6	
Brownsville (16)	1,078	10.9	31.7	37.6	12.2	13.9	11.2	76.9	36.1	25.5	
East Flatbush (17)	1,526	9.4	55.6	44.1	11.1	10.7	8.0	64.8	32.8	30.6	
Canarsie (18)	1,855	9.1	48.1	38.9	10.1	10.6	5.4	55.6	29.4	33.7	
QUEENS	20,672	8.6	66.3	43.6	8.8	9.2	6.9	61.7	20.3	48.0	
Astoria, Long Island City (01)	1,629	8.3	49.7	54.8	7.2	7.9	7.4	44.2	18.2	57.2	
Sunnyside, Woodside (02)	1,397	10.1	61.5	54.8	7.9	7.4	4.5	37.2	11.3	62.4	
Jackson Heights (03)	1,799	10.0	74.4	39.4	7.3	8.4	8.0	74.1	21.7	49.3	
Elmhurst, Corona (04)	1,868	10.3	84.8	41.2	6.8	7.9	6.8	78.5	18.7	44.8	
Ridgewood, Glendale (05)	1,540	8.6	61.4	45.3	5.7	8.1	6.7	56.6	21.2	47.4	
Rego Park, Forest Hills (06)	1,134	9.4	63.7	47.8	7.1	6.9	2.7	35.0	11.9	55.3	
Flushing (07)	1,893	7.0	83.3	44.2	7.0	8.2	4.3	76.0	11.9	41.2	
Fresh Meadows, Briarwood (08)	1,381	8.6	65.7	40.8	9.3	8.7	5.8	59.9	18.1	45.8	
Woodhaven (09)	1,588	10.4	72.7	40.6	9.5	9.6	7.9	69.6	19.5	52.6	
Howard Beach (10)	1,134	8.8	67.4	43.7	12.7	10.9	6.2	62.0	23.2	44.7	
Bayside (11)	450	3.7	66.2	41.1	8.7	10.2	5.0	47.8	12.3	40.4	
Jamaica, St. Albans (12)	2,481	9.7	64.1	39.7	12.1	11.4	9.6	69.1	28.1	48.0	
Queens Village (13)	1,322	6.6	57.4	42.4	11.5	12.4	8.5	56.2	31.1	40.2	
The Rockaways (14)	1,056	8.5	37.7	35.5	11.6	12.0	10.4	66.4	31.3	35.4	
STATEN ISLAND	4,850	9.8	36.6	39.3	7.8	8.9	3.0	44.9	23.1	29.6	
Port Richmond (01)	2,063	10.9	41.5	37.4	9.0	10.4	3.5	57.6	27.6	27.3	
Willowbrook, South Beach (02)	1,340	9.5	44.1	38.9	7.5	8.7	2.6	46.4	19.0	29.4	
Tottenville (03)	1,428	8.7	22.9	42.2	6.3	7.1	2.7	25.7	20.7	32.7	
NEW YORK CITY RESIDENTS	89,077	10.1	48.9	42.2	8.6	9.1	6.3	58.8	20.6	43.9	
NON-RESIDENTS	10,939	-	35.6	43	9.3	10.4	4.3	29.2	17.0	50.0	
RESIDENCE UNKNOWN	6	-	40.0	-	50.0	50.0	83.3	83.3	-	33.3	

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

*Rate per 1,000 population. For population information, see Technical Notes: Population, Community District, Population Estimates.

† See Technical Notes: Geographical Units, Birthplace Presentation.

‡ Clinical gestational age <37 completed weeks.

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

PREGNANCY OUTCOMES

Table PO8. Live Births by Mother's Birthplace and Borough of Residence, New York City, 2020

Birthplace	Total	Borough of Residence						Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island			
United States	52,491	8,866	7,331	19,221	6,957	3,074	7,041	1	
United States (excluding Puerto Rico)	51,852	8,789	7,040	19,098	6,867	3,053	7,004	1	
Puerto Rico	639	77	291	123	90	21	37	-	
Dominican Republic	6,504	830	3,576	860	845	52	341	-	
China	4,888	533	38	1,817	1,811	260	429	-	
Mexico	2,770	247	757	773	713	229	51	-	
Bangladesh	2,554	41	548	507	1,389	11	58	-	
Ecuador	2,078	87	310	336	1,239	20	86	-	
Jamaica	1,645	37	360	605	465	13	165	-	
Guyana	1,441	13	87	419	838	5	79	-	
Pakistan	1,290	43	69	575	313	116	174	-	
Uzbekistan	1,267	13	2	857	337	24	34	-	
India	1,223	192	25	82	510	34	380	-	
Haiti	968	15	21	609	186	11	126	-	
Yemen	961	74	232	438	163	31	23	-	
Guatemala	886	9	141	342	326	31	37	-	
Honduras	780	34	340	146	183	36	41	-	
Israel	741	162	9	368	82	23	97	-	
Russia	702	114	14	339	93	55	87	-	
Ukraine	686	76	2	400	69	72	67	-	
Colombia	675	51	30	95	389	28	82	-	
El Salvador	620	21	70	103	336	8	82	-	
Canada	591	156	12	267	50	13	93	-	
Trinidad and Tobago	557	20	29	284	174	9	41	-	
Nigeria	532	11	140	142	124	72	43	-	
Ghana	529	12	396	36	36	18	31	-	
Other or Not Stated	12,643	2,237	1,733	3,772	3,044	605	1,251	1	
Total	100,022	13,894	16,272	33,393	20,672	4,850	10,939	2	

PREGNANCY OUTCOMES

Table PO9. Live Births by Mother's Birthplace and Age, New York City, 2020

Birthplace	Total	Age Group (Years)						Not Stated
		<20	20-24	25-29	30-34	35-39	≥40	
United States	52,491	1,484	8,517	11,896	16,360	11,084	3,150	-
United States (excluding Puerto Rico)	51,852	1,456	8,398	11,735	16,192	10,972	3,099	-
Puerto Rico	639	28	119	161	168	112	51	-
Dominican Republic	6,504	254	1,128	1,827	1,827	1,124	344	-
China	4,888	7	273	1,203	2,133	1,039	233	-
Mexico	2,770	49	280	578	920	728	215	-
Bangladesh	2,554	8	415	895	790	379	67	-
Ecuador	2,078	59	325	509	578	449	158	-
Jamaica	1,645	21	238	363	453	428	142	-
Guyana	1,441	25	232	399	434	249	102	-
Pakistan	1,290	7	156	432	410	233	52	-
Uzbekistan	1,267	27	285	397	359	169	30	-
India	1,223	2	51	227	534	339	70	-
Haiti	968	2	85	202	272	280	127	-
Yemen	961	62	228	285	208	120	58	-
Guatemala	886	73	180	258	191	143	41	-
Honduras	780	58	154	200	194	139	35	-
Israel	741	2	99	106	242	213	79	-
Russia	702	1	12	119	325	196	49	-
Ukraine	686	1	21	120	307	184	53	-
Colombia	675	7	63	163	214	177	51	-
El Salvador	620	32	113	152	178	110	35	-
Canada	591	2	48	101	207	175	58	-
Trinidad and Tobago	557	4	38	107	172	185	51	-
Nigeria	532	0	19	90	194	156	73	-
Ghana	529	3	21	93	208	144	60	-
Other or Not Stated	12,643	66	807	2,466	4,267	3,690	1,347	-
Total	100,022	2,256	13,788	23,188	31,977	22,133	6,680	-

PREGNANCY OUTCOMES

Table PO10. Live Births and Pregnancy Rates* to Teenagers (Age 15-19 Years) by Racial/Ethnic Group and Borough of Residence, New York City, 2020

	Age Group (Years)†	Live Births	Spontaneous Terminations	Induced Terminations	Total	Population Birth Rate per Women 1,000 Women	Pregnancy Rate Per 1,000 Women	
New York City‡	15-17	558	41	928	1,527	133,434	4.2	11.4
	18-19	1,698	104	2,061	3,863	100,532	16.9	38.4
	15-19	2,256	145	2,989	5,390	233,966	9.6	23.0
Racial/Ethnic Group‡								
Hispanic/Latino	15-17	360	13	295	668	48,348	7.4	13.8
	18-19	931	38	660	1,629	33,925	27.4	48.0
	15-19	1,291	51	955	2,297	82,273	15.7	27.9
Asian and Pacific Islander	15-17	11	2	23	36	16,799	0.7	2.1
	18-19	55	-	49	104	13,296	4.1	7.8
	15-19	66	2	72	140	30,095	2.2	4.7
Non-Hisp./Lat. White	15-17	27	1	46	74	32,178	0.8	2.3
	18-19	259	9	129	397	28,306	9.2	14.0
	15-19	286	10	175	471	60,484	4.7	7.8
Non-Hisp./Lat. Black	15-17	155	15	404	574	32,536	4.8	17.6
	18-19	421	26	818	1,265	22,282	18.9	56.8
	15-19	576	41	1,222	1,839	54,818	10.5	33.5
Racial/Ethnic Group§								
Hispanic/Latino	15-17	354	13	271	638	48,348	7.3	13.2
	18-19	891	34	615	1,540	33,925	26.3	45.4
	15-19	1,245	47	886	2,178	82,273	15.1	26.5
Asian and Pacific Islander	15-17	10	2	21	33	16,799	0.6	2.0
	18-19	52	-	47	99	13,296	3.9	7.4
	15-19	62	2	68	132	30,095	2.1	4.4
Non-Hisp./Lat. White	15-17	25	1	40	66	32,178	0.8	2.1
	18-19	227	7	108	342	28,306	8.0	12.1
	15-19	252	8	148	408	60,484	4.2	6.7
Non-Hisp./Lat. Black	15-17	153	15	366	534	32,536	4.7	16.4
	18-19	411	25	764	1,200	22,282	18.4	53.9
	15-19	564	40	1,130	1,734	54,818	10.3	31.6
Borough of Residence								
Manhattan	15-17	61	5	116	182	17,406	3.5	10.5
	18-19	147	6	253	406	21,329	6.9	19.0
	15-19	208	11	369	588	38,735	5.4	15.2
Bronx	15-17	174	12	238	424	28,327	6.1	15.0
	18-19	514	27	521	1,062	19,840	25.9	53.5
	15-19	688	39	759	1,486	48,167	14.3	30.9
Brooklyn	15-17	168	8	263	439	42,804	3.9	10.3
	18-19	576	29	615	1,220	29,247	19.7	41.7
	15-19	744	37	878	1,659	72,051	10.3	23.0
Queens	15-17	113	12	198	323	35,661	3.2	9.1
	18-19	315	30	427	772	24,176	13.0	31.9
	15-19	428	42	625	1,095	59,837	7.2	18.3
Staten Island	15-17	31	1	31	63	9,236	3.4	6.8
	18-19	59	4	83	146	5,940	9.9	24.6
	15-19	90	5	114	209	15,176	5.9	13.8
NYC Events to NYC Residents	15-17	547	38	846	1,431	133,434	4.1	10.7
	18-19	1,611	96	1,899	3,606	100,532	16.0	35.9
	15-19	2,158	134	2,745	5,037	233,966	9.2	21.5
NYC Events to Non-NYC Residents	15-17	11	3	82	96	-	N.A.	N.A.
	18-19	87	8	162	257	-	N.A.	N.A.
	15-19	98	11	244	353	-	N.A.	N.A.

*Population data used to calculate rates are from 2020 Census population estimates. See Technical Notes: Population.

† From 2011, the number of events to 15-17 year old females and to 15-19 year old females include events to females <18 and <20 years of age, respectively.

See Technical Notes: Pregnancy Outcome Rates.

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

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

N.A. Not applicable.

PREGNANCY OUTCOMES

Table PO11. Live Births to Teenagers (Age <20 Years), Overall and by Selected Characteristics, New York City, 2016-2020

	2016	2017	2018	2019	2020
Total Live Births	120,367	117,013	114,296	110,442	100,022
Percent to Teenagers (Age <20)	2.8	2.7	2.5	2.4	2.3
Population* (Females Age 15-19)	231,576	229,278	220,948	218,164	233,966
Birth Rate† (Age 15-19)	14.8	13.8	13.1	12.3	9.6
Births to Teenagers	3,425	3,175	2,892	2,676	2,256
Percent of Births with Specified Characteristics:					
Hispanic/Latino	59.0	59.9	59.3	59.1	59.2
Foreign-born‡	33.5	32.7	34.2	35.2	34.0
First Live Birth	88.1	87.3	87.7	88.5	89.1
<2,500 grams	9.7	10.6	9.5	10.1	11.2
Preterm§	9.0	10.6	9.3	10.4	10.0
Prenatal Care in First or Second Trimester of Pregnancy	85.3	84.3	84.4	82.6	84.7
Not Married	86.1	87.0	86.9	86.1	85.5
On Medicaid	90.3	90.4	90.2	89.2	87.9
Pre-pregnancy Obesity	13.6	14.3	15.2	15.7	15.7
Infant Mortality Rate¶	5.3	5.4	3.9	4.2	3.9

* For denominator information, see Technical Notes: Population.

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

‡ See Technical Notes: Geographical Units, Birthplace Presentation

§ Clinical gestational age <37 completed weeks.

|| See Technical Notes: Births, Birth Reporting.

¶ Infant mortality rate per 1,000 live births to teenagers.

PREGNANCY OUTCOMES

Table PO12. Live Births to Teenagers (Age <20 Years) by Selected Characteristics and by Community District of Residence, New York City, 2018-2020*

Community District of Residence	Live Births	Percent of Total Live Births	Foreign-born	First Live Birth	Low Birth Weight (<2,500 Grams)	Preterm Birth (<37 Weeks)	Late or No Prenatal Care	Not Married	On Medicaid†	Exclusive Breast Feeding
NEW YORK CITY	7,824	2.4	34.5	88.4	10.2	9.9	16.2	86.2	89.2	27.7
MANHATTAN	766	1.6	27.5	87.7	10.7	10.3	15.6	93.6	90.0	28.5
Battery Park, Tribeca (01)	2	0.1	0.0	50.0	100.0	50.0	50.0	100.0	50.0	0.0
Greenwich Village, SoHo (02)	7	0.4	14.3	71.4	14.3	0.0	0.0	85.7	100.0	42.9
Lower East Side (03)	71	2.3	15.5	88.7	11.3	14.3	14.3	95.8	88.1	50.7
Chelsea, Clinton (04)	27	0.9	29.6	77.8	14.8	7.4	19.0	88.9	96.3	48.1
Midtown Business District (05)	13	0.8	7.7	69.2	0.0	0.0	0.0	92.3	100.0	30.8
Murray Hill (06)	13	0.3	53.8	92.3	7.7	15.4	20.0	92.3	66.7	46.2
Upper West Side (07)	36	0.5	17.1	83.3	16.7	19.4	6.9	97.2	94.3	33.3
Upper East Side (08)	12	0.2	8.3	91.7	16.7	16.7	0.0	100.0	54.5	25.0
Manhattanville (09)	114	4.3	26.8	86.0	6.1	7.0	21.2	89.5	95.5	29.8
Central Harlem (10)	144	3.5	15.3	90.3	10.4	7.6	16.7	93.1	87.2	32.6
East Harlem (11)	143	3.6	19.6	87.4	12.6	11.9	13.4	95.8	86.9	23.1
Washington Heights (12)	183	3.4	51.9	90.7	9.8	10.4	16.1	94.0	92.9	14.8
BRONX	2,452	4.7	37.3	88.1	10.9	9.8	19.7	92.0	93.3	23.1
Mott Haven (01)	246	6.0	24.5	81.3	11.8	10.2	18.4	93.5	90.5	30.6
Hunts Point (02)	134	6.0	39.1	88.8	11.9	11.9	22.8	93.3	96.3	25.4
Morrisania (03)	222	5.5	23.9	89.2	10.4	9.0	14.4	94.1	91.7	22.5
Concourse, Highbridge (04)	300	4.8	43.1	88.3	10.7	8.3	22.2	90.0	93.9	21.7
University/Morris Heights (05)	287	4.9	44.6	88.5	8.7	8.0	18.6	93.0	95.5	20.6
East Tremont (06)	218	6.2	35.8	87.6	16.1	13.8	17.7	97.7	91.2	25.3
Fordham (07)	261	4.6	47.9	92.3	9.6	9.2	20.2	92.3	94.2	20.3
Riverdale (08)	56	1.9	51.8	94.6	8.9	5.4	21.6	91.1	100.0	26.8
Unionport, Soundview (09)	316	4.7	40.8	89.6	10.8	9.5	21.9	92.7	92.3	21.5
Throgs Neck (10)	76	2.7	27.6	85.5	6.6	3.9	26.3	89.5	93.3	15.8
Pelham Parkway (11)	132	3.5	41.7	86.4	13.6	15.9	15.3	72.0	93.2	31.1
Williamsbridge (12)	204	4.3	27.0	87.3	10.3	9.8	21.3	95.6	93.1	19.1
BROOKLYN	2,458	2.3	29.8	88.8	9.9	10.2	12.1	78.5	88.9	24.6
Williamsburg, Greenpoint (01)	154	1.4	11.0	94.2	7.8	7.8	14.1	51.9	92.8	35.7
Fort Greene, Brooklyn Heights (02)	38	0.8	31.6	78.9	23.7	18.4	5.7	97.4	92.1	15.8
Bedford Stuyvesant (03)	197	3.1	16.4	91.9	10.7	9.6	10.2	82.7	90.7	17.8
Bushwick (04)	167	5.4	28.2	88.0	7.8	9.0	12.5	96.4	89.0	21.0
East New York (05)	362	5.0	34.4	89.8	10.5	12.2	14.2	93.1	91.6	24.9
Park Slope (06)	40	0.9	10.0	92.5	0.0	5.0	7.7	95.0	85.0	37.5
Sunset Park (07)	123	2.3	50.4	82.9	7.3	12.2	4.2	84.6	95.1	31.7
Crown Heights North (08)	85	2.4	14.3	82.4	14.1	9.4	11.3	94.1	86.9	17.6
Crown Heights South (09)	58	1.4	37.9	87.9	12.1	14.0	10.9	79.3	87.7	22.4
Bay Ridge (10)	53	1.1	50.9	88.7	5.7	13.2	1.9	67.9	83.0	32.1
Bensonhurst (11)	127	1.8	59.1	89.8	7.9	9.4	8.0	70.9	92.1	36.2
Borough Park (12)	227	1.6	28.6	92.5	6.2	5.7	6.2	34.8	85.0	30.8
Coney Island (13)	118	3.5	27.1	89.0	10.3	10.2	15.3	83.9	94.9	20.5
Flatbush, Midwood (14)	110	1.6	43.6	88.2	9.1	11.8	9.3	70.0	91.7	24.5
Sheepshead Bay (15)	100	1.5	41.0	94.9	10.0	9.0	11.6	43.0	76.0	29.3
Brownsville (16)	216	6.1	11.6	84.7	10.6	7.9	16.9	97.2	88.2	16.2
East Flatbush (17)	156	3.1	34.0	85.9	16.7	17.9	26.2	94.2	86.8	16.0
Canarsie (18)	126	2.1	25.4	85.7	11.1	7.9	13.3	81.0	82.3	23.0
QUEENS	1,505	2.2	45.1	88.8	8.6	8.4	19.8	88.0	86.6	41.1
Astoria, Long Island City (01)	78	1.4	19.2	85.9	7.7	12.8	17.3	91.0	84.6	26.0
Sunnyside, Woodside (02)	41	0.9	39.0	87.8	9.8	2.4	15.0	85.4	95.1	31.7
Jackson Heights (03)	215	3.6	50.7	87.9	5.1	8.4	20.0	91.2	92.6	33.0
Elmhurst, Corona (04)	148	2.4	46.6	89.9	6.8	11.5	21.8	91.2	89.2	39.9
Ridgewood, Glendale (05)	115	2.4	52.6	92.2	5.2	8.7	24.3	84.3	82.5	29.6
Rego Park, Forest Hills (06)	22	0.6	45.5	90.9	9.1	0.0	4.5	72.7	85.7	59.1
Flushing (07)	89	1.3	67.4	94.4	7.9	2.2	12.8	86.5	85.4	43.8
Fresh Meadows, Briarwood (08)	58	1.2	50.0	89.7	8.6	5.2	21.4	72.4	86.2	37.9
Woodhaven (09)	120	2.4	54.2	85.0	12.5	12.5	18.8	83.3	92.4	50.0
Howard Beach (10)	78	2.1	56.4	89.7	9.0	5.1	20.3	75.6	78.2	56.4
Bayside (11)	10	0.6	60.0	90.0	10.0	0.0	20.0	90.0	100.0	40.0
Jamaica, St. Albans (12)	263	3.2	39.2	86.7	10.3	8.0	21.1	91.3	79.8	49.8
Queens Village (13)	107	2.4	40.2	92.5	13.1	11.2	20.4	88.8	82.9	45.8
The Rockaways (14)	161	4.5	30.4	88.2	8.7	8.1	20.6	94.4	91.8	36.6
STATEN ISLAND	327	2.2	18.4	86.2	12.2	10.4	5.9	93.3	80.2	20.0
Port Richmond (01)	250	3.9	16.8	85.6	12.8	10.8	6.1	96.0	85.5	18.8
Willowbrook, South Beach (02)	51	1.2	26.0	88.0	9.8	7.8	4.0	84.3	68.0	26.0
Tottenville (03)	25	0.6	20.0	92.0	12.0	12.0	8.3	88.0	56.0	20.8
NEW YORK CITY RESIDENTS	7,508	2.6	34.6	88.4	10.2	9.7	16.2	87.0	89.6	27.6
NON-RESIDENTS	316	0.9	32.0	88.6	11.7	13.9	15.0	68.0	79.0	28.9
RESIDENCE UNKNOWN	-	-	-	-	-	-	-	-	-	-

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

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

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

PREGNANCY OUTCOMES

Table PO13. Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy, Overall and by Borough Of Residence and Woman's Age, New York City, 2020*

Borough of Residence/ Pregnancy Outcome	Total	Age Group (Years)							Unknown or Not Stated
		<18	18-19	20-24	25-29	30-34	35-39	≥40	
NEW YORK CITY	143,338	1,527	3,863	23,800	35,032	41,685	28,202	9,229	-
Live Births	100,022	558	1,698	13,788	23,188	31,977	22,133	6,680	-
Spontaneous Terminations	5,793	41	104	673	1,115	1,594	1,507	759	-
Induced Terminations	37,523	928	2,061	9,339	10,729	8,114	4,562	1,790	-
MANHATTAN	20,383	182	406	2,386	3,894	6,784	5,033	1,698	-
Live Births	13,894	61	147	986	2,132	5,222	4,070	1,276	-
Spontaneous Terminations	845	5	6	67	118	267	247	135	-
Induced Terminations	5,644	116	253	1,333	1,644	1,295	716	287	-
BRONX	25,729	424	1,062	5,350	7,316	6,483	3,808	1,286	-
Live Births	16,272	174	514	3,037	4,593	4,428	2,672	854	-
Spontaneous Terminations	1,064	12	27	134	272	268	231	120	-
Induced Terminations	8,393	238	521	2,179	2,451	1,787	905	312	-
BROOKLYN	45,247	439	1,220	8,559	11,056	12,318	8,830	2,825	-
Live Births	33,393	168	576	5,703	7,910	9,697	7,169	2,170	-
Spontaneous Terminations	1,441	8	29	201	265	378	402	158	-
Induced Terminations	10,413	263	615	2,655	2,881	2,243	1,259	497	-
QUEENS	30,887	323	772	4,992	8,218	8,942	5,771	1,869	-
Live Births	20,672	113	315	2,648	5,360	6,704	4,309	1,223	-
Spontaneous Terminations	1,448	12	30	189	310	395	333	179	-
Induced Terminations	8,767	198	427	2,155	2,548	1,843	1,129	467	-
STATEN ISLAND	6,261	63	146	836	1,591	2,100	1,183	342	-
Live Births	4,850	31	59	494	1,219	1,796	991	260	-
Spontaneous Terminations	304	1	4	27	49	104	77	42	-
Induced Terminations	1,107	31	83	315	323	200	115	40	-
NON-RESIDENTS	14,745	94	253	1,664	2,940	5,025	3,565	1,204	-
Live Births	10,939	11	87	920	1,974	4,128	2,922	897	-
Spontaneous Terminations	690	3	8	55	101	181	217	125	-
Induced Terminations	3,116	80	158	689	865	716	426	182	-
RESIDENCE UNKNOWN	86	2	4	13	17	33	12	5	-
Live Births	2	-	-	-	-	2	-	-	-
Spontaneous Terminations	1	-	-	-	-	1	-	-	-
Induced Terminations	83	2	4	13	17	30	12	5	-

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

PREGNANCY OUTCOMES

Table PO14. Spontaneous Terminations of Pregnancy* by Gestational Age and Woman's Age, New York City, 2020

Gestational Age (Weeks)	Age Group (Years)							
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	5,793	41	104	673	1,115	1,594	1,507	759
<13	4,110	26	73	460	757	1,128	1,073	593
13-15	421	1	8	48	91	103	117	53
16-19	476	5	7	45	114	137	128	40
20-27	461	5	8	73	83	130	125	37
≥28	325	4	8	47	70	96	64	36

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

Table PO15. Selected Characteristics of Spontaneous Terminations of Pregnancy*, ≥ 28 Weeks Gestation, Overall and by Woman's Age, New York City, 2020

	Age Group (Years)							
	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40
Total	325	4	8	47	70	96	64	36
Sex								
Male	150	2	5	22	34	42	34	11
Female	170	2	3	23	35	54	28	25
Undetermined	5	-	-	2	1	-	2	-
Weight at Delivery (Grams)								
<500	7	-	-	1	2	2	2	0
500-999	37	-	1	6	9	12	5	4
1,000-1,499	47	1	1	6	7	18	12	2
1,500-1,999	51	-	4	8	8	14	10	7
2,000-2,499	52	-	1	7	7	19	9	9
≥2,500	117	3	1	17	36	30	20	10
Not stated	14	-	-	2	1	1	6	4

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

Table PO16. Selected Characteristics of Spontaneous Terminations of Pregnancy*, ≥28 Weeks Gestation, Overall and by Woman's Racial/Ethnic Group, New York City, 2020

	Racial/Ethnic Group							
	Total	Puerto Rican	Hispanic/Latino (not Puerto Rican)	Asian and Pacific Islander	Non-Hispanic/Latino White	Non-Hispanic/Latino Black	Other	Not Stated
Total	325	10	62	23	94	105	4	27
Sex								
Male	150	6	23	9	41	54	2	15
Female	170	4	38	14	53	47	2	12
Undetermined	5	-	1	-	-	4	-	-
Weight at Delivery (Grams)								
<500	7	-	1	-	2	2	-	2
500-999	37	-	6	3	11	14	-	3
1,000-1,499	47	1	8	4	15	17	-	2
1,500-1,999	51	-	9	6	14	15	1	6
2,000-2,499	52	4	9	3	12	20	1	3
≥2,500	117	3	28	7	33	36	1	9
Not stated	14	2	1	-	7	1	1	2

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

PREGNANCY OUTCOMES

Table PO17. Live Births, Spontaneous Terminations of ≥ 28 Weeks Gestation*, and Induced Terminations of Pregnancy* by Borough of Residence and Occurrence, New York City, 2020

Borough of Residence/ Pregnancy Outcome	Borough of Occurrence					
	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	137,870	57,502	15,709	29,817	29,057	5,785
Live Births	100,022	38,951	11,516	24,129	19,877	5,549
Spontaneous Terminations	325	111	49	82	68	15
Induced Terminations	37,523	18,440	4,144	5,606	9,112	221
MANHATTAN	19,579	18,172	619	366	392	30
Live Births	13,894	13,324	240	178	128	24
Spontaneous Terminations	41	36	3	2	-	-
Induced Terminations	5,644	4,812	376	186	264	6
BRONX	24,729	9,866	13,983	362	501	17
Live Births	16,272	5,397	10,486	156	216	17
Spontaneous Terminations	64	21	42	1	-	-
Induced Terminations	8,393	4,448	3,455	205	285	-
BROOKLYN	43,925	14,074	131	25,707	2,602	1,411
Live Births	33,393	9,295	62	21,374	1,284	1,378
Spontaneous Terminations	119	34	-	76	5	4
Induced Terminations	10,413	4,745	69	4,257	1,313	29
QUEENS	29,501	6,235	156	1,768	21,289	53
Live Births	20,672	4,176	105	1,239	15,104	48
Spontaneous Terminations	62	5	-	2	55	-
Induced Terminations	8,767	2,054	51	527	6,130	5
STATEN ISLAND	5,971	988	32	939	51	3,961
Live Births	4,850	325	18	693	16	3,798
Spontaneous Terminations	14	2	-	1	-	11
Induced Terminations	1,107	661	14	245	35	152
NON-RESIDENTS	14,080	8,095	786	668	4,218	313
Live Births	10,939	6,432	605	489	3,129	284
Spontaneous Terminations	25	13	4	-	8	-
Induced Terminations	3,116	1,650	177	179	1,081	29
RESIDENCE UNKNOWN	85	72	2	7	4	-
Live Births	2	2	-	-	-	-
Spontaneous Terminations	0	-	-	-	-	-
Induced Terminations	83	70	2	7	4	-

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

PREGNANCY OUTCOMES

Table PO18. Induced Terminations of Pregnancy* by Selected Characteristics and Woman's Age, New York City, 2020

	Total	<18	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Induced Termination of Pregnancy, All	37,523	928	2,061	9,339	10,729	8,114	4,562	1,790	0
Racial/Ethnic Group									
Hispanic/Latino	9,719	295	660	2,654	2,812	1,932	1,012	354	-
Asian and Pacific Islander	1,626	23	49	324	411	418	274	127	-
Non-Hispanic/Latino White	3,941	46	129	770	1,085	1,013	618	280	-
Non-Hispanic/Latino Black	14,043	404	818	3,710	4,129	2,959	1,509	514	-
Other	997	28	70	269	293	197	105	35	-
Unknown	7,197	132	335	1,612	1,999	1,595	1,044	480	-
Marital Status									
Married	5,661	18	57	633	1,313	1,715	1,300	625	-
Not married	27,126	815	1,787	7,658	8,093	5,303	2,588	882	-
Other/Unknown	4,736	95	217	1,048	1,323	1,096	674	283	-
Gestational Age (Weeks)									
≤6	16,732	330	846	4,231	5,012	3,615	1,933	765	-
7 - 8	10,674	256	573	2,648	3,040	2,349	1,299	509	-
9 - 10	4,215	132	260	1,044	1,186	905	501	187	-
11 - 12	2,026	64	137	515	550	398	260	102	-
13 - 15	1,625	51	92	388	388	352	239	115	-
16 - 20	1,477	50	98	338	380	316	213	82	-
≥21	773	45	54	175	173	179	117	30	-
Unknown	1	-	1	-	-	-	-	-	-
Type of Primary Termination Procedure									
Suction curettage	20,777	483	1,067	4,972	6,065	4,565	2,578	1,047	-
Sharp curettage / D+C	797	18	19	126	192	187	163	92	-
Dilation and evacuation	2,477	87	146	574	599	560	374	137	-
Intrauterine instillation	29	0	1	2	3	13	4	6	-
Hysterotomy / hysterectomy	34	1	0	8	11	6	5	3	-
Medical (non-surgical)	13,372	337	828	3,653	3,851	2,770	1,429	504	-
Other	37	2	0	4	8	13	9	1	-
Procedure Missing	-	-	-	-	-	-	-	-	-

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

PREGNANCY OUTCOMES

Table PO19. Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Racial/Ethnic Group, New York City, 2016-2020*

	2016	2017	2018	2019	2020
Marital Status (Percent)					
Married	14.6	15.3	15.9	16.6	15.1
Not married	75.3	72.9	70.2	73.4	72.3
Other/Unknown	10.1	11.8	13.9	10.0	12.6
Age Group (Years)					
<20	5,400	4,754	4,092	4,161	2,989
20 - 24	16,218	14,492	12,833	12,471	9,339
25 - 29	17,004	15,576	14,259	14,159	10,729
30 - 34	11,607	10,725	10,238	10,414	8,114
35 - 39	6,981	6,474	6,047	6,260	4,562
≥40	2,642	2,368	2,288	2,318	1,790
Unknown	2	2	2	1	-
Racial/Ethnic Group					
Hispanic/Latino	16,718	14,443	14,114	13,112	9,719
Asian and Pacific Islander	3,490	3,047	2,998	3,188	1,626
Non-Hispanic/Latino White	9,139	7,471	6,593	6,414	3,941
Non-Hispanic/Latino Black	23,209	20,569	17,252	17,665	14,043
Other	1,711	1,930	949	1,926	997
Unknown	5,587	6,931	7,853	7,479	7,197
Total	59,854	54,391	49,759	49,784	37,523

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

PREGNANCY OUTCOMES

Table PO20. Characteristics of Birth* and Pregnancy Outcomes by Neighborhood Poverty†, New York City, 2011 and 2020

Birth Characteristics	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
	2020	2011	Change 2011 to 2020 (%)	2020	2011	Change 2011 to 2020 (%)	2020	2011	Change 2011 to 2020 (%)	2020	2011	Change 2011 to 2020 (%)
Births	26,242	24,425	7.4	27,150	30,069	-9.7	15,802	27,150	-41.8	19,860	31,774	-37.5
Population	3,069,075	2,380,405	28.9	2,850,712	2,392,446	19.2	1,456,020	1,710,714	-14.9	1,421,087	1,780,392	-20.2
Birth Rate (per 1,000 pop.)	8.6	10.3	-16.7	9.5	12.6	-24.2	10.9	15.9	-31.6	14.0	17.8	-21.7
Preterm Live Births (%)	8.3	8.8	-5.7	8.7	9.2	-5.4	9.9	9.0	10.0	10.1	9.4	7.4
Low Birth Weight (%)	8.0	8.1	-1.2	8.3	8.5	-2.4	9.2	8.4	9.5	9.4	8.7	8.0
Body Mass Indicator												
Normal (%)	57.2	63.8	-10.3	48.3	55.5	-13.0	44.9	50.3	-10.7	41.8	47.6	-12.2
Overweight/Obese (%)	38.2	30.1	26.9	47.3	38.7	22.2	50.9	44.7	13.9	53.9	47.1	14.4
C-section (%)	34.1	34.9	-2.3	33.3	33.4	-0.3	33.1	31.3	5.8	28.7	29.2	-1.7
Multiple Births (%)	3.3	5.2	-36.5	2.9	3.6	-19.4	2.9	2.9	0.0	2.9	3.1	-6.5
Breastfed Exclusively (%)	55.0	39.2	40.3	44.9	31.1	44.4	36.7	27.7	32.5	33.6	24.6	36.6
Late or No Prenatal Care (%)	4.4	4.1	7.3	6.3	7.1	-11.3	7.3	8.2	-11.0	8.1	8.5	-4.7
Foreign-born (%)‡	45.9	43.5	5.5	57.6	59.4	-3.0	53.5	58.5	-8.5	37.3	46.1	-19.1

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

†See Technical Notes: Neighborhood Poverty. Neighborhood poverty (based on census tract) is defined as percent of residents with incomes below 100% of the Federal Poverty Level.

‡See Technical Notes: Geographical Units, Birthplace Presentation.

PREGNANCY OUTCOMES

Table PO21. Pregnancy Outcomes, Pregnancy Outcome Rates*, and Pregnancy Rates* by Woman's Age Group, Racial/Ethnic Group, and Borough of Residence, New York City, 2020

	Age Group†	Live Births		Spontaneous Terminations		Induced Terminations		Pregnancy		
		Years	Counts‡	Rates per 1,000	Counts‡	Rates per 1,000	Counts‡	Rates per 1,000	Counts‡	Rates per 1,000
New York City§	15-19		2,256	9.6	145	0.6	2,989	12.8	5,390	23.0
	20-29		36,976	55.0	1,788	2.7	20,068	29.9	58,832	87.5
	30-39		54,110	75.3	3,101	4.3	12,676	17.6	69,887	97.2
	40-49		6,680	11.7	759	1.3	1,790	3.1	9,229	16.2
	Total		100,022	11.4	5,793	3.0	37,523	19.6	143,338	74.8
Racial/Ethnic Group¶ 										
Hispanic/Latino	15-19		1,291	15.7	51	0.6	955	11.6	2,297	27.9
	20-29		12,923	66.4	447	2.3	5,466	28.1	18,836	96.7
	30-39		12,765	65.7	535	2.8	2,944	15.2	16,244	83.6
	40-49		1,455	8.8	162	1.0	354	2.1	1,971	11.9
	Total		28,434	11.2	1,195	2.1	9,719	17.5	39,348	70.7
Asian and Pacific Islander	15-19		66	2.2	2	0.1	72	2.4	140	4.7
	20-29		4,834	47.7	122	1.2	735	7.3	5,691	56.2
	30-39		9,728	81.2	295	2.5	692	5.8	10,715	89.4
	40-49		1,005	10.2	61	0.6	127	1.3	1,193	12.1
	Total		15,633	11.9	480	1.6	1,626	5.4	17,739	58.9
Non-Hispanic/Latino White	15-19		286	4.7	10	0.2	175	2.9	471	7.8
	20-29		10,989	50.7	350	1.6	1,855	8.6	13,194	60.9
	30-39		21,776	88.6	1,013	4.1	1,631	6.6	24,420	99.4
	40-49		2,761	16.7	224	1.4	280	1.7	3,265	19.8
	Total		35,812	12.5	1,597	2.6	3,941	6.5	41,350	68.0
Non-Hispanic/Latino Black	15-19		576	10.5	41	0.7	1,222	22.3	1,839	33.5
	20-29		7,591	53.0	456	3.2	7,839	54.7	15,886	110.9
	30-39		8,694	60.1	612	4.2	4,468	30.9	13,774	95.2
	40-49		1,301	10.1	144	1.1	514	4.0	1,959	15.1
	Total		18,162	9.5	1,253	3.1	14,043	34.5	33,458	82.2
Borough of Residence¶¶										
Manhattan	15-19		208	5.4	11	0.3	369	9.5	588	15.2
	20-29		3,118	19.4	185	1.1	2,977	18.5	6,280	39.0
	30-39		9,292	58.1	514	3.2	2,011	12.6	11,817	73.9
	40-49		1,276	12.0	135	1.3	287	2.7	1,698	15.9
	Total		13,894	8.2	845	2.0	5,644	13.6	20,383	49.1
Bronx	15-19		688	14.3	39	0.8	759	15.8	1,486	30.9
	20-29		7,630	68.8	406	3.7	4,630	41.8	12,666	114.2
	30-39		7,100	64.8	499	4.6	2,692	24.6	10,291	93.9
	40-49		854	9.0	120	1.3	312	3.3	1,286	13.5
	Total		16,272	11.0	1,064	3.4	8,393	26.5	25,729	81.1
Brooklyn	15-19		744	10.3	37	0.5	878	12.2	1,659	23.0
	20-29		13,613	64.7	466	2.2	5,536	26.3	19,615	93.2
	30-39		16,866	71.1	780	3.3	3,502	14.8	21,148	89.2
	40-49		2,170	12.3	158	0.9	497	2.8	2,825	16.0
	Total		33,393	12.2	1,441	2.4	10,413	17.0	45,247	74.0
Queens	15-19		428	7.2	42	0.7	625	10.4	1,095	18.3
	20-29		8,008	50.3	499	3.1	4,703	29.5	13,210	82.9
	30-39		11,013	61.2	728	4.0	2,972	16.5	14,713	81.8
	40-49		1,223	7.7	179	1.1	467	3.0	1,869	11.8
	Total		20,672	8.6	1,448	3.0	8,767	18.3	30,887	64.6
Staten Island	15-19		90	5.9	5	0.3	114	7.5	209	13.8
	20-29		1,713	56.1	76	2.5	638	20.9	2,427	79.4
	30-39		2,787	86.3	181	5.6	315	9.8	3,283	101.6
	40-49		260	8.0	42	1.3	40	1.2	342	10.6
	Total		4,850	9.8	304	3.2	1,107	11.8	6,261	66.7

Population data used to calculate rates are 2020 estimates from the US Census Bureau. See Technical Notes: Population.

*See Technical Notes: Population, Vital Event Rates.

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

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

§Includes all events occurring in NYC regardless of residence.

||Other/unknown race and ethnicity are excluded.

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

PREGNANCY OUTCOMES

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

Girls												
Rank 1898	1928	1948	1980	1990	2000	2005	2010	2016	2017	2018	2019	2020
1	Mary	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Isabella	Olivia	Emma	Emma	Emma
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Sophia	Sophia	Olivia	Isabella	Olivia
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Olivia	Emma	Mia	Sophia	Sophia
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Emily	Isabella	Sophia	Mia	Mia
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Madison	Mia	Isabella	Olivia	Isabella
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Mia	Ava	Ava	Ava	Leah
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Emma	Emily	Leah	Leah	Ava
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Leah	Leah	Emily	Sarah	Chloe
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Sarah	Sarah	Sarah	Amelia	Amelia
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Chloe	Madison	Abigail	Chloe	Charlotte

Boys												
Rank 1898	1928	1948	1980	1990	2000	2005	2010	2016	2017	2018	2019	2020
1	John	John	Robert	Michael	Michael	Michael	Michael	Jayden	Liam	Liam	Liam	Liam
2	William	William	John	David	Christopher	Justin	Daniel	Ethan	Jacob	Noah	Noah	Noah
3	Charles	Joseph	James	Jason	Jonathan	Christopher	Joshua	Daniel	Ethan	Jacob	Ethan	Ethan
4	George	James	Michael	Joseph	Anthony	Matthew	David	Jacob	Noah	Ethan	Jacob	Jacob
5	Joseph	Richard	William	Christopher	David	Daniel	Justin	David	Aiden	David	Aiden	Lucas
6	Edward	Edward	Richard	Anthony	Daniel	Anthony	Matthew	Justin	Matthew	Lucas	David	Aiden
7	James	Robert	Joseph	John	Joseph	Joshua	Anthony	Michael	Daniel	Matthew	Lucas	Daniel
8	Louis	Thomas	Thomas	Daniel	Matthew	David	Christopher	Matthew	Lucas	Jayden	Matthew	Michael
9	Francis	George	Stephen	Robert	John	Joseph	Joseph	Joseph	Michael	Aiden	Daniel	David
10	Samuel	Louis	David	James	Andrew	Kevin	Nicholas	Joshua	Dylan	Daniel	Alexander	Matthew

Table PO23. Most Popular Baby Names by Sex and Mother's Racial/Ethnic Group, New York City, 2020

Rank	Girls					Boys				
	Overall	Hispanic/Latino	NHL-Black	NHL-White	Asian & P.I.	Overall	Hispanic/Latino	NHL-Black	NHL-White	Asian & P.I.
1	Emma	Isabella	Ava	Esther	Chloe	Liam	Liam	Noah	Joseph	Ethan
2	Sophia	Emma	Nova	Leah	Olivia	Noah	Noah	Amir	David	Muhammad
3	Mia	Sophia	Zuri	Sarah	Emma	Jacob	Jacob	Elijah	Moshe	Aiden
4	Olivia	Luna	Skylar	Rachel	Mia	Ethan	Matthew	Liam	Jack	Liam
5	Isabella	Mia	Serenity	Miriam	Sophia	Lucas	Dylan	Josiah	Jacob	Lucas
6	Ava	Camilla	Fatoumata*	Olivia	Ava	Joseph	Sebastain	Mason	Benjamin	Jasper
7	Leah	Gianna	Nyla*	Emma	Evelyn	David	Lucas	Zion	Michael	Jayden
8	Sarah	Valentina	Madison	Chaya	Emily	Aiden	Ethan	Kairo	Noah	Ryan
9	Chloe	Alaia	Gianna**	Sophia	Amelia	Alexander	Jayden	Kyrie	Alexander	Noah*
10	Amelia	Amelia	Riley**	Charlotte	Hannah*	Daniel	Angel	Amari*	Chaim	Oliver*
					Isabella*			Jeremiah*		

* Tied ranks

** Tied ranks

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

PERINATAL PERIODS OF RISK (PPOR)

Table 1. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk, Year, and Woman's Racial/Ethnic Group, New York City, 2016-2020

Year	Births and Fetal Deaths*	Maternal Health/Prematurity		Maternal Care		Newborn Care		Infant Health		Total Fetal-Infant Mortality	
	Number	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
2016	120,702	344	2.8	271	2.2	88	0.7	105	0.9	808	6.7
2017	117,320	376	3.2	235	2.0	93	0.8	99	0.8	803	6.8
2018	114,641	314	2.7	274	2.4	85	0.7	100	0.9	773	6.7
2019	110,692	273	2.5	227	2.1	93	0.8	99	0.9	692	6.3
2020	100,307	272	2.7	224	2.2	83	0.8	89	0.9	668	6.7
Woman's Racial/Ethnic Group, 2016-2020											
Puerto Rican	30,119	90	3.0	38	1.3	26	0.9	39	1.3	193	6.4
Hispanic/Latino (not Puerto Rican)	127,495	320	2.5	224	1.8	110	0.9	108	0.8	762	6.0
Asian and Pacific Islander	95,225	189	2.0	141	1.5	51	0.5	56	0.6	437	4.6
Non-Hispanic/Latino White	196,818	321	1.6	321	1.6	129	0.7	96	0.5	867	4.4
Non-Hispanic/Latino Black	104,259	562	5.4	387	3.7	118	1.1	183	1.8	1,250	12.0
Other or Unknown	9,746	97	-	120	-	8	-	10	-	235	-
NEW YORK CITY	563,662	1,579	2.8	1,231	2.2	442	0.8	492	0.9	3,744	6.6

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

PERINATAL PERIODS OF RISK (PPOR)

Table 2. Fetal-Infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk and Community District of Residence, New York City, 2016-2020

Community District of Residence	Births and Fetal Deaths*		Maternal Health/Prematurity		Maternal Care		Newborn Care		Infant Health		Total Fetal-Infant Mortality	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
MANHATTAN	80,698	148	1.8	140	1.7	47	0.6	45	0.6	380	4.7	
Battery Park, Tribeca (01)	5,240	8	1.5	10	1.9	2	0.4	1	0.2	21	4.0	
Greenwich Village, SOHO (02)	3,466	3	0.9	1	0.3	2	0.6	-	-	6	1.7	
Lower East Side (03)	5,657	11	1.9	14	2.5	8	1.4	3	0.5	36	6.4	
Chelsea, Clinton (04)	4,901	8	1.6	9	1.8	1	0.2	3	0.6	21	4.3	
Midtown Business District (05)	2,838	4	1.4	6	2.1	-	0.0	1	0.4	11	3.9	
Murray Hill (06)	6,330	11	1.7	8	1.3	2	0.3	1	0.2	22	3.5	
Upper West Side (07)	11,509	7	0.6	26	2.3	5	0.4	3	0.3	41	3.6	
Upper East Side (08)	12,289	16	1.3	18	1.5	5	0.4	1	0.1	40	3.3	
Manhattanville (09)	4,727	16	3.4	5	1.1	4	0.8	5	1.1	30	6.3	
Central Harlem (10)	7,210	22	3.1	16	2.2	8	1.1	10	1.4	56	7.8	
East Harlem (11)	6,984	20	2.9	15	2.1	7	1.0	11	1.6	53	7.6	
Washington Heights (12)	9,547	22	2.3	12	1.3	3	0.3	6	0.6	43	4.5	
BRONX	91,687	354	3.9	242	2.6	87	0.9	129	1.4	812	8.9	
Mott Haven (01)	7,268	35	4.8	17	2.3	9	1.2	11	1.5	72	9.9	
Hunts Point (02)	3,864	12	3.1	10	2.6	3	0.8	2	-	27	7.0	
Morrisania (03)	6,849	18	2.6	17	2.5	7	1.0	12	1.8	54	7.9	
Concourse, Highbridge (04)	11,256	37	3.3	36	3.2	11	1.0	21	1.9	105	9.3	
University/Morris Heights (05)	10,245	35	3.4	15	1.5	8	0.8	11	1.1	69	6.7	
East Tremont (06)	6,076	26	4.3	24	3.9	9	1.5	15	2.5	74	12.2	
Fordham (07)	10,113	46	4.5	27	2.7	6	0.6	8	0.8	87	8.6	
Riverdale (08)	5,040	16	3.2	13	2.6	4	0.8	3	0.6	36	7.1	
Unionport, Soundview (09)	11,494	41	3.6	31	2.7	12	1.0	22	1.9	106	9.2	
Throgs Neck (10)	4,786	22	4.6	15	3.1	2	0.4	3	0.6	42	8.8	
Pelham Parkway (11)	6,556	23	3.5	14	2.1	7	1.1	12	1.8	56	8.5	
Williamsbridge (12)	8,140	43	5.3	23	2.8	9	1.1	9	1.1	84	10.3	
BROOKLYN	187,068	524	2.8	424	2.3	138	0.7	160	0.9	1,246	6.7	
Williamsburg, Greenpoint (01)	17,933	30	1.7	42	2.3	10	0.6	15	0.8	97	5.4	
Fort Greene, Brooklyn Heights (02)	8,384	14	1.7	19	2.3	1	0.1	5	0.6	39	4.7	
Bedford Stuyvesant (03)	10,881	35	3.2	28	2.6	10	0.9	16	1.5	89	8.2	
Bushwick (04)	5,546	11	2.0	11	2.0	5	0.9	3	0.5	30	5.4	
East New York (05)	12,634	64	5.1	35	2.8	19	1.5	19	1.5	137	10.8	
Park Slope (06)	7,969	15	1.9	12	1.5	5	0.6	6	0.8	38	4.8	
Sunset Park (07)	10,087	27	2.7	13	1.3	4	0.4	3	0.3	47	4.7	
Crown Heights North (08)	6,137	30	4.9	14	2.3	2	0.3	3	0.5	49	8.0	
Crown Heights South (09)	7,006	20	2.9	23	3.3	9	1.3	12	1.7	64	9.1	
Bay Ridge (10)	8,346	17	2.0	11	1.3	4	0.5	3	0.4	35	4.2	
Bensonhurst (11)	12,596	15	1.2	19	1.5	9	0.7	7	0.6	50	4.0	
Borough Park (12)	25,272	45	1.8	51	2.0	18	0.7	10	0.4	124	4.9	
Coney Island (13)	5,877	14	2.4	11	1.9	4	0.7	7	1.2	36	6.1	
Flatbush, Midwood (14)	11,828	42	3.6	19	1.6	5	0.4	10	0.8	76	6.4	
Sheepshead Bay (15)	11,029	26	2.4	22	2.0	9	0.8	7	0.6	64	5.8	
Brownsville (16)	6,159	28	4.5	23	3.7	6	1.0	13	2.1	70	11.4	
East Flatbush (17)	8,792	45	5.1	38	4.3	6	0.7	10	1.1	99	11.3	
Canarsie (18)	10,592	46	4.3	33	3.1	12	1.1	11	1.0	102	9.6	
QUEENS	120,883	309	2.6	256	2.1	74	0.6	110	0.9	749	6.2	
Astoria, Long Island City (01)	9,286	22	2.4	18	1.9	9	1.0	12	1.3	61	6.6	
Sunnyside, Woodside (02)	7,948	9	1.1	15	1.9	3	0.4	4	0.5	31	3.9	
Jackson Heights (03)	10,732	22	2.0	25	2.3	4	0.4	9	0.8	60	5.6	
Elmhurst, Corona (04)	10,996	21	1.9	18	1.6	9	0.8	4	0.4	52	4.7	
Ridgewood, Glendale (05)	8,577	21	2.4	10	1.2	4	0.5	8	0.9	43	5.0	
Rego Park, Forest Hills (06)	6,514	13	2.0	7	1.1	5	0.8	3	0.5	28	4.3	
Flushing (07)	12,351	30	2.4	19	1.5	1	0.1	15	1.2	65	5.3	
Fresh Meadows, Briarwood (08)	8,377	20	2.4	13	1.6	5	0.6	8	1.0	46	5.5	
Woodhaven (09)	8,862	24	2.7	27	3.0	4	0.5	4	0.5	59	6.7	
Howard Beach (10)	6,231	21	3.4	12	1.9	3	0.5	6	1.0	42	6.7	
Bayside (11)	2,903	4	1.4	3	1.0	2	1	2	0.7	11	3.8	
Jamaica, St. Albans (12)	14,143	48	3.4	53	3.7	14	1.0	19	1.3	134	9.5	
Queens Village (13)	7,778	33	4.2	22	2.8	7	0.9	8	1.0	70	9.0	
The Rockaways (14)	6,185	21	3.4	14	2.3	4	0.6	8	1.3	47	7.6	
STATEN ISLAND	25,850	67	2.6	59	2.3	26	1.0	17	0.7	169	6.5	
Port Richmond (01)	11,098	35	3.2	36	3.2	13	1.2	10	0.9	94	8.5	
Willowbrook, South Beach (02)	7,021	24	3.4	13	1.9	7	1.0	1	0.1	45	6.4	
Tottenville (03)	7,665	8	1.0	10	1.3	6	0.8	6	0.8	30	3.9	
NEW YORK CITY RESIDENTS	563,662	1,402	2.5	1,121	2.0	372	0.7	461	0.8	3,356	6.0	
NON-RESIDENTS	57,424	169	2.9	107	1.9	67	1.2	28	0.5	371	6.5	
RESIDENCE UNKNOWN	52	8	-	3	-	3	-	3	-	17	-	

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

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

INFANT MORTALITY

Table IM1. Infant Deaths by Cause, Sex, and Age, New York City, 2020

Cause of Death (ICD-10 Codes)	Total	Male		Female	
		Neonatal (<28 days)	Post-Neonatal (≥28 days)	Neonatal (<28 days)	Post-Neonatal (≥28 days)
Total	388	128	85	116	59
1 HIV Infection (B20-B24)*	-	-	-	-	-
2 Diseases of the Circulatory System (I00-I99)*	15	-	5	1	9
3 Influenza and Pneumonia (J10-J18)*	2	-	2	-	-
4 Newborn Affected by Maternal Complications of Pregnancy (P01)*	6	1	-	5	-
5 Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)*	8	5	-	3	-
6 Short Gestation and Low Birthweight (P07)*	71	37	6	23	5
7 Intrauterine Hypoxia and Birth Asphyxia (P20-P21)*	6	3	-	3	-
8 Respiratory Distress of Newborn (P22)*	13	6	1	6	-
9 Pulmonary Hemorrhage Originating in the Perinatal Period (P26)*	5	2	-	3	-
10 Atelectasis (P28.0-P28.1)*	2	2	-	-	-
11 Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)†	5	3	-	2	-
12 Cardiovascular Disorders Originating in the Perinatal Period (P29)†	32	18	-	12	2
13 Infections Specific to the Perinatal Period (P35-P39)†	10	5	-	5	-
Bacterial sepsis of newborn (P36)	10	5	-	5	-
14 Neonatal Hemorrhage (P50-P52, P54)*	4	3	-	1	-
15 Necrotizing Enterocolitis of Newborn (P77)*	5	2	1	2	-
16 Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)	27	12	-	15	-
17 Congenital Malformations, Deformations (Q00-Q99)*	77	20	20	25	12
Congenital malformations of heart (Q20-Q24)	23	1	14	6	2
18 Sudden Infant Death Syndrome (R95)*	9	-	4	1	4
19 COVID-19	2	-	1	-	1
20 All Other Diseases (Rest of A00-R99)	46	5	23	2	16
21 External Causes (V01-Y89)†	43	4	22	7	10

*Causes are used to rank leading causes nationally and in New York City.

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

Table IM2. Live Births and Infant Deaths by Mother's Racial/Ethnic Group[†] and Characteristics of Infant, New York City, 2020

Characteristics	Live Births						Infant Deaths														
	Total		Hispanic/Latino		Non-Hispanic/Latino		Total		Early-Neonatal (< 7 days)		Neonatal (< 28 days)		Post-Neonatal (> 28 days)								
	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino						
Total	100,022	28,434	35,812	18,162	15,633	388	129	77	126	44	244	83	52	69	30	144	46	25	57	14	
Sex of Child																					
Male	51,255	14,571	18,345	9,220	8,100	213	72	40	64	28	128	46	27	32	16	85	26	13	32	12	
Female	48,767	13,863	17,467	8,942	7,533	175	57	37	62	16	116	37	25	37	14	59	20	12	25	2	
Birthweight at Delivery (Grams)																					
Low birthweight (<2,500)	8,702	2,573	2,136	2,376	1,422	261	87	46	88	33	188	65	35	58	24	73	22	11	30	9	
Very low birthweight (<1,500)	1,416	445	254	520	165	191	58	29	71	26	129	41	24	43	15	149	45	26	52	20	
2,500-4,000	85,489	24,073	31,109	14,961	13,679	98	33	26	30	9	42	15	14	9	4	56	18	12	21	5	
Above 4,000	5,823	1,788	2,567	825	531	4	3	1	0	-	2	-	-	-	2	1	1	1	1	-	
Not stated	8	-	-	-	-	2	-	-	-	1	2	-	-	-	1	-	-	-	-	-	
Unmatched*	-	-	-	-	-	23	6	4	8	1	10	1	3	2	1	13	5	1	6	-	
Gestational Age (Weeks)																					
Preterm (<37)	9,261	3,003	2,398	2,395	1,292	247	78	43	86	33	160	55	32	48	19	186	61	36	58	25	
Very preterm (<32)	1,522	498	283	543	167	196	56	34	72	27	136	41	28	45	16	157	45	30	54	22	
Full-term	90,751	33,414	15,765	14,359	17,161	118	45	30	32	10	32	16	8	4	3	48	21	13	9	4	
Not stated	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unmatched*	-	-	-	-	-	23	6	4	8	1	10	1	3	2	1	15	5	1	6	-	
Plurality																					
Singletons	96,833	27,563	34,638	17,457	15,280	300	113	55	88	39	147	64	27	32	19	185	75	35	44	26	
Multiples	3,189	871	1,174	705	373	65	10	18	30	4	45	7	13	20	3	49	7	14	23	3	
Unmatched*	-	-	-	-	-	23	6	4	8	1	6	1	2	-	-	10	1	3	2	1	
Plurality unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

† Other/not stated maternal racial/ethnic groups are not included in this table. Therefore, the total is not equal to the sum of the racial/ethnic groups. NHL= Non-Hispanic/Latino.

Table IM3. Infant Mortality Rate by Mother's Racial/Ethnic Group and Characteristics of Infant, New York City, 2020

Characteristics	Total						Early-Neonatal (< 7 days)						Neonatal (< 28 days)						Post-Neonatal (> 28 days)					
	Total		Hispanic/Latino		Non-Hispanic/Latino		Total		Hispanic/Latino		Non-Hispanic/Latino		Total		Hispanic/Latino		Non-Hispanic/Latino		Total		Hispanic/Latino		Non-Hispanic/Latino	
	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino	Total	Hispanic/Latino	Non-Hispanic/Latino
Total	3.9	4.5	2.2	6.9	2.8	2.0	2.0	2.5	1.2	2.9	1.4	2.4	2.9	1.5	3.8	1.9	1.4	1.6	0.7	3.1	0.9	0.9	0.9	
Sex of Child																								
Male	4.2	4.9	2.2	6.9	3.5	2.1	2.7	1.3	2.7	1.6	2.5	3.2	1.5	3.5	2.0	1.7	1.8	0.7	3.5	1.5	1.5	1.5		
Female	3.6	4.1	2.1	6.9	2.1	1.8	2.3	1.1	3.0	1.2	2.4	2.7	1.4	4.1	1.9	1.2	1.4	0.7	2.8	0.3	0.3	0.3		
Birthweight at Delivery (Grams)																								
Low birthweight (<2,500)	30.0	33.8	21.5	37.0	23.2	18.5	22.5	14.5	20.2	12.7	21.6	25.3	16.4	24.4	16.9	8.4	8.6	5.1	12.6	6.3	6.3	6.3		
Very low birthweight (<1,500)	134.9	130.3	114.2	136.5	157.6	91.1	92.1	94.5	82.7	90.9	105.2	101.1	102.4	100.0	121.2	29.7	29.2	11.8	36.5	36.4	36.4			
2,500-4,000	1.1	1.4	0.8	2.0	0.7	0.3	0.5	0.3	0.3	0.2	0.5	0.6	0.5	0.6	0.3	0.7	0.7	0.4	1.4	0.4	0.4			
Above 4,000	0.7	1.7	0.4	-	-	0.3	1.1	-	-	-	0.3	-	-	-	-	0.3	0.6	0.4	-	-	-			
Gestational Age (Weeks)																								
Preterm (<37)	26.7	26.0	17.9	35.9	25.5	17.3	18.3	13.3	20.0	14.7	20.1	20.3	15.0	24.2	19.3	6.6	5.7	2.9	11.7	6.2	6.2			
Very preterm (<32)	128.8	112.4	120.1	132.6	161.7	89.4	82.3	98.9	82.9	95.8	103.2	90.4	106.0	99.4	131.7	25.6	22.1	14.1	33.1	29.9	29.9			
Full-term	1.3	1.3	1.9	2.2	0.6	0.4	0.5	0.5	0.3	0.2	0.5	0.6	0.8	0.6	0.2	0.8	0.7	1.1	1.6	0.3	0.3			
Plurality																								
Singletons	3.1	4.1	1.6	5.0	2.6	1.5	2.3	0.8	1.8	1.2	1.9	2.7	1.0	2.5	1.7	1.2	1.4	0.6	2.5	0.9	0.9			
Multiples	20.4	11.5	15.3	42.6	10.7	14.1	8.0	11.1	28.4	8.0	15.4	8.0	11.9	32.6	8.0	5.0	3.4	3.4	9.9	2.7	2.7			

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Table IM4. Live Births and Infant Mortality, Overall and by Mother's Racial/Ethnic Group, New York City, 2016-2020

Mother's Racial/Ethnic Group	2016	2017	2018	2019	2020
Live Births, Total	120,367	117,013	114,296	110,442	100,022
Puerto Rican	7,159	6,307	5,995	5,422	5,198
Hispanic/Latino (not Puerto Rican)	26,915	26,553	25,711	24,796	23,236
Asian and Pacific Islander	21,566	20,110	19,024	18,725	15,633
Non-Hispanic/Latino White	40,633	40,345	40,327	39,278	35,812
Non-Hispanic/Latino Black	22,465	21,992	21,145	20,053	18,162
Other or Unknown	1,629	1,706	2,094	2,168	1,981
Infant Deaths (< 1 year), Total	491	500	446	464	388
Puerto Rican	24	40	32	28	30
Hispanic/Latino (not Puerto Rican)	102	115	87	97	99
Asian and Pacific Islander	62	69	51	46	44
Non-Hispanic/Latino White	105	95	94	104	77
Non-Hispanic/Latino Black	180	171	166	173	126
Other or Unknown	18	10	16	16	12
Infant Mortality Rate, Total	4.1	4.3	3.9	4.2	3.9
Puerto Rican	3.4	6.3	5.3	5.2	5.8
Hispanic/Latino (not Puerto Rican)	3.8	4.3	3.4	3.9	4.3
Asian and Pacific Islander	2.9	3.4	2.7	2.5	2.8
Non-Hispanic/Latino White	2.6	2.4	2.3	2.6	2.2
Non-Hispanic/Latino Black	8.0	7.8	7.9	8.6	6.9
Neonatal Deaths (< 28 days), Total	312	344	278	305	244
Puerto Rican	17	26	21	15	18
Hispanic/Latino (not Puerto Rican)	65	76	47	71	65
Asian and Pacific Islander	43	52	33	30	30
Non-Hispanic/Latino White	65	66	69	73	52
Non-Hispanic/Latino Black	109	121	95	106	69
Neonatal Mortality Rate, Total	2.6	2.9	2.4	2.8	2.4
Puerto Rican	2.4	4.1	3.5	2.8	3.5
Hispanic/Latino (not Puerto Rican)	2.4	2.9	1.8	2.9	2.8
Asian and Pacific Islander	2.0	2.6	1.7	1.6	1.9
Non-Hispanic/Latino White	1.6	1.6	1.7	1.9	1.5
Non-Hispanic/Latino Black	4.9	5.5	4.5	5.3	3.8

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Table IM5. Infant Mortality Rate by Mother's Birthplace*, New York City, 2014-2020

Birthplace [†]	2014-2016	2015-2017	2016-2018	2017-2019	2018-2020
New York City	4.2	4.2	4.1	4.1	4.0
United States[‡]	4.5	4.4	4.2	4.3	4.0
United States (excluding Puerto Rico)	4.5	4.4	4.1	4.3	4.1
Puerto Rico	5.5	6.0	5.2	3.8	1.8
El Salvador	5.5	4.1	6.0	6.9	8.9
Haiti	7.0	7.6	7.3	7.8	7.8
Jamaica	6.8	6.5	7.6	7.0	6.1
Guyana	4.3	4.8	4.5	4.5	5.7
Nigeria	0.9	1.6	3.1	4.6	5.6
Trinidad and Tobago	7.2	5.2	3.6	3.6	5.0
Israel	2.7	1.2	2.8	3.7	4.7
Yemen Arab Republic	3.8	4.7	4.9	5.1	4.4
Guatemala	2.4	3.1	3.1	3.4	4.4
Pakistan	6.7	6.4	5.1	4.2	4.0
Phillipines	1.9	2.4	4.5	4.8	4.0
Ghana	3.8	6.3	5.9	5.5	3.8
Ecuador	3.8	3.8	3.0	3.4	3.6
Honduras	3.5	2.2	2.2	3.4	3.4
Bangladesh	3.1	4.5	4.2	4.3	3.1
India	2.8	2.4	2.6	2.7	3.1
Dominican Republic	3.9	3.7	2.9	2.8	3.0
Mexico	2.4	3.0	3.1	3.5	2.8
United Kingdom	0.6	1.3	0.7	1.4	2.8
Canada	3.0	2.6	1.5	1.0	2.7
Russia	2.0	2.0	2.8	1.8	2.3
Japan	2.8	2.9	2.4	0.8	1.8
Egypt	3.4	3.8	2.6	2.9	1.7
Colombia	4.6	5.0	3.9	2.3	1.5
Uzbekistan	1.1	1.8	2.2	2.2	1.5
China	1.6	1.7	1.8	1.9	1.5
Poland	1.5	2.1	1.1	1.9	1.4
Ukraine	1.1	1.5	2.0	1.3	1.4
Korea	2.6	3.3	1.6	1.2	0.0

*The infant mortality rate is listed only for countries with 500 or more live births in any year from 2014-2020.

[†]Foreign countries are listed according to the descending order of infant mortality rates in the most current period.

[‡]See Technical Notes: Geographical Units, Birthplace Presentation.

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Table IM6. Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2016–2020

CD	NEW YORK CITY	2016–2018*		2017–2019*		2018–2020*	
		Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate	Infant Mortality Rate	Neonatal† Mortality Rate
	NEW YORK CITY	4.1	2.7	4.1	2.7	4.0	2.5
	MANHATTAN	2.6	1.8	2.7	1.9	2.5	1.7
101	Battery Park, Tribeca	1.5	0.9	1.8	1.2	1.3	1.3
102	Greenwich Village, SOHO	0.9	0.9	0.0	0.0	0.0	0.0
103	Lower East Side	3.8	3.0	3.2	2.3	2.2	1.3
104	Chelsea, Clinton	1.3	1.0	2.3	1.7	2.4	1.7
105	Midtown Business District	1.8	1.2	3.4	1.7	3.5	1.8
106	Murray Hill	2.8	2.1	2.6	1.8	1.6	1.3
107	Upper West Side	1.0	0.8	1.4	1.1	2.0	1.5
108	Upper East Side	1.8	1.3	1.2	1.2	0.8	0.8
109	Manhattanville	4.4	3.3	3.5	2.4	2.6	1.5
110	Central Harlem	4.0	2.0	5.7	3.6	5.5	3.6
111	East Harlem	5.0	2.5	5.9	3.7	5.6	3.5
112	Washington Heights	3.3	2.5	2.4	1.7	2.8	1.5
	BRONX	4.8	2.8	5.2	3.2	5.1	3.1
201	Mott Haven	5.7	2.6	6.5	3.5	5.4	3.2
202	Hunts Point	2.1	1.2	4.3	2.6	4.0	2.2
203	Morrisania	5.4	3.0	5	3.1	6.5	3.7
204	Concourse, Highbridge	5.2	2.9	5.3	2.8	5.3	2.9
205	University/Morris Heights	4.6	3.1	4.3	2.7	4.0	2.2
206	East Tremont	7.0	4.9	8.4	5.1	6.2	2.8
207	Fordham	4.1	3.0	3.8	3	4.2	3.0
208	Riverdale	2.9	1.6	2.9	1.9	3.8	2.7
209	Unionport, Soundview	5.9	2.9	5.8	2.9	4.3	2.2
210	Throgs Neck	3.0	1.7	3.5	2.5	2.9	2.5
211	Pelham Parkway	3.4	1.0	4.7	2.2	6.0	3.1
212	Williamsbridge	5.7	4.3	7.1	6.1	8.1	6.4
	BROOKLYN	3.5	2.3	3.5	2.2	3.3	2.0
301	Williamsburg, Greenpoint	2.6	1.4	1.9	0.9	1.2	0.6
302	Fort Greene, Brooklyn Heights	1.6	0.6	1.9	1.2	2.2	1.8
303	Bedford Stuyvesant	4.3	2.7	4.2	2.3	4.9	3.0
304	Bushwick	1.4	0.8	2.7	1.5	3.2	1.9
305	East New York	6.9	4.8	7.5	4.9	6.9	4.3
306	Park Slope	2.8	1.8	2.1	1.2	1.7	1.5
307	Sunset Park	2.5	1.6	2.5	1.8	2.0	1.5
308	Crown Heights North	4.4	3.4	3.6	2.5	3.4	1.7
309	Crown Heights South	5.9	3.7	6.1	4.2	6.1	3.9
310	Bay Ridge	1.7	1.1	1.8	1.0	2.6	1.5
311	Bensonhurst	2.8	2.1	2.6	2.3	2.4	2.1
312	Borough Park	1.5	1.2	2.1	1.5	2.0	1.2
313	Coney Island	3.6	2.2	4.0	2.0	4.7	2.6
314	Flatbush, Midwood	3.8	2.8	3.2	2.1	2.4	1.5
315	Sheepshead Bay	2.7	1.5	3.7	2.5	2.6	1.8
316	Brownsville	6.3	3.4	7.3	3.8	6.2	3.4
317	East Flatbush	5.6	3.4	5.6	3.2	5.9	3.4
318	Canarsie	6.4	3.9	5.1	2.8	3.6	1.6
	QUEENS	4.1	2.8	3.9	2.6	3.9	2.5
401	Astoria, Long Island City	6.0	3.8	4.8	2.7	3.1	1.7
402	Sunnyside, Woodside	2.8	2.4	2.1	1.9	2.4	1.9
403	Jackson Heights	2.6	1.8	2.3	1.7	2.5	1.5
404	Elmhurst, Corona	3.1	2.3	2.9	2.3	3.3	2.8
405	Ridgewood, Glendale	3.2	1.7	3.3	2.0	2.9	1.0
406	Rego Park, Forest Hills	1.7	1.2	2.3	1.5	3.5	2.4
407	Flushing	3.6	1.9	3.5	2.0	2.8	1.8
408	Fresh Meadows, Briarwood	3.2	2.2	3.7	2.4	3.8	2.5
409	Woodhaven	3.8	3.0	2.8	1.5	3.9	2.6
410	Howard Beach	4.7	3.9	2.7	2.1	3.9	2.5
411	Bayside	4.7	3.1	6.4	4.6	5.1	2.6
412	Jamaica, St. Albans	6.0	3.8	5.2	3.8	5.5	3.6
413	Queens Village	8.1	5.7	9.3	6.8	7.7	5.2
414	The Rockaways	4.4	2.1	4.7	2.4	5.0	2.5
	STATEN ISLAND	4.4	3.3	4.6	3.5	3.4	2.4
501	Port Richmond	5.3	3.8	5.8	4.2	4.8	2.8
502	Willowbrook, South Beach	5.2	4.2	4.8	4.3	2.7	2.7
503	Tottenville	2.4	1.7	2.6	1.9	2.2	1.6

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

†Neonatal infants are those less than 28 days old.



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Table IM7. Live Births and Infant Mortality Rate by Characteristics of Mother and Infant, New York City, 2020

Characteristics	Infant Mortality Rate (IMR) Per 1,000 Live Births									
	Live Births		All				Neonatal*		Post-Neonatal*	
	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate		
Total	100,022	100.0	388	3.9	244	2.4	144	1.4		
Race/Ethnicity										
Puerto Rican	5,198	5.2	30	5.8	18	3.5	12	2.3		
Hispanic/Latino not of Puerto Rican ancestry	23,236	23.2	99	4.3	65	2.8	34	1.5		
Asian and Pacific Islander	15,633	15.6	44	2.8	30	1.9	14	0.9		
Non-Hispanic/Latino White	35,812	35.8	77	2.2	52	1.5	25	0.7		
Non-Hispanic/Latino Black	18,162	18.2	126	6.9	69	3.8	57	3.1		
Other and Unknown	1,981	2.0	12	-	10	-	2	-		
Borough of Residence										
Manhattan	13,894	13.9	32	2.3	19	1.4	13	0.9		
Bronx	16,272	16.3	85	5.2	55	3.4	30	1.8		
Brooklyn	33,393	33.4	90	2.7	51	1.5	39	1.2		
Queens	20,672	20.7	94	4.5	60	2.9	34	1.6		
Staten Island	4,850	4.8	17	3.5	12	2.5	5	1.0		
Non-NYC residents	10,939	10.9	67	6.1	45	4.1	22	2.0		
Unknown	2	-	3	-	2	-	1	-		
Age of Mother										
Age <18	558	0.6	3	5.4	1	1.8	2	3.6		
Age 18-19	1,698	1.7	10	5.9	6	3.5	4	2.4		
Age 20-29	36,976	37.0	167	4.5	99	2.7	68	1.8		
Age 30-39	54,110	54.1	155	2.9	105	1.9	50	0.9		
Age ≥40	6,680	6.7	30	4.5	23	3.4	7	1.0		
Age unknown	-	-	-	-	-	-	-	-		
Unmatched†	-	-	23	-	10	-	13	-		
Mother's Education										
11th grade or less/12th grade, no diploma	14,245	14.2	62	4.4	37	2.6	25	1.8		
High school graduate or GED	23,273	23.3	111	4.8	63	2.7	48	2.1		
Some college/associate degree	21,067	21.1	86	4.1	53	2.5	33	1.6		
Bachelor's degree	22,028	22.0	49	2.2	39	1.8	10	0.5		
Master's degree or higher	18,894	18.9	32	1.7	21	1.1	11	0.6		
Mother's education unknown	515	0.5	25	-	21	-	4	-		
Unmatched†	-	-	23	-	10	-	13	-		
Marital Status of Mother‡										
Not married	36,963	37.0	194	5.2	123	3.3	71	1.9		
Married	63,059	63.0	171	2.7	111	1.8	60	1.0		
Unmatched†	-	-	23	-	10	-	13	-		
Mother's Birthplaces										
US born, including territories	52,489	52.5	199	3.8	119	2.3	80	1.5		
Foreign-born	47,416	47.4	158	3.3	107	2.3	51	1.1		
Birthplace unknown	117	0.1	8	-	8	-	-	-		
Unmatched†	-	-	23	-	10	-	13	-		
Primary Payer for This Birth										
Medicaid/Family Plus/Child PlusB/Other Govt	55,114	55.1	236	4.3	146	2.6	90	1.6		
Other	44,133	44.1	122	2.8	85	1.9	37	0.8		
Coverage unknown	775	0.8	7	-	3	-	4	-		
Unmatched†	-	-	23	-	10	-	13	-		
Plurality										
Singletons	96,833	96.8	300	3.1	185	1.9	115	1.2		
Multiples	3,189	3.2	65	20.4	49	15.4	16	5.0		
Unmatched†	-	-	23	-	10	-	13	-		
First Prenatal Care Visit										
No prenatal care	985	1.0	16	16.2	11	11.2	5	5.1		
First Trimester (1-3 months)	73,449	73.4	222	3.0	138	1.9	84	1.1		
Second Trimester (4-6 months)	18,018	18.0	73	4.1	47	2.6	26	1.4		
Third Trimester (7-9 months)	4,946	4.9	22	4.4	14	2.8	8	1.6		
Prenatal care unknown	2,624	2.6	32	-	24	-	8	-		
Unmatched†	-	-	23	-	10	-	13	-		
Pre-pregnancy Body Mass Index (BMI)										
Underweight (BMI<18.5)	4,342	4.3	9	2.1	6	1.4	3	0.7		
Normal weight (18.5≤BMI<25)	49,287	49.3	141	2.9	90	1.8	51	1.0		
Overweight (25≤BMI<30)	25,847	25.8	102	3.9	61	2.4	41	1.6		
Obese (BMI≥30)	20,141	20.1	105	5.2	70	3.5	35	1.7		
Pre-pregnancy BMI unknown	405	0.4	8	19.8	7	17.3	1	2.5		
Unmatched†	-	-	23	-	10	-	13	-		
Birthweight										
Very low birthweight	1,416	1.4	191	134.9	149	105.2	42	29.7		
Low birthweight	7,286	7.3	70	9.6	39	5.4	31	4.3		
Normal birthweight	91,312	91.3	102	1.1	44	0.5	58	0.6		
Birthweight unknown	8	-	2	-	2	-	-	-		
Unmatched†	-	-	23	-	10	-	13	-		

*Neonatal infants are those less than 28 days old; post-neonatal infants are those 28 days to less than 1 year old.

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

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

§See Technical Notes: Geographical Units, Birthplace Presentation.

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Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2020

Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Borough of Residence								Sex		ICD-10/ICD-9 Comparability Ratio
	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Unknown	Male	Female	
Total Deaths	82,143	13,248	15,146	23,973	19,972	4,870	4,686	248	43,629	38,514	
Natural Causes	77,626	12,463	14,180	22,893	19,084	4,627	4,252	127	40,251	37,375	
1.* Tuberculosis (A16-A19)	22	4	3	8	6	-	1	-	13	9	0.88
Respiratory tuberculosis (A16)	19	4	2	6	6	-	1	-	12	7	0.94
2.* Septicemia (A40-A41)	657	138	147	174	133	20	45	-	354	303	1.19
3.* Viral Hepatitis (B15-B19)	111	20	32	26	17	5	11	-	69	42	0.71
4.* Human Immunodeficiency Virus (HIV) Disease (B20-B24)	340	66	112	101	43	8	8	2	229	111	1.08
5. All Other Infective and Parasitic Diseases (Rest of A01-B99)	401	69	89	111	73	15	42	2	202	199	
6.* Malignant Neoplasms (C00-C97)	11,670	2,062	1,797	3,112	2,630	800	1,264	5	5,701	5,969	1.01
Lip, oral cavity, and pharynx (C00-C14)	219	46	43	58	48	8	15	1	148	71	0.96
Esophagus (C15)	207	37	29	47	59	16	19	-	147	60	0.99
Stomach (C16)	392	57	51	119	100	19	46	-	247	145	1.01
Colon, rectum, and anus (C18-C21)	1,136	198	154	324	273	81	106	-	596	540	1.00
Liver and intrahepatic bile ducts (C22)	613	86	143	137	145	31	71	-	405	208	0.96
Pancreas (C25)	1,027	186	131	286	247	75	101	1	513	514	1.00
Larynx (C32)	54	8	12	15	8	3	8	-	42	12	1.01
Trachea, bronchus, and lung (C33-C34)	2,021	347	316	562	447	184	163	2	1,085	936	0.98
Melanoma of skin (C43)	85	18	5	20	17	8	17	-	40	45	0.95
Mesothelioma (C45)	39	14	4	9	7	3	2	-	24	15	
Breast (C50)	977	168	143	299	200	61	105	1	10	967	1.01
Cervix uteri (C53)	109	12	23	29	31	6	8	-	-	109	1.00
Corpus uteri and uterus, part unspecified (C54-C55)	391	59	74	135	75	25	23	-	-	391	1.02
Ovary (C56)	308	70	44	90	58	17	29	-	-	308	0.99
Prostate (C61)	580	113	112	148	134	36	37	-	580	-	1.01
Kidney and renal pelvis (C64-C65)	217	35	38	60	42	18	24	-	137	80	1.00
Bladder (C67)	260	51	36	66	53	20	34	-	163	97	1.00
Meninges, brain, and other parts of central nervous system (C70-C72)	307	68	48	72	65	19	35	-	166	141	0.98
Lymphoid, hematopoietic and related tissues (C81-C96)	1,198	217	175	272	228	81	225	-	698	500	1.00
Hodgkin's disease (C81)	28	6	6	7	4	2	3	-	17	11	1.00
Non-Hodgkin's lymphoma (C82-C85)	415	77	61	93	69	33	82	-	242	173	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90)	262	42	46	67	57	14	36	-	150	112	1.04
Leukemia (C91-C95)	489	92	62	102	97	32	104	-	285	204	1.01
7.* In Situ or Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior (D00-D48)	269	56	31	70	43	22	46	1	131	138	1.63
8.* Anemias (D50-D64)	80	9	26	21	15	2	7	-	33	47	0.94
9.* Diabetes Mellitus (E10-E14)	2,219	312	425	754	504	154	69	1	1,136	1,083	1.02
10.† Mental and Behavioral Disorders Due to Use of Alcohol (F10)	362	63	66	97	99	11	10	16	287	75	
11. Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco (F11-F16, F18-F19) ‡	100	23	29	17	12	3	12	4	77	23	
12. Diseases of Nervous System (G00-G98)	2,947	715	469	674	762	224	103	-	1,097	1,850	
* Meningitis (G00,G03)	9	1	1	1	3	2	1	-	4	5	1.01
* Parkinson's disease (G20-G21)	492	122	67	116	129	35	23	-	273	219	1.01
* Alzheimer's disease (G30)	1,129	296	224	261	258	60	30	-	313	816	1.58
13. Major Cardiovascular Diseases (I00-I78)	25,553	4,034	4,412	7,886	6,422	1,661	1,083	55	12,625	12,928	1.00
* Diseases of heart (I00-I09, I11, I13, I20-I51)	21,261	3,238	3,505	6,731	5,464	1,453	820	50	10,700	10,561	0.99
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	44	5	5	18	3	2	11	-	10	34	0.88
Hypertensive heart disease (I11)	3,308	566	598	1,133	693	220	86	12	1,597	1,711	0.80
Hypertensive heart and renal disease (I13)	225	47	54	64	42	14	4	-	125	100	1.13
Chronic ischemic heart disease (I20, I25)	13,972	2,008	2,123	4,427	3,932	980	469	33	7,092	6,880	1.01
Acute myocardial infarction (I21-I22)	1,774	231	401	535	379	128	97	3	933	841	0.99
Cardiomyopathy (I42)	138	22	21	35	37	5	18	-	97	41	

Table continued on following page

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Table M1. Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2020 [CONTINUED]

Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Borough of Residence							Sex		ICD-10/ICD-9 Comparability Ratio	
	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-residents	Unknown	Male		Female
Heart failure (I50)	548	119	73	167	136	34	19	-	276	272	1.04
* Essential hypertension and hypertensive renal disease (I10, I12, I15)	1,592	266	391	426	360	72	76	1	725	867	1.12
* Cerebrovascular diseases (I60-I69)	2,194	430	452	551	491	109	158	3	979	1,215	1.05
* Atherosclerosis (I70)	268	51	28	114	53	14	8	-	105	163	0.97
* Aortic aneurysm and dissection (I71)	109	22	15	25	28	7	11	1	74	35	1.00
14.* Influenza and Pneumonia (J09-J18)	2,049	278	471	655	483	75	82	5	1,110	939	0.70
H1N1 Flu (J09)	3	1	1	-	-	-	1	-	2	1	
15.* Chronic Lower Respiratory Diseases (J40-J47)	1,735	316	400	449	364	137	68	1	822	913	1.04
Emphysema (J43)	72	17	16	22	12	3	2	-	33	39	0.96
Asthma (J45-J46)	204	34	76	53	30	5	6	-	85	119	0.89
16. Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)	1	1	-	-	-	-	-	-	1	-	
17.* Pneumonitis Due to Solids and Liquids (J69)	197	38	36	63	46	4	10	-	109	88	1.10
18.* Peptic Ulcer (K25-K28)	82	16	12	28	16	10	-	-	40	42	0.97
19.* Chronic Liver Disease and Cirrhosis (K70, K73-K74)	608	99	116	140	140	41	71	1	413	195	1.03
Alcoholic liver disease (K70)	403	59	73	94	99	26	51	1	299	104	1.00
20.* Cholelithiasis and Other Disorders of Gallbladder (K80-K82)	72	14	11	15	18	5	9	-	35	37	0.96
21.* Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)	681	102	113	260	130	33	43	-	376	305	1.26
Renal failure (N17-N19)	656	98	109	253	122	33	41	-	365	291	1.33
22.* Pregnancy, Childbirth, and the Puerperium (O00-O99)	22	1	6	7	5	-	3	-	-	22	1.14
Maternal causes (A34, O00-O95, O98-O99)§	19	1	4	6	5	-	3	-	-	19	
23.* Certain Conditions Originating in the Perinatal Period (P00-P96)	198	18	40	48	52	10	30	-	109	89	1.08
24.* Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)	173	18	35	38	36	9	36	1	92	81	0.90
25. Symptoms, Signs, and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)	676	159	97	171	190	28	31	-	260	416	0.98
26. Sudden Infant Death Syndrome (R95)	9	2	5	2	-	-	-	-	4	5	1.06
Pending final determination (R99)	4	2	1	1	-	-	-	-	1	3	
27. Covid-19	21,241	2,800	4,238	6,575	5,687	1,105	814	22	12,655	8,586	
28. All Other Natural Causes (Rest of A00-R99)	5,151	1,030	962	1,391	1,158	245	354	11	2,271	2,880	
External Causes	4,517	785	966	1,080	888	243	434	121	3,378	1,139	
28. Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)	367	36	77	132	57	21	43	1	344	23	1.00
29. Accidents (V01-X59, Y85-Y86)	3,144	552	713	705	600	180	303	91	2,301	843	1.03
Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) †	2,071	363	540	419	360	131	206	52	1,610	461	1.04
† Mental and behavioral disorders due to use of or accidental poisoning by psychoactive substance excluding alcohol and tobacco (F11-F16, F18-F19, X40-X42, X44) ‡	2,171	386	569	436	372	134	218	56	1,687	484	
† Accidents except poisoning by psychoactive substance use	1,073	189	173	286	240	49	97	39	691	382	
Motor vehicle accidents	264	33	50	75	61	10	28	7	189	75	0.95
Accidental falls (W00-W19)	479	96	63	116	127	26	42	9	278	201	0.77
30.* Intentional Self-harm (Suicide) (U03, X60-X84, Y87.0)	547	121	76	124	143	30	45	8	413	134	1.00
31.* Assault (Homicide) (U01-U02, X85-Y09, Y87.1)	486	58	115	157	78	22	48	8	429	57	1.00
32.* Legal Intervention (Y35, Y89.0)	8	-	2	3	2	-	1	-	8	-	0.94
33. Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	255	42	43	75	48	8	25	14	192	63	0.99
34.* Complications of Medical and Surgical Care (Y40-Y84, Y88)	77	12	17	16	17	3	12	-	35	42	0.63
35.* Operations of War and Their Sequelae (Y36, Y89.1)	0	-	-	-	-	-	-	-	-	-	

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

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

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

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

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

Table M2. Deaths and Death Rates per 1,000 Population* by Age, Racial/Ethnic Group, and Sex, New York City, 2020

Age in Years	All		Hispanic/Latino				Non-Hispanic/Latino White				Non-Hispanic/Latino Black				Asian and Pacific Islander				Other/Multiple Race/Unknown																		
	Total		Male		Female		Male		Female		Male		Female		Male		Female		Total	Rate																	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate																	
All Ages	82,143	9.3	43,629	10.3	38,514	8.4	19,311	7.6	10,841	8.8	8,470	6.5	29,358	10.3	15,114	10.8	14,224	9.8	23,195	12.2	11,576	13.3	11,619	11.2	7,542	5.7	4,315	6.9	3,227	4.7	2,757	1.7	974	9.74			
Age-Adjusted	8.0	10.2	6.2	8.2	11.0	8.4	6.9	6.0	6.0	6.0	6.0	5.5	10.3	13.4	8.3	5.4	6.9	4.2	6.9	4.2	6.9	4.2	6.9	4.2	6.9	4.2	6.9	4.2	6.9	4.2	6.9	4.2	6.9	4.2			
Under 5	434	0.8	244	0.9	190	0.7	117	0.7	62	0.7	55	0.6	96	0.6	55	0.7	41	0.5	134	1.3	72	1.3	62	1.2	34	0.4	23	0.6	11	0.3	53	3.2	21	2.1			
5-9	44	0.1	30	0.1	14	0.1	12	0.1	6	0.1	6	0.1	10	0.1	7	0.1	3	0.0	17	0.2	14	0.3	3	0.1	3	0.0	2	0.1	1	0.0	2	1	1	1			
10-14	61	0.1	31	0.1	30	0.1	14	0.1	8	0.1	6	0.1	16	0.1	3	0.0	13	0.2	23	0.2	15	0.3	8	0.1	5	0.1	4	0.1	1	0.0	3	1	2				
15-19	165	0.3	111	0.5	54	0.2	49	0.3	33	0.4	16	0.2	30	0.2	18	0.3	12	0.2	56	0.5	41	0.8	15	0.3	23	0.4	14	0.5	9	0.3	7	5	2				
20-24	433	0.8	321	1.3	112	0.4	138	0.8	109	1.3	29	0.3	96	0.6	59	0.8	37	0.5	156	1.3	117	2.1	39	0.6	29	0.4	26	0.7	3	0.1	14	10	4				
25-29	639	0.8	470	1.3	169	0.4	214	1.0	170	1.6	44	0.4	145	0.6	109	0.9	36	0.3	217	1.4	149	2.0	68	0.8	44	0.4	27	0.5	17	0.3	19	15	4				
30-34	910	1.2	653	1.7	257	0.7	281	1.3	217	2.0	64	0.6	249	0.9	181	1.3	68	0.5	289	1.9	191	2.6	98	1.3	56	0.5	41	0.7	15	0.2	35	23	12				
35-39	1,190	1.8	869	2.7	321	1.0	440	2.3	354	3.7	86	0.9	291	1.3	197	1.7	94	0.9	347	2.7	231	3.9	116	1.7	65	0.6	53	1.1	12	0.2	47	34	13				
40-44	1,413	2.5	954	3.5	459	1.6	495	2.9	361	4.3	134	1.6	315	1.8	220	2.4	95	1.1	451	3.8	276	5.2	175	2.7	92	1.0	56	1.3	36	0.7	60	41	19				
45-49	1,990	3.7	1,347	5.1	643	2.3	680	4.3	493	6.3	187	2.3	423	2.6	306	3.6	117	1.5	634	5.4	379	7.3	255	3.9	170	1.9	114	2.7	56	1.2	83	55	28				
50-54	3,242	5.9	2,131	8.1	1,111	3.9	1,019	6.5	734	9.7	285	3.5	704	4.3	476	5.6	228	2.9	1,103	8.5	654	11.3	449	6.3	273	3.1	167	4.1	106	2.3	143	100	43				
55-59	4,975	9.0	3,217	12.1	1,758	6.1	1,350	9.0	932	13.4	418	5.3	1,122	6.6	737	8.4	385	4.7	1,880	13.6	1,110	18.0	770	10.0	414	4.7	278	6.6	136	3.0	209	160	49				
60-64	6,543	12.7	4,143	17.2	2,400	8.8	1,635	12.9	1,074	18.7	561	8.1	1,668	9.7	1,079	12.7	589	6.8	2,379	18.9	1,395	25.3	984	13.9	578	7.0	381	9.5	197	4.7	283	214	69				
65-69	7,733	18.0	4,691	24.1	3,042	13.0	1,845	18.6	1,136	26.4	709	12.6	2,253	14.0	1,414	18.5	839	10.0	2,542	26.3	1,404	34.4	1,138	20.4	744	11.1	511	15.9	233	6.7	349	226	123				
70-74	8,890	25.6	5,236	34.6	3,654	18.7	2,052	26.9	1,213	38.2	839	18.9	3,024	21.1	1,813	27.7	1,211	15.6	2,667	36.0	1,455	50.1	1,212	27.0	786	15.8	499	21.4	287	10.9	361	256	105				
75-79	9,170	39.5	4,981	52.0	4,189	30.7	2,142	40.7	1,159	55.9	983	30.8	3,096	32.4	1,750	42.1	1,346	25.0	2,767	52.6	1,337	70.2	1,430	42.6	824	28.3	507	38.1	317	20.1	341	228	113				
80-84	10,036	61.3	5,168	80.5	4,868	48.9	2,308	63.3	1,177	87.3	1,131	49.2	3,826	55.0	2,024	69.8	1,802	44.3	2,571	73.5	1,208	101.7	1,363	59.1	1,025	48.7	583	63.1	442	37.5	306	176	130				
>85	24,275	139.5	9,032	153.7	15,243	132.3	4,520	134.5	1,603	150.9	2,917	126.9	11,974	143.5	4,666	155.9	7,308	136.5	4,962	143.7	1,528	159.7	3,434	137.6	2,377	114.5	1,029	126.9	1,348	106.6	442	206	236				
Mean age at death	73.3	69.8	77.2	70.2	66.2	75.3	77.8	71.8	74.4	81.3	74.4	81.3	70.4	75.8	76.9	73.8	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5	72.0	74.5
Median age at death	76	72	80	73	68	81	77	81	77	85	77	85	72	76	69	76	77	74	77	74	77	76	76	77	74	77	74	82	71	69	74	69	74				

* Population data are from the US Census Bureau 2020 Census as of April 1, 2020, released in the 2021 vintage file. See Table PC2 on page 54.

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Table M3. Deaths by Ancestry* and Borough of Residence, New York City, 2020

Mother's Ancestry	Borough of Residence							
	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residence residents	Unknown
Total	82,143	13,248	15,146	23,973	19,972	4,870	4,686	248
Hispanic/Latino								
Colombian	720	70	42	55	512	8	33	-
Cuban	542	155	111	63	168	12	32	1
Dominican	4,283	1,404	1,620	550	562	22	122	3
Ecuadorian	1,460	131	231	252	779	22	44	1
Mexican	1,457	133	321	407	452	82	55	7
Puerto Rican	6,739	1,161	2,890	1,604	666	190	216	12
Other Hisp./Latino	4,110	601	1,223	910	1,024	118	190	44
North American and the Caribbean								
African-American	14,152	2,401	3,645	4,684	2,409	356	600	57
American	11,752	3,110	983	2,514	2,731	1,011	1,401	2
Guyanese	1,606	21	158	596	797	3	29	2
Haitian	1,768	82	41	1,152	395	15	82	1
Jamaican	2,036	57	559	907	408	8	97	-
Trinidadian	893	28	64	540	222	13	26	-
Other North American and the Caribbean	1,356	105	217	789	178	17	48	2
African								
Egyptian	168	19	6	50	40	40	12	1
Ghanaian	156	11	92	27	16	2	7	1
Nigerian	172	8	48	57	27	17	15	-
Other African	342	77	98	66	53	29	18	1
European								
English	272	75	27	43	45	48	34	-
German	574	117	81	41	220	75	40	-
Irish	1,339	116	193	147	455	309	118	1
Italian	4,226	156	486	1,062	982	1,263	276	1
Polish	661	74	29	205	239	80	34	-
Russian	630	58	32	381	94	45	20	-
Other European	3,200	337	219	1,277	1,003	243	121	-
Asian								
Asian Indian	494	29	17	35	299	44	69	1
Bangladeshi	689	24	119	114	414	3	15	-
Chinese	3,886	925	42	1,281	1,420	124	94	-
Filipino	568	45	49	49	335	51	39	-
Korean	538	24	19	29	414	14	36	2
Pakistani	315	10	14	124	117	22	28	-
Other Asian	1,088	132	88	285	440	64	78	1
Other								
Jewish or Hebrew	3,530	304	142	2,296	443	140	203	2
Other or Not Stated	6,421	1,248	1,240	1,381	1,613	380	454	105

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

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Table M4. Deaths by Place of Death*, New York City, 2016-2020

Place of Death	2016		2017		2018		2019		2020	
	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	54,280	100.0	54,319	100.0	55,081	100.0	54,559	100.0	82,143	100.0
Hospital Inpatient	25,111	46.3	24,883	45.8	24,964	45.3	25,097	46.0	39,209	47.7
Emergency/Outpatient	4,584	8.4	4,646	8.6	4,997	9.1	4,996	9.2	6,637	8.1
Dead on Arrival (DOA)	706	1.3	682	1.3	668	1.2	573	1.1	452	0.6
Nursing Home/Long Term Care Facility	7,381	13.6	7,779	14.3	7,945	14.4	7,974	14.6	12,158	14.8
Hospice Facility	2,611	4.8	1,936	3.6	1,387	2.5	949	1.7	671	0.8
Decedents' Residence	13,045	24.0	13,610	25.1	14,326	26.0	14,186	26.0	21,927	26.7
Other	842	1.6	783	1.4	794	1.4	784	1.4	1,089	1.3
Unknown or Not Stated	-	-	-	-	-	-	-	-	-	-

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

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Table M5. Deaths by Birthplace and Borough of Residence, New York City, 2020*

Birthplace	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	82,143	13,248	15,146	23,973	19,972	4,870	4,686	248
United States	43,216	8,102	9,317	10,963	8,109	3,516	3,158	51
United States (excluding Puerto Rico)	37,679	7,096	6,892	9,621	7,615	3,391	3,020	44
Puerto Rico	5,537	1,006	2,425	1,342	494	125	138	7
Dominican Republic	4,187	1,356	1,593	558	550	25	102	3
China	3,565	860	37	1,206	1,268	108	86	-
Jamaica	2,416	79	701	986	504	13	132	1
Haiti	1,875	96	41	1,215	422	15	85	1
Guyana	1,716	28	168	641	834	7	37	1
Ukraine	1,612	48	26	1,293	161	69	15	-
Ecuador	1,475	140	229	249	792	22	42	1
Mexico	1,433	126	311	401	453	83	53	6
Italy	1,291	51	158	439	363	191	89	-
Trinidad and Tobago	1,027	42	84	601	254	20	26	-
Russia	735	59	31	477	107	40	21	-
Colombia	724	70	44	55	515	10	30	-
Bangladesh	707	24	117	119	431	3	13	-
Poland	629	76	23	270	196	39	25	-
Philippines	628	59	54	61	352	60	42	-
Cuba	559	160	115	66	175	12	31	-
India	557	37	17	40	333	47	82	1
Korea	509	27	20	29	387	12	32	2
Greece	441	39	22	69	280	12	19	-
Barbados	429	16	35	303	62	4	8	1
Germany	387	119	41	70	120	16	21	-
Panama	378	17	28	260	63	7	3	-
Peru	375	33	41	38	230	12	21	-
Honduras	373	38	169	82	54	12	18	-
Belarus	327	12	7	268	20	18	2	-
El Salvador	310	26	40	61	142	3	37	1
Pakistan	288	8	12	115	111	20	22	-
Grenada	286	6	10	250	15	1	3	1
Ireland	273	37	61	23	116	11	24	1
Romania	261	26	16	95	104	8	12	-
Uzbekistan	255	1	0	91	155	6	2	-
Hungary	252	27	11	156	44	8	6	-
Guatemala	249	15	48	59	108	8	11	-
United Kingdom	210	66	21	50	33	15	25	-
Egypt	207	20	8	71	51	45	12	-
Other or Not Stated	7,981	1,302	1,490	2,243	2,058	372	339	177

*See Technical Notes: Geographical Units, Birthplace Presentation.

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Table M6. Deaths by Birthplace and Age Group, New York City, 2020*

Birthplace	Age Group (Years)									
	Total	<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	82,143	539	598	1,549	2,603	5,232	11,518	16,623	19,206	24,275
United States	43,216	519	456	1,093	1,479	2,863	6,270	8,514	9,690	12,332
United States (excluding Puerto Rico)	37,679	519	455	1,072	1,417	2,692	5,780	7,330	7,897	10,517
Puerto Rico	5,537	-	1	21	62	171	490	1,184	1,793	1,815
Dominican Republic	4,187	2	18	41	113	218	521	995	1,113	1,166
China	3,565	1	7	11	39	129	291	575	882	1,630
Jamaica	2,416	3	16	24	59	124	366	574	653	597
Haiti	1,875	-	2	11	27	77	240	477	502	539
Guyana	1,716	1	7	15	46	118	280	441	432	376
Ukraine	1,612	-	1	9	17	36	82	212	411	844
Ecuador	1,475	-	3	18	64	137	288	340	337	288
Mexico	1,433	-	16	90	267	424	306	176	102	52
Italy	1,291	-	-	-	2	14	61	157	328	729
Trinidad and Tobago	1,027	-	-	8	25	47	181	258	309	199
Russia	735	1	1	8	11	19	45	106	215	329
Colombia	724	-	7	4	7	30	113	135	219	209
Bangladesh	707	-	6	17	25	78	173	230	140	38
Poland	629	-	1	3	22	24	61	96	94	328
Philippines	628	-	-	2	11	41	111	175	178	110
Cuba	559	-	-	1	1	4	35	79	139	300
India	557	-	5	15	17	38	55	153	158	116
Korea	509	-	1	2	9	24	48	84	162	179
Greece	441	-	-	-	1	3	24	69	131	213
Barbados	429	-	1	-	2	11	62	87	113	153
Germany	387	1	-	5	2	6	11	79	50	233
Panama	378	-	2	1	0	10	40	89	113	123
Peru	375	-	-	3	2	20	60	87	103	100
Honduras	373	-	-	4	18	29	72	78	102	70
Belarus	327	-	-	1	5	2	22	44	62	191
El Salvador	310	1	4	9	32	25	79	76	48	36
Pakistan	288	1	6	7	8	31	81	84	50	20
Grenada	286	-	-	2	6	12	51	76	75	64
Ireland	273	-	-	-	3	8	18	20	72	152
Romania	261	-	1	1	2	2	6	39	44	166
Uzbekistan	255	-	1	5	8	12	21	47	72	89
Hungary	252	-	-	-	-	2	8	43	42	157
Guatemala	249	-	7	27	30	36	44	42	37	26
United Kingdom	210	-	1	-	2	20	34	27	62	64
Egypt	207	-	1	3	7	8	24	58	54	52
Other or Not Stated	7,981	9	27	109	234	550	1,334	1,801	1,912	2,005

*See Technical Notes: Geographical Units, Birthplace Presentation.

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Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2020

Rank	ALL AGES	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	21,261	25.9	10,700	24.5	10,561	27.4
2	Covid-19	21,241	25.9	12,655	29.0	8,586	22.3
3	Malignant Neoplasms	11,670	14.2	5,701	13.1	5,969	15.5
4	Diabetes Mellitus	2,219	2.7	1,136	2.6	1,083	2.8
5	Cerebrovascular Diseases	2,194	2.7	979	2.2	1,215	3.2
6	Use of or Poisoning by Psychoactive Substance	2,171	2.6	1,687	3.9	484	1.3
7	Influenza and Pneumonia	2,049	2.5	1,110	2.5	939	2.4
8	Chronic Lower Respiratory Diseases	1,735	2.1	822	1.9	913	2.4
9	Essential Hypertension and Hypertensive Renal Disease	1,592	1.9	725	1.7	867	2.3
10	Alzheimer's Disease	1,129	1.4	313	0.7	816	2.1
	All Other Causes	14,882	18.1	7,801	17.9	7,081	18.4
	Total	82,143	100.0	43,629	100.0	38,514	100.0
Rank	< 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	77	19.8	40	18.8	37	21.1
2	Short Gestation and Low Birthweight	71	18.3	43	20.2	28	16.0
3	External Causes	43	11.1	26	12.2	17	9.7
4	Cardiovascular Disorders Originating in the Perinatal Period	32	8.2	18	8.5	14	8.0
5	Respiratory Distress of Newborn	13	3.4	7	3.3	6	3.4
6	Bacterial Sepsis of Newborn	10	2.6	5	2.3	5	2.9
6	Diseases of Heart	10	2.6	2	0.9	8	4.6
8	Sudden Infant Death Syndrome	9	2.3	4	1.9	5	2.9
9	Newborn Affected by Complications of Placenta	8	2.1	5	2.3	3	1.7
10	Newborn Affected by Complications of Pregnancy	6	1.5	1	0.5	5	2.9
10	Intrauterine hypoxia & Birth Asphyxia	6	1.5	3	1.4	3	1.7
	All Other Causes	103	26.5	59	27.7	44	25.1
	Total	388	100.0	213	100.0	175	100.0
Rank	1 - 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	36	23.8	15	16.3	21	35.6
2	Accidents Except Poisoning by Psychoactive Substance	20	13.2	13	14.1	7	11.9
3	Congenital Malformations, Deformations	12	7.9	8	8.7	4	6.8
4	Covid-19	6	4.0	4	4.3	2	3.4
4	Assault (Homicide)	6	4.0	6	6.5	0	0.0
	All Other Causes	71	47.0	46	50.0	25	42.4
	Total	151	100.0	92	100.0	59	100.0
Rank	15 - 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	124	20.7	116	26.9	8	4.8
2	Use of or Poisoning by Psychoactive Substance	109	18.2	83	19.2	26	15.7
3	Malignant Neoplasms	59	9.9	37	8.6	22	13.3
4	Intentional Self-harm (Suicide)	55	9.2	43	10.0	12	7.2
5	Accidents Except Poisoning by Psychoactive Substance	52	8.7	36	8.3	16	9.6
6	Covid-19	34	5.7	25	5.8	9	5.4
7	Diseases of Heart	19	3.2	12	2.8	7	4.2
8	Chronic Lower Respiratory Diseases	12	2.0	8	1.9	4	2.4
9	Congenital Malformations, Deformations	10	1.7	3	0.7	7	4.2
10	Diabetes Mellitus	9	1.5	3	0.7	6	3.6
	All Other Causes	115	19.2	66	15.3	49	29.5
	Total	598	100.0	432	100.0	166	100.0
Rank	25 - 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Use of or Poisoning by Psychoactive Substance	386	24.9	309	27.5	77	18.1
2	Covid-19	179	11.6	120	10.7	59	13.8
3	Assault (Homicide)	154	9.9	144	12.8	10	2.3
4	Malignant Neoplasms	105	6.8	57	5.1	48	11.3
5	Intentional Self-harm (Suicide)	104	6.7	74	6.6	30	7.0
6	Accidents Except Poisoning by Psychoactive Substance	101	6.5	81	7.2	20	4.7
7	Diseases of Heart	88	5.7	59	5.3	29	6.8
8	Mental Disorders Due to Use of Alcohol	34	2.2	31	2.8	3	0.7
9	Chronic Liver Disease and Cirrhosis	29	1.9	22	2	7	1.6
10	Diabetes Mellitus	28	1.8	17	1.5	11	2.6
	All Other Causes	341	22.0	209	18.6	132	31.0
	Total	1,549	100.0	1,123	100.0	426	100.0
Rank	35-44 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	533	20.5	416	22.8	117	15.0
2	Use of or Poisoning by Psychoactive Substance	447	17.2	333	18.3	114	14.6
3	Malignant Neoplasms	323	12.4	146	8.0	177	22.7
4	Diseases of Heart	259	10.0	199	10.9	60	7.7
5	Accidents Except Poisoning by Psychoactive Substance	99	3.8	81	4.4	18	2.3
6	Intentional Self-harm (Suicide)	96	3.7	78	4.3	18	2.3
6	Assault (Homicide)	96	3.7	80	4.4	16	2.1
8	Chronic Liver Disease and Cirrhosis	91	3.5	76	4.2	15	1.9
9	Diabetes Mellitus	83	3.2	57	3.1	26	3.3
10	Mental Disorder Due to Use of Alcohol	76	2.9	60	3.3	16	2.1
	All Other Causes	500	19.2	297	16.3	203	26.0
	Total	2,603	100.0	1,823	100.0	780	100.0

Table continued on following page

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Table M7. Leading Causes of Death by Age Group and Sex, New York City, 2020 [CONTINUED]

Rank		All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
45 - 54 YEARS							
1	Covid-19	1,427	27.3	1,029	29.6	398	22.7
2	Malignant Neoplasms	857	16.4	398	11.4	459	26.2
3	Diseases of Heart	834	15.9	610	17.5	224	12.8
4	Use of or Poisoning by Psychoactive Substance	527	10.1	412	11.8	115	6.6
5	Diabetes Mellitus	155	3.0	99	2.8	56	3.2
6	Chronic Liver Disease and Cirrhosis	127	2.4	89	2.6	38	2.2
7	Cerebrovascular Diseases	117	2.2	81	2.3	36	2.1
8	Influenza and Pneumonia	97	1.9	61	1.8	36	2.1
9	Mental Disorder Due to Use of Alcohol	88	1.7	74	2.1	14	0.8
10	Intentional Self-harm (Suicide)	86	1.6	66	1.9	20	1.1
	All Other Causes	917	17.5	559	16.1	358	20.4
	Total	5,232	100.0	3,478	100.0	1,754	100.0
55 - 64 YEARS							
1	Covid-19	3,374	29.3	2,288	31.1	1,086	26.1
2	Diseases of Heart	2,305	20.0	1,606	21.8	699	16.8
3	Malignant Neoplasms	2,214	19.2	1,113	15.1	1,101	26.5
4	Use of or Poisoning by Psychoactive Substance	549	4.8	428	5.8	121	2.9
5	Diabetes Mellitus	354	3.1	221	3.0	133	3.2
6	Influenza and Pneumonia	244	2.1	169	2.3	75	1.8
7	Cerebrovascular Diseases	224	1.9	141	1.9	83	2.0
8	Chronic Lower Respiratory Diseases	208	1.8	117	1.6	91	2.2
9	Essential Hypertension and Hypertensive Renal Disease	168	1.5	107	1.5	61	1.5
10	Chronic Liver Disease and Cirrhosis	166	1.4	109	1.5	57	1.4
	All Other Causes	1,712	14.9	1,061	14.4	651	15.7
	Total	11,518	100.0	7,360	100.0	4,158	100.0
65 - 74 YEARS							
1	Covid-19	5,209	31.3	3,390	34.1	1,819	27.2
2	Diseases of Heart	3,810	22.9	2,405	24.2	1,405	21.0
3	Malignant Neoplasms	3,204	19.3	1,614	16.3	1,590	23.7
4	Diabetes Mellitus	519	3.1	266	2.7	253	3.8
5	Influenza and Pneumonia	379	2.3	230	2.3	149	2.2
6	Chronic Lower Respiratory Diseases	358	2.2	192	1.9	166	2.5
7	Cerebrovascular Diseases	335	2.0	192	1.9	143	2.1
8	Essential Hypertension and Hypertensive Renal Disease	313	1.9	173	1.7	140	2.1
9	Nephritis, Nephrotic Syndrome and Nephrosis	159	1.0	99	1.0	60	0.9
10	Accidents Except Poisoning by Psychoactive Substance	153	0.9	94	0.9	59	0.9
	All Other Causes	2,184	13.1	1,272	12.8	912	13.6
	Total	16,623	100.0	9,927	100.0	6,696	100.0
75 - 84 YEARS							
1	Covid-19	5,578	29.0	3,228	31.8	2,350	25.9
2	Diseases of Heart	5,294	27.6	2,785	27.4	2,509	27.7
3	Malignant Neoplasms	2,827	14.7	1,423	14.0	1,404	15.5
4	Cerebrovascular Disease	572	3.0	253	2.5	319	3.5
5	Diabetes Mellitus	526	2.7	267	2.6	259	2.9
6	Influenza and Pneumonia	512	2.7	285	2.8	227	2.5
7	Chronic Lower Respiratory Diseases	488	2.5	227	2.2	261	2.9
8	Essential Hypertension and Hypertensive Renal Disease	399	2.1	200	2.0	199	2.2
9	Alzheimer's Disease	266	1.4	101	1.0	165	1.8
10	Accidents Except Poisoning by Psychoactive Substance	186	1.0	102	1.0	84	0.9
	All Other Causes	2,558	13.1	1,278	12.8	1,280	14.1
	Total	19,206	100.0	10,149	100.0	9,057	100.0
≥85 YEARS							
1	Diseases of Heart	8,638	35.6	3,020	33.4	5,618	36.9
2	Covid-19	4,899	20.2	2,154	23.8	2,745	18.0
3	Malignant Neoplasms	2,045	8.4	898	9.9	1,147	7.5
4	Cerebrovascular Diseases	880	3.6	274	3.0	606	4.0
5	Alzheimer's Disease	803	3.3	183	2.0	620	4.1
6	Influenza and Pneumonia	754	3.1	321	3.6	433	2.8
7	Essential Hypertension and Hypertensive Renal Disease	630	2.6	193	2.1	437	2.9
8	Chronic Lower Respiratory Diseases	557	2.3	229	2.5	328	2.2
9	Diabetes Mellitus	543	2.2	204	2.3	339	2.2
10	Parkinson's Disease	239	1.0	109	1.2	130	0.9
	All Other Causes	4,287	17.7	1,447	16.0	2,840	18.6
	Total	24,275	100.0	9,032	100.0	15,243	100.0

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Table M8. Leading Causes of Death by Racial/Ethnic Group* and Sex, New York City, 2020

Rank	Puerto Rican	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	1,685	25.0	885	26.1	800	23.9
2	Diseases of Heart	1,619	24.0	794	23.4	825	24.6
3	Malignant Neoplasms	793	11.8	398	11.7	395	11.8
4	Use of or Poisoning by Psychoactive Substance	251	3.7	193	5.7	58	1.7
5	Diabetes Mellitus	240	3.6	116	3.4	124	3.7
6	Influenza and Pneumonia	203	3.0	109	3.2	94	2.8
7	Cerebrovascular Diseases	195	2.9	59	1.7	136	4.1
8	Chronic Lower Respiratory Diseases	192	2.8	90	2.7	102	3.0
9	Essential Hypertension and Hypertensive Renal Disease	142	2.1	67	2.0	75	2.2
10	Alzheimer's Disease	125	1.9	29	0.9	96	2.9
	All Other Causes	1,294	19.2	648	19.1	646	19.3
	Total	6,739	100.0	3,388	100.0	3,351	100.0
Rank	Hispanic/Latino not of Puerto Rican ancestry	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	4,934	39.2	3,212	43.1	1,722	33.6
2	Diseases of Heart	2,199	17.5	1,172	15.7	1,027	20.1
3	Malignant Neoplasms	1,391	11.1	691	9.3	700	13.7
4	Use of or Poisoning by Psychoactive Substance	442	3.5	363	4.9	79	1.5
5	Cerebrovascular Diseases	313	2.5	156	2.1	157	3.1
6	Diabetes Mellitus	307	2.4	161	2.2	146	2.9
7	Influenza and Pneumonia	296	2.4	166	2.2	130	2.5
8	Essential Hypertension and Hypertensive Renal Disease	205	1.6	98	1.3	107	2.1
9	Accidents Except Poisoning by Psychoactive Substance	199	1.6	155	2.1	44	0.9
9	Chronic Liver Disease and Cirrhosis	199	1.6	155	2.1	44	0.9
	All Other Causes	2,087	16.6	1,124	15.1	963	18.8
	Total	12,572	100.0	7,453	100.0	5,119	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	2,085	27.6	1,350	31.3	735	22.8
2	Diseases of Heart	1,764	23.4	979	22.7	785	24.3
3	Malignant Neoplasms	1,309	17.4	710	16.5	599	18.6
4	Influenza and Pneumonia	240	3.2	148	3.4	92	2.9
5	Cerebrovascular Diseases	237	3.1	117	2.7	120	3.7
6	Diabetes Mellitus	217	2.9	127	2.9	90	2.8
7	Essential Hypertension and Hypertensive Renal Disease	153	2.0	59	1.4	94	2.9
8	Chronic Lower Respiratory Diseases	126	1.7	87	2.0	39	1.2
9	Alzheimer's Disease	104	1.4	36	0.8	68	2.1
10	Accidents Except Poisoning by Psychoactive Substance	94	1.2	50	1.2	44	1.4
	All Other Causes	1,213	16.1	652	15.1	561	17.4
	Total	7,542	100.0	4,315	100.0	3,227	100.0
Rank	Non-Hispanic/Latino White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,857	30.2	4,336	28.7	4,521	31.8
2	Covid-19	5,659	19.3	3,303	21.9	2,356	16.6
3	Malignant Neoplasms	4,980	17.0	2,480	16.4	2,500	17.6
4	Chronic Lower Respiratory Diseases	754	2.6	349	2.3	405	2.8
5	Influenza and Pneumonia	740	2.5	389	2.6	351	2.5
6	Use of or Poisoning by Psychoactive Substance	722	2.5	565	3.7	157	1.1
7	Cerebrovascular Diseases	720	2.5	311	2.1	409	2.9
8	Alzheimer's Disease	520	1.8	155	1.0	365	2.6
9	Diabetes Mellitus	483	1.6	285	1.9	198	1.4
10	Essential Hypertension and Hypertensive Renal Disease	445	1.5	219	1.4	226	1.6
	All Other Causes	5,458	18.6	2,722	18.0	2,736	19.2
	Total	29,338	100.0	15,114	100.0	14,224	100.0
Rank	Non-Hispanic/Latino Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	6,167	26.6	3,004	26.0	3,163	27.2
2	Covid-19	5,988	25.8	3,278	28.3	2,710	23.3
3	Malignant Neoplasms	2,936	12.7	1,281	11.1	1,655	14.2
4	Diabetes Mellitus	881	3.8	394	3.4	487	4.2
5	Cerebrovascular Diseases	659	2.8	290	2.5	369	3.2
6	Use of or Poisoning by Psychoactive Substance	645	2.8	479	4.1	166	1.4
7	Essential Hypertension and Hypertensive Renal Disease	598	2.6	252	2.2	346	3.0
8	Influenza and Pneumonia	507	2.2	250	2.2	257	2.2
9	Chronic Lower Respiratory Diseases	436	1.9	183	1.6	253	2.2
10	Assault (Homicide)	309	1.3	281	2.4	28	0.2
	All Other Causes	4,069	17.5	1,884	16.3	2,185	18.8
	Total	23,195	100.0	11,576	100.0	11,619	100.0

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

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Table M9. Leading Causes of Premature Death (Age <65 Years), Overall and by Sex, New York City, 2020

Rank	Cause of Death	All		Male		Female	
		Deaths	Percent Deaths	Deaths	Percent	Deaths	Percent
1	Covid-19	5,555	25.2	3,883	26.7	1,672	22.2
2	Malignant Neoplasms	3,594	16.3	1,766	12.2	1,828	24.3
	Trachea, bronchus, and lung	512	2.3	286	2.0	226	3.0
	Breast	405	1.8	3	0.0	402	5.3
	Colon, rectum, and anus	399	1.8	237	1.6	162	2.2
	Pancreas	264	1.2	158	1.1	106	1.4
	Liver and intrahepatic bile ducts	195	0.9	138	1.0	57	0.8
3	Diseases of Heart	3,519	16.0	2,490	17.1	1,029	13.7
4	Use of or Poisoning by Psychoactive Substance	2,020	9.2	1,567	10.8	453	6.0
5	Diabetes Mellitus	631	2.9	399	2.7	232	3.1
6	Accidents Except Poisoning by Psychoactive Substance	504	2.3	385	2.7	119	1.6
7	Assault (Homicide)	460	2.1	409	2.8	51	0.7
8	Intentional Self-harm (Suicide)	437	2.0	336	2.3	101	1.3
9	Chronic Liver Disease and Cirrhosis	414	1.9	296	2.0	118	1.6
10	Cerebrovascular Diseases	407	1.8	260	1.8	147	2.0
	All Other Causes	4,498	20.4	2,730	18.8	1,768	23.5
	Total	22,039	100.0	14,521	100.0	7,518	100.0

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

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Table M10. Leading Causes of Premature Death (Age <65 Years) by Racial/Ethnic Group* and Sex, New York City, 2020

Rank	Puerto Rican	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	353	21.3	210	19.8	143	23.8
2	Diseases of Heart	272	16.4	186	17.6	86	14.3
3	Malignant Neoplasms	230	13.9	128	12.1	102	17.0
4	Use of or Poisoning by Psychoactive Substance	225	13.6	171	16.2	54	9.0
5	Diabetes Mellitus	55	3.3	33	3.1	22	3.7
6	Accidents Except Poisoning by Psychoactive Substance	38	2.3	26	2.5	12	2.0
6	Chronic Lower Respiratory Diseases	38	2.3	20	1.9	18	3.0
6	Chronic Liver Disease and Cirrhosis	38	2.3	25	2.4	13	2.2
9	Influenza and Pneumonia	36	2.2	21	2.0	15	2.5
10	Human Immunodeficiency Virus (HIV) Disease	34	2.1	22	2.1	12	2.0
	All Other Causes	339	20.4	216	20.4	123	20.5
	Total	1,658	100.0	1,058	100.0	600	100.0
Rank	Hispanic/Latino not of Puerto Rican ancestry	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	1,839	38.4	1,439	41.2	400	31.0
2	Malignant Neoplasms	550	11.5	269	7.7	281	21.8
3	Diseases of Heart	500	10.4	374	10.7	126	9.8
4	Use of or Poisoning by Psychoactive Substance	428	8.9	352	10.1	76	5.9
5	Chronic Liver Disease and Cirrhosis	151	3.2	128	3.7	23	1.8
6	Accidents Except Poisoning by Psychoactive Substance	143	3.0	122	3.5	21	1.6
7	Diabetes Mellitus	110	2.3	73	2.1	37	2.9
8	Assault (Homicide)	86	1.8	74	2.1	12	0.9
9	Mental Disorders Due to Use of Alcohol	84	1.8	76	2.2	8	0.6
10	Cerebrovascular Diseases	83	1.7	61	1.7	22	1.7
	All Other Causes	812	17.0	527	15.1	285	22.1
	Total	4,786	100.0	3,495	100.0	1,291	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	571	32.0	416	35.1	155	25.8
2	Malignant Neoplasms	467	26.1	238	20.1	229	38.2
3	Diseases of Heart	219	12.3	165	13.9	54	9.0
4	Intentional Self-harm (Suicide)	51	2.9	39	3.3	12	2.0
5	Diabetes Mellitus	42	2.4	28	2.4	14	2.3
6	Cerebrovascular Diseases	41	2.3	23	1.9	18	3.0
7	Use of or Poisoning by Psychoactive Substance	38	2.1	30	2.5	8	1.3
8	Accidents Except Poisoning by Psychoactive Substance	31	1.7	19	1.6	12	2.0
9	Influenza and Pneumonia	28	1.6	19	1.6	9	1.5
10	Chronic Liver Disease and Cirrhosis	24	1.3	23	1.9	1	0.2
	All Other Causes	274	15.3	186	15.7	88	14.7
	Total	1,786	100.0	1,186	100.0	600	100.0
Rank	Non-Hispanic/Latino White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,198	23.2	629	18.2	569	33.1
2	Diseases of Heart	860	16.7	656	19.0	204	11.9
3	Covid-19	807	15.6	573	16.6	234	13.6
4	Use of or Poisoning by Psychoactive Substance	682	13.2	534	15.5	148	8.6
5	Intentional Self-harm (Suicide)	174	3.4	124	3.6	50	2.9
6	Diabetes Mellitus	113	2.2	85	2.5	28	1.6
7	Chronic Liver Disease and Cirrhosis	107	2.1	62	1.8	45	2.6
8	Accidents Except Poisoning by Psychoactive Substance	98	1.9	69	2.0	29	1.7
9	Mental Disorders Due to Use of Alcohol	95	1.8	67	1.9	28	1.6
10	Influenza and Pneumonia	84	1.6	59	1.7	25	1.5
	All Other Causes	947	18.3	589	17.1	358	20.8
	Total	5,165	100.0	3,447	100.0	1,718	100.0
Rank	Non-Hispanic/Latino Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Covid-19	1,722	22.4	1,045	22.5	677	22.3
2	Diseases of Heart	1,520	19.8	994	21.4	526	17.3
3	Malignant Neoplasms	1,043	13.6	445	9.6	598	19.7
4	Use of or Poisoning by Psychoactive Substance	579	7.5	427	9.2	152	5.0
5	Assault (Homicide)	298	3.9	271	5.8	27	0.9
6	Diabetes Mellitus	281	3.7	162	3.5	119	3.9
7	Accidents Except Poisoning by Psychoactive Substance	172	2.2	130	2.8	42	1.4
8	Cerebrovascular Diseases	159	2.1	101	2.2	58	1.9
9	Chronic Lower Respiratory Diseases	155	2.0	76	1.6	79	2.6
10	Influenza and Pneumonia	153	2.0	99	2.1	54	1.8
	All Other Causes	1,604	20.9	894	19.3	710	23.3
	Total	7,686	100.0	4,644	100.0	3,042	100.0

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

Table M11. Deaths and Death Rates per 100,000 Population from Selected Underlying Causes, Overall and by Racial/Ethnic Group* and Sex, New York City, 2020

Cause of Death	Racial/Ethnic Group											Sex										
	Total	Hispanic/Latino		Non-Hispanic/Latino White		Hispanic/Latino Black		Non-Hispanic/Latino Black		Asian & Pacific Islander		Other/Un-known		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.	Crude Rate	Age-Adj. Rate			
All Causes†	82,143	9.3	7.9	19,311	7.6	8.0	29,338	10.3	6.9	23,195	12.2	10.3	7,542	5.7	5.2	2,757	43,629	10.3	10.0	38,514	8.9	6.2
Natural Causes	56,385	640.4	537.3	11,432	450.3	479.8	22,215	777.7	509.6	15,814	828.9	700.0	5,215	396.4	362.7	1,709	27,596	652.5	634.6	28,789	629.3	459.3
Human Immunodeficiency Virus (HIV) Disease	340	3.9	3.5	104	4.1	4.1	27	0.9	0.7	182	9.5	8.3	5	0.4	0.3	22	229	5.4	5.0	111	2.4	2.1
Malignant Neoplasms	11,670	132.6	112.9	2,184	86.0	89.6	4,980	174.3	124.0	2,936	153.9	128.7	1,309	99.5	88.4	261	5,701	134.8	128.7	5,969	130.5	102.2
Malignant neoplasm of stomach	392	4.5	3.8	84	3.3	3.4	128	4.5	3.3	90	4.7	4.0	79	6.0	5.3	11	247	5.8	5.5	145	3.2	2.4
Malignant neoplasms of colon, rectum, and anus	1,136	12.9	11.0	221	8.7	9.0	469	16.4	11.8	311	16.3	13.7	109	8.3	7.3	26	596	14.1	13.5	540	11.8	9.1
Malignant neoplasm of pancreas	1,027	11.7	9.9	181	7.1	7.4	466	16.3	11.3	246	12.9	10.7	115	8.7	7.7	19	513	12.1	11.5	514	11.2	8.6
Malignant neoplasms of trachea, bronchus, and lung (male)	1,085	25.7	24.3	175	14.2	17.6	472	33.6	25.8	225	25.8	25.0	183	29.1	26.8	30	1,085	25.7	24.3	-	-	-
Malignant neoplasms of trachea, bronchus, and lung (female)	936	20.5	15.8	150	11.5	10.6	430	29.6	19.2	222	21.5	16.0	120	17.5	14.8	14	-	-	-	936	20.5	15.8
Malignant neoplasm of breast (female)	967	21.1	16.9	161	12.3	11.4	404	27.8	19.1	303	29.3	22.7	75	10.9	9.3	24	-	-	-	967	21.1	16.9
Malignant neoplasm of cervix uteri (female)	109	2.4	2.0	21	1.6	1.5	23	1.6	1.2	47	4.5	3.5	14	2.0	1.7	4	-	-	-	109	2.4	2.0
Malignant neoplasm of ovary (female)	308	6.7	5.4	62	4.7	4.4	123	8.5	5.7	80	7.7	5.9	36	5.2	4.4	7	-	-	-	308	6.7	5.4
Malignant neoplasm of prostate (male)	580	13.7	13.4	115	9.3	12.7	181	12.9	9.5	241	27.6	28.9	30	4.8	4.7	13	580	13.7	13.4	-	-	-
Leukemia	489	5.6	4.8	88	3.5	3.6	258	9.0	6.4	91	4.8	4.1	44	3.3	3.0	8	285	6.7	6.5	204	4.5	3.6
Diabetes Mellitus	2,219	25.2	21.3	547	21.5	22.7	483	16.9	11.7	881	46.2	39.0	217	16.5	14.9	91	1,136	26.9	25.7	1,083	23.7	17.8
Parkinson's Disease	492	5.6	4.5	101	4.0	4.4	258	9.0	5.4	70	3.7	3.1	53	4.0	3.7	10	273	6.5	6.5	219	4.8	3.2
Alzheimer's Disease	1,129	12.8	10.3	294	11.6	13.1	520	18.2	10.2	190	10.0	8.4	104	7.9	7.5	21	313	7.4	7.7	816	17.8	11.6
Diseases of Heart	21,261	241.5	199.7	3,818	150.4	162.2	8,857	310.1	194.4	6,167	323.3	270.9	1,764	134.1	123.5	655	10,700	253.0	247.2	10,561	230.8	161.4
Hypertensive heart disease	3,308	37.6	31.3	656	25.8	27.7	1,061	37.1	23.8	1,255	65.8	55.2	243	18.5	17.0	93	1,597	37.8	36.5	1,711	37.4	26.7
Chronic ischemic heart diseases	13,972	158.7	130.6	2,335	92.0	99.6	6,225	217.9	135.5	3,726	195.3	163.1	1,246	94.7	87.3	440	7,092	167.7	164.3	6,880	150.4	103.9
Acute myocardial infarction	1,774	20.1	16.7	375	14.8	15.9	683	23.9	15.3	524	27.5	23.0	136	10.3	9.5	56	933	22.1	21.3	841	18.4	12.9
Essential (Primary) Hypertension and Hypertensive Renal Disease	1,592	18.1	14.9	347	13.7	14.8	445	15.6	9.8	598	31.3	26.2	153	11.6	10.9	49	725	17.1	16.7	867	19.0	13.3
Cerebrovascular Diseases	2,194	24.9	20.7	508	20.0	21.7	720	25.2	15.9	659	34.5	29.0	237	18.0	16.4	70	979	23.1	22.6	1,215	26.6	18.9
Influenza and Pneumonia	2,049	23.3	19.4	499	19.7	21.1	740	25.9	16.5	507	26.6	22.4	240	18.2	16.8	63	1,110	26.2	25.7	939	20.5	14.7
Chronic Lower Respiratory Diseases	1,735	19.7	16.5	363	14.3	15.2	524	26.4	16.9	436	22.9	19.4	126	9.6	8.9	56	822	19.4	19.0	913	20.0	14.7
Asthma	204	2.3	2.1	59	2.3	2.4	28	1.0	0.7	100	5.2	4.7	10	0.8	0.7	7	85	2.0	1.9	119	2.6	2.2
Chronic Liver Disease and Cirrhosis	608	6.9	6.2	274	10.8	10.7	163	5.7	4.8	103	5.4	4.6	39	3.0	2.6	29	413	9.8	9.0	195	4.3	3.6
COVID-19	21,241	241.3	203.5	6,619	260.7	272.9	5,659	198.1	130.8	5,988	313.9	262.3	2,085	158.5	141.1	890	12,655	299.2	285.9	8,586	187.7	139.8
External Causes	25,758	292.6	251.5	7,879	310.4	322.0	7,123	249.4	175.5	7,381	386.9	331.4	2,327	176.9	158.7	1,048	16,033	379.1	362.3	9,725	212.6	162.0
Motor Vehicle Accidents	264	3.0	2.9	83	3.3	3.2	67	2.3	2.1	82	4.3	4.2	22	1.7	1.6	10	189	4.5	4.3	75	1.6	1.5
Falls	479	5.4	4.6	105	4.1	4.4	226	7.9	5.1	80	4.2	3.6	51	3.9	3.6	17	278	6.6	6.5	201	4.4	3.1
Intentional Self-harm (Suicide)	547	6.2	5.9	122	4.8	4.8	231	8.1	7.3	96	5.0	5.0	75	5.7	5.3	23	413	9.8	9.3	134	2.9	2.7
Assault (Homicide)	486	5.5	5.6	120	4.7	4.7	37	1.3	1.3	309	16.2	17.1	9	0.7	0.6	11	429	10.1	10.2	57	1.2	1.2
Events of Undetermined Intent	255	2.9	2.8	66	2.6	2.6	89	3.1	2.9	61	3.2	3.3	24	1.8	1.7	15	192	4.5	4.4	63	1.4	1.3
Mental and Behavioral Disorders Due to Use of or Accidental Poisoning by Psychoactive Substances, Excluding Alcohol	2,171	24.7	23.1	693	27.3	26.5	722	25.3	23.7	645	33.8	29.9	38	2.9	3.0	73	1,687	39.9	37.3	484	10.6	10.0
Accidents Except Drug Poisoning	1,073	12.2	10.8	283	11.1	11.4	381	13.3	9.4	274	14.4	13.2	94	7.1	6.7	41	691	16.3	15.9	382	8.3	6.6

* See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.
 † For All Causes, rates are per 1,000 population and all other selected causes rates are per 100,000 population. Population data are from the 2020 US Census Bureau's estimates.

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Table M12. Deaths and Death Rates* per 100,000 Population from Selected Underlying Causes by Community District of Residence, New York City, 2020

Community District of Residence	All Causes (Rate per 100,000)			Heart Diseases			Malignant Neoplasms			HIV Disease			Influenza and Pneumonia			Cerebrovascular Diseases			Chronic Lower Respiratory Diseases			Chronic Liver Disease and Cirrhosis			Diabetes Mellitus			Mental Illness due to Substance Use and Accidents			Intentional Self-Harm (Suicide)			Assault (Homicide)			Events of Interest		
	Pop.	Est. No.	Rate	Crude No.	Crude Rate	Crude Rate	Crude No.	Crude Rate	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate	Crude No.	Crude Rate					
ALL DEATH EVENTS	6,804,190	82,143	9.3	7.9	21.261	24.15	3.9	2.049	23.3	1.94	24.9	17.25	19.7	6.08	6.9	5.9	3.09	2.219	25.2	2.17	24.7	10.73	12.2	5.47	6.2	4.86	5.5	255	2.9	2.5	42	2.5	2.9	2.9	2.9				
MANHATTAN	1,683,320	13,151	7.8	6.0	3.209	190.6	66	3.9	27.7	16.5	3.0	18.6	3.1	5.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
Battery Park, Tribeca (01)	64,332	2358	37	4.5	60	93.3	8	3.9	27.7	16.5	3.0	18.6	3.1	5.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
Greenwich Village, SOHO (02)	92,474	432	4.7	3.6	132	142.7	75	8.1	8.7	5.8	16.2	1.1	1.1	6.3	4.0	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4			
Lower East Side (03)	150,096	1612	9.3	6.2	414	237.7	251	144.1	2.3	50	28.7	55	31.6	11	6.3	40	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0			
Chelsea, Clinton (04)	62,967	265	4.2	3.8	111	122.6	82	8.6	17	11.3	23	15.3	3	3.2	5.0	7.9	14	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2			
Midtown Business District (05)	218,402	1858	8.5	4.2	249	170.8	189	129.7	6	4.8	6.4	5	7.9	4	3.2	5.0	7.9	14	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2			
Murray Hill (06)	149,980	1345	9.0	10.0	305	203.4	147	98.0	8	3.8	36.3	29	21.1	8	5.8	36	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2			
Upper West Side (07)	230,556	1552	6.7	4.2	444	192.5	303	131.4	7	3.2	39	17.9	62	44	20.1	15	6.9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1			
Upper East Side (08)	110,260	958	8.7	8.1	205	185.9	115	104.3	6	2.3	10.0	52	22.6	48	19.5	9	3.9	10	16	14.5	35	31.7	4	3.6	9	6.9	11	19	44.2	59	51	19	44.2	59	51				
Manhattanville (09)	115,509	1301	11.3	11.6	298	258.0	173	149.8	14	11.3	22	33.0	44	38.1	25	21.6	8	6.9	51	47.6	58	46.8	18	14.5	10	8.1	16	12.9	6	4.8	4.8	4.8	4.8	4.8	4.8				
Central Harlem (10)	123,836	1496	12.1	10.6	289	233.4	181	146.2	14	11.3	22	33.0	44	38.1	25	21.6	8	6.9	51	47.6	58	46.8	18	14.5	10	8.1	16	12.9	6	4.8	4.8	4.8	4.8	4.8	4.8				
East Harlem (11)	194,960	1808	9.3	7.6	410	210.3	202	103.6	8	4.1	20.9	14.9	9	4.1	20.9	14.9	9	4.1	20.9	14.9	9	4.1	20.9	14.9	9	4.1	20.9	14.9	9	4.1	20.9	14.9	9	4.1	20.9	14.9			
Washington Heights (12)	177,758	1614	10.2	9.6	422	262.5	205	129.9	11	7.0	42.2	30.4	21	13.3	14	8.9	54	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2			
BROOKLYN	2,736,074	43,988	6.8	7.9	6.726	238.7	180.7	103.6	11.2	7.6	47.2	32.0	45.2	30.6	44.5	31.3	11.3	7.7	42.8	29.0	56.8	39.5	17.3	11.7	7.6	5.1	116	7.9	4.3	2.9	4.3	2.9	4.3	2.9	4.3	2.9			
Mott Haven (01)	59,799	1033	10.4	11.0	208	208.4	116	116.2	15	15.0	29	29.1	32	32.1	12	12.0	32	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1			
Hunts Point (02)	66,933	526	9.2	10.1	87	152.8	47	82.5	3	5.3	19	33.4	8	14.0	7	12.3	9	15.8	26	45.7	30	52.7	4	7.0	5	5.0	8	8.0	6	6.0	6	6.0	6	6.0	6	6.0			
Morrisania (03)	92,285	962	10.4	12.0	192	208.1	113	122.4	19	20.6	29	31.4	27	23.3	22	23.8	8	8.7	30	32.5	54	58.5	16	17.3	5	5.4	16	17.3	4	4.3	4.3	4.3	4.3	4.3	4.3	4.3			
Concourse, Highbridge (04)	158,018	1476	9.3	10.2	316	200.0	164	103.8	12	7.6	58	36.7	38	24.0	35	22.1	13	8.2	33	20.9	65	41.1	17	10.8	6	3.8	17	10.8	6	3.8	17	10.8	6	3.8	17	10.8	6		
University/Morris Heights (05)	137,273	1135	8.3	10.4	224	163.2	137	99.8	18	13.1	27	19.7	23	16.8	29	21.1	8	5.8	36	26.2	64	46.6	8	5.0	6	4.4	6	4.4	6	4.4	6	4.4	6	4.4	6	4.4			
East Tremont (06)	88,182	869	9.9	11.5	168	190.5	118	133.8	6	6.8	32	36.3	28	31.8	24	27.2	8	9.1	31	35.2	64	72.6	15	17.0	2	2.3	13	14.7	4	4.5	4	4.5	4	4.5	4	4.5			
Fordham (07)	149,980	1345	9.0	10.0	305	203.4	147	98.0	8	3.8	36.3	29	21.1	8	5.8	36	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2		
Riverdale (08)	104,989	1425	14.3	8.6	465	444.4	164	155.2	3	2.9	41	39.2	32	30.6	39	37.3	7	4.7	44	29.3	58	38.7	14	9.3	12	11.5	3	3.0	2	1	1	1	1	1	1	1			
Unionport, Soundview (09)	188,242	1776	9.4	9.0	396	210.4	209	168.4	7	6.7	59	31.3	67	35.6	51	27.1	15	8.0	58	30.8	48	25.5	15	8.0	6	3.2	14	7.4	7	3.7	3.7	3.7	3.7	3.7	3.7	3.7			
Throgs Neck (10)	124,128	1556	12.5	8.4	423	340.8	209	168.4	7	6.7	59	31.3	67	35.6	51	27.1	15	8.0	58	30.8	48	25.5	15	8.0	6	3.2	14	7.4	7	3.7	3.7	3.7	3.7	3.7	3.7	3.7			
Pelham Parkway (11)	117,823	1431	12.1	9.6	320	271.6	168	142.6	3	2.5	45	38.2	48	40.7	39	33.5	5	4.2	27	22.9	28	23.8	16	13.6	5	4.2	11	9.1	5	4.2	11	9.1	5	4.2	11	9.1	5		
Williamsbridge (12)	157,758	1614	10.2	9.6	422	262.5	205	129.9	11	7.0	42.2	30.4	21	13.3	14	8.9	54	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2			
QUEENS	2,412,028	19,960	8.3	6.6	5.460	226.4	2.629	109.0	4.3	1.9	35	16.7	6.55	20.1	44.5	16.4	139	51	753	275	484	159	285	10.4	124	4.4	124	4.4	124	4.4	124	4.4	124	4.4	124	4.4			
Williamsburg, Greenpoint (01)	209,932	1034	5.1	6.2	271	129.1	123	58.7	4	1.9	35	16.7	32	15.2	43	20.0	6	3.3	35	16.7	32	15.2	43	20.0	6	3.3	35	16.7	32	15.2	43	20.0	6	3.3	35	16.7	32	15.2	
Port Greene, Brooklyn Heights (02)	132,841	897	6.8	6.1	231	165.6	117	82.4	5	3.5	16	11.9	29	20.5	34	22.6	6	4.2	40	28.3	26	18.4	17	12.1	10	4.8	3	1.4	4	1.9	4	1.9	4	1.9	4	1.9			
Bedford Stuyvesant (03)	158,933	1551	8.9	9.0	347	225.6	159	103.6	17	11.6	22	19.4	23	20.8	34	22.1	6	3.9	57	45.6	28	19.3	17	12.1	5	3.3	7	5.0	2	1.4	2	1.4	2	1.4	2	1.4			
Bushwick (04)	186,919	1659	9.7	10.8	396	213.0	176	101.6	3	1.6	22	19.4	23	20.8	34	22.1	6																						

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

	Annual														
	1901-1905	1906-1910	1911-1915	1916-1920	1921-1925	1926-1930	1931-1935	1936-1940	1941-1945	1946-1948	1949-1951	1952-1955	1956-1960	1961-1965	
Cause (ICD-10 Codes)††															
Infant Deaths (under 1 year)	15,611	16,609	14,060	12,004	8,895	7,662	5,521	4,079	3,828	4,298	3,882	4,021	4,290	4,333	
Rate per 1,000 live births	120.8	115.2	100.0	88.2	68.9	61.0	52.0	39.8	30.3	26.8	24.5	24.6	25.7	26.2	
Neonatal Deaths (under 28 days)	§§	§§	5,143	4,894	4,309	3,892	3,152	2,631	2,764	3,298	2,989	3,032	3,220	3,226	
Rate per 1,000 live births			37.4	36.0	33.0	31.0	29.7	25.7	21.9	20.5	18.9	18.5	19.3	19.5	
Early Neonatal Deaths (under 7 Days)	§§	§§	§§	§§	§§	§§	§§	2,110	2,338	2,845	2,604	2,713	2,909	2,922	
Rate per 1,000 live births								20.5	18.5	17.7	16.4	16.6	17.4	17.7	
Fetal Deaths (28 Weeks Gestation and Older)	§§	§§	§§	§§	§§	§§	§§	2,589	2,709	2,902	2,441	2,310	2,362	2,276	
Ratio per 1,000 live births								25.3	21.4	18.1	15.4	14.1	14.1	13.8	
Perinatal mortality ratio†	§§	§§	§§	§§	§§	§§	§§	44.7	39.1	35.1	31.3	30.2	31.1	31.0	
Pregnancy, Childbirth, and the Puerperium (O00-O99)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate per 100,000 live births															
Maternal Causes (A34, O00-O95, O98-O99)	694	745	694	664	689	651	608	372	255	178	115	102	107	109	
Ratio per 100,000 live births	538.0	517.4	493.7	487.9	528.1	518.4	572.6	363.2	201.6	110.8	72.6	62.3	64.1	66.0	
Respiratory Tuberculosis (A16)	8,154	8,832	8,745	7,915	4,937	4,574	4,068	3,680	3,281	2,932	2,173	1,178	824	624	
Rate	215.4	197.5	173.2	144.1	80.0	68.2	57.3	50.0	43.2	37.7	27.4	15.0	10.6	8.0	
Other Forms of Tuberculosis (A17-A19)	§§	§§	§§	§§	§§	§§	§§	§§	§§	225	174	97	52	43	
Rate										2.9	2.2	1.2	0.7	0.6	
HIV Disease (B20-B24)‡	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate															
Malignant Neoplasms (C00-C97)	2,621	3,334	4,256	4,993	6,229	7,637	9,062	11,257	13,169	14,627	15,556	16,553	16,869	17,398	
Rate	69.2	74.5	84.3	90.9	100.9	113.9	127.6	152.9	173.3	188.2	196.0	210.6	216.1	222.1	
Trachea, bronchus, and lung, male (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	828	847	1,021	1,157	
Rate											21.9	22.2	27.0	30.9	
Trachea, bronchus, and lung, female (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	220	179	228	261	
Rate											5.5	4.4	5.6	7.4	
Colon, rectum, and anus (C18-C21)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate															
Breast, female (C50)	§§	§§	§§	§§	§§	§§	§§	§§	§§	1,429	1,476	1,517	1,573	1,694	
Rate										35.9	36.4	37.3	38.7	41.3	
Diabetes Mellitus (E10-E14)	520	690	916	1,063	1,284	1,624	2,140	2,787	3,131	3,423	1,583	1,644	1,581	1,789	
Rate	13.7	15.4	18.1	19.4	20.8	24.2	30.1	37.9	41.2	44.0	19.9	20.9	20.3	22.9	
Major Cardiovascular Diseases (I00-I78)	5,954	9,148	12,699	14,792	18,114	21,815	23,706	25,711	30,886	32,539	36,206	37,724	38,988	39,943	
Rate	157.3	204.5	251.5	269.3	293.3	325.5	333.8	349.2	406.6	418.7	456.3	479.9	499.5	510.2	
Cerebrovascular disease (I60-I69)	2,593	1,790	970	834	719	723	1,333	3,846	3,611	3,710	5,099	5,688	6,013	6,174	
Rate	68.4	40.0	19.2	15.2	11.6	10.8	20.2	52.2	47.5	47.7	64.3	72.4	77.0	78.9	
Influenza and Pneumonia (J09-J18)	10,425	10,985	10,528	17,136	8,935	9,989	8,205	5,337	3,453	3,014	2,469	2,664	3,459	3,394	
Rate	275.4	245.6	208.5	312.0	144.7	149.0	115.5	72.5	45.5	38.8	31.2	33.9	44.3	43.4	
Other Respiratory Diseases (J00-J06, J20-J99)	3,224	2,307	1,458	1,407	689	622	594	536	492	424	450	461	651	960	
Rate	85.2	51.6	38.9	25.6	11.2	9.3	8.4	7.3	6.5	5.5	5.7	5.9	8.3	12.3	
Chronic Liver Disease and Cirrhosis (K70, K73-K74)	814	1,076	900	500	338	413	584	922	1,052	1,500	1,500	1,440	1,858	2,386	
Rate	21.5	24.1	17.8	9.1	5.5	6.2	8.2	12.5	13.8	17.5	19.2	18.3	23.8	30.5	
Nephritis, Nephrosis, etc. (N00-N07, N17-N19, N25-N27)	5,752	5,600	5,499	5,676	4,108	3,411	3,608	3,675	3,081	2,574	570	556	573	509	
Rate	151.9	125.2	108.9	103.4	50.9	50.8	50.9	40.6	40.6	33.1	7.2	7.1	7.3	6.5	
Use of Psychoactive Substance (F11-F16, F18-F19)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	81	96	263	
Rate												1.0	1.2	3.4	
Accidental Drug Poisoning (X40-X42, X44)**	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate															
Motor Vehicle Accidents†	§§	§§	253	658	929	1,175	1,167	920	728	635	600	634	655	714	
Rate			5.0	12.0	15.0	17.5	16.4	12.5	9.6	8.2	7.6	8.1	8.4	9.1	
Home Accidents	§§	§§	§§	§§	§§	§§	§§	1,546	1,823	1,941	1,699	1,568	1,095	951	
Rate								21.0	24.0	25.0	21.4	19.9	14.0	12.1	
Other Accidents (rest of V01-X59, Y85-Y86)	3,521	3,549	3,516	3,426	3,138	3,574	3,205	3,107	3,091	3,255	2,707	2,450	2,091	1,947	
Rate	93.0	79.3	69.3	62.4	50.8	53.3	45.1	42.2	40.7	41.9	34.3	31.2	26.8	24.9	
Intentional Self-harm (Suicide) (X60-X84, Y87.0)	761	825	686	742	842	1,163	1,369	1,191	907	930	863	649	711	908	
Rate	20.1	18.4	17.2	13.5	13.6	17.4	19.3	16.2	11.9	12.0	10.9	8.3	9.1	11.6	
Assault (Homicide) (X85-Y09, Y87.1)	143	247	293	271	334	405	522	351	265	362	318	340	366	592	
Rate	3.8	5.5	5.8	4.9	5.4	6.0	7.4	4.5	3.5	4.7	4.0	4.3	4.7	7.6	
Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate															
Alzheimer's Disease (G30)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate															
Asthma (J45-J46)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
Rate															

*Populations for calculating rates vary by year. See Technical Notes: Population, Citywide.

†See Technical Notes: Vital Events Rates.

‡HIV disease was first reported as a cause of death in 1982. See the Technical Notes and Historical Technical Notes: Deaths, HIV and AIDS Mortality.

§Data for 1982-1985.

||Rate not calculated for count less than 5.

¶Motor vehicle accident codes are listed in Table M1.

**World Trade Center (WTC) disaster deaths are not included in 2001. See Special Section on WTC deaths in the 2002 Summary of Vital Statistics for detailed statistics.

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

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

§§Data are not available or not applicable.

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

MORTALITY

Population for Selected Causes, New York City, 1901-2020

Average

1966-1970	1971-1975	1976-1980	1981-1985	1986-1990	1991-1995	1996-2000	2001-2005*	2006-2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
3,477	2,312	1,875	1,624	1,691	1,339	881	760	682	577	583	551	516	526	491	500	446	464	388
23.6	19.9	17.4	14.4	12.8	10.0	7.1	6.1	5.4	4.7	4.7	4.6	4.2	4.3	4.1	4.3	3.9	4.2	3.9
2,602	1,714	1,333	1,097	1,159	912	609	512	445	378	383	377	326	342	312	344	278	305	244
17.7	14.8	12.3	9.7	8.8	6.8	4.9	4.1	3.5	3.1	3.1	3.1	2.7	2.8	2.6	2.9	2.4	2.8	2.4
2,351	1,480	1,131	927	972	753	478	394	335	293	301	283	254	242	230	250	219	233	198
16.0	12.8	10.5	8.2	7.4	5.6	3.8	3.2	2.6	2.4	2.4	2.3	2.1	2.0	1.9	2.1	1.9	2.1	2.0
1,885	1,288	835	719	698	686	518	431	388	368	379	371	401	345	388	347	378	311	325
12.8	11.1	7.7	6.4	5.3	5.1	4.2	3.5	3.1	3.0	3.1	3.1	3.3	2.8	3.2	3.0	3.3	2.8	3.2
28.4	23.6	18.1	14.5	12.6	10.6	8.0	6.7	5.7	5.4	5.5	5.4	5.3	4.8	5.1	5.1	5.2	4.9	5.4
\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	3.0	3.2	3.9	3.7	2.9	3.0	2.7	3.9	2.4	4.3	2.2
								24.1	25.7	30.5	30.1	23.5	24.9	22.1	32.1	19.9	36.7	28.0
73	36	28	33	29	26	22	29	32	30	23	25	23	35	18	25	23	21	19
49.6	31.1	25.9	29.2	22.3	19.2	17.5	23.1	25.4	24.4	18.7	20.8	18.8	28.8	15.0	21.4	20.1	19.0	19.0
432	235	141	125	174	135	39	25	16	27	13	13	22	17	16	13	17	19	19
5.5	3.1	2.0	1.7	2.4	1.8	0.5	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
39	32	22	35	55	34	14	5	5	5	3	4	9	3	5	2	3	5	3
0.5	0.4	0.3	0.5	0.8	0.5	0.2	0.1	0.1	0.1									
\$\$	\$\$	\$\$	7688	3,703	6,257	2,716	1,603	1,032	766	609	579	523	483	432	369	331	340	340
			10.7	50.9	83.2	36.4	19.9	12.7	9.3	7.3	6.9	6.2	5.6	5.1	4.3	3.9	4.1	3.9
17,814	17,315	16,549	15,889	15,612	15,191	14,335	13,717	13,185	13,443	13,405	13,362	13,380	13,318	13,533	13,297	13,037	12,448	11,670
226.3	226.3	228.7	222.3	214.7	201.9	192.2	169.9	162.1	162.6	160.8	159.0	157.6	155.8	158.5	154.2	155.2	149.3	132.6
1,890	2,434	2,387	2,217	2,201	2,083	1,849	1,713	1,565	1,538	1,585	1,569	1,405	1,453	1,354	1,297	1,272	1,133	1,085
51.0	68.1	71.0	66.7	64.4	60.6	52.7	44.8	40.5	39.1	39.9	39.1	34.7	35.6	33.2	31.5	31.8	28.5	25.7
474	777	970	1,169	1,315	1,426	1,416	1,388	1,340	1,340	1,302	1,349	1,254	1,271	1,165	1,170	1,154	1,034	936
11.4	19.1	25.0	30.6	33.9	36.7	35.9	32.7	31.4	30.9	29.8	30.7	28.2	28.4	26.1	25.9	26.3	23.7	20.5
\$\$	\$\$	\$\$	\$\$	\$\$	1,805	1,685	1,546	1,414	1,374	1,380	1,329	1,268	1,275	1,311	1,304	1,175	1,127	1,136
					24.0	22.6	19.2	17.4	16.6	16.6	15.8	14.9	14.9	15.4	15.1	14.0	13.5	12.9
1,787	1,723	1,622	1,533	1,537	1,510	1,354	1,266	1,111	1,090	1,122	1,080	1,098	1,049	1,084	1,032	1,121	1,049	967
42.9	42.3	41.9	40.1	39.6	38.9	34.3	29.8	26.0	25.1	25.7	24.6	24.7	23.5	24.3	22.9	25.5	24.1	21.1
1,867	2,064	1,547	1,436	1,198	1,348	1,659	1,770	1,662	1,770	1,813	1,844	1,798	1,852	1,796	1,802	1,963	1,894	2,219
23.7	27.0	21.4	20.1	16.5	17.9	22.2	21.9	20.4	21.4	21.7	21.9	21.2	21.7	21.0	20.9	23.4	22.7	25.2
41,981	40,639	37,978	37,818	33,527	32,074	29,330	26,663	23,414	20,044	19,808	19,967	19,715	20,502	20,597	21,031	21,328	21,430	25,553
532.4	531.1	524.8	529.1	461.0	426.4	393.2	330.3	287.9	242.4	237.6	237.5	232.2	239.8	241.2	243.9	253.9	257.1	290.2
6,277	5,433	4,174	3,194	2,927	2,256	2,058	1,807	1,555	1,750	1,647	1,707	1,787	1,847	1,842	1,901	1,888	1,889	2,194
79.7	71.0	57.7	44.7	40.2	30.0	27.6	22.4	19.1	21.2	19.8	20.3	21.0	21.6	21.6	22.0	22.5	22.7	24.9
3,562	3,164	3,000	2,740	3,354	2,810	2,548	2,726	2,372	2,492	2,245	2,472	2,220	2,096	2,019	1,945	2,004	1,624	2,049
45.2	41.4	41.5	38.3	46.1	37.4	34.2	33.8	29.2	30.1	26.9	29.4	26.1	24.5	23.6	22.6	23.9	19.5	23.3
1,425	1,627	1,583	1,941	2,507	1,943	2,025	2,037	1,909	2,278	2,209	2,355	2,425	2,386	2,238	2,407	2,416	2,541	2,656
18.1	21.3	21.9	27.2	34.5	25.8	27.1	25.2	23.5	27.5	26.5	28.0	28.6	27.9	26.2	27.9	28.8	30.5	30.2
2,936	2,440	2,185	1,789	1,289	946	697	521	493	550	534	586	589	610	522	605	571	546	608
37.3	31.9	30.2	25.0	17.7	12.6	9.3	6.5	6.1	6.7	6.4	7.0	6.9	7.1	6.1	7.0	6.8	6.5	6.9
447	372	381	383	816	311	564	654	429	453	461	464	486	437	416	388	459	538	681
5.7	4.9	5.3	5.4	11.2	4.1	7.6	8.1	5.3	5.5	5.5	5.5	5.7	5.1	4.9	4.5	5.5	6.5	7.7
551	677	414	573	787	947	875	866	262	158	152	148	170	195	172	134	125	90	100
7.0	8.8	5.7	8.0	10.8	12.6	11.7	10.7	3.2	1.9	1.8	1.8	2.0	2.3	2.0	1.6	1.5	1.1	1.1
\$\$	\$\$	\$\$	1	143	49	26	41	353	600	660	724	723	856	1,320	1,398	1,375	1,466	2,071
				2.0	0.7	0.3	0.5	4.3	7.3	7.9	8.6	8.5	10.0	15.5	16.2	16.4	17.6	23.5
887	834	606	477	624	554	419	386	315	283	315	305	271	258	245	221	219	233	264
11.3	10.9	8.4	6.7	8.6	7.4	5.6	4.8	3.9	3.4	3.8	3.6	3.2	3.0	2.9	2.6	2.6	2.8	3.0
871	755	525	486	589	508	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$
11.1	9.9	7.3	6.8	8.1	6.8													
1,730	1,239	926	812	880	394	493	792	712	735	719	731	755	798	752	832	821	841	809
22.0	16.2	12.8	11.4	12.1	5.2	6.6	9.8	8.8	8.9	8.6	8.7	8.9	9.3	8.8	9.6	9.8	10.1	9.2
680	641	711	603	600	599	514	483	477	509	557	550	565	552	525	565	562	541	547
8.6	8.4	9.8	8.4	8.3	8.0	6.9	6.0	5.9	6.2	6.7	6.5	6.7	6.5	6.1	6.6	6.7	6.5	6.2
992	1,663	1,700	1,763	1,902	1,785	778	624	549	528	440	343	353	379	362	298	311	321	486
12.6	21.7	23.5	24.7	26.2	24.1	10.4	7.7	6.8	6.4	5.3	4.1	4.2	4.4	4.2	3.5	3.7	3.9	5.5
946	1,062	699	696	504	161	151	232	212	247	241	227	253	265	259	245	296	313	255
10.9	13.9	9.7	9.7	6.9	2.0	2.0	2.9	2.6	3.0	2.9	2.7	3.0	3.1	3.0	2.8	3.5	3.8	2.9
\$\$	\$\$	\$\$	\$\$	\$\$	84	115	232	400	626	696	740	789	1,079	1,100	1,116	1,195	1,141	1,129
					1.2	1.5	2.9	4.9	7.6	8.3	8.8	9.3	12.6	12.9	12.9	14.2	13.7	12.8
\$\$	\$\$	\$\$	\$\$	\$\$	269	243	196	154	171	166	180	182	167	157	161	174	172	204
					3.7	3.3	2.4	1.9	2.1	2.0	2.1	2.1	2.0	1.8	1.9	2.1	2.1	2.3

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Table M14. Alcohol-Attributable Deaths Due to Excessive Alcohol Use, Age ≥20 Years*, New York City, 2020

Cause	Total†	Male	Female
Acute Pancreatitis	6	5	1
Air-space transport	0	0	0.18
Alcohol abuse	147	118	29
Alcohol-induced acute pancreatitis	8	5	3
Alcohol cardiomyopathy	5	5	0
Alcohol induced chronic pancreatitis	2	2	0
Alcohol dependence syndrome	9	6	3
Alcoholic gastritis	2	2	0
Alcoholic liver disease	403	299	104
Alcohol poisoning	9	8	1
Alcoholic psychosis	206	163	43
Suicide by and exposure to alcohol	1	1	0
Aspiration	4	3	1
Atrial fibrillation	9	5	4
Breast Cancer, females	50	-	50
Colorectal cancer	47	40	7
Esophageal cancer	20	14	6
Laryngeal cancer	8	7	1
Liver cancer	30	27	3
Cancer, oral cavity and pharyngeal	38	31	7
Pancreatic cancer	3	2	1
Prostate cancer	9	9	0
Stomach cancer	1	1	0
Child maltreatment	2	2	0
Chronic hepatitis	0	0	0
Chronic pancreatitis	0	0	0
Drowning injuries	13	10	3
Esophageal varices	6	4	2
Fall injuries	46	36	10
Firearm injuries	1	1	0
Fire injuries	19	10	9
Gallbladder	-8	-5	-3
Gastroesophageal hemorrhage	0	0	0
Homicide	222	196	26
Hypertension	129	250	-121
Hypothermia	9	7	2
Infant death, low birth weight	0	0	0
Infant death, preterm birth	0	0	0
Infant death, small for gestational age	0	0	0
Coronary heart disease	-257	-132	-125
Liver cirrhosis, unspecified	113	60	53
Occupational and machine injuries	1	0	0
Motor vehicle nontraffic	0	0	0
Motor Vehicle traffic	93	73	20
Other road vehicle accidents	6	6	1
Poisoning (not alcohol)	607	471	136
Pneumonia	16	13	3
Portal Hypertension	1	0	1
Unprovoked seizures, epilepsy, or seizure disorder	10	7	2
Stroke, hemorrhagic	49	27	23
Stroke, ischemic	-85	-15	-70
Suicide	130	99	31
Water Transport	1	1	0

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

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

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

Table M15. Smoking-Attributable Deaths and Age-adjusted Death Rates, Age ≥ 35 Years, New York City, 2017 - 2020

Disease Category	2017						2018						2019						2020					
	Deaths			Age-adjusted Rates (per 100,000 Population)			Deaths			Age-adjusted Rates (per 100,000 Population)			Deaths			Age-adjusted Rates (per 100,000 Population)			Deaths			Age-adjusted Rates (per 100,000 Population)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	4,734	3,363	8,097	233.0	116.7	165.3	4,585	3,414	7,999	223.7	118.8	163.1	4,494	3,070	7,564	212.9	105.0	150.8	5,041	3,497	1,586	226.6	116.0	163.9
Cerebrovascular disease	70	62	132	3.5	2.1	2.7	66	68	134	3.3	2.3	2.7	63	61	124	3.0	2.0	2.4	85	79	164	4.0	2.6	3.2
Chronic obstructive pulmonary disease (ages ≥ 65)	494	593	1,088	26.6	20.5	22.8	502	577	1,079	26.3	19.8	22.4	555	539	1,094	27.4	18.6	22.1	518	533	1,051	25.4	17.5	20.6
Coronary heart disease	1,680	1,141	2,821	83.2	39.9	58.2	1,614	1,207	2,821	79.5	42.1	58.2	1,646	1,076	2,722	78.5	37.0	54.9	2,054	1,431	3,485	93.1	47.8	67.8
Diabetes mellitus	63	32	95	2.9	1.1	1.8	59	31	90	2.7	1.1	1.7	72	32	104	3.1	1.1	1.9	74	41	115	3.0	1.3	2.0
Influenza, pneumonia, Tuberculosis, and COPD (ages 35-64)	167	123	290	6.8	4.3	5.5	186	128	314	7.6	4.6	6.0	194	118	312	7.9	4.3	6.0	250	128	378	9.3	4.5	6.8
Influenza, pneumonia, and tuberculosis (ages ≥ 65)	183	83	266	9.8	2.9	5.6	184	90	274	9.7	3.1	5.7	153	60	213	7.8	2.0	4.3	194	91	285	9.3	3.0	5.5
Lung cancer	1,065	857	1,922	51.3	29.5	38.5	1,037	847	1,884	49.5	29.4	37.7	917	744	1,661	42.9	25.2	32.5	891	695	1,586	39.6	22.7	29.8
Other cancers	669	263	932	32.7	9.0	18.8	605	251	856	29.4	8.6	17.3	583	222	805	27.4	7.6	15.9	581	233	814	25.9	7.6	15.3
Other cardiovascular diseases (ages 35-64)*	205	64	269	8.7	2.4	5.4	199	67	266	8.6	2.7	5.5	197	61	258	8.4	2.5	5.3	231	67	298	9.1	2.5	5.7
Other heart disease (ages ≥ 65)†	70	86	156	3.7	3.0	3.3	70	82	152	3.7	2.8	3.2	77	86	163	3.7	2.9	3.3	96	103	199	4.6	3.4	3.9
Other vascular diseases (ages ≥ 65)‡	70	57	127	3.7	2.0	2.7	63	66	129	3.3	2.3	2.7	53	55	108	2.6	1.8	2.2	67	96	163	3.4	3.2	3.2

Note: Smoking prevalence rates are from the New York City Community Health Survey and calculated by the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene. Beginning in 2014, the calculation of smoking-attributable deaths uses the updated CDC method. As a result, the number of smoking-attributable deaths are much higher than in prior years. See Technical Notes: Deaths, Alcohol- and Smoking-attributable Mortality for methodology.

* Total may differ from sum of male and female numbers due to rounding.
 † Other cardiovascular diseases are comprised of other heart diseases, cerebrovascular diseases, other vascular diseases and diabetes mellitus.
 ‡ Other heart diseases are comprised of rheumatic heart disease, pulmonary heart disease, and other forms of heart disease.
 † Other vascular diseases are comprised of atherosclerosis, aortic aneurysm, and other arterial diseases.

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

Age and Racial/Ethnic Groups	All																Male				
	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1983-2006	2007	2008	2009	2010	2011
ALL AGES Total	75,642	1,115	1,073	933	832	766	609	579	523	483	432	369	331	340	340	57,706	711	702	603	574	528
Puerto Rican (PR)	14,138	224	217	187	196	186	115	138	88	102	70	63	44	50	55	10,383	142	138	125	135	123
Hisp./Latino (not PR)	6,735	103	118	105	72	46	37	34	43	29	54	43	42	52	49	5,487	76	84	71	54	39
Asian & Pacific Islander	487	5	10	3	6	4	5	8	2	5	6	5	3	3	5	431	3	7	2	3	2
Non-Hisp./Lat. White	18,860	143	129	90	100	94	80	73	62	50	45	45	48	30	27	16,401	103	104	68	76	75
Non-Hisp./Lat. Black	31,593	625	583	537	449	421	359	311	298	277	231	201	180	195	182	21,940	377	356	329	297	277
Other or Unknown	3,829	15	16	11	9	15	13	15	30	20	26	12	14	10	22	3,064	10	13	8	9	12
0-24 Total	2,396	21	17	15	8	16	13	8	9	8	7	2	2	4	3	1,315	10	7	6	4	13
Puerto Rican	452	7	3	2	1	4	2	-	-	2	-	-	1	-	-	253	3	-	-	-	2
Hisp./Latino (not PR)	264	5	-	3	-	-	2	-	-	1	-	1	-	1	1	162	4	-	-	-	-
Asian & Pacific Islander	14	-	-	-	1	-	-	-	-	-	-	-	-	-	-	9	-	-	-	1	-
Non-Hisp./Lat. White	360	1	1	3	-	-	-	1	2	1	-	-	-	-	-	220	1	1	2	-	-
Non-Hisp./Lat. Black	1,174	8	13	7	6	12	9	7	7	4	7	1	1	3	2	605	2	6	4	3	11
Other or Unknown	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	-	-
25-34 Total	17,109	52	77	49	37	40	34	29	28	28	31	33	21	27	27	12,326	32	48	32	27	29
Puerto Rican	3,535	8	8	7	11	2	3	5	4	5	3	2	-	2	2	2,466	3	5	6	7	2
Hisp./Latino (not PR)	1,808	4	11	3	8	8	6	4	3	2	3	5	3	7	6	1,439	4	10	2	6	7
Asian & Pacific Islander	92	1	-	1	-	2	1	-	-	1	2	1	2	-	-	78	-	-	-	-	1
Non-Hisp./Lat. White	4,063	3	6	5	1	3	1	2	1	1	-	2	2	1	3	3,383	2	4	5	1	2
Non-Hisp./Lat. Black	6,715	35	52	33	17	25	23	17	19	18	24	21	14	14	15	4,287	22	29	19	13	17
Other or Unknown	896	1	-	-	-	-	-	1	1	1	-	1	1	1	1	673	1	-	-	-	-
35-44 Total	31,631	311	246	190	142	125	90	73	60	64	54	46	33	33	37	24,242	177	144	111	94	77
Puerto Rican	5,769	64	57	45	34	28	17	22	12	8	7	4	6	6	2	4,293	41	30	26	20	17
Hisp./Latino (not PR)	2,664	27	37	28	19	8	4	3	7	5	10	5	6	2	5	2,179	17	23	16	14	8
Asian & Pacific Islander	195	2	3	1	-	1	2	3	1	3	1	2	-	-	1	181	1	3	1	-	-
Non-Hisp./Lat. White	8,307	46	34	18	16	12	15	7	10	4	5	5	-	2	2	7,237	32	22	12	11	10
Non-Hisp./Lat. Black	13,103	168	113	98	71	76	49	37	28	40	30	30	18	22	23	9,076	83	65	56	47	42
Other or Unknown	1,593	4	2	-	2	-	3	1	2	4	1	-	3	1	4	1,276	3	1	-	2	-
45-54 Total	17,364	448	425	352	330	287	217	215	167	143	106	96	83	71	66	13,921	289	275	225	219	183
Puerto Rican	3,210	84	89	65	85	75	46	55	34	38	16	13	13	10	12	2,463	58	56	51	62	43
Hisp./Latino (not PR)	1,361	43	46	46	29	15	14	14	16	9	13	17	9	11	8	1,165	32	33	35	20	12
Asian & Pacific Islander	122	-	5	-	3	-	-	1	1	1	-	-	-	1	1	112	-	3	-	1	-
Non-Hisp./Lat. White	4,340	61	45	35	37	41	28	28	16	15	11	14	9	6	1	3,931	40	37	25	28	30
Non-Hisp./Lat. Black	7,459	256	231	200	173	150	123	111	87	76	58	45	48	40	40	5,496	156	139	111	105	95
Other or Unknown	872	4	9	6	3	6	6	6	13	4	7	7	4	3	4	754	3	7	3	3	3
55-64 Total	5,531	213	231	241	239	213	169	172	174	141	150	117	116	117	106	4,621	154	173	164	179	159
Puerto Rican	960	39	49	49	51	54	34	42	24	33	25	25	10	19	18	746	23	38	30	38	41
Hisp./Latino (not PR)	488	18	15	18	11	9	5	11	13	4	21	11	16	18	15	416	13	13	12	10	7
Asian & Pacific Islander	46	1	-	-	2	-	2	3	-	-	1	-	1	-	2	38	1	-	-	1	-
Non-Hisp./Lat. White	1,378	22	32	21	36	30	24	21	20	16	15	17	27	9	6	1,271	19	30	17	28	25
Non-Hisp./Lat. Black	2,397	128	131	150	136	112	101	92	106	80	78	61	58	67	56	1,919	96	88	102	99	78
Other or Unknown	262	5	4	3	3	8	3	3	11	8	10	3	4	4	9	231	2	4	3	3	8
≥65 Total	1,610	70	77	86	76	85	86	82	85	99	84	75	76	88	101	1,280	49	55	65	51	67
Puerto Rican	212	22	11	19	14	23	13	14	14	16	19	19	14	13	21	162	14	9	12	8	18
Hisp./Latino (not PR)	150	6	9	7	5	6	6	2	4	8	7	4	8	13	14	126	6	5	6	4	5
Asian & Pacific Islander	18	1	2	1	-	1	-	1	-	2	1	1	-	1	1	13	1	1	1	-	1
Non-Hisp./Lat. White	412	10	11	8	10	8	12	14	13	13	14	7	10	12	15	359	9	10	7	8	8
Non-Hisp./Lat. Black	745	30	43	49	46	46	54	47	51	59	34	43	41	49	46	557	18	29	37	30	34
Other or Unknown	73	1	1	2	1	1	1	4	3	3	8	1	2	1	4	63	1	1	2	1	1

Note: See Technical Notes: Deaths, HIV and AIDS Mortality.

* Beginning in 2003, multiple races are included in the "Other or Unknown" category in this table. See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

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New York City, 1983-2020

											Female												
2012	2013	2014	2015	2016	2017	2018	2019	2020	1983-2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
402	398	359	332	296	249	230	225	229	17,936	404	371	330	258	238	207	181	164	151	136	120	101	115	111
75	94	56	68	50	44	31	37	39	3,755	82	79	62	61	63	40	44	32	34	20	19	13	13	16
28	28	36	19	44	34	30	34	36	1,248	27	34	34	18	7	9	6	7	10	10	9	12	18	13
4	5	1	3	6	4	3	3	4	56	2	3	1	3	2	1	3	1	2	-	1	-	-	1
63	53	50	40	36	34	33	22	24	2,459	40	25	22	24	19	17	20	12	10	9	11	15	8	3
223	204	196	185	140	124	122	122	111	9,653	248	227	208	152	144	136	107	102	92	91	77	58	73	71
9	14	20	17	20	9	11	7	15	765	5	3	-	3	4	1	10	3	6	3	3	3	3	7
6	6	7	5	2	1	2	4	2	1,081	11	10	9	4	3	7	2	2	3	5	1	-	-	1
-	-	-	2	-	-	1	-	-	199	4	3	2	1	2	2	-	-	-	-	-	-	-	-
1	-	-	-	-	1	-	1	1	102	1	-	3	-	-	1	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	2	1	-	-	-	-	-	140	-	-	1	-	-	1	-	-	-	-	-	-	-	-
5	6	5	2	2	-	1	3	1	569	6	7	3	3	1	4	1	2	2	5	1	-	-	1
-	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	27	17	21	24	22	15	23	19	4,783	20	29	17	10	11	10	2	11	7	7	11	6	4	8
2	5	-	2	2	1	-	2	2	1,069	5	3	1	4	-	1	-	4	3	1	1	-	-	-
5	4	3	2	3	4	2	7	4	369	-	1	1	2	1	1	-	-	-	-	1	1	-	2
1	-	-	1	1	2	1	2	-	14	1	-	1	-	1	-	-	-	-	-	-	-	-	-
1	1	1	1	-	1	2	1	3	680	1	2	-	-	1	-	1	-	-	-	1	-	-	-
15	16	12	14	18	14	9	10	9	2,428	13	23	14	4	8	8	1	7	4	6	7	5	4	6
-	1	1	1	-	-	1	1	1	223	-	-	-	-	-	-	-	-	-	-	1	-	-	-
54	45	33	32	31	29	19	22	26	7,389	134	102	79	48	48	36	28	27	32	23	17	14	11	11
10	10	4	6	6	3	4	6	2	1,476	23	27	19	14	11	7	12	8	2	1	1	2	-	-
1	3	5	2	8	4	4	2	5	485	10	14	12	5	-	3	-	2	3	2	1	2	-	-
1	1	-	1	1	2	-	-	1	14	1	-	-	-	1	1	2	1	2	-	-	-	-	-
13	3	7	1	4	5	-	1	2	1,070	14	12	6	5	2	2	4	3	3	1	-	-	1	8
28	27	16	20	12	15	9	12	15	4,027	85	48	42	24	34	21	10	12	20	18	15	9	10	3
1	1	1	2	-	2	1	1	1	317	1	1	-	-	-	2	-	1	2	1	-	1	-	-
136	140	115	97	63	62	52	41	37	3,443	159	150	127	111	104	81	75	52	46	43	34	31	30	29
29	38	22	25	10	9	5	5	7	747	26	33	14	23	32	17	17	12	13	6	4	8	5	5
12	10	13	7	11	13	7	5	6	196	11	13	11	9	3	2	4	3	2	2	4	2	6	2
-	1	1	1	1	-	-	1	1	10	-	2	-	2	-	-	-	-	-	-	-	-	-	-
22	20	13	11	8	11	7	4	1	409	21	8	10	9	11	6	8	3	4	3	3	2	2	-
69	65	55	50	28	24	30	24	20	1,963	100	92	89	68	55	54	46	32	26	30	21	18	16	20
4	6	11	3	5	5	3	2	2	118	1	2	3	-	3	2	-	2	1	2	2	1	1	2
120	118	130	103	109	84	88	70	72	910	59	58	77	60	54	49	54	44	38	41	33	28	47	34
25	33	21	20	19	19	9	15	11	214	16	11	19	13	13	9	9	3	13	6	6	1	4	7
4	10	11	1	16	8	13	11	11	72	5	2	6	1	2	1	1	2	3	5	3	3	7	4
2	2	-	-	1	-	1	-	2	8	-	-	-	-	1	-	-	-	-	-	-	-	-	-
19	16	18	15	12	12	17	7	3	107	3	2	4	8	5	5	5	2	1	3	5	10	2	3
67	54	75	59	54	42	44	35	37	478	32	43	48	37	34	34	38	31	21	24	19	14	32	19
3	3	5	8	7	3	4	2	8	31	3	-	-	-	-	-	-	6	-	3	-	-	2	1
62	62	57	74	67	51	54	65	73	330	21	22	21	25	18	24	20	28	25	17	24	22	23	28
9	8	9	13	13	12	12	9	17	50	8	2	7	6	5	4	6	5	3	6	7	2	4	4
5	1	4	7	6	4	4	8	9	24	-	4	1	1	1	1	1	-	1	1	-	4	5	5
-	1	-	-	2	-	1	-	-	5	-	1	-	-	-	-	-	-	-	-	1	-	-	1
8	13	9	11	12	5	7	9	15	53	1	1	1	2	-	4	1	4	2	2	2	3	3	-
39	36	33	40	26	29	29	38	29	188	12	14	12	16	12	15	11	18	19	8	14	12	11	17
1	3	2	3	8	1	1	1	3	10	-	-	-	-	-	-	1	1	-	-	-	1	-	1

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Table M17. Selected Characteristics of Deaths Due to Fatal Occupational Injuries*, New York City, 2020

	Selected event or exposure†‡						
	All Deaths	Violence and other injuries by persons or animals	Transportation incidents	Fires and explosions	Falls, slips, trips	Exposure to harmful substances or environments	Contact with objects and equipment
Total	59	13			13	17	7
Selected Industries							
Government (Federal, State, Local)§	4						
Private industry§	55	12			13	15	7
Goods producing							
Construction	13				5	3	3
Manufacturing	3						
Service providing							
Trade, transportation, and utilities							
Financial activities							
Professional and business services	4						
Educational and health services	4					3	
Leisure and hospitality							
Other services, except public admin.	3						
Sex							
Female							
Male							
Race or ethnic origin 							
Non-Hispanic/Latino White	18	7				5	
Non-Hispanic/Latino Black	11					4	3
Hispanic/Latino	23				6	8	
Asian							
Age Group							
<25 years	5						
25-34 years	11	4					
35-44 years	16				3	8	
45-54 years	11	4					
55-64 years	8					5	
>65 years	8						

*Source: Bureau of Labor Statistics: Fatal Occupational Injuries in New York City

<https://www.bls.gov/iif/state-data/fatal-occupational-injuries-in-new-york-city-2020.htm>

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

‡Totals for major categories may include subcategories not shown separately. Blank cells indicate no data reported, or data that do not meet publication criteria. CFOI fatality counts exclude illness-related deaths unless precipitated by an injury event.

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

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

Table M18. Deaths Due to Accidents, Overall and by Age and Sex, New York City, 2020

Type	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75			
	All Ages	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
Total	3,144	7	5	5	3	7	4	16	8	103	33	381	93	397	129	466	123	502	153	193	87	224	205	
Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist	60	-	-	1	-	2	-	2	3	6	4	14	2	6	2	2	2	3	2	1	1	1	4	3
Injury to Pedestrians	135	-	-	1	2	1	1	-	1	2	2	12	7	12	4	15	2	19	8	14	14	11	7	7
Collision with motor vehicle	108	-	-	1	2	1	1	-	1	1	2	7	6	6	3	11	1	16	8	11	13	10	7	7
Collision with railway transportation	26	-	-	-	-	-	-	-	-	-	-	5	1	6	1	4	1	3	-	3	1	1	-	-
Other collision	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Injury to Pedal Cyclist	27	-	-	-	-	-	-	-	-	6	-	4	1	5	1	4	-	1	-	1	1	2	-	-
Collision with motor vehicle	21	-	-	-	-	-	-	-	-	6	-	3	1	3	1	2	-	1	-	1	1	1	-	-
Other collision	6	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-
Injury to Motorcyclist	56	-	-	-	-	-	-	1	-	5	-	22	2	14	-	4	-	6	1	1	-	-	-	-
Water Transport Accidents	4	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Air and Space Transport Accidents	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Transport Accidents	21	-	-	-	-	-	-	1	-	2	1	3	-	5	-	2	-	2	1	-	1	1	1	1
Sequelae (Late Effects) of Transport Accidents	15	-	-	-	-	-	-	-	-	-	-	3	-	3	-	-	-	1	-	2	2	3	1	1
Fall	479	-	-	1	-	-	-	-	-	2	1	10	1	20	1	22	3	31	16	49	25	143	154	-
Firearm Discharge	3	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	23	-	-	1	-	3	1	3	-	3	1	3	1	1	1	-	2	-	1	-	1	-	2	4
Smoke, Fire, and Flames	49	-	-	1	-	1	2	-	-	1	1	-	-	1	5	-	2	3	3	8	4	10	7	7
Poisoning by Noxious Substances	2,091	1	-	-	-	-	-	11	3	72	23	304	74	317	112	400	111	408	113	100	28	13	1	1
Poisoning by psychoactive substances*	2,071	1	-	-	-	-	-	11	3	72	22	300	73	316	111	394	110	405	113	99	28	12	1	1
Poisoning by other noxious substances	20	-	-	-	-	-	-	-	-	-	1	4	1	1	1	6	1	3	-	1	-	1	-	-
Exposure to Excessive Natural Heat	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposure to Excessive Natural Cold	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suffocation	85	5	4	-	-	-	-	-	-	2	-	2	2	5	-	3	2	4	3	7	7	19	20	20
Contact with Machinery	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Nontransport Accidents	49	1	-	-	-	-	-	-	-	1	-	3	1	5	1	4	1	7	1	5	4	12	2	2
Sequelae (Late Effects) of Nontransport Accidents	16	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	6	-	1	-	1	3	3

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

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Table M19. Deaths Due to Intentional Self-harm (Suicide), Overall and by Age and Sex, New York City, 2020

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
Total	547	0	0	0	0	1	4	14	4	29	8	74	30	78	18	66	20	74	17	42	17	35	16
Poisoning by Drug and Medicinal Substances	66	-	-	-	-	-	1	-	-	3	2	5	7	4	2	4	4	11	5	6	4	5	3
Poisoning by Other Substances	5	-	-	-	-	-	-	-	-	-	-	2	1	-	-	1	-	1	-	-	-	-	-
Hanging, Strangulation, and Suffocation	207	-	-	-	-	3	2	1	6	3	30	11	32	7	34	8	28	7	16	6	8	5	5
Drowning and Submersion	32	-	-	-	-	-	5	1	3	-	6	1	5	3	1	-	3	1	-	1	2	-	-
Firearm Discharge	55	-	-	-	-	-	1	-	6	-	5	3	7	1	5	1	8	-	8	-	10	-	-
Sharp Object	29	-	-	-	-	-	-	-	-	1	5	-	6	1	5	1	3	1	2	-	4	-	-
Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jumping From High Place	118	-	-	-	-	1	-	5	2	10	1	16	3	17	3	10	5	17	3	9	4	5	7
Jumping or Lying Before Moving Object	30	-	-	-	-	-	1	-	1	1	5	4	5	1	6	1	3	-	-	1	-	1	-
Other and Unspecified Means	4	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	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, 2020

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75		
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
Total	494	11	1	0	0	0	1	35	3	84	5	145	10	83	16	34	8	24	8	14	1	6	5	
Poisoning by Noxious Substances	4	2	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Hanging, Strangulation, and Suffocation	10	2	-	-	-	1	-	-	-	-	-	2	-	-	-	1	-	3	1	-	-	-	-	
Drowning and Submersion	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Firearm Discharge	301	1	-	-	-	-	27	3	66	1	114	3	46	4	17	5	10	2	1	-	1	-	-	
Smoke, Fire, and Flames	6	-	-	-	-	-	-	-	1	-	-	-	3	-	1	-	1	-	-	-	-	-	-	
Sharp Object	98	-	-	-	-	-	5	-	13	3	20	3	23	8	10	-	7	2	1	-	1	2	-	
Blunt Object	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Pushing From High Place	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Bodily Force	5	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	1	-	
Neglect, Abandonment, and Other Maltreatment	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other and Unspecified Means	39	3	1	-	-	-	1	-	1	1	7	2	6	3	1	1	2	1	5	1	2	1	1	
Sequelae (Late Effects)	17	-	-	-	-	-	-	-	2	-	1	-	1	1	3	1	2	-	4	-	1	1	-	
Legal Intervention, All*	8	-	-	-	-	-	2	-	1	-	1	-	3	-	1	-	-	-	-	-	-	-	-	

*All eight legal intervention deaths are from firearm discharge.

Table M21. Deaths Due to Events of Undetermined Intent, Overall and by Age and Sex, New York City, 2020

Method	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75		
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
All	17	11	0	1	1	0	5	1	12	3	37	7	31	10	41	10	24	5	9	5	15	10	
Poisoning by Noxious Substances	-	-	-	-	-	-	-	-	-	-	2	2	3	2	1	1	1	-	-	-	-	-	
Hanging, Strangulation, and Suffocation	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	-	-	-	-	-	-	-	-	2	-	4	-	2	-	4	1	1	3	-	1	-	-	-
Firearm Discharge	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smoke, Fire, and Flames	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sharp or Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falling From High Place	16	-	-	-	-	-	-	-	2	-	4	1	3	-	2	-	-	-	-	-	-	2	2
Other and Unspecified Means	201	11	-	1	-	-	5	1	8	3	27	4	22	8	34	8	20	3	6	4	11	8	
Sequelae (Late Effects)	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	1	-	-

Table M22. Deaths Due to Complications of Medical and Surgical Care, Overall and by Age and Sex, New York City, 2020

Method	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75		
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
All	77	1	0	0	0	0	0	0	3	0	0	2	3	3	3	4	6	7	7	7	13	15	
Adverse Effects From Drugs, Medicaments, and Biological Substances for Therapeutic Use	16	-	-	-	-	-	-	-	1	-	-	-	2	-	1	3	2	-	2	-	3	2	2
Medical Misadventures to Patients During Surgical and Medical Care	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Adverse Effects from Medical Devices for Therapeutic Use	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and Unspecified Means	60	1	-	-	-	-	-	-	2	-	2	3	1	3	2	1	4	7	5	6	10	13	13
Sequelae (Late Effects)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table M23. Deaths Due to Firearms (All Causes), Overall and by Age and Sex, New York City, 2020

Method	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
All	367	1	-	-	-	-	31	3	73	1	121	6	57	5	23	6	18	2	9	-	11	-
Firearms (All Causes)	1	-	-	-	-	-	31	3	73	1	121	6	57	5	23	6	18	2	9	-	11	-

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

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

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

† World Trade Center (WTC) disaster deaths are excluded. See Special Section in the 2002 Summary of Vital Statistics, Table WTC10, for the impact of WTC deaths on life expectancy in New York City. Due to small age-specific death counts, life-expectancy estimates for Asians and Pacific Islanders are not statistically reliable and therefore not reported.

MORTALITY

Table M25. Life Expectancy at Specified Ages, Overall and by Sex, New York City, 2011 - 2020

Exact Age in Years	Total									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
0	81.1	81.4	81.5	81.8	81.9	82.0	82.2	82.4	82.6	78.0
1	80.4	80.8	80.8	81.2	81.2	81.3	81.6	81.7	81.9	77.3
5	76.5	76.8	76.9	77.2	77.3	77.4	77.6	77.7	78.0	73.3
10	71.5	71.9	71.9	72.3	72.3	72.4	72.7	72.8	73.0	68.3
15	66.6	66.9	67.0	67.3	67.4	67.4	67.7	67.8	68.0	63.4
20	61.7	62.0	62.1	62.4	62.4	62.5	62.8	62.9	63.1	58.5
25	56.9	57.2	57.2	57.6	57.6	57.7	57.9	58.0	58.3	53.7
30	52.0	52.3	52.4	52.7	52.8	52.9	53.1	53.2	53.5	48.9
35	47.2	47.5	47.6	47.9	48.0	48.1	48.3	48.4	48.7	44.1
40	42.4	42.7	42.8	43.1	43.2	43.3	43.6	43.6	43.9	39.5
45	37.8	38.1	38.1	38.4	38.5	38.7	38.9	38.9	39.2	35.0
50	33.3	33.6	33.6	33.9	34.0	34.1	34.3	34.4	34.6	30.6
55	29.0	29.2	29.2	29.5	29.6	29.8	29.9	30.0	30.2	26.4
60	24.9	25.1	25.1	25.4	25.4	25.6	25.7	25.8	26.0	22.4
65	20.9	21.1	21.1	21.4	21.4	21.6	21.7	21.7	22.0	18.7
70	17.1	17.3	17.3	17.6	17.6	17.8	17.9	17.9	18.1	15.3
75	13.5	13.7	13.7	13.9	13.9	14.1	14.2	14.2	14.4	12.0
80	10.3	10.5	10.5	10.6	10.6	10.8	10.8	10.8	11.0	9.2
85	7.5	7.5	7.5	7.6	7.6	7.7	7.8	7.8	8.0	6.7
	Male									
Exact Age in Years	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
0	78.4	78.8	78.9	79.2	79.4	79.5	79.7	79.9	80.0	74.5
1	77.8	78.2	78.2	78.6	78.8	78.8	79.0	79.2	79.3	73.8
5	73.8	74.2	74.3	74.6	74.8	74.8	75.1	75.3	75.4	69.8
10	68.9	69.3	69.3	69.7	69.9	69.9	70.1	70.3	70.4	64.9
15	63.9	64.3	64.4	64.7	64.9	64.9	65.2	65.4	65.5	59.9
20	59.1	59.4	59.5	59.8	60.0	60.0	60.3	60.5	60.6	55.0
25	54.3	54.7	54.7	55.1	55.3	55.3	55.5	55.7	55.8	50.4
30	49.6	49.9	50.0	50.3	50.5	50.5	50.8	50.9	51.0	45.7
35	44.8	45.2	45.2	45.5	45.7	45.8	46.0	46.2	46.3	41.0
40	40.1	40.5	40.5	40.8	41.0	41.1	41.4	41.5	41.6	36.5
45	35.5	35.8	35.8	36.2	36.4	36.5	36.7	36.9	37.1	32.1
50	31.1	31.4	31.4	31.8	31.9	32.0	32.3	32.4	32.5	27.9
55	26.9	27.2	27.2	27.6	27.7	27.8	28.0	28.1	28.3	23.9
60	23.0	23.3	23.2	23.6	23.7	23.8	24.0	24.1	24.2	20.2
65	19.3	19.5	19.4	19.8	19.8	20.0	20.2	20.3	20.4	16.7
70	15.7	16.0	15.9	16.3	16.3	16.4	16.5	16.6	16.7	13.5
75	12.4	12.6	12.5	12.8	12.8	12.9	13.0	13.1	13.3	10.6
80	9.5	9.5	9.6	9.7	9.8	9.9	9.9	9.9	10.1	8.1
85	6.9	6.9	6.9	6.9	7.0	7.0	7.1	7.1	7.3	6.0
	Female									
Exact Age in Years	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
0	83.4	83.6	83.8	84.1	84.1	84.2	84.5	84.5	84.9	81.4
1	82.7	83.0	83.1	83.4	83.4	83.6	83.8	83.8	84.2	80.7
5	78.8	79.0	79.1	79.4	79.4	79.6	79.9	79.8	80.2	76.7
10	73.8	74.1	74.2	74.5	74.5	74.6	74.9	74.9	75.3	71.7
15	68.8	69.1	69.2	69.5	69.5	69.7	69.9	69.9	70.3	66.8
20	63.9	64.2	64.3	64.6	64.5	64.7	65.0	65.0	65.4	61.8
25	59.0	59.3	59.4	59.7	59.7	59.8	60.0	60.1	60.5	56.9
30	54.1	54.4	54.5	54.8	54.7	54.9	55.1	55.1	55.6	52.0
35	49.2	49.5	49.6	49.9	49.9	50.1	50.3	50.3	50.7	47.2
40	44.4	44.6	44.7	45.0	45.0	45.2	45.4	45.4	45.9	42.4
45	39.7	39.9	40.0	40.3	40.3	40.5	40.6	40.7	41.1	37.7
50	35.1	35.3	35.3	35.6	35.7	35.8	36.0	36.0	36.4	33.1
55	30.6	30.8	30.9	31.1	31.2	31.4	31.5	31.5	31.9	28.7
60	26.3	26.5	26.5	26.8	26.8	27.0	27.1	27.1	27.4	24.5
65	22.1	22.3	22.4	22.6	22.6	22.8	22.9	22.9	23.2	20.5
70	18.1	18.3	18.3	18.5	18.6	18.8	18.8	18.8	19.1	16.7
75	14.3	14.5	14.5	14.7	14.7	14.9	15.0	14.9	15.2	13.1
80	10.8	11.1	11.0	11.2	11.2	11.4	11.4	11.4	11.6	9.9
85	7.8	7.9	7.8	7.9	7.9	8.1	8.1	8.1	8.3	7.1

Note: Population data for 2020 are based on 2020 Census counts. Population data for 2011-2019 are estimates based on the 2010 and 2020 US Census. Life tables are derived from a complete life table, which requires single year of age population data. See Technical Notes: Population.

Table M26. Years of Potential Life Lost (YPLL)* Before Age 75, Overall and by Sex and Selected Causes of Death, New York City, 2020

Cause of Death	All		Male		Female	
	YPLL	%	YPLL	%	YPLL	%
Total	622,950	100.0	410,361	100.0	212,589	100.0
COVID-19	142,143	22.8	99,304	24.2	42,839	20.2
Malignant Neoplasms	92,844	14.9	45,652	11.1	47,192	22.2
Trachea, bronchus, and lung	12,458	2.0	7,110	1.7	5,348	2.5
Breast	10,115	1.6	103	0.0	10,012	4.7
Colon, rectum, and anus	9,760	1.6	5,700	1.4	4,060	1.9
Pancreas	6,447	1.0	3,646	0.9	2,801	1.3
Meninges, brain	4,814	0.8	2,955	0.7	1,859	0.9
Heart Disease	89,564	14.4	62,196	15.2	27,368	12.9
Use of or Poisoning by Psychoactive Substance	62,038	10.0	48,169	11.7	13,869	6.5
Assault (Homicide)	19,834	3.2	17,972	4.4	1,862	0.9
Accidents Except Poisoning by Psychoactive Substance	18,010	2.9	13,537	3.3	4,473	2.1
Motor vehicle	8,057	1.3	6,071	1.5	1,986	0.9
Diabetes Mellitus	16,844	2.7	10,384	2.5	6,460	3.0
Intentional Self-harm (Suicide)	15,393	2.5	11,620	2.8	3,773	1.8
Chronic Liver Disease and Cirrhosis	10,998	1.8	8,004	2.0	2,994	1.4
Cerebrovascular Diseases	10,712	1.7	6,625	1.6	4,087	1.9
Influenza and Pneumonia	10,679	1.7	7,147	1.7	3,532	1.7
Chronic Lower Respiratory Diseases	8,956	1.4	4,756	1.2	4,200	2.0
Mental and Behavioral Disorders Due to Use of Alcohol	8,332	1.3	6,736	1.6	1,596	0.8
Essential Hypertension and Hypertensive Renal Diseases	6,464	1.0	4,014	1.0	2,450	1.2
HIV Disease	6,448	1.0	4,298	1.0	2,150	1.0
All Other Causes	103,691	16.6	59,947	14.6	43,744	20.6

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

Table M27. Death Rates by Poverty Level Indicator, New York City, 2011 and 2020

Age-adjusted Death Rates	Low (<10%)			Medium (10 to <20%)			High (20 to <30%)			Very High (≥30%)		
	2020	2011	Change 2011 to 2020	2020	2011	Change 2011 to 2020	2020	2011	Change 2011 to 2020	2020	2011	Change 2011 to 2020
All Causes	593.7	456.8	30.0%	728.8	546.9	33.3%	843.5	649.6	29.8%	1041.4	719.3	44.8%
Premature Deaths	165.3	117.7	40.4%	228.2	160.4	42.3%	296.7	208.3	42.4%	406.2	269.3	50.8%
10 Leading Causes												
Diseases of Heart	165.4	153.4	7.8%	190.3	181.5	4.8%	207.2	215.2	-3.7%	246.3	218.1	12.9%
COVID19	135.4			203.2			242.7			290.9		
Malignant Neoplasm	94.5	124.2	-23.9%	95.9	139.0	-31.0%	105.8	150.7	-29.8%	120.0	161.0	-25.5%
Diabetes Mellitus	13.9	11.8	17.8%	20.3	18.3	10.9%	25.1	23.8	5.5%	34.8	34.3	1.5%
Cerebrovascular Diseases	15.6	14.9	4.7%	18.6	17.4	6.9%	23.3	23.0	1.3%	25.7	25.3	1.6%
Use of or Poisoning by Psychoactive Substances	12.5	6.2	101.6%	16.1	5.4	198.1%	25.8	9.7	166.0%	41.3	12.1	241.3%
Influenza and Pneumonia	13.1	21.0	-37.6%	18.2	28.3	-35.7%	22.3	31.7	-29.7%	30.4	34.0	-10.6%
Chronic Lower Respiratory Diseases	12.6	16.5	-23.6%	14.5	18.4	-21.2%	17.2	23.2	-25.9%	25.5	24.4	4.5%
Essential Hypertension and Hypertensive Renal Diseases	10.2	7.7	32.5%	13.9	9.4	47.9%	18.4	12.7	44.9%	21.5	15.6	37.8%
Alzheimer's Disease	9.8	6.1	60.7%	9.1	6.0	51.7%	9.4	6.6	42.4%	13.1	9.3	40.9%

Note: The 2011 poverty level is based on the 2008-2012 US Census Bureau American Community Survey, and the 2020 poverty level is based on the 2015-2019 US Census Bureau American Community Survey.

Table M28. Leading Causes of Death, New York City, 2011, 2019 and 2020

Cause	2020		2019			2011		
	Rank	Crude Death Rate	Rank	Crude Death Rate	Change to 2020 (%)	Rank	Crude Death Rate	Change to 2020 (%)
Diseases of Heart*	1	241.5	1	213.8	13.0%	1	204.4	18.2%
COVID-19	2	241.3						
Malignant Neoplasms	3	132.6	2	149.3	-11.2%	2	162.6	-18.5%
Diabetes Mellitus	4	25.2	3	22.7	11.0%	5	21.4	17.8%
Cerebrovascular Diseases	5	24.9	4	22.7	9.7%	6	21.2	17.5%
Use of or Poisoning by Psychoactive Substance†	6	24.7	7	18.7	32.1%	10	9.2	168.5%
Influenza and Pneumonia	7	23.3	6	19.5	19.5%	3	30.1	-22.6%
Chronic Lower Respiratory Diseases	8	19.7	5	21.8	-9.6%	4	21.5	-8.4%
Essential Hypertension and Renal Diseases	9	18.1	8	15.9	13.8%	8	11.7	54.7%
Alzheimer's Disease	10	12.8	9	13.7	-6.6%	11	7.6	68.4%

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

†Appendix B Technical Notes: Drug-Related Deaths.

TECHNICAL NOTES

POPULATION

CITYWIDE POPULATION

The 2020 NYC population data used in the tables and figures are based on the US Census Bureau 2020 Census population as extracted from the Census Bureau website (<https://www.census.gov/data/datasets/time-series/demo/popest/2020s-counties-detail.html/cc-est2021-alldata-36.csv>). The 2020 US Census population for New York City (NYC) is 8,804,190. See Table PC2 for the 2020 NYC population by age, mutually exclusive race and Hispanic/Latino origin, and sex. Population data used to compute rate trends (2011-2020) were estimated by DOHMH, Epidemiology Services, using the methodology found below under Community District Population Estimates. Citywide population estimates for 2011-2019 are from “2021 County and Economic Development Regions Population Estimates” by the Cornell Jeb E. Brooks School of Public Policy.

RACE/ETHNICITY CATEGORIES

According to the definition of race categories used in the 2010 Census, “White” refers to a person having origins in any of the original peoples of Europe, the Middle East, or North Africa. It includes people who indicated their race(s) as “White” or reported entries such as Irish, German, Italian, Lebanese, Arab, Moroccan, or Caucasian. “Black or African American” refers to a person having origins in any of the Black racial groups of Africa or South America. It includes people who indicated their race(s) as “Black, African American, or Negro”. “American Indian or Alaska Native” refers to a person having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment. This category includes people who indicated their race(s) as “American Indian or Alaska Native” or reported their enrolled or principal tribe. “Asian” refers to a person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. It includes people who indicated their race(s) as “Asian” or reported entries such as “Asian Indian,” “Chinese,” “Filipino,” “Korean,” “Japanese,” “Vietnamese,” and “Other Asian” or provided other detailed Asian responses. “Native Hawaiian or Other Pacific Islander” refers to a person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands. It includes people who indicated their race(s) as “Pacific Islander” or reported entries such as “Native Hawaiian,” “Guamanian or Chamorro,” “Samoan,” and “Other Pacific Islander” or provided other detailed Pacific Islander responses. “Some Other Race” includes all other responses not included in the White, Black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or Other Pacific Islander race categories described above. Respondents reporting entries such as multiracial, mixed, interracial, or a Hispanic or Latino group (for example, Mexican, Puerto Rican, Cuban, or Spanish) in response to the race question are included in this category.

Hispanics or Latinos are those people who classified themselves in one of the specific Spanish, Hispanic, or Latino categories listed on the Census 2010 questionnaire -“Mexican,” “Puerto Rican,” or “Cuban”-as well as those who indicate that they are “another Hispanic, Latino, or Spanish origin.” People who do not identify with one of the specific origins listed on the questionnaire but indicate that they are “another Hispanic, Latino, or Spanish origin” are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic. The terms “Hispanic,” “Latino,” and “Spanish” are used interchangeably.

Origin can be viewed as the heritage, nationality group, lineage, or country of birth of the person or the person’s parents or ancestors before their arrival in the United States.

People who identify their origin as Spanish, Hispanic, or Latino may be of any race. Thus, the percent Hispanic/Latino should not be added to percentages for racial categories.

TECHNICAL NOTES

COMMUNITY DISTRICT POPULATION ESTIMATES

Community districts were established by City Charter in 1969 for the delivery of city services. Population data for these districts are compiled by the Department of City Planning from census tract and census block data. The sum of the community district populations in each borough may not equal the borough population or the citywide population because community districts may cross borough boundaries.

2020 Community District population

The 2020 Community District population data were calculated based on the 2020 Census released in June 2022 (See Historical Technical Notes for previous years' methods).

LIFE EXPECTANCY

For life expectancy computations, single-year age group populations were based on decennial census counts. Life expectancies for 2011-2019 have been updated from the previous Summary using linear interpolation of single-year age group populations based on 2010 and 2020 census counts. Citywide life expectancies by sex and race/ethnicity for 2020 are calculated based on the 2020 census population. Population data for life expectancies for 2011-2019 were extrapolated based on single-year age groups of Census population, 2010 and 2020. Life expectancy for Asians and Pacific Islanders is not displayed because the required single year of age population denominators are too small to produce reliable estimates. Also see Technical Notes: Deaths, Life Expectancy.

AGE CATEGORIES

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

DEMOGRAPHICS/CHARACTERISTICS OF VITAL EVENTS

AGE AT DEATH

For ages greater than one year, decedent's age is based on age at last birthday. Unknown ages are recoded to mean age at death but are extremely rare.

RACE, ANCESTRY, AND ETHNIC GROUP

Race and ancestry are two separate items on the certificates. A relative of the decedent usually reports this information to the funeral director for the death certificate. As of 2003 and 2008, the death and birth certificates, respectively, allow for the selection of multiple races. Responses are coded following rules from the National Center for Health Statistics (NCHS). The ordered selection rules for defining ethnic group first assign Puerto Rican or other Hispanic/Latino ethnicities based on ancestry, regardless of race. Then, those of other or unknown ancestries are classified by race as Asian and Pacific Islander, non-Hispanic/Latino White, non-Hispanic/Latino Black, and other/multiple race/unknown.

NCHS defines ancestry as the nationality, lineage, or country where the subject's ancestors were born before their arrival in the United States. If a religious group is reported, NCHS instructions are to ask for the country of origin or nationality. New York City receives enough certificates reporting Jewish or Hebrew ancestry to warrant inclusion in these tables, notwithstanding the religious meaning of the terms. Persons whose race is Black and whose ancestry is American are classified as being of African American ancestry.

TECHNICAL NOTES

Infant Mortality

Infant's ethnic group is determined from mother's ancestry and race reported on the infant's birth certificate. In the absence of corresponding birth certificate for an infant death, the infant's race and ancestry information on the infant's death certificate is used to assign an ethnic group. When rates are computed by infant characteristics (e.g. sex of infant or hospital/location of death), such characteristics are drawn from the death certificate, except for those characteristics that are either not indicated on the death certificate or only available on the child's birth certificate (e.g. mother's prenatal care, infant's birth weight, and gestational age). In the absence of a birth certificate, demographics are limited to those available on the death certificate. Infants who died in New York City who were born elsewhere are classified as unmatched in Appendix A: Tables IM2 and IM7.

GEOGRAPHICAL UNITS

RESIDENCY STATUS IN DATA PRESENTATION

Tables that stratify by location of residence (e.g., borough) separate data for non-residents and residence-unknown categories. See Appendix A: Table M1 as an example. Tables that do not stratify by location of residence combine all deaths registered in New York City, regardless of residence.

Vital events that occurred to New York City residents while outside of New York City are not included in this report, except for Life Expectancy. Life expectancy calculations use national data from the NCHS (Summary Figures 1-2; Appendix A Tables M24-M25) or New York State of Health (Summary Figures 3-4), including deaths to New York City residents that occurred outside of New York City. For more information, see Life Expectancy.

BIRTHPLACE PRESENTATION

Mortality Data

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

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

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

BOROUGH OF RESIDENCE

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

COMMUNITY DISTRICT (CD)

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

NEIGHBORHOOD POVERTY INDICATOR

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

TECHNICAL NOTES

Low: <10% of the population below poverty	Medium: 10-19% of the population below poverty	High: 20-29% of the population below poverty	Very High: ≥30% of the population below poverty
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The denominator of any rate by neighborhood poverty category contains the combined populations of census tracts falling within a category. The numerator contains the summed number of vital events occurring to residents of the census tracts falling within a category. Additional information on the poverty indicator can be found at <http://www.hsph.harvard.edu/thegeocodingproject/>.

VITAL EVENT RATES

DEATH RATES

<p><u>Death Rate, all causes per 1,000 population</u></p> $\frac{\text{Deaths All Causes}}{\text{Population}} \times 1,000$	<p><u>Death Rate, specified causes per 100,000 population</u></p> $\frac{\text{Deaths due to Specific Cause (specified ICD10 codes)}}{\text{Population}} \times 100,000$
<p><u>Death Rate, age and sex specific per 1,000 population</u></p> $\frac{\text{Deaths to persons of specified age group and sex}}{\text{Population, specified age group and sex}} \times 1,000$	<p><u>Death Rate, age-adjusted per 100,000 population</u></p> <p>The number of deaths per 100,000 population. Sex and race/ethnicity specific death rates are adjusted using the US standard population age distribution eliminating the effect of differences in population age composition and allowing comparisons over time and between geographic areas. In this publication, 5 age groups are used for calculation: 0-24, 25-44, 45-64, 65-84, 85+, except for Appendix Table M2 which uses the age groups in the table.</p>
<p><u>Maternal Mortality Ratio – World Health Organization Definition (Appendix M13)</u></p> $\frac{\text{Deaths due to complications of pregnancy, childbirth and the puerperium occurring within 42 days of delivery}^*}{\text{Live births}} \times 100,000$ <p>*Deaths of a woman while pregnant or within 42 days of termination of pregnancy from any cause related to or aggravated by pregnancy or its management (ICD10 codes: O00-O95, O98-O99, A34)</p>	
<p><u>Perinatal Mortality Ratio</u></p> $\frac{\text{Fetal Deaths 28 Weeks and Over} + \text{Infant Deaths Under 7 days}}{\text{Fetal Deaths 28 Weeks and Over} + \text{Live Births}} \times 1,000$	

TECHNICAL NOTES

INFANT MORTALITY RATES

<u>Infant Mortality Rate</u> $\frac{\text{Deaths to infants < 1 year old}}{\text{Number of live births}} \times 1,000$	<u>Neonatal Mortality Rate</u> $\frac{\text{Deaths to infants < 28 days of life}}{\text{Number of live births}} \times 1,000$
<u>Early Neonatal Mortality Rate</u> $\frac{\text{Deaths to infants < 7 days of life}}{\text{Number of live births}} \times 1,000$	<u>Late Neonatal Mortality Rate</u> $\frac{\text{Deaths to infants 7 – 27 days of life}}{\text{Number of live births}} \times 1,000$

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

PREGNANCY OUTCOME RATES

<u>Fertility Rate</u> $\frac{\text{Live births}}{\text{Female population aged 15 to 44 years}} \times 1,000$	<u>Pregnancy Rate</u> $\frac{\Sigma (\text{Births, Spontaneous, Induced Terminations})}{\text{Female population of specific age group}} \times 1,000$
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Birth Rates

<u>Total birth rate</u> $\frac{\text{Total births}}{\text{Total population regardless of age or sex}} \times 1,000$	<u>Age-specific birth rate</u> $\frac{\text{Births among specific age group}}{\text{Female population of specific age group}} \times 1,000$
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<u>Total spontaneous termination rate</u> $\frac{\text{Total spontaneous terminations}}{\text{Female population ages 15 to 44 years}} \times 1,000$	<u>Age-specific spontaneous termination rate</u> $\frac{\text{Spontaneous terminations among specific aged females}}{\text{Female population of specified age group}} \times 1,000$
<u>Total induced termination of pregnancy rate</u> $\frac{\text{Total induced terminations}}{\text{Female population ages 15 to 44 years}} \times 1,000$	<u>Age-specific induced termination of pregnancy rate</u> $\frac{\text{Induced terminations among specific aged females}}{\text{Female population of specified age group}} \times 1,000$

<u>Fetal-infant Mortality Rate (FIMR)</u> $\frac{(\text{Fetal deaths [weight} \geq 500 \text{ grams and gestational age} \geq 24 \text{ weeks}] + \text{infant deaths [under 1 year old]})}{(\text{Live births [birthweight} \geq 500 \text{ grams]})} \times 1,000$

TECHNICAL NOTES

Pregnancy Outcome Counts and Rates

Pregnancy outcome (birth, spontaneous termination, or induced termination) counts and rate numerators use the number of events to women of all ages. For example, the birth rate includes all births in a population, regardless of the mother's age. The denominator for these rates differs by event, consistent with national standards. The birth rate denominator is the number of males and females of all ages. The denominator for spontaneous or induced termination rates is the number of females aged 15-44 years. The counts and numerator used in age-specific pregnancy outcome rates for the youngest age category (teens 15-19), is the number of events to women in the population under age 20, relative to the denominator of women in the population ages 15 to 19 (Table PO23, Appendix A). Similarly, the numerator of the oldest age category (40-49) includes events to all women in the population over the age of 40, relative to the denominator of women in the population ages 40-49. NYC first reported these age-specific rates in the 2011 Pregnancy Outcomes Report and applied a denominator of women in the population ages 40-49 as opposed to 40-44 due to the increased number of events occurring among women ages 45-49. The numerator used for the youngest age category for teen pregnancy outcomes (15-17 in Table PO10 Appendix A) is the number of events to women in the population under age 17, relative to the denominator of women in the population ages 15-17.

DEATHS

DEATH CERTIFICATE (see copies behind Appendix B)

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

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

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

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

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

TECHNICAL NOTES

DEATH REPORTING

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

Death certificates must be filed within 72 hours of death or finding the body. During 2020, 98.4% of death certificates were filed electronically using EDRS. Since the June 1993 revision of the death certificate, decedent race and ancestry information is reported by funeral directors.

DEATH RATES

See Vital Event Rates

TYPE OF PLACE OF DEATH

“Hospital” includes residential units and other special facilities within the hospital. “Nursing home” includes only sites licensed as Extended Care Facilities by New York State. “Home” refers to the decedent’s residence, and includes private houses and apartments, group quarters for special populations, homes for adults, and other long-term residential sites.

CAUSE OF DEATH REPORTING

The cause of death on the death certificate is completed by a physician, medical examiner or, as of January 16, 2012, by a nurse practitioner. The clinician is required to provide the complete sequence of events and/or medical conditions leading to the death. These include the following:

immediate cause - the specific condition that directly preceded the death.

intermediate cause(s) - the significant condition(s) that preceded and gave rise to the immediate cause of death.

underlying cause - the disease or condition that set off the chain of events leading to death.

For further information on how cause of death should be documented, visit

<https://www.nyc.gov/site/doh/data/data-sets/cause-of-death-quality.page>.

CAUSE OF DEATH-QUALITY IMPROVEMENT INITIATIVE

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

CAUSE OF DEATH CODING

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

TECHNICAL NOTES

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

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

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

COMPARABILITY RATIO

National comparability ratios, last updated in 2003, reflect discontinuities in trends for the cause of death when a new version of the ICD is implemented. They are presented in 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:

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

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

SMOKING- AND ALCOHOL-ATTRIBUTABLE MORTALITY

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

SMOKING-ATTRIBUTABLE MORTALITY (SAM)

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

$$\text{SAF} = [(p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)) - 1] / [p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)],$$

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

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

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

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates. A detailed description of the methodology is available at:

<https://chronicdata.cdc.gov/Health-Consequences-and-Costs/Smoking-Attributable-Mortality-Morbidity-and-Econo/w47i-r23n>.

TECHNICAL NOTES

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

https://www.ncbi.nlm.nih.gov/books/NBK179276/pdf/Bookshelf_NBK179276.pdf

ALCOHOL-ATTRIBUTABLE MORTALITY (Appendix A Table M14)

Alcohol-attributable deaths in Appendix A Table M14 represent the number of New York City deaths attributed to alcohol. Alcohol-attributable mortality (AAM) was calculated following guidelines from the Alcohol-Related Disease Impact (ARDI) program and applying relevant alcohol-attributable fraction (AAF). These AAFs are either given or calculated using New York City alcohol consumption prevalence for the reported year. For conditions that, by definition, are caused by alcohol use, the AAF was set equal to 1.0. For other conditions, especially injuries, the AAF are based on direct observations about the relationship between alcohol and a given health outcome. For most chronic conditions, the AAF was indirectly estimated using New York City alcohol prevalence data from the CHS combined with pooled risk estimates from large meta-analyses using the following formula:

$$AAF_{ANY} = \frac{P_1(RR_1 - 1) + P_2(RR_2 - 1) + P_3(RR_3 - 1)}{1 + P_1(RR_1 - 1) + P_2(RR_2 - 1) + P_3(RR_3 - 1)}$$

Where:

P1 is the prevalence of low volume alcohol consumption.

P2 is the prevalence of medium volume alcohol consumption.

P3 is the prevalence of high-volume alcohol consumption.

RR1 is the relative risk low volume alcohol consumption.

RR2 is the relative risk medium volume alcohol consumption.

RR3 is the relative risk high volume alcohol consumption.

The three categories of alcohol consumption used (“Low”, “Medium”, and “High”) with differing cutoffs depend on the literature assessed associated conditions. To estimate AAM, AAFs were multiplied by the number of New York City deaths for specific causes defined by the CDC’s National Center for Chronic Disease Prevention and Health Promotion. Detailed description of the methodology is available at:

<https://www.cdc.gov/alcohol/ardi/alcohol-related-icd-codes.html>.

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

https://nccd.cdc.gov/DPH_ARDI/Default/Default.aspx

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

TECHNICAL NOTES

FURTHER CHANGES WERE MADE AFTER WE PUBLISHED THE 2019 SUMMARY OF VITAL STATISTICS. SEE ARDI CUSTOM DATA USER MANUAL AT [HTTPS://WWW.CDC.GOV/ALCOHOL/ARDI/PDFS/ARDI_CUSTOM_DATA_USER_MANUAL.PDF](https://www.cdc.gov/alcohol/ardi/pdfs/ardi_custom_data_user_manual.pdf). WE ADOPTED THOSE CHANGES IN THE 2020 SUMMARY OF VITAL STATISTICS.

COMPLICATIONS OF MEDICAL AND SURGICAL CARE (Appendix A Tables M1, M2)

With the 10th revision of the ICD coding system, complications of medical and surgical care are no longer classified as accidents and are now shown separately from accidents.

DRUG-RELATED DEATHS

“Mental and behavioural disorders due to the use of or poisoning by psychoactive substance excluding alcohol and tobacco” is based on NCHS standard cause of death definitions using underlying causes as a basis for categorizing deaths and presented among the leading causes of death. It is also called “Use of or poisoning by psychoactive substance” or “Drug Use/Poisoning” combining underlying chronic drug-use ICD-10 codes (F11-F16, F18-F19) and accidental (unintentional) drug-poisoning ICD-10 codes (X40-X42, X44) to estimate overall drug-related deaths. This definition is found in Mortality Tables 1-4, Figure 15, Appendix A Tables M1, M7-M12, and M26. “Accidental poisoning by psychoactive substances, excluding alcohol and tobacco,” the “accidental” subset of underlying codes (X40-X42, X44) are reported in Appendix A Tables M1, M13, and M18. “Mental and behavioural disorders due to the use of psychoactive substance excluding alcohol and tobacco,” the “chronic” subset of underlying codes (F11-F16, F18-F19) is found in Appendix A Table M1 and M13. However, please use “accidental” (unintentional) and “chronic” subset trend data with caution as changes from manual to automated ICD coding resulted in a redistribution of chronic causes to acute in 2007 and going forward. For more information on coding error, please see Cause of Death Coding.

EXTERNAL CAUSES OF DEATH (Mortality Figures 18-21; Appendix A Tables M18-M23)

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

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

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

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

FATAL OCCUPATIONAL INJURIES (Appendix A Table M17)

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

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

TECHNICAL NOTES

HEART DISEASE DEATHS

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

HIV AND AIDS MORTALITY

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

HOMICIDE (Mortality Figure 21; Appendix A Table M20)

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

NYPD reports homicides as counts of Murder and Non-Negligent Manslaughter using rules and procedures from the Federal Bureau of Investigation’s Uniform Crime Reporting System (UCR). The count includes deaths determined to be both criminal and satisfying the UCR guidelines. NYPD judges some homicides as justifiable and reports these separately to the FBI. BVS reports a death as a homicide based on the ICD-10 system. ICD-10 defines legal intervention as “injuries inflicted by police or other law-enforcing agents ... in the course of arresting or attempting to arrest ... and other legal action.” Since 2003, deaths from legal intervention have been reported separately in Appendix A, Tables M1 and M20 and are excluded from the homicide counts in Tables M11 and M12.

NYPD Murder and Non-Negligent Manslaughter statistics count all murder crimes known to have been committed in New York City regardless of where the death occurred. Note, the crime may or may not have occurred at the time of death; death can occur subsequently and therefore potentially in a different jurisdiction than the murder crime. BVS reports all homicide deaths known to have occurred in New York City regardless of where the crime was committed.

In its annual count, the NYPD includes homicides known to have occurred within that calendar year by the second week of January of the following year. Any death determined to be a criminal murder outside of that period will be counted in the year that the determination is made. BVS reports homicide by the date of the death and the annual count includes any cases reported until the file closes for the year (approximately 5 months after the end of the year).

Sometimes death results from a crime many years after the crime was committed. Other times, a death may be determined a crime years after the death. In either situation, the ME may determine the death a homicide. If classified as a criminal homicide, NYPD will count the death in the year that the determination is made. However, BVS will report the homicide by the date of death. In cases where a death is reclassified a homicide after the file closes, the death will be recorded as a homicide on the death certificate, but this change will not be reflected in any counts of homicides for the year of death or any other years.

LIFE EXPECTANCY (Mortality Figures 1-4; Appendix A Tables M24, M25)

Life expectancy tables summarize the effect of mortality rates prevailing at a specific time on persons being born or living at that time. Tables may be computed for population subgroups, most often males, females, and race groups. The calculation requires counts and mortality figures for the desired subgroups. Life expectancy is estimated by ethnic group instead of race to ascertain differences among Hispanics/Latinos, non-Hispanic/Latino Whites and non-Hispanic/Latino Blacks. Life expectancy tables by race/ethnicity for New York City are generally presented for census years when accurate population data are available. The mortality experience for the census year, the year before, and the year after is used to smooth statistical variation (Table M24).

TECHNICAL NOTES

However, due to the increasing interest in disparities by race/ethnicity in life expectancy and changes in the population in New York City, we began calculating annual life expectancy by race/ethnicity in 2011. Life expectancies in Figures 1-2, Appendix A Tables M24, M25 are calculated by complete life tables (for a single year of age). Life expectancies in Figures 3-4 are calculated by abridged life tables (age groups). The number of Asian and Pacific Islander deaths is too small to generate reliable life expectancies and therefore are not presented either in Mortality Figure 2 or Appendix A, Table M24.

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

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

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

MATERNAL DEATH AND MATERNAL MORTALITY (Appendix A M13)

Deaths due to “Maternal Causes” meet the World Health Organization’s definition of maternal mortality: “death of a woman while pregnant or within 42 days of termination of pregnancy from any cause related to or aggravated by the pregnancy or its management ...” With the 10th revision of the ICD coding system, this category includes codes O00-O95, O98-O99 and A34 (obstetrical tetanus). “Pregnancy, childbirth and the puerperium” (O00-O99) includes deaths to women that occur outside of the time limitation defined by the World Health Organization (WHO).

MOTOR VEHICLE DEATHS (Mortality: Figure 19, Appendix A Table M18)

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

PREMATURE DEATHS (Mortality: Figures 10-17, Tables 3-4; Appendix A Table M9-10)

Premature deaths are deaths that occur before a person reaches an expected age, for instance, age 65 or age 75. Premature death rates in the NYC Annual Summary of Vital Statistics use 65 as the expected age. The number of deaths or deaths by select cause(s) relative to the <65 population in the same geographic area are used to calculate the premature death rate.

WORLD TRADE CENTER (WTC) DEATHS

Since 2008, any deaths during the reporting year identified as late-effect WTC deaths are counted in the year of the confirmed death report and in Appendix A, Table M1 under Assault (homicide): ICD-10 Code U02. The total number of WTC deaths is 2,752. The number does not include 3 deaths that occurred outside of NYC. Unless otherwise specified, WTC deaths occurring in 2001 are generally not included in Summary tables and figures due to the effect this large number would have on year-to-year trends.

TECHNICAL NOTES

YEARS OF POTENTIAL LIFE LOST (Mortality Appendix A Table M26)

Years of potential life lost (YPLL) measures years lost due to premature death. In contrast to mortality measures, YPLL emphasizes the effect of premature mortality on a population. YPLL is often calculated using a cut-off age, 65 or 75, as follows:

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

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

PREGNANCY OUTCOMES

BIRTHS

BIRTH CERTIFICATE (see copy behind Appendix B)

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

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

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

BIRTH REPORTING

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

BIRTH RATES

See Vital Event Rates.

TECHNICAL NOTES

DATA PRESENTATION

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

BREAST FEEDING (APPENDIX A, TABLES PO6-7, PO12)

Breast feeding has been reported on the birth certificate since 2008. It includes infant feeding practices through the first 5 days of life. New York City births must be filed with the Department within five business days of the event.

PLACE OF BIRTH

Since 1996, home births in Appendix A Tables PO4 and PO5 include all events for which “Home” was selected as the “Type of Place” regardless of whether the certificate was filed through a hospital. Home births in Table PO1 include events for which “home” was selected as “Type of Place” and the certificate was not filed by an institution; typically, these events were filed by the person who attended to the birth at home.

Appendix A: Table PO1 describes the live births according to the borough in which the birth occurred. Prior to 2010, Table PO1 reported births according to the borough in which the reporting office was located. This primarily affects the frequency of “places other than a hospital or home” and “home births,” which occur citywide but are frequently reported by the Bureau of Vital Statistics in Manhattan.

MOTHER’S MARITAL STATUS

The New York City DOHMH is prohibited by local law from recording mother’s marital status on the record or report of birth. As a result, marital status is estimated and should be interpreted with caution. Since 1997, marital status is computed using the following algorithm: certificates without the father’s name and those with the father’s name that are accompanied by an Acknowledgment of Paternity are categorized as non-married; all others are categorized as married. Married parents have a right to have both their names on their child’s birth certificate. This applies equally to married opposite-sex parents and same-sex parents. Some hospitals require proof of marriage. If the mother is not married, a father’s name may be added through an Acknowledgment of Paternity or court order.

TEEN BIRTHS

See Age-specific birth rate under VITAL EVENT RATES.

GESTATIONAL AGE

Gestational age, or clinical estimate of gestation, is defined as the best obstetric estimate of the infant’s gestation in completed weeks based on the birth attendant’s final estimate of gestation. Characteristics of live births and/or infant deaths in the Appendix A, Tables PO4-PO7, PO11, and PO12, respectively, include either gestational age categories or a dichotomous indicator of preterm (<37 weeks gestation) birth.

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

SPONTANEOUS AND INDUCED TERMINATIONS OF PREGNANCY REPORTING

SPONTANEOUS TERMINATION OF PREGNANCY CERTIFICATE (see copy behind Appendix B)

Like the birth certificate, the spontaneous termination of pregnancy certificate has two parts, the certificate and the confidential medical report. The certificate is available to the mother. The confidential medical report information is collected for the compilation of public health statistics and scientific purpose.

TECHNICAL NOTES

INDUCED TERMINATION OF PREGNANCY CERTIFICATE (see copy behind Appendix B)

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

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

SPONTANEOUS AND INDUCED TERMINATION OF PREGNANCY RATES

See VITAL EVENT RATES.

PERINATAL PERIODS OF RISK (PPOR)

PERINATAL PERIODS OF RISK (PPOR)

Perinatal Periods of Risk (PPOR) is both a community approach and an analytic framework for investigating and reducing infant mortality rates in urban settings. It examines fetal and infant deaths by age at death (fetal, neonatal, post-neonatal) and birthweight (500-1,400 grams, $\geq 1,500$ grams). It then groups age at death and birthweight into four categories that identify where the risk factors are that led to the death: “Maternal Health and Prematurity,” “Maternal Care,” “Newborn Care,” and “Infant Health.” Communities should be able to use the information from PPOR to mobilize and prioritize prevention efforts.

TECHNICAL NOTES

HISTORICAL TECHNICAL NOTES

POPULATION

POPULATION ESTIMATES

2013-2019

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

2010-2012

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

2007-2009

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

2005-2006

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

2000-2004

Population counts used US Census citywide decennial population counts.

Intercensal years between 1990 and 2000

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

$$\frac{pop(t1)}{pop(t0)} = e^{rt}$$

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

Intercensal years through 1989

Intercensal counts were estimated using a linear interpolation.

1960, 1970, 1980, 1990, 2000

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

TECHNICAL NOTES

COMMUNITY DISTRICT

2013-2019

Community District population estimates for 2013-2019 were based on census intercensal estimates by county, age, race, and sex, 2013-2019 vintages, and interpolated by Bureau of Epi Services. See following description of 2012 data for details.

2012

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

2011

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

2010

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

TECHNICAL NOTES

2008-2009

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

2005-2006

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

HEALTH CENTER DISTRICT

Through 2007

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

Through 2007

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

2005-2006

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

RACE/ETHNIC GROUP

2000-2001

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

TECHNICAL NOTES

DEMOGRAPHIC CHARACTERISTICS OF VITAL EVENTS

RACE, ANCESTRY AND ETHNIC GROUP

Through 2007

The birth certificate allowed the selection of one race category.

1991-2005

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

Through 2002

The death certificate allowed the selection of one race category.

1999

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

BIRTHPLACE

2000-2005

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

GEOGRAPHICAL UNITS

COMMUNITY DISTRICT

Prior to 2003

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

PLACE OF BIRTH

Through 1995

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

DEATHS

DEATH REPORTING

Through 1992

Medical certifier provided race and ancestry information.

RACE/ETHNICITY

1993 - present

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

TECHNICAL NOTES

Through 1992

Medical certifier provided ancestry information.

CAUSE OF DEATH CODING

Through 2006

ICD-coding was conducted manually by NCHS certified nosologists.

ALCOHOL-RELATED DEATHS: ICD CODING

2008 – present

Following increasing deaths due to binge drinking, the ICD codes for alcohol-related deaths were re-evaluated by the World Health Organization’s Mortality Reference Group and coding was implemented in 2008. Core changes included recoding acute alcoholism, previously coded as F10.2, to X45 (alcohol poisoning) and retiring F10.0 and going forward coding such cases as X45. This resulted in an increase in alcohol liver disease and alcohol poisoning and a decrease in alcohol dependence syndrome. A subsequent decrease in alcohol liver disease between 2008 and 2009 is, in part, a result of further corrections to coding applied in 2009. Similar changes are seen in US data.

HIV AND AIDS

1987 to 1999

In 1987, NCHS introduced code 042 for AIDS and 043-044 for other HIV disease deaths. Additional information on historical HIV coding can be found in the 1997 and 1998 Annual Summaries.

1983 to 1986

AIDS was recognized as a cause of death and coded as ICD-9 code 279.1.

EXTERNAL CAUSES

Through 1999

External Causes were not shown separately.

DRUG-RELATED DEATHS

2008 – present

Unintentional Drug-related Overdose Deaths (Mortality: Figure 19), a definition used in Take Care New York (TCNY) was reported in the Summary starting from 2008. The definition had changed after an extensive review of drug-related cases. Starting in the 2011 Summary, the definition of Unintentional Drug-related Overdose Deaths has 2 modifications from “Drug Use/Poisoning”: (i) restricted to deaths among individuals ages 15 to 84; and (ii) restricted to manner of deaths confirmed by medical examiner to be accidental.

Through 2006

Through 2006, a large proportion of accidental drug related deaths (X40-X42, X44) were miscoded as chronic drug use (F11-F16, F18-F19). For a full explanation, please see the 2007 Annual Summary of Vital Statistics-Special Report: NYC Changes from Manual to Automated Cause of death Coding, pages 73-75. NCHS coded data is often substituted when presenting external causes of death trends that span 2006 to 2007.

TECHNICAL NOTES

MATERNAL DEATHS AND MATERNAL MORTALITY

Through 1998

Currently labelled “Maternal deaths” were “Complications of pregnancy, childbirth and the puerperium” through 1998.

ACCIDENTS (UNINTENTIONAL)

Through 1999

Complications of medical care and surgical care were classified as accidents per ICD-9.

Through 1998

The site of accidents (home and public place) has been dropped due to unreliable reporting.

SMOKING-ATTRIBUTABLE MORTALITY (SAM)

2011-2012

Due to the concern of underestimating smoking-attributable mortality caused by the rapid decrease in smoking prevalence in New York City, data were presented by “Deaths and age-adjusted death rates for selected smoking-related causes of death per 100,000 population (35 years and over).”

2005-2010, 2013

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

$$\text{SAF} = [(p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)) - 1] / [p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)],$$

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:

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

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates.

WORLD TRADE CENTER DEATHS

2008 - present

See Technical Notes, 2009 regarding late effect WTC-deaths.

TECHNICAL NOTES

2007, 2008

In 2007, a 2002 death was reclassified as a WTC death.

In 2008, a 2001 death was reclassified as a 2001 WTC death.

In 2008, a missing person was classified as a 2001 WTC death per New York State Supreme Court.

2002

In 2002, the number of WTC deaths included in 2001 deaths was updated from 2,740 to 2,749. This new number included six additional death certificates filed through October 31, 2003 and three deaths that occurred outside of New York City (See 2002 Special Section for details).

FATAL OCCUPATIONAL INJURIES

Through 2002

The industry in which the decedent worked and was injured was coded based on the Standard Industrial Classification (SIC).

WORLD TRADE CENTER DEATHS AND LIFE EXPECTANCY

2002 (Special Section)

Impact of World Trade Center deaths on life expectancy.

BIRTHS

AGE-SPECIFIC BIRTH RATES

Through 2010

Until 2011, youngest age-specific birth rates included events within the specific age range (e.g. age-specific birth rates to females 15 to 19 include births to females in that age group. Age-specific births to females 15-17 include births to females in that age group.) See current technical notes for the change after 2010.

AGE-SPECIFIC BIRTH RATES

Through 2010

Until 2011, the oldest age-specific birth rate presented was 40 to 44. See current technical notes for the change after 2010.

TRIMESTER OF FIRST PRENATAL CARE VISIT (LATE OR NO PRENATAL CARE)

2008-2009

Following the 2008 transition to EVERS, the magnitude of births registered without information used to calculate Trimester of First Prenatal Care Visit was great and data were suppressed. By 2010 reporting improved such that data could be released and included in the Summary.

ANCESTRY, OTHER

2008-2010

Following the 2008 transition to EVERS, the number of births registered with “Other” or “Unknown” ancestry increased.

TECHNICAL NOTES

MOTHER'S MARITAL STATUS

Through 1996

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

2008 REVISED NYC BIRTH CERTIFICATE

2008

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

INDUCED AND SPONTANEOUS TERMINATION OF PREGNANCY

REPORTING

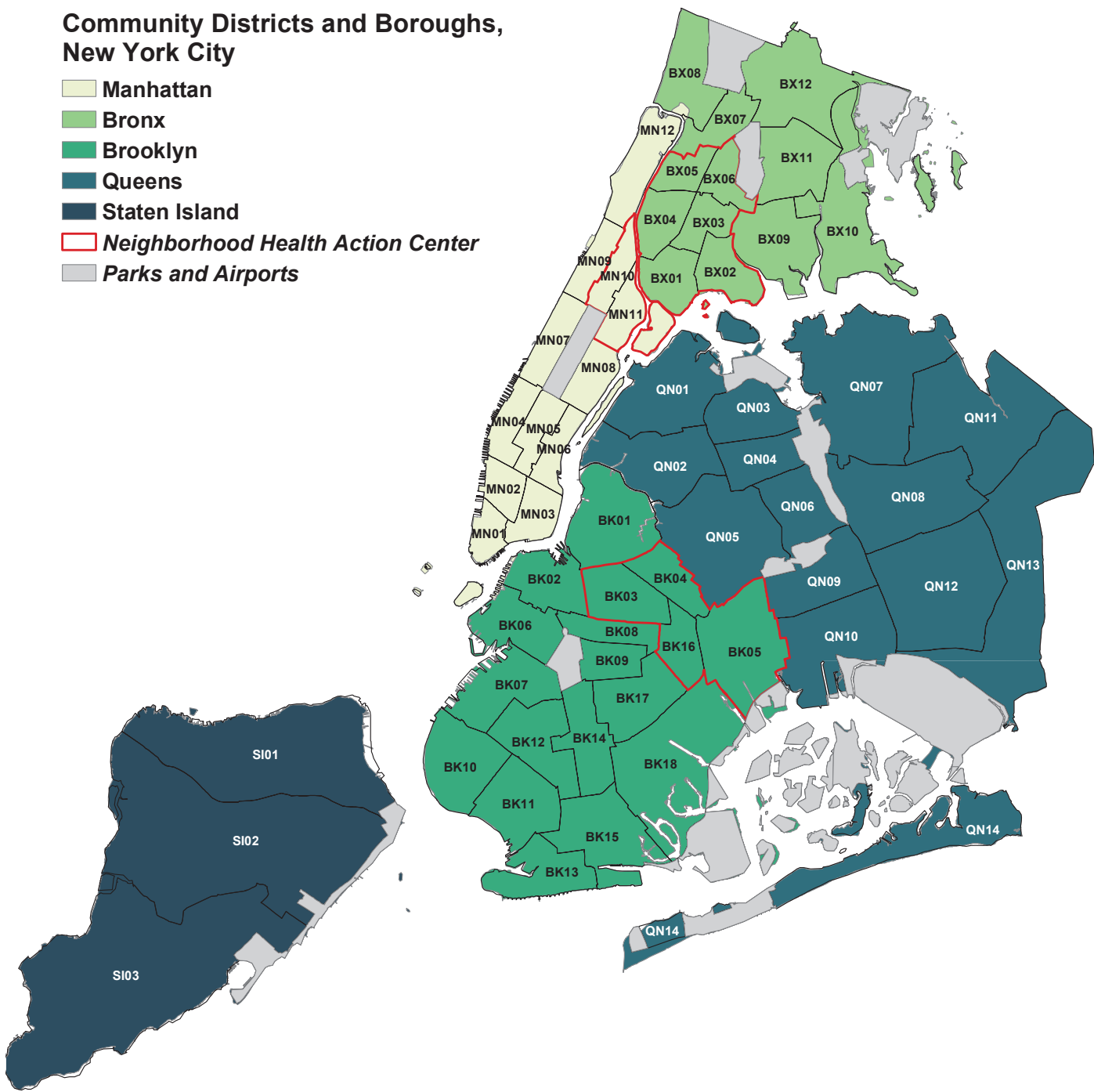
Through 2007

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

COMMUNITY DISTRICTS AND BOROUGHES, NEW YORK CITY

Community Districts and Boroughs, New York City

- Manhattan
- Bronx
- Brooklyn
- Queens
- Staten Island
- Neighborhood Health Action Center
- Parks and Airports



VITAL EVENT CERTIFICATES

VR-6S
(Rev. 1/20)

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

CERTIFICATE OF BIRTH

CERTIFICATE NO. _____

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

Cert. No. _____

Place: _____

Died: Date: _____

1. NAME OF CHILD		(First, Middle, Last, Suffix)			
2. SEX	3a. NUMBER DELIVERED of this pregnancy		4a. DATE OF CHILD'S BIRTH		4b. TIME <input type="checkbox"/> AM <input type="checkbox"/> PM
	3b. If more than one, number of this child in order of delivery		(Month) (Day) (Year - yyyy)		
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	<input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding Birthing Center <input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> Home Delivery: Planned to deliver at home? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Other-specify: _____		
6a. MOTHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last, Suffix) SEX ___M___F___X		6b. MOTHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)		6c. MOTHER/PARENT'S BIRTHPLACE City & State or foreign country	
7. MOTHER/PARENT'S USUAL RESIDENCE		7c. City or town	7d. Street and number	Apt. No.	ZIP Code
a. State		b. County	7e. Inside city limits of 7c? Yes <input type="checkbox"/> No <input type="checkbox"/>		
8a. FATHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last, Suffix) SEX ___M___F___X		8b. FATHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)		8c. FATHER/PARENT'S BIRTHPLACE City & State or foreign country	
9a. NAME OF ATTENDANT AT DELIVERY		<input type="checkbox"/> M.D. <input type="checkbox"/> RPA <input type="checkbox"/> D.O. <input type="checkbox"/> R.N. <input type="checkbox"/> Lic. Midwife <input type="checkbox"/> Other-Specify _____			
9b. I CERTIFY THAT THIS CHILD WAS BORN ALIVE AT THE PLACE, DATE AND TIME GIVEN		<input type="checkbox"/> M.D. <input type="checkbox"/> RPA <input type="checkbox"/> D.O. <input type="checkbox"/> R.N. <input type="checkbox"/> Hosp. Admin. <input type="checkbox"/> Lic. Midwife <input type="checkbox"/> Other-Specify _____			
Signed _____					
Name of Signer _____ (Type or Print)					
Address _____					
Date Signed _____, Year - yyyy _____					
Mother/Parent's Current (First, Middle, Last) Legal Name _____					
Address _____ Apt. _____					
City _____ State _____ ZIP _____					

VITAL EVENT CERTIFICATES

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
<input type="checkbox"/> White	<input type="checkbox"/> White
<input type="checkbox"/> Black or African American	<input type="checkbox"/> Black or African American
<input type="checkbox"/> American Indian or Alaska Native	<input type="checkbox"/> American Indian or Alaska Native
Name of enrolled or principal tribe _____	
(Mother/Parent)	(Father/Parent)
<input type="checkbox"/> Asian Indian	<input type="checkbox"/> Asian Indian
<input type="checkbox"/> Chinese	<input type="checkbox"/> Chinese
<input type="checkbox"/> Filipino	<input type="checkbox"/> Filipino
<input type="checkbox"/> Japanese	<input type="checkbox"/> Japanese
<input type="checkbox"/> Korean	<input type="checkbox"/> Korean
<input type="checkbox"/> Vietnamese	<input type="checkbox"/> Vietnamese
<input type="checkbox"/> Other Asian	<input type="checkbox"/> Other Asian
Specify _____	
(Mother/Parent)	(Father/Parent)
<input type="checkbox"/> Native Hawaiian	<input type="checkbox"/> Native Hawaiian
<input type="checkbox"/> Guamanian or Chamorro	<input type="checkbox"/> Guamanian or Chamorro
<input type="checkbox"/> Samoan	<input type="checkbox"/> Samoan
<input type="checkbox"/> Other Pacific Islander	<input type="checkbox"/> Other Pacific Islander
Specify _____	
(Mother/Parent)	(Father/Parent)
<input type="checkbox"/> Other	<input type="checkbox"/> 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
<input type="checkbox"/> Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)	<input type="checkbox"/> Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)
Specify _____	
(Mother/Parent)	(Father/Parent)
<input type="checkbox"/> NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)	<input type="checkbox"/> NOT Hispanic (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)
Specify _____	
(Mother/Parent)	(Father/Parent)

12. PARENT'S LENGTH OF TIME IN US	
a. Mother/Parent: If born outside of the United States, how long lived in U.S.? years _____ or if < 1 yr, months _____	
b. Father/Parent: If born outside of the United States, how long lived in U.S.? years _____ or if < 1 yr, months _____	

13. PARENT'S EDUCATION	
(Check the box that best describes the highest degree or level of school completed at time of delivery)	
a. Mother/Parent	b. Father/Parent
<input type="checkbox"/> 8th grade or less; none	<input type="checkbox"/> 8th grade or less; none
<input type="checkbox"/> 9th-12th grade, no diploma	<input type="checkbox"/> 9th-12th grade, no diploma
<input type="checkbox"/> High school graduate or GED	<input type="checkbox"/> High school graduate or GED
<input type="checkbox"/> Some college credit, but no degree	<input type="checkbox"/> Some college credit, but no degree
<input type="checkbox"/> Associate degree (e.g., AA, AS)	<input type="checkbox"/> Associate degree (e.g., AA, AS)
<input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)	<input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)
<input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	<input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
<input type="checkbox"/> Doctorate (e.g., PhD, EdD)	<input type="checkbox"/> Doctorate (e.g., PhD, EdD)
<input type="checkbox"/> or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	<input type="checkbox"/> or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

14. PARENT'S OCCUPATION		
a. Was mother/parent employed during pregnancy?	Yes	No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. Current/most recent occupation		2. Kind of business or industry
_____		_____
b. Mother/Parent		

c. Father/Parent		

15. PRENATAL HISTORY	
a. 1. Total Number of Previous Live Births	<input type="checkbox"/> None
2. Number Born Alive and Now Living	<input type="checkbox"/> None
3. Number Born Alive and Now Dead	<input type="checkbox"/> None
b. Those born alive may have been Preterm, Low Birth Weight or both. Please indicate:	
1. Number Preterm (< 37 wks.)	<input type="checkbox"/> None
2. Number Low Birth Weight (< 2500 grams or 5 lbs. 8 oz.)	<input type="checkbox"/> None
c. 1. Total Number of other Pregnancy Outcomes (Spontaneous or Induced Terminations):	<input type="checkbox"/> None
2. Number of Spontaneous Terminations of Pregnancy less than 20 Weeks	<input type="checkbox"/> None
3. Number of Spontaneous Terminations of Pregnancy 20 Weeks or More	<input type="checkbox"/> None
4. Number of Induced Terminations of Pregnancy	<input type="checkbox"/> 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	<input type="checkbox"/> 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)	
<input type="checkbox"/> MD/DO	<input type="checkbox"/> No Provider
<input type="checkbox"/> C(N)/M/NP/PA/Other Midwife	<input type="checkbox"/> No Information
<input type="checkbox"/> Clinic	<input type="checkbox"/> Other
e. Risk Factors in this Pregnancy (Check all that apply)	
<input type="checkbox"/> Pre-pregnancy diabetes	
<input type="checkbox"/> Gestational diabetes	
<input type="checkbox"/> Pre-pregnancy hypertension	
<input type="checkbox"/> Gestational hypertension	
<input type="checkbox"/> Cardiac disease:	
<input type="checkbox"/> Structural defect	
<input type="checkbox"/> Functional defect	
<input type="checkbox"/> Other serious chronic illness	
<input type="checkbox"/> Anemia (Hct <30/Hgb <10)	
<input type="checkbox"/> Asthma/Acute or chronic lung disease	
<input type="checkbox"/> Rh sensitization	
<input type="checkbox"/> Polyhydramnios	
<input type="checkbox"/> Oligohydramnios	
<input type="checkbox"/> Hemoglobinopathy	
<input type="checkbox"/> Abruptio placenta	
<input type="checkbox"/> Eclampsia	
<input type="checkbox"/> Other previous poor pregnancy outcome	
<input type="checkbox"/> Prelabor referral for high risk care	
<input type="checkbox"/> Other vaginal bleeding	
<input type="checkbox"/> Previous cesarean section: Number _____	
<input type="checkbox"/> Infertility treatment:	
<input type="checkbox"/> Fertility drugs, artificial/intrauterine insemination	
<input type="checkbox"/> Assisted reproductive technology (e.g., IVF, GIFT)	
Number of embryos implanted (if applicable) _____	
<input type="checkbox"/> Fetal reduction	
<input type="checkbox"/> None of the above	

17. FINANCIAL COVERAGE	
a. Primary Payor (Check one)	
<input type="checkbox"/> Medicaid/Family Health Plus	<input type="checkbox"/> Other
<input type="checkbox"/> Private Insurance	<input type="checkbox"/> Self-pay
<input type="checkbox"/> Other gov/CHPlusB	<input type="checkbox"/> Unknown
<input type="checkbox"/> CHAMPUS/TRICARE	
b. Is the mother/parent enrolled in an HMO or other managed care plan?	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. Did mother/parent participate in WIC?	<input type="checkbox"/> Yes <input type="checkbox"/> No

f. Infections Present and/or Treated During Pregnancy (Check all that apply)	
<input type="checkbox"/> Gonorrhea	<input type="checkbox"/> Hepatitis C
<input type="checkbox"/> Syphilis	<input type="checkbox"/> Tuberculosis
<input type="checkbox"/> Herpes Simplex (HSV)	<input type="checkbox"/> Rubella
<input type="checkbox"/> Chlamydia	<input type="checkbox"/> Bacterial Vaginosis
<input type="checkbox"/> Hepatitis B	<input type="checkbox"/> None of the above

g. 1. Cigarette Smoking in the 3 Months Before or During Pregnancy?	
<input type="checkbox"/> Yes <input type="checkbox"/> 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?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	

i. Illicit and other Drugs Used During This Pregnancy?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, check all that apply	
<input type="checkbox"/> Heroin	<input type="checkbox"/> Marijuana
<input type="checkbox"/> Cocaine	<input type="checkbox"/> Sedatives
<input type="checkbox"/> Methadone	<input type="checkbox"/> Tranquilizers
<input type="checkbox"/> Methamphetamine	<input type="checkbox"/> Anticonvulsants

j. Mother/Parent Pre-Pregnancy Weight _____ pounds	
--	--

k. Mother/Parent Height _____ feet _____ inches	
---	--

l. Obstetric Procedures (Check all that apply)	
<input type="checkbox"/> Cervical cerclage	<input type="checkbox"/> Fetal genetic testing
<input type="checkbox"/> Tocolysis	<input type="checkbox"/> None of the above
<input type="checkbox"/> External cephalic version:	
<input type="checkbox"/> Successful	
<input type="checkbox"/> Failed	
m. If woman was 35 or over, was fetal genetic testing offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Too Late <input type="checkbox"/> No, Other Reason

18. MATERNAL MORBIDITY	
(Check all that apply)	
<input type="checkbox"/> Maternal transfusion	
<input type="checkbox"/> Perineal laceration (3rd or 4th degree)	
<input type="checkbox"/> Ruptured uterus	
<input type="checkbox"/> Unplanned hysterectomy	
<input type="checkbox"/> Admit to ICU	
<input type="checkbox"/> Unplanned operating room procedure following delivery	
<input type="checkbox"/> Hemorrhage	
<input type="checkbox"/> Postpartum transfer to a higher level of care	
<input type="checkbox"/> None of the above	

VITAL EVENT CERTIFICATES

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	20. INFANT																																																														
<p>a. If birth occurred in hospital, was mother/parent transferred in before giving birth? If yes, name of facility transferred from _____</p> <p><input type="checkbox"/> Yes _____ <input type="checkbox"/> No _____</p> <p>b. Mother/Parent Weight at Delivery _____ pounds</p> <p>c. Onset of Labor (Check all that apply)</p> <p><input type="checkbox"/> Prolonged rupture of membranes (12 hours or more) <input type="checkbox"/> Prolonged labor (20 hours or more) <input type="checkbox"/> Premature rupture of membranes (prior to labor) <input type="checkbox"/> None of the above <input type="checkbox"/> Precipitous labor (less than 3 hours)</p> <p>d. Characteristics of Labor & Delivery (Check all that apply)</p> <p><input type="checkbox"/> Induction of Labor-AROM <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Induction of Labor-Medicinal <input type="checkbox"/> Febrile (>100.4F or 38C) <input type="checkbox"/> Augmentation of Labor <input type="checkbox"/> Meconium staining <input type="checkbox"/> Placenta previa <input type="checkbox"/> Fetal intolerance <input type="checkbox"/> Other excessive bleeding <input type="checkbox"/> External electronic fetal monitor <input type="checkbox"/> Steroids <input type="checkbox"/> Internal electronic fetal monitor <input type="checkbox"/> Antibiotics <input type="checkbox"/> None of the above</p> <p>e. 1. Anesthesia (Check all that apply)</p> <p><input type="checkbox"/> Epidural <input type="checkbox"/> Paracervical <input type="checkbox"/> General inhalation <input type="checkbox"/> Pudendal <input type="checkbox"/> General intravenous <input type="checkbox"/> Local <input type="checkbox"/> Spinal <input type="checkbox"/> None of the above</p> <p>2. Complications from any of the above? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Method of Delivery</p> <p>f. Fetal Presentation at Birth</p> <p><input type="checkbox"/> Cephalic <input type="checkbox"/> Other <input type="checkbox"/> Breech</p> <p>g. Final route and method of delivery (Check one)</p> <p><input type="checkbox"/> Vaginal/Spontaneous <input type="checkbox"/> Vaginal/Vacuum <input type="checkbox"/> Vaginal/Forceps <input type="checkbox"/> Cesarean</p> <p>1. If cesarean, was trial of labor attempted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Indications for C-Section <input type="checkbox"/> Unknown (Select all that apply) <input type="checkbox"/> Maternal condition-not pregnancy related <input type="checkbox"/> Failure to progress <input type="checkbox"/> Maternal condition-pregnancy related <input type="checkbox"/> Malpresentation <input type="checkbox"/> Refused VBAC <input type="checkbox"/> Previous C-Section <input type="checkbox"/> Elective <input type="checkbox"/> Fetus at risk/NFS <input type="checkbox"/> Other</p> <p>3. Was delivery with forceps attempted but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>4. Indications for Forceps <input type="checkbox"/> Unknown (Select all that apply) <input type="checkbox"/> Fetus at Risk <input type="checkbox"/> Failure to progress <input type="checkbox"/> Other</p> <p>5. Was delivery with vacuum extraction attempted but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>6. Indications for Vacuum <input type="checkbox"/> Unknown (Select all that apply) <input type="checkbox"/> Fetus at Risk <input type="checkbox"/> Failure to progress <input type="checkbox"/> Other</p> <p>h. Other Procedures Performed at Delivery (Check all that apply)</p> <p><input type="checkbox"/> Episiotomy & repair <input type="checkbox"/> Repair of lacerations <input type="checkbox"/> Sterilization <input type="checkbox"/> None of the above</p>	<p>a. Birthweight</p> <p>_____ Pounds _____ Ounces or _____ Grams</p> <p>b. If birth weight < 1250 grams (2 lbs. 12 oz.), reason(s) for delivery at a less than level III hospital: (Only if applicable)</p> <p><input type="checkbox"/> None <input type="checkbox"/> Unknown at this time (Select all that apply) <input type="checkbox"/> Rapid/Advanced Labor <input type="checkbox"/> Severe pre-eclampsia <input type="checkbox"/> Bleeding <input type="checkbox"/> Woman Refused Transfer <input type="checkbox"/> Fetus at Risk <input type="checkbox"/> Other-specify _____</p> <p>c. Apgar Score at</p> <p>1. 1 minute 2. 5 minutes 3. 10 minutes</p> <p>_____</p> <p>d. Clinical Estimate of Gestation</p> <p>Completed Weeks: _____</p> <p>e. Infant Transferred</p> <p>Within 24 hours of Delivery After 24 hours Not Transferred</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>f. If transferred, name of facility transferred to: _____</p> <p>g. Abnormal Conditions of the Newborn (Check all that apply)</p> <p><input type="checkbox"/> Assisted ventilation required immediately following delivery <input type="checkbox"/> Assisted ventilation required for more than six hours <input type="checkbox"/> NICU admission <input type="checkbox"/> Newborn given surfactant replacement therapy <input type="checkbox"/> Antibiotics received by the newborn for suspected neonatal sepsis <input type="checkbox"/> Seizure or serious neurologic dysfunction <input type="checkbox"/> Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention) <input type="checkbox"/> None of the above</p> <p>h. Hepatitis B Inoculation</p> <p>1. Immunization administered? <input type="checkbox"/> Yes Date: (mm/dd/yyyy) ____/____/____ <input type="checkbox"/> No</p> <p>2. Immunoglobulin administered? <input type="checkbox"/> Yes Date: (mm/dd/yyyy) ____/____/____ <input type="checkbox"/> No</p> <p>i. Is infant living at time of report? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>j. How is infant being fed? (Check one)</p> <p><input type="checkbox"/> Breast milk <input type="checkbox"/> Both <input type="checkbox"/> Formula <input type="checkbox"/> Neither</p> <p>Congenital Anomalies</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th colspan="2" style="width: 10%;">I. Diagnosed Prenatally?</th> <th style="width: 40%;">m. If Yes, please indicate all methods used:</th> </tr> <tr> <th style="text-align: left;">k. Select all that apply</th> <th>Yes</th> <th>No</th> <th></th> </tr> </thead> <tbody> <tr> <td>1. 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Other Chromosomal Disorder <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/> Level II Ultrasound <input type="checkbox"/> MSAFP/Triple Screen <input type="checkbox"/> CVS <input type="checkbox"/> Amniocentesis <input type="checkbox"/> Other <input type="checkbox"/> Unknown</td> </tr> <tr> <td>12. Hypospadias</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/> Level II Ultrasound <input type="checkbox"/> Other <input type="checkbox"/> Unknown</td> </tr> <tr> <td>13. None of those listed above</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> </tbody> </table>				I. Diagnosed Prenatally?		m. If Yes, please indicate all methods used:	k. Select all that apply	Yes	No		1. 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VITAL EVENT CERTIFICATES

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 <input type="checkbox"/> Hospital Inpatient 2 <input type="checkbox"/> Emergency Dept./Outpatient 3 <input type="checkbox"/> Dead on Arrival	4 <input type="checkbox"/> Nursing Home/Long Term Care Facility 5 <input type="checkbox"/> Hospice Facility 6 <input type="checkbox"/> Decedent's Residence 7 <input type="checkbox"/> Other Specify _____	2d. Any Hospice care in last 30 days 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> 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 <input type="checkbox"/> AM <input type="checkbox"/> 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	
	8. Date of Birth (Month) (Day) (Year-yyyy)		9. Age at last birthday (years)	Under 1 Year Months Days	Under 1 Day Hours Minutes	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 <input type="checkbox"/> 8th grade or less; none 2 <input type="checkbox"/> 9th – 12th grade; no diploma 3 <input type="checkbox"/> High school graduate or GED 4 <input type="checkbox"/> Some college credit, but no degree 5 <input type="checkbox"/> Associate degree (e.g., AA, AS) 6 <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) 7 <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) 8 <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)				
	15. Ever in U.S. Armed Forces? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	16. Marital/Partnership Status at time of death 1 <input type="checkbox"/> Married 2 <input type="checkbox"/> Domestic Partnership 3 <input type="checkbox"/> Divorced 4 <input type="checkbox"/> Married, but separated 5 <input type="checkbox"/> Never Married 6 <input type="checkbox"/> Widowed 7 <input type="checkbox"/> Other, Specify _____ 8 <input type="checkbox"/> 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 <input type="checkbox"/> Burial 2 <input type="checkbox"/> Cremation 3 <input type="checkbox"/> Entombment 4 <input type="checkbox"/> City Cemetery 5 <input type="checkbox"/> 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)

VITAL EVENT CERTIFICATES

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		Certificate No. _____	
23. Ancestry (Check one box and specify) <input type="checkbox"/> Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.) Specify _____ <input type="checkbox"/> 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 <input type="checkbox"/> White 02 <input type="checkbox"/> Black or African American 03 <input type="checkbox"/> American Indian or Alaska Native (Name of enrolled or principal tribe) _____ 04 <input type="checkbox"/> Asian Indian 05 <input type="checkbox"/> Chinese 06 <input type="checkbox"/> Filipino 07 <input type="checkbox"/> Japanese 08 <input type="checkbox"/> Korean 09 <input type="checkbox"/> Vietnamese 10 <input type="checkbox"/> Other Asian—Specify _____ 11 <input type="checkbox"/> Native Hawaiian 12 <input type="checkbox"/> Guamanian or Chamorro 13 <input type="checkbox"/> Samoan 14 <input type="checkbox"/> Other Pacific Islander—Specify _____ 15 <input type="checkbox"/> Other—Specify _____	
DECEDENT'S LEGAL NAME (Type or Print) _____			
25. CAUSE OF DEATH – List only one cause on each line. DO NOT ABBREVIATE.			
PART I	a. IMMEDIATE CAUSE	APPROXIMATE INTERVAL: ONSET TO DEATH	
	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 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	27a. If Female 1 <input type="checkbox"/> Not pregnant within 1 year of death 2 <input type="checkbox"/> Pregnant at time of death 3 <input type="checkbox"/> Not pregnant at death, but pregnant within 42 days of death 4 <input type="checkbox"/> Not pregnant at death, but pregnant 43 days to 1 year before death 5 <input type="checkbox"/> Unknown if pregnant within 1 year of death	27b. If pregnant within one year of death, outcome of pregnancy 1 <input type="checkbox"/> Live Birth 2 <input type="checkbox"/> Spontaneous Termination/ Ectopic Pregnancy 3 <input type="checkbox"/> Induced Termination 4 <input type="checkbox"/> None
28. Was this case referred to OCME? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	29. Did tobacco use contribute to death? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Probably 4 <input type="checkbox"/> 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. _____	

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.

VITAL EVENT CERTIFICATES

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**

1. DECEDENT'S LEGAL NAME

(First, Middle, Last)

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

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

MEDICAL CERTIFICATE OF DEATH (To be filled in by the OCME)	2a. New York City	2c. Type of Place	4 <input type="checkbox"/> Nursing Home/Long Term Care Facility	2d. Any Hospice care in last 30 days	2e. Name of hospital or other facility (if not facility, street address)	
	2b. Borough	1 <input type="checkbox"/> Hospital Inpatient	5 <input type="checkbox"/> Hospice Facility	1 <input type="checkbox"/> Yes		
		2 <input type="checkbox"/> Emergency Dept./Outpatient	6 <input type="checkbox"/> Decedent's Residence	2 <input type="checkbox"/> No		
		3 <input type="checkbox"/> Dead on Arrival	7 <input type="checkbox"/> Other Specify _____	3 <input type="checkbox"/> Unknown		
	Date and Time of Death or Found Dead	3a. (Month) (Day) (Year-yyyy)	3b. Time <input type="checkbox"/> AM <input type="checkbox"/> PM	4. Sex	5. OCME Case No.	
	PART I	a. Immediate cause				
		b. Due to or as a consequence of				
		c. 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.					
	7a. Injury Date (mm dd yyyy)		7b. Time <input type="checkbox"/> AM <input type="checkbox"/> PM	7c. At Work <input type="checkbox"/> Yes <input type="checkbox"/> No	7d. Place of Injury – At home, factory, street, etc.	
7f. How Injury Occurred						
7g. If Transportation Injury Specify <input type="checkbox"/> Driver/Operator <input type="checkbox"/> Pedestrian <input type="checkbox"/> Passenger <input type="checkbox"/> Other Specify _____		8. Manner of Death <input type="checkbox"/> Pending further study <input type="checkbox"/> Natural <input type="checkbox"/> Homicide <input type="checkbox"/> Accident <input type="checkbox"/> Suicide <input type="checkbox"/> Undetermined		9. Autopsy <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Autopsy Pursuant to Law <input type="checkbox"/> No Autopsy		
10. On the basis of examination and/or investigation, in my opinion, death occurred due to the causes and manner as stated. D.O. M.D. Date _____ Certifier Signature _____ Certifier Name (Print) _____ (Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)						
11a. Usual Residence State	11b. County	11c. City or Town	11d. Street and Number Apt. No. ZIP Code	11e. Inside City Limits? <input type="checkbox"/> Yes <input type="checkbox"/> No		
12. Date of Birth (Month) (Day) (Year-yyyy)		13. Age at last birthday (years)		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 <input type="checkbox"/> 8th grade or less; none 4 <input type="checkbox"/> Some college credit, but no degree 7 <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)				
		2 <input type="checkbox"/> 9th – 12th grade; no diploma 5 <input type="checkbox"/> Associate degree (e.g., AA, AS) 8 <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)				
		3 <input type="checkbox"/> High school graduate or GED 6 <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)				
19. Ever in U.S. Armed Forces? <input type="checkbox"/> Yes <input type="checkbox"/> No		20. Marital/Partnership Status at time of death		21. Surviving Spouse's/Partner's Name (If wife, name prior to first marriage)(First, Middle, Last)		
		1 <input type="checkbox"/> Married 2 <input type="checkbox"/> Domestic Partnership 3 <input type="checkbox"/> Divorced				
		4 <input type="checkbox"/> Married, but separated 5 <input type="checkbox"/> Never Married 6 <input type="checkbox"/> Widowed				
		7 <input type="checkbox"/> Other, Specify _____ 8 <input type="checkbox"/> Unknown				
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			25b. Place of Disposition (Name of cemetery, crematory, other place)			
1 <input type="checkbox"/> Burial 2 <input type="checkbox"/> Cremation 3 <input type="checkbox"/> Entombment 4 <input type="checkbox"/> City Cemetery						
5 <input type="checkbox"/> Other Specify _____						
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)

VITAL EVENT CERTIFICATES

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) <input type="checkbox"/> Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.) Specify _____ <input type="checkbox"/> 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 <input type="checkbox"/> White 02 <input type="checkbox"/> Black or African American 03 <input type="checkbox"/> American Indian or Alaska Native (Name of enrolled or principal tribe) _____ 04 <input type="checkbox"/> Asian Indian 05 <input type="checkbox"/> Chinese 06 <input type="checkbox"/> Filipino 07 <input type="checkbox"/> Japanese 08 <input type="checkbox"/> Korean 09 <input type="checkbox"/> Vietnamese 10 <input type="checkbox"/> Other Asian—Specify _____ 11 <input type="checkbox"/> Native Hawaiian 12 <input type="checkbox"/> Guamanian or Chamorro 13 <input type="checkbox"/> Samoan 14 <input type="checkbox"/> Other Pacific Islander—Specify _____ 15 <input type="checkbox"/> Other—Specify _____

DECEDENT'S LEGAL NAME (Type or Print) _____

29a. If Female 1 <input type="checkbox"/> Not pregnant within 1 year of death 2 <input type="checkbox"/> Pregnant at time of death 3 <input type="checkbox"/> Not pregnant at death, but pregnant within 42 days of death 4 <input type="checkbox"/> Not pregnant at death, but pregnant 43 days to 1 year before death 5 <input type="checkbox"/> Unknown if pregnant within 1 year of death	29b. If pregnant within one year of death, outcome of pregnancy 1 <input type="checkbox"/> Live Birth 2 <input type="checkbox"/> Spontaneous Termination / Ectopic Pregnancy 3 <input type="checkbox"/> Induced Termination 4 <input type="checkbox"/> None	29c. Date of Outcome <table border="1"> <tr> <td>mm</td> <td>dd</td> <td>yyyy</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	mm	dd	yyyy			
mm	dd	yyyy						
30. Did tobacco use contribute to death? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Probably 4 <input type="checkbox"/> 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 _____ at _____
 (Date) (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)

VITAL EVENT CERTIFICATES

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 <input type="checkbox"/> AM <input type="checkbox"/> PM <input type="checkbox"/> Unknown	3. SEX <input type="checkbox"/> Male <input type="checkbox"/> Unknown <input type="checkbox"/> 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 <input type="checkbox"/> Hospital – ER/ED <input type="checkbox"/> Freestanding Birthing Center <input type="checkbox"/> Hospital – Amb. Surg. <input type="checkbox"/> Home <input type="checkbox"/> Hospital – Labor/Labor and Delivery <input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> Hospital – Other <input type="checkbox"/> Other, Specify _____ <input type="checkbox"/> Unknown		6b. FACILITY NAME/ADDRESS If not in facility, street address: (Street Number and Name, City or Town, County, State, Country, Zip Code)		
	7. CURRENT LEGAL NAME: (First, Middle, Last, Suffix)		9. DATE OF BIRTH (Month) (Day) (Year-yyyy)	12. BIRTHPLACE City _____ State _____	
MOTHER/PARENT	8. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, Last, Suffix)		10. AGE	11. SEX <input type="checkbox"/> Male <input type="checkbox"/> Female	
	13. RESIDENCE ADDRESS: (Street Number and Name, Apt. No., City or Town, County, State, Country, Zip Code)			14. INSIDE CITY LIMITS? <input type="checkbox"/> Yes <input type="checkbox"/> Unknown <input type="checkbox"/> No	
FATHER/PARENT	15. NAME PRIOR TO FIRST MARRIAGE: (First, Middle, Last, Suffix)		16. DATE OF BIRTH (Month) (Day) (Year-yyyy)	19. BIRTHPLACE City _____ State _____	
			17. AGE	18. SEX <input type="checkbox"/> Male <input type="checkbox"/> Female	
ATTENDANT/CERTIFIER	20. ATTENDANT NAME AT DELIVERY: _____ (First, Middle, Last, Suffix)		<input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> LIC. Midwife <input type="checkbox"/> RPA <input type="checkbox"/> Other, (specify) _____		
	21. CERTIFIER: I HEREBY CERTIFY THAT THIS EVENT OCCURRED AT THE TIME AND ON THE DATE INDICATED AND THAT ALL FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF. Signature of Physician Certifier _____ Name of Physician Certifier _____ Address _____ License No. _____ / _____ / _____ Date _____		<input type="checkbox"/> MD <input type="checkbox"/> DO		
FUNERAL DIRECTOR'S CERTIFICATE	FUNERAL DIRECTOR'S CERTIFICATE				
	I hereby certify that I have been employed as Funeral Director by _____ (Name of person in control of disposition) of _____ (Address). This statement is made to obtain a disposition permit for this fetus _____ (Signature of Funeral Director) (License No.) Funeral Establishment _____ Business Registration No. _____ Address _____				
NAME OF CEMETERY OR CREMATORY (OR DESTINATION)		CITY OR COUNTY AND STATE		DATE OF DISPOSITION (Month) (Day) (Year-yyyy)	

VITAL EVENT CERTIFICATES

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)	
<input type="checkbox"/> Gonorrhea	<input type="checkbox"/> Tuberculosis
<input type="checkbox"/> Syphilis	<input type="checkbox"/> Rubella
<input type="checkbox"/> Herpes Simplex (HSV)	<input type="checkbox"/> Cytomegalovirus
<input type="checkbox"/> Chlamydia	<input type="checkbox"/> Parvovirus
<input type="checkbox"/> Bacterial Vaginosis	<input type="checkbox"/> Toxoplasmosis
<input type="checkbox"/> Hepatitis B	<input type="checkbox"/> Other
<input type="checkbox"/> Hepatitis C	<input type="checkbox"/> None
<input type="checkbox"/> Listeria	<input type="checkbox"/> Unknown
<input type="checkbox"/> Group B Strep	
32. DELIVERY	
a. Method of Delivery	
1. Was delivery with forceps attempted but unsuccessful?	
<input type="checkbox"/> Attempted and successful	<input type="checkbox"/> Attempted and unsuccessful
<input type="checkbox"/> Forceps were not used	<input type="checkbox"/> Unknown
2. Was delivery with vacuum extraction attempted but unsuccessful?	
<input type="checkbox"/> Attempted and successful	<input type="checkbox"/> Attempted and unsuccessful
<input type="checkbox"/> Vacuum extraction was not used	<input type="checkbox"/> Unknown
3. Fetal presentation at delivery	
<input type="checkbox"/> Cephalic	
<input type="checkbox"/> Breech	
<input type="checkbox"/> Other	
<input type="checkbox"/> Unknown	
4. Final route and method of delivery (Check one)	
<input type="checkbox"/> Vaginal/Spontaneous	
<input type="checkbox"/> Vaginal/Forceps	
<input type="checkbox"/> Vaginal/Vacuum	
Vaginal delivery after a previous C-section?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
<input type="checkbox"/> Primary Cesarean	
<input type="checkbox"/> Repeat Cesarean	
If cesarean, was a trial of labor attempted?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
5. Hysterotomy/Hysterectomy	
<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown

b. Maternal Morbidity (Check all that apply) (Complications associated with labor and delivery)	
<input type="checkbox"/> Maternal transfusion	
<input type="checkbox"/> Third or fourth degree perineal laceration	
<input type="checkbox"/> Ruptured uterus	
<input type="checkbox"/> Unplanned hysterectomy	
<input type="checkbox"/> Admission to intensive care unit	
<input type="checkbox"/> Unplanned operating room procedure following delivery	
<input type="checkbox"/> Hemorrhage	
<input type="checkbox"/> Postpartum transfer to a higher level of care	
<input type="checkbox"/> Other	
<input type="checkbox"/> None	
<input type="checkbox"/> Unknown	
c. Was mother transferred for maternal medical or fetal indication prior to delivery?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, name of facility transferred from: _____	
33. FETAL ATTRIBUTES	
a. Weight of Fetus (grams preferred, specify unit)	
_____ <input type="checkbox"/> lb/oz _____ <input type="checkbox"/> grams	
b. Estimated Time of Fetal Death	
<input type="checkbox"/> Death at time of first assessment, no labor ongoing	
<input type="checkbox"/> Death at time of first assessment, labor ongoing	
<input type="checkbox"/> Died during labor, after first assessment	
<input type="checkbox"/> Unknown time of fetal death	
c. Was an autopsy performed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	
d. Was a histological placental examination performed?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	

e. Were autopsy or histological placental examination results used in determining the cause of fetal death?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
f. Congenital Anomalies of the Fetus (Check all that apply)
<input type="checkbox"/> Anencephaly
<input type="checkbox"/> Meningocele/Spina bifida
<input type="checkbox"/> Cyanotic congenital heart disease
<input type="checkbox"/> Congenital diaphragmatic hernia
<input type="checkbox"/> Omphalocele
<input type="checkbox"/> Gastroschisis
<input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
<input type="checkbox"/> Cleft lip with or without cleft palate
<input type="checkbox"/> Cleft palate alone
<input type="checkbox"/> Down syndrome
<input type="checkbox"/> Karyotype confirmed
<input type="checkbox"/> Karyotype pending
<input type="checkbox"/> Suspected chromosomal disorder
<input type="checkbox"/> Karyotype confirmed
<input type="checkbox"/> Karyotype pending
<input type="checkbox"/> Hypospadias
<input type="checkbox"/> Other
<input type="checkbox"/> None
<input type="checkbox"/> Unknown

VITAL EVENT CERTIFICATES

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																																													
	3A. FACILITY NAME		<input type="checkbox"/> Hospital <input type="checkbox"/> Shared Facility <input type="checkbox"/> Clinic (Article 28) <input type="checkbox"/> Doctor's Office <input type="checkbox"/> Clinic (non-Article 28) <input type="checkbox"/> Unknown <input type="checkbox"/> Other type _____																																													
	3B. FACILITY ADDRESS Street Number and Name _____ Apt. #, Suite #, etc. _____		4. PRIMARY FINANCIAL COVERAGE THIS TERMINATION																																													
	City or Town _____ County _____ State _____ Country _____ ZIP Code _____		<input type="checkbox"/> Medicaid <input type="checkbox"/> Self Pay <input type="checkbox"/> Other Govt. Insurance <input type="checkbox"/> Unknown <input type="checkbox"/> Private Insurance																																													
PATIENT	5. PATIENT'S LEGAL NAME First Name _____ Last Name _____ <small>(First two letters) (First two letters)</small>	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 <input type="checkbox"/> 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)																																														
		<input type="checkbox"/> New York City ZIP Code _____ <input type="checkbox"/> Manhattan <input type="checkbox"/> Bronx <input type="checkbox"/> Brooklyn <input type="checkbox"/> Queens <input type="checkbox"/> Staten Island <input type="checkbox"/> Unknown	<input type="checkbox"/> Outside NYS (U.S. State) _____ <input type="checkbox"/> New York State (Outside NYC) City or Town _____ County _____ ZIP Code _____ <input type="checkbox"/> Outside U.S. (Foreign Country) _____																																													
PATIENT ATTRIBUTES	10. EDUCATION		11. ANCESTRY (CHECK ONE BOX AND SPECIFY)																																													
	<input type="checkbox"/> 8th grade or less; none <input type="checkbox"/> 9th–12th grade, no diploma <input type="checkbox"/> High school graduate or GED completed <input type="checkbox"/> Some college credit, but no degree		<input type="checkbox"/> Spanish/Hispanic/Latino Specify _____ <input type="checkbox"/> NOT Spanish/Hispanic/Latino (Italian, African American, Haitian, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.) Specify _____ <input type="checkbox"/> Unknown																																													
	12. RACE Race as defined by the U.S. Census. (Check one or more to indicate what the patient considers herself to be.)		13. MARITAL/PARTNERSHIP STATUS																																													
<input type="checkbox"/> White <input type="checkbox"/> Chinese <input type="checkbox"/> Other Asian (specify) _____ <input type="checkbox"/> Black or African American <input type="checkbox"/> Filipino _____ <input type="checkbox"/> American Indian or Alaska Native (specify tribe) _____ <input type="checkbox"/> Japanese <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Korean <input type="checkbox"/> Guamanian or Chamorro _____ <input type="checkbox"/> Vietnamese <input type="checkbox"/> Samoan _____ <input type="checkbox"/> Unknown	<input type="checkbox"/> Married <input type="checkbox"/> Domestic Partnership <input type="checkbox"/> Divorced <input type="checkbox"/> Married, but separated <input type="checkbox"/> Never Married <input type="checkbox"/> Widowed <input type="checkbox"/> Other, Specify _____ <input type="checkbox"/> 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 _____ <input type="checkbox"/> None	d. Total Number of Other Pregnancy Outcomes _____ <input type="checkbox"/> None																																												
			b. Born Alive Now Living _____ <input type="checkbox"/> None	e. Number of Spontaneous Terminations _____ <input type="checkbox"/> None																																												
			c. Born Alive Now Dead _____ <input type="checkbox"/> None	f. Number of Induced Terminations _____ <input type="checkbox"/> None																																												
	17. TERMINATION PROCEDURE																																															
17A. PRIMARY PROCEDURE (CHECK ONLY ONE)			17B. ADDITIONAL PROCEDURES (CHECK ALL THAT APPLY)																																													
<input type="checkbox"/> Suction Curettage <input type="checkbox"/> Mifepristone and Misoprostol <input type="checkbox"/> Sharp Curettage (D&C) <input type="checkbox"/> Methotrexate and Misoprostol <input type="checkbox"/> Dilation and Evacuation (D&E) <input type="checkbox"/> Other Medical (nonsurgical) Specify Medications _____ <input type="checkbox"/> Intra-Uterine Instillation <input type="checkbox"/> Hysterotomy/Hysterectomy <input type="checkbox"/> Other, Specify _____ <input type="checkbox"/> Misoprostol			<input type="checkbox"/> None <input type="checkbox"/> Mifepristone and Misoprostol <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Methotrexate and Misoprostol <input type="checkbox"/> Sharp Curettage (D&C) <input type="checkbox"/> Other Medical (nonsurgical) Specify Medications _____ <input type="checkbox"/> Dilation and Evacuation (D&E) <input type="checkbox"/> Intra-Uterine Instillation <input type="checkbox"/> Hysterotomy/Hysterectomy <input type="checkbox"/> Other, Specify _____ <input type="checkbox"/> Misoprostol																																													
18. CONTRACEPTIVES PROVIDED AT TIME OF PROCEDURE			19. ATTENDANT NAME AT TERMINATION: <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> NP <input type="checkbox"/> LIC. MIDWIFE																																													
Did the patient receive any information/ counseling about contraceptives? <input type="checkbox"/> Yes <input type="checkbox"/> No			(First, Middle, Last, Suffix) _____ Signature of Certifier _____ Name of Certifier _____ Address _____ / _____ / _____ License No. _____ Date _____																																													
Did the patient receive any contraception at time of the procedure? <input type="checkbox"/> Yes, complete table <input type="checkbox"/> No, follow-up appointment or referral was made for contraceptives <input type="checkbox"/> No, patient declined all contraceptive methods <input type="checkbox"/> No, other: _____			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. <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> NP <input type="checkbox"/> LIC. MIDWIFE _____ Signature of Certifier _____ Name of Certifier _____ Address _____ / _____ / _____ License No. _____ Date _____																																													
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