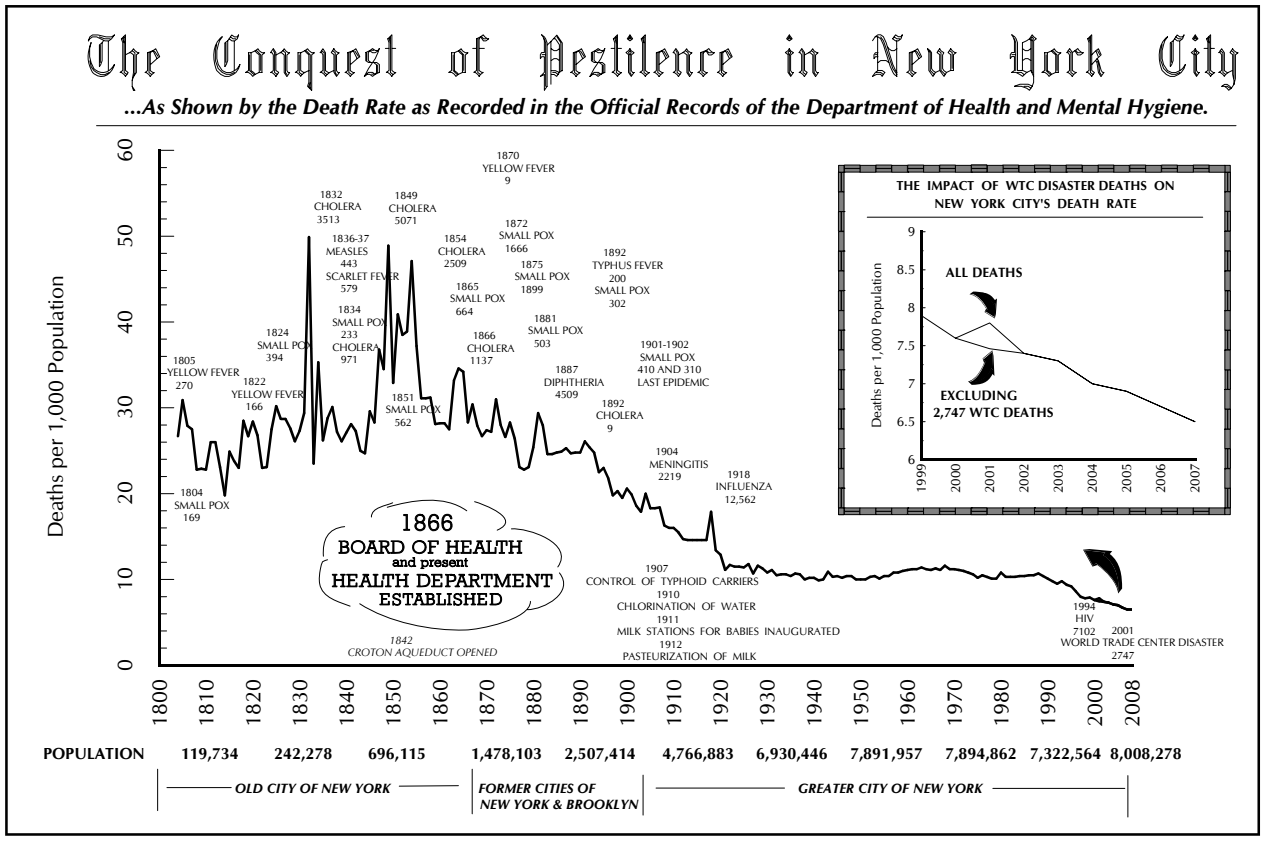
SUMMARY OF VITAL STATISTICS 2008
THE CITY OF NEW YORK



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

Michael R. Bloomberg, Mayor Thomas A. Farley, M.D., M.P.H., Commissioner

Carolyn Greene, M.D., Acting Deputy Commissioner, Division of Epidemiology

SUMMARY OF VITAL STATISTICS 2008
THE CITY OF NEW YORK

Bureau of Vital Statistics
New York City Department of Health and Mental Hygiene

Elizabeth Begier, M.D., M.P.H., Assistant Commissioner
Regina Zimmerman, Ph.D., M.P.H., Director, Office of Vital Statistics
Steven Schwartz, Ph.D., Registrar
Kevin Koshar, M.P.P., Director, Office of Vital Records
Wenhui Li, Ph.D., Director, Statistical Analysis and Reporting Unit
Flor Betancourt, M.A., Director, Birth and Death Registration Unit
Tara Das, Ph.D., M.P.H, Director, Electronic Vital Event Registry System Unit
Ann Madsen, Ph.D., M.P.H, Director, Quality Assurance Unit

JANUARY 2010

This report was prepared by the Statistical Analysis and Reporting Unit of the Bureau of Vital Statistics: Wenhui Li, Ph.D., Joseph Kennedy, Darlene Kelley, Ying Sun, Ph.D., Gil Maduro, Ph.D., and Shunhua Shen, M.S. The data are derived from vital event certificates filed with and processed by the staff of the Offices of Vital Records and Vital Statistics. The HIV Epidemiology and Field Service Program provided data for Table 48 and text for Figure 14. The Bureaus of Communicable Disease, Immunization, and Tuberculosis Control provided data for Table 47. New York City Office of City Clerk provided marriage license data for Table 1 and Table 49.

This publication is available at http://www.nyc.gov/vitalstats.

CONTENTS

INTRODUCTION
SUMMARY OF VITAL STATISTICS - 2008

DESCRIPTION

The 2008 Annual Summary presents data on 2008 vital events including births, deaths, and spontaneous and induced terminations of pregnancy in New York City (NYC). These data, compiled by the Office of Vital Statistics, are derived from vital event certificates filed with the Office of Vital Records at the NYC Department of Health and Mental Hygiene (DOHMH). The Office of Vital Records is responsible for registering, archiving, amending, and issuing certified copies of all vital events occurring in NYC.

All NYC vital events (births, deaths, spontaneous and induced terminations of pregnancy) are required to be filed with the NYC DOHMH, Bureau of Vital Statistics. For deaths, the Electronic Vital Events Registration System (EVERS)'s Electronic Death Registrations System (EDRS) has been available for voluntary use by hospitals since 2005. On January 1, 2008, the DOHMH launched the Electronic Birth Registration System (EBRS), a new component of the web-based EVERS. All hospitals registering more than 100 births per year were mandated to provide birth certificate data using this new electronic system. With this launch came the revised birth certificate based on the recommended 2003 US Standard Certificate of Live Birth (http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf). As a result, some of the birth data items have changed. For specific information on changes to birth items, please see the Technical Notes section of this Summary under Births. All information on spontaneous and induced termination of pregnancy events are collected on paper certificates and entered at the DOHMH.

The Annual Summary presents tables, figures, and maps detailing population and vital event data. Deaths are characterized by demographics, natural and external causes, life expectancy, years of potential life lost due to specific causes. Trends in smoking-related and alcohol-related deaths are included. Incidence of AIDS and other selected reportable diseases are also presented. Births are presented by a number of variables, including mother's age, ethnicity, ancestry, marital status, parity, newborn's sex, gestational age, weight, plurality, and Apgar score. Frequencies of marriage and baby names are also included. Special attention is given to teenage births and infant mortality. Tables on Perinatal Periods of Risk (PPOR) are also presented. Lastly, this Summary includes a special report that describes Take Care New York 2012, vital indicators of health in NYC.

This report presents data on all births, deaths, and spontaneous and induced terminations of pregnancy in NYC. They may occur to both residents and non-residents. Tables with geographic breakdowns distinguish among residents, non-residents, and resident status unknown. In tables showing no geographic breakdowns, all vital events occurring in NYC are included.

For Annual Summaries back to 1961, see our website at: www.nyc.gov/vitalstats. If you have used previous Summaries, you will find that most table numbers remain consistent, providing the ability to assess changes and trends in the data. However, figure numbers have changed, as many are new and supplement the data tables.

NYC Vital Statistics data are also available on the website indicated above or on the EpiQuery website at: https://a816-healthpsi.nyc.gov/epiquery/EpiQuery/. EpiQuery for Vital Statistics is a relatively new site; it currently contains death and birth data for individual years between 2000 and 2007, and all-cause and cause-of-death specific trend data from 1994 to 2007. New data and modifications are being implemented regularly.

HIGHLIGHTS

Births - Births to teenagers have declined each year since 1994, with the exception of an increase in 2006, decreasing by 1.7% between 2007 and 2008 to 8,423. Births to teenagers comprised 6.6% of all live births in 2008 and have decreased each year since 1994.

Infant Deaths - The 2008 infant mortality rate (IMR) of 5.5 infant deaths (under one year of age) per 1,000 live births, remained very close to its 2007 historical low. In the last 10 years IMR has declined 20.3%, from 6.9 in 1999 (Table 1).

Perinatal Periods of Risk - Total fetal-infant mortality declined 1.4% from 2007 to 2008. There are still striking disparities among mother's racial/ethnic groups, with non-Hispanic black women having the highest rate.

Deaths – The mortality rate was stable at the historically low rate of 6.5 deaths be 1,000 persons. The rate of premature deaths (occurring under age 65) remained at 2.2 per 1,000 in 2008.

Leading Causes of Death - Heart disease, cancer, and influenza/pneumonia, in that order, remained the top three leading causes of death in 2008 (Table 5). Deaths due to diabetes mellitus increased 5.3%, deaths due to chronic lower respiratory disease increased 12.5% and deaths due to essential hypertension and hypertensive renal disease increased 12.4%. Drug-related deaths decreased 13.3%. Cancer, Heart Disease and HIV remain the top three leading causes of premature deaths (deaths among those under 65 years old) in 2008 (Table 5a). Deaths due to the use of or poisoning by psychoactive drugs decreased 14.3%.

Smoking-attributable Deaths - Deaths caused by smoking in adults aged 35 years and older decreased 11.2% over the past 5 years, from 8,520 in 2003 to 7,569 in 2008. These decreases were driven by an estimated 418 fewer ischemic heart disease deaths and 239 fewer trachea, lung, and bronchus deaths.

Alcohol-attributable Deaths – Alcohol-attributable deaths in adults aged 20 and older remained steady at approximately 1,700 deaths per year between 2003 and 2008.

Life Expectancy – Life expectancy continued to rise, increasing nearly 5 months from 79.0 in 2006 to 79.4 in 2007 (Table 23). Data from 2008 are not included since deaths occurring to NYC residents outside of NYC are not yet available.

Other Notable Changes in Causes of Death – While HIV remains among the 10 leading causes of death in NYC, in the last 5 years, no deaths from HIV disease have occurred among infants and for the first time in 2008 no HIV deaths have occurred in New Yorkers below the age of 15 (Table 20).

Special Section - This summary, for the first time, reports trends in all *Take Care New York* Vital Indicators.

Details on methods used in the Summary preparation are provided in the Technical Notes at the end of this report.

Table 1. Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2008

Year	Population April 1	Live Births Total Reported*	Live Births Rate per 1,000 Population	Fertility Rates Per 1,000 Women Aged 15-44	Marriages Total Reported*	Marriages Rate per 1,000 Population	Deaths Total Reported*	Deaths Rate per 1,000 Population	Infant Mortality Deaths Under One Year*	Infant Mortality 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	7,850,000	153,335	19.5		66,689	8.5	88,418	11.3	3,819	24.9
1967	7,862,000	145,802	18.5		68,876	8.8	87,610	11.1	3,489	23.9
1968	7,873,000	141,920	18.0		73,307	9.3	91,169	11.6	3,282	23.1
1969	7,885,000	146,221	18.5		75,220	9.5	88,535	11.2	3,563	24.4
1970	7,894,862	149,192	18.9		74,174	9.4	88,161	11.2	3,230	21.6
1971	7,832,000	131,920	16.8		73,810	9.4	86,724	11.1	2,751	20.9
1972	7,731,000	117,088	15.1		73,253	9.5	85,363	11.0	2,321	19.8
1973	7,648,000	110,639	14.5		70,104	9.2	82,319	10.8	2,206	19.9
1974	7,566,000	110,642	14.6		61,925	8.2	79,846	10.6	2,175	19.7
1975	7,484,000	109,418	14.6		59,591	8.0	76,312	10.2	2,110	19.3
1976	7,401,000	109,995	14.9		55,829	7.5	77,538	10.5	2,092	19.0
1977	7,318,000	110,486	15.1		52,804	7.2	75,011	10.3	1,971	17.8
1978	7,236,000	106,720	14.7		54,247	7.5	73,081	10.1	1,827	17.1
1979	7,154,000	106,021	14.8		58,532	8.2	72,079	10.1	1,767	16.7
1980	7,071,639	107,066	15.1	63.6	58,637	8.3	76,625	10.8	1,719	16.1
1981	7,097,000	108,547	15.3	63.9	61,775	8.7	73,329	10.3	1,678	15.5
1982	7,122,000	111,487	15.7	65.1	66,619	9.4	73,083	10.3	1,706	15.3
1983	7,147,000	112,353	15.7	65.1	68,164	9.5	73,544	10.3	1,603	14.3
1984	7,172,000	113,332	15.8	65.1	76,336	10.6	74,278	10.4	1,540	13.6
1985	7,197,000	118,542	16.5	67.6	77,897	10.8	74,852	10.4	1,591	13.4
1986	7,222,000	122,108	16.9	69.0	82,199	11.4	75,702	10.5	1,566	12.8
1987	7,247,000	127,386	17.6	71.5	76,194	10.5	76,448	10.5	1,673	13.1
1988	7,272,000	132,226	18.2	73.6	74,137	10.2	77,817	10.7	1,770	13.4
1989	7,297,000	137,673	18.9	76.0	69,758	9.6	75,957	10.4	1,827	13.3
1990	7,322,564	139,630	19.1	76.5	71,301	9.7	73,875	10.1	1,620	11.6
1991	7,388,000	138,148	18.7	75.3	69,314	9.4	72,421	9.8	1,575	11.4
1992	7,455,000	136,002	18.2	73.8	71,947	9.7	71,001	9.5	1,390	10.2
1993	7,522,000	133,583	17.8	72.1	72,490	9.6	73,408	9.8	1,366	10.2
1994	7,590,000	133,662	17.6	71.8	70,438	9.3	71,038	9.4	1,207	9.0
1995	7,658,000	131,009	17.1	70.1	71,507	9.3	70,769	9.2	1,155	8.8
1996	7,727,000	126,901	16.4	67.5	79,361	10.3	66,784	8.6	992	7.8
1997	7,796,000	123,313	15.8	65.3	80,027	10.3	62,506	8.0	881	7.1
1998	7,866,000	124,252	15.8	65.5	53,661	6.8	61,010	7.8	843	6.8
1999	7,937,000	123,739	15.6	64.9	55,075	6.9	62,470	7.9	848	6.9
2000	8,008,278	125,563	15.7	65.5	58,291	7.3	60,839	7.6	839	6.7
2001**	8,055,166	124,023	15.4 **	64.7 **	72,587	9.0 **	62,964	7.8 **	760	6.1
2001**	8,055,166	Excluding World Trade Center disaster deaths					60,218	7.5 **		
2002**	8,072,011	122,937	15.2 **	64.4 **	65,490	8.1 **	59,651	7.4 **	742	6.0
2003**	8,085,742	124,345	15.4 **	65.2 **	61,101	7.6 **	59,213	7.3 **	807	6.5
2004**	8,104,079	124,099	15.3 **	65.3 **	62,057	7.7 **	57,466	7.1 **	760	6.1
2005**	8,143,197	122,725	15.1 **	64.8 **	66,348	8.1 **	57,068	7.0 **	732	6.0
2006**	8,214,426	125,506	15.3 **	66.5 **	65,619	8.0 **	55,391	6.7 **	740	5.9
2007	8,274,527	128,961	15.6	68.5	66,483	8.0	54,073	6.5	697	5.4
2008	8,363,710	127,680	15.3	68.0	66,670	8.0	54,193	6.5	698	5.5

* 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. Intercensal population counts from 1960 to 1990 use a linear interpolation, while 1990 to 2000 are interpolated using an exponential formula. Number of marriages is provided by New York City Office of City Clerk.

**Population data for years 2001-2006 have been revised by using pre-challenged U.S. Census Bureau's estimates and therefore rates may be slightly different from previous publication. All estimates are at July 1 of each year. See Technical Notes: Population.

Table 2. Population Estimates by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2008

Age in Years	All			Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Multiple Race		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Ages	8,363,710	3,995,209	4,368,501	2,313,399	1,120,337	1,193,062	2,959,458	1,434,499	1,524,959	1,965,085	884,609	1,080,476	998,598	494,636	503,962	127,170	61,128	66,042
Under 5	575,742	294,310	281,432	198,553	100,889	97,664	159,694	82,032	77,662	134,316	68,340	65,976	66,933	34,684	32,249	16,246	8,365	7,881
5-9	519,022	265,374	253,648	171,659	87,579	84,080	148,197	76,263	71,934	126,615	64,111	62,504	60,136	31,087	29,049	12,415	6,334	6,081
10-14	498,542	254,346	244,196	166,766	84,892	81,874	131,359	67,608	63,751	136,004	68,816	67,188	55,155	28,385	26,770	9,258	4,645	4,613
15-19	551,139	278,564	272,575	182,780	91,444	91,336	147,427	76,097	71,330	156,504	77,862	78,642	55,050	28,520	26,530	9,378	4,641	4,737
20-24	580,628	281,935	298,693	182,661	90,261	92,400	172,773	85,525	87,248	154,088	71,299	82,789	60,645	29,937	30,708	10,461	4,913	5,548
25-29	597,650	294,076	303,574	191,710	100,168	91,542	175,780	83,964	91,816	143,944	69,051	74,893	76,830	36,421	40,409	9,386	4,472	4,914
30-34	643,340	312,978	330,362	184,551	94,597	89,954	234,822	114,743	120,079	126,185	57,121	69,064	88,993	42,300	46,693	8,789	4,217	4,572
35-39	675,694	329,967	345,727	180,883	89,442	91,441	254,456	129,983	124,473	135,930	59,550	76,380	95,481	46,790	48,691	8,944	4,202	4,742
40-44	643,889	317,112	326,777	173,054	84,286	88,768	227,330	119,355	107,975	148,552	65,282	83,270	86,138	43,912	42,226	8,815	4,277	4,538
45-49	614,902	300,113	314,789	156,886	74,571	82,315	215,086	111,937	103,149	152,333	67,373	84,960	82,419	42,207	40,212	8,178	4,025	4,153
50-54	552,696	261,447	291,249	131,948	60,241	71,707	207,120	102,822	104,298	132,588	57,291	75,297	74,032	37,675	36,357	7,008	3,418	3,590
55-59	483,987	222,887	261,100	110,044	48,761	61,283	195,289	94,351	100,938	112,521	47,170	65,351	60,524	29,994	30,530	5,609	2,611	2,998
60-64	388,605	173,141	215,464	86,519	37,616	48,903	167,348	77,798	89,550	88,549	35,531	53,018	42,168	20,426	21,742	4,021	1,770	2,251
65-69	300,254	129,822	170,432	65,891	28,244	37,647	131,516	59,386	72,130	68,901	26,232	42,669	31,030	14,737	16,293	2,916	1,223	1,693
70-74	237,728	100,161	137,567	49,020	19,980	29,040	108,503	47,824	60,679	53,539	19,949	33,590	24,688	11,638	13,050	1,978	770	1,208
75-79	189,494	74,953	114,541	35,156	13,071	22,085	97,480	40,676	56,804	38,255	13,131	25,124	17,161	7,498	9,663	1,442	577	865
80-84	149,175	53,255	95,920	23,665	7,880	15,785	84,930	31,709	53,221	28,511	8,828	19,683	11,042	4,513	6,529	1,027	325	702
85 & Over	161,223	50,768	110,455	21,653	6,415	15,238	100,348	32,426	67,922	27,750	7,672	20,078	10,173	3,912	6,261	1,299	343	956

Data Source: U.S. Census Bureau, as of September 2009.

Table 3. Deaths and Death Rates per 1,000 Population* by Age, Ethnic Group**, and Sex, New York City, 2008

Age in Years	All						Hispanic						Non-Hispanic White						Non-Hispanic Black						Asian and Pacific Islander						Other/Multiple Race/Unknown		
	Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total	Male	Female
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	No.	No.
All Ages	54,193	6.5	26,342	6.6	27,851	6.4	9,329	4.0	4,842	4.3	4,487	3.8	27,131	9.2	12,914	9.0	14,217	9.3	14,006	7.1	6,541	7.4	7,465	6.9	2,971	3.0	1,635	3.3	1,336	2.7	756	410	346
Age-Adjusted		6.1		7.5		5.1		5.5		6.9		4.5		6.0		7.3		5.0		7.6		9.4		6.4		3.8		4.6		3.1			
Under 5	798	1.4	449	1.5	349	1.2	207	1.0	133	1.3	74	0.8	197	1.2	104	1.3	93	1.2	314	2.3	171	2.5	143	2.2	50	0.7	24	0.7	26	0.8	30	17	13
5-9	77	0.1	50	0.2	27	0.1	21	0.1	13	0.1	8	0.1	21	0.1	13	0.2	8	0.1	28	0.2	21	0.3	7	0.1	5	0.1	2	0.1	3	0.1	-	1	1
10-14	76	0.2	45	0.2	31	0.1	27	0.2	13	0.2	14	0.2	17	0.1	12	0.2	5	0.1	25	0.2	16	0.2	9	0.1	7	0.1	4	0.1	3	0.1	0	-	-
15-19	206	0.4	145	0.5	61	0.2	54	0.3	41	0.4	13	0.1	44	0.3	30	0.4	14	0.2	92	0.6	62	0.8	30	0.4	13	0.2	9	0.3	4	0.2	3	3	-
20-24	383	0.7	286	1.0	97	0.3	114	0.6	87	1.0	27	0.3	97	0.6	72	0.8	25	0.3	148	1.0	113	1.6	35	0.4	19	0.3	12	0.4	7	0.2	5	2	3
25-29	483	0.8	339	1.2	144	0.5	127	0.7	102	1.0	25	0.3	132	0.8	88	1.0	44	0.5	180	1.3	126	1.8	54	0.7	35	0.5	16	0.4	19	0.5	9	7	2
30-34	550	0.9	356	1.1	194	0.6	152	0.8	108	1.1	44	0.5	153	0.7	103	0.9	50	0.4	207	1.6	121	2.1	86	1.2	29	0.3	16	0.4	13	0.3	9	8	1
35-39	743	1.1	483	1.5	260	0.8	210	1.2	145	1.6	65	0.7	199	0.8	138	1.1	61	0.5	273	2.0	159	2.7	114	1.5	51	0.5	34	0.7	17	0.3	10	7	3
40-44	1,208	1.9	734	2.3	474	1.5	350	2.0	225	2.7	125	1.4	333	1.5	230	1.9	103	1.0	439	3.0	228	3.5	211	2.5	63	0.7	37	0.8	26	0.6	23	14	9
45-49	1,898	3.1	1,162	3.9	736	2.3	447	2.8	290	3.9	157	1.9	575	2.7	379	3.4	196	1.9	727	4.8	400	5.9	327	3.8	110	1.3	66	1.6	44	1.1	39	27	12
50-54	2,663	4.8	1,629	6.2	1,034	3.6	601	4.6	374	6.2	227	3.2	899	4.3	565	5.5	334	3.2	953	7.2	549	9.6	404	5.4	158	2.1	106	2.8	52	1.4	52	35	17
55-59	3,344	6.9	2,046	9.2	1,298	5.0	729	6.6	455	9.3	274	4.5	1,282	6.6	809	8.6	473	4.7	1,099	9.8	617	13.1	482	7.4	186	3.1	131	4.4	55	1.8	48	34	14
60-64	3,902	10.0	2,264	13.1	1,638	7.6	815	9.4	474	12.6	341	7.0	1,644	9.8	971	12.5	673	7.5	1,203	13.6	661	18.6	542	10.2	188	4.5	123	6.0	65	3.0	52	35	17
65-69	4,146	13.8	2,367	18.2	1,779	10.4	854	13.0	498	17.6	356	9.5	1,678	12.8	992	16.7	686	9.5	1,312	19.0	680	25.9	632	14.8	242	7.8	156	10.6	86	5.3	60	41	19
70-74	4,832	20.3	2,598	25.9	2,234	16.2	911	18.6	476	23.8	435	15.0	2,151	19.8	1,205	25.2	946	15.6	1,410	26.3	695	34.8	715	21.3	294	11.9	193	16.6	101	7.7	66	29	37
75-79	5,880	31.0	2,905	38.8	2,975	26.0	1,000	28.4	464	35.5	536	24.3	3,073	31.5	1,598	39.3	1,475	26.0	1,396	36.5	614	46.8	782	31.1	339	19.8	189	25.2	150	15.5	72	40	32
80-84	7,277	48.8	3,271	61.4	4,006	41.8	987	41.7	422	53.6	565	35.8	4,258	50.1	2,006	63.3	2,252	42.3	1,517	53.2	595	67.4	922	46.8	416	37.7	200	44.3	216	33.1	99	48	51
85+	15,727	97.5	5,213	102.7	10,514	95.2	1,723	79.6	522	81.4	1,201	78.8	10,378	103.4	3,599	111.0	6,779	99.8	2,683	96.7	713	92.9	1,970	98.1	766	75.3	317	81.0	449	71.7	177	62	115
Mean age at death	71.7		67.6		75.6		66.0		61.4		71.1		76.6		72.9		80.0		66.5		62.0		70.4		70.7		68.3		73.5		67.5	63.3	72.4
Median age at death	76		71		80		69		64		75		81		77		84		70		65		74		75		72		79		72	66	79

* Population data are from U.S. Census Bureau's estimates as of September 2009.

** Multiple race categories were introduced in January 2003 when New York City implemented a new death certificate form. Beginning in 2003, multiple races are included in "Other/Mutiple Race/Unknown" category. See Technical Notes: Mutiple Race.

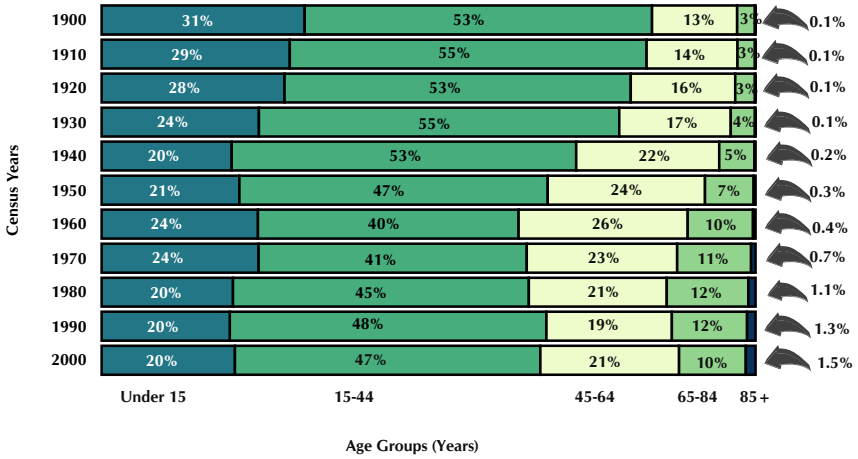


Figure 1. Age Composition of the Population New York City, 1900-2000

The changing age composition of New York City reflects changes in life expectancy as well as natural historic trends. The effect of the economic depression of the 1930s on the number of live births is seen in the lower percentage of residents under age 15 in 1940, while the post-World War II baby boom increased this segment rapidly after 1950. From 1900 to 2000, the proportion of residents age 45 and over doubled from 16% to 32% (more than 100% increase), with the greatest increase among those 85 and over. From 1990 to 2000, the proportion of residents age 65 to 84 declined 11%, while the proportion 85 and over increased 15%. Over this ten-year period, the median age of city residents increased from 33.7 to 34.2 years.

Figure 2. Age-Sex Composition of the Population New York City, 2008 Estimate

This age-sex pyramid shows each age-sex group as a percent of the total population. There are more females than males overall, 52% to 48%, and more females in every age group over 19. The greatest difference is among those 85 and over, where there are more than two times as many women as men. The smaller segments of both males and females in the 5-9 and 10-14 age groups reflect the lower number of births in late 1990s and early 2000s compared to births in the past five years.

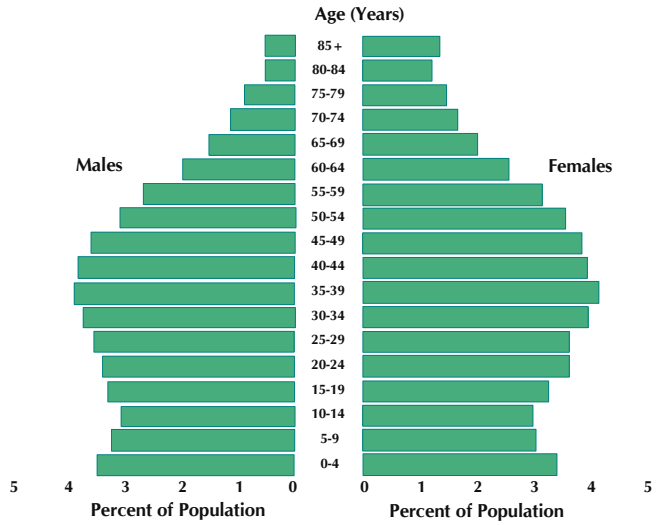


Figure 3. Deaths by Ethnic Group,* New York City, 1989-2008

Between 1989 and 2008, the overall number of deaths decreased 28.7%, from 75,957 to 54,193. Non-Hispanic white deaths, which decreased 37.4%, accounted for most of the overall deaths. Deaths among non-Hispanic blacks decreased less, about 23%. In the same time period, deaths among Hispanics and Asians increased 4.3% and 29.9%, respectively. However, according to the Census, from 1990 to 2008 the population of Hispanics and Asians in the City increased 29.7% and 103.8%, respectively. Note that WTC disaster deaths are not included in this graph for the year 2001.

* Race categories were changed in 2003. See Technical Notes: Race in the 2000 Census and Multiple Race.

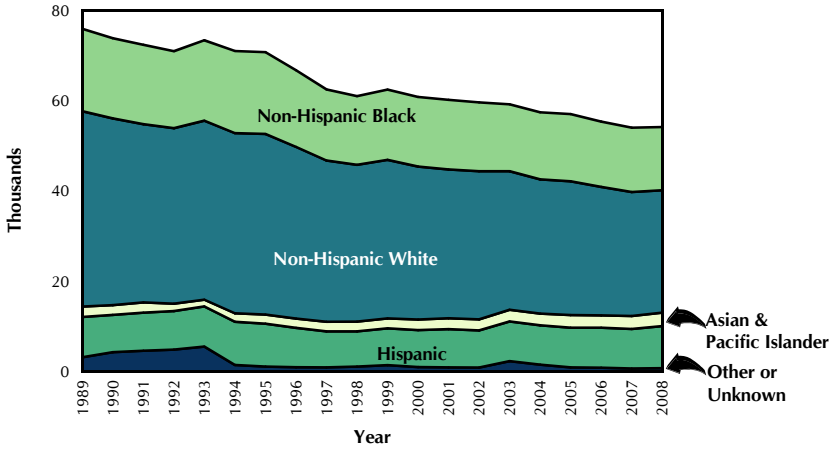


Table 4. **Deaths by Cause by Borough of Residence and Sex, and ICD-10/ICD-9 Comparability Ratio**
New York City, 2008

Cause (Codes from International Classification of Diseases, Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		ICD10/ICD9 Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown	Male	Female	
Total Deaths	54,193	9,868	8,666	15,790	12,393	3,455	3,786	235	26,342	27,851	
Natural Causes	51,249	9,389	8,174	14,931	11,787	3,264	3,539	165	24,229	27,020	
1.# Tuberculosis (A16-A19)	18	5	5	4	3	–	1	–	15	3	0.88
Respiratory tuberculosis (A16)	13	3	4	3	2	–	1	–	11	2	0.94
2.# Septicemia (A40-A41)	324	52	93	89	60	12	16	2	153	171	1.19
3.# Viral hepatitis (B15-B19)	377	83	82	95	47	23	44	3	260	117	0.71
4.# Human immunodeficiency virus (HIV) disease (B20-B24)	1,073	268	305	318	105	26	37	14	702	371	1.08
5. All other infective and parasitic diseases (Rest of A01-B99)	260	50	61	53	52	19	25	–	131	129	
6.# Malignant neoplasms (C00-C97)	13,047	2,618	1,938	3,443	2,716	825	1,474	33	6,476	6,571	1.01
Lip, oral cavity, and pharynx (C00-C14)	188	39	30	50	48	3	17	1	133	55	0.96
Esophagus (C15)	296	55	49	79	53	23	35	2	204	92	0.99
Stomach (C16)	464	82	65	142	112	19	43	1	279	185	1.01
Colon, rectum, and anus (C18-C21)	1,419	273	225	428	287	94	107	5	713	706	1.00
Liver and intrahepatic bile ducts (C22)	570	112	101	140	116	33	66	2	402	168	0.96
Pancreas (C25)	950	203	122	252	195	61	114	3	432	518	1.00
Larynx (C32)	111	17	25	24	22	14	7	2	89	22	1.01
Trachea, bronchus, and lung (C33-C34)	2,908	605	428	768	607	229	263	8	1,593	1,315	0.98
Melanoma of skin (C43)	119	28	12	28	23	12	16	–	72	47	0.95
Mesothelioma (C45)	30	5	3	4	3	–	15	–	20	10	
Breast (C50)	1,102	232	168	306	207	81	107	1	7	1,095	1.01
Cervix uteri (C53)	138	25	34	42	22	3	12	–	–	138	1.00
Corpus uteri and uterus, part unspecified (C54-C55)	284	51	56	99	32	19	27	–	–	284	1.02
Ovary (C56)	354	72	38	96	78	31	39	–	–	354	0.99
Prostate (C61)	720	136	132	185	146	36	83	2	720	–	1.01
Kidney and renal pelvis (C64-C65)	219	37	35	44	59	13	30	1	135	84	1.00
Bladder (C67)	306	63	36	67	89	17	33	1	206	100	1.00
Meninges, brain, and other parts of central nervous system (C70-C72)	249	48	25	57	60	13	46	–	144	105	0.98
Lymphoid, hematopoietic and related tissues (C81-C96)	1,296	258	170	305	260	63	237	3	688	608	1.00
Hodgkin's disease (C81)	39	10	10	10	6	1	2	–	24	15	1.00
Non-Hodgkin's lymphoma (C82-C85)	479	96	64	111	97	22	87	2	265	214	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90)	246	56	39	61	49	11	30	–	117	129	1.04
Leukemia (C91-C95)	532	96	57	123	108	29	118	1	282	250	1.01
7.# In situ or benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	222	40	27	57	45	12	41	–	105	117	1.63
8.# Anemias (D50-D64)	60	9	13	21	9	–	6	2	25	35	0.94
9.# Diabetes mellitus (E10-E14)	1,643	297	379	511	313	74	68	1	763	880	1.02
10.## Mental and behavioral disorders due to use of alcohol (F10)	210	53	35	52	47	9	7	7	174	36	
11. Mental and behavioral disorders due to use of psychoactive substance excluding alcohol and tobacco (F11-F16, F18-F19) ###	129	24	66	9	14	6	3	7	100	29	
12. Diseases of nervous system (G00-G98)	855	259	162	157	194	34	47	2	346	509	
# Meningitis (G00,G03)	23	5	7	3	6	2	–	–	13	10	1.01
# Parkinson's disease (G20-G21)	158	62	31	16	37	3	9	–	94	64	1.01
# Alzheimer's disease (G30)	374	122	75	65	91	7	14	–	93	281	1.58
13. Major cardiovascular diseases (I00-I78)	24,016	3,729	3,354	7,717	6,148	1,798	1,205	65	10,847	13,169	1.00
# Diseases of heart (I00-I09, I11, I13, I20-I51)	21,192	3,104	2,838	7,001	5,515	1,670	1,004	60	9,587	11,605	0.99
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	53	11	8	11	13	2	8	–	14	39	0.88
Hypertensive heart disease (I11)	1,704	340	324	529	362	74	66	9	810	894	0.80
Hypertensive heart and renal disease (I13)	92	21	20	26	16	4	5	–	41	51	1.13
Chronic ischemic heart disease (I20, I25)	15,475	1,974	1,841	5,355	4,351	1,235	678	41	6,998	8,477	1.01
Acute myocardial infarction (I21-I22)	2,609	463	439	774	533	269	125	6	1,156	1,453	0.99

Continued on next page.

Table 4. **Deaths by Cause by Borough of Residence and Sex, and ICD-10/ICD-9 Comparability Ratio**
New York City, 2008 (Continued)

Cause (Codes from International Classification of Diseases, Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		ICD10/ICD9 Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown	Male	Female	
Cardiomyopathy (I42)	126	29	17	29	31	9	10	1	85	41	
Heart failure (I50)	382	97	79	88	56	35	25	2	152	230	1.04
# Essential hypertension and hypertensive renal disease (I10, I12, I15) *	889	210	163	230	199	31	55	1	404	485	1.12
# Cerebrovascular diseases (I60-I69)	1,512	341	273	387	338	72	98	3	633	879	1.05
# Atherosclerosis (I70)	191	31	48	42	47	10	13	–	80	111	0.97
# Aortic aneurysm and dissection (I71)	139	27	18	32	26	13	22	1	88	51	1.00
14.# Influenza and pneumonia (J10-J18)	2,300	483	382	621	596	110	104	4	1,044	1,256	0.70
15.# Chronic lower respiratory diseases (J40-J47)	1,605	347	269	416	388	105	79	1	704	901	1.04
Emphysema (J43)	150	29	23	35	42	13	8	–	72	78	0.96
Asthma (J45-J46)	149	28	38	58	18	4	3	–	65	84	0.89
16. Pneumoconiosis due to asbestos and other mineral fibres (J61)	1	–	–	1	–	–	–	–	1	–	
17.# Pneumonitis due to solids and liquids (J69)	42	9	15	7	6	2	2	1	21	21	1.10
18.# Peptic ulcer (K25-K28)	102	12	21	32	26	5	5	1	52	50	0.97
19.# Chronic liver disease and cirrhosis (K70, K73-K74)	542	98	100	148	113	24	55	4	366	176	1.03
Alcoholic liver disease (K70)	377	68	71	102	80	18	34	4	280	97	1.00
20.# Cholelithiasis and other disorders of gallbladder (K80-K82)	65	8	9	18	17	7	6	–	26	39	0.96
21.# Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)	385	78	58	126	77	22	22	2	179	206	1.26
Renal failure (N17-N19)	336	64	47	113	69	20	21	2	149	187	1.33
22.# Pregnancy, childbirth, and the puerperium (O00-O99)	42	3	9	13	15	1	1	–	–	42	1.14
Maternal causes** (A34, O00-O95, O98-O99)	39	3	9	13	12	1	1	–	–	39	
23.# Certain conditions originating in the perinatal period (P00-P96)	373	57	75	115	72	10	41	3	205	168	1.08
24.# Congenital malformations, deformations, and chromosomal abnormalities (Q00-Q99)	289	38	44	79	61	13	53	1	163	126	0.90
25. Symptoms, signs and abnormal findings, not elsewhere classified (R00-R94, R96-R99)	286	132	46	42	44	6	11	5	110	176	0.98
Pending final determination (R99)	1	–	–	1	–	–	–	–	1	–	
26. Sudden infant death syndrome (R95)	12	–	2	6	4	–	–	–	4	8	1.06
27. All other natural causes (Rest of A00-R99)	2,971	637	624	781	615	121	186	7	1,257	1,714	
External Causes	2,944	479	492	859	606	191	247	70	2,113	831	
Injury by firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)	390	43	91	138	68	22	26	2	367	23	1.00
28.## Accidents (V01-X59,Y85-Y86)	1,651	274	264	455	346	118	158	36	1,121	530	1.03
Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) ###	607	106	113	163	111	49	51	14	448	159	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) ###	736	130	179	172	125	55	54	21	548	188	
Motor vehicle accidents ***	320	42	31	96	81	17	49	4	209	111	0.95
Accidental falls (W00-W19)	388	75	66	92	86	33	33	3	233	155	0.77
29.# Intentional self-harm (suicide) (U03^, X60-X84, Y87.0)	473	105	65	130	109	24	34	6	348	125	1.00
30.# Assault (homicide) (U01-U02^, X85-Y09, Y87.1)	558	58	134	204	98	22	35	7	477	81	1.00
31.# Legal Intervention (Y35, Y89.0)	9	–	2	6	–	–	1	–	9	–	0.94
32. Events of undetermined intent (Y10-Y34, Y87.2, Y89.9)	192	30	21	53	40	20	8	20	128	64	0.99
33.# Complications of medical and surgical care (Y40-Y84, Y88)	59	12	6	11	13	6	10	1	28	31	0.63
34.# Operations of war and their sequelae (Y36,Y89.1)	2	–	–	–	–	1	1	–	2	–	

Note: Beginning on January 1, 1999, all causes were coded using ICD-10. See Technical Notes: Comparability Ratio. The NCHS list of 113 selected causes of death is the base list for tabulating causes in this table. Some causes have been dropped from this list due to small numbers and others added due to their importance in New York City.

Eligible to be ranked as leading causes nationally and in New York City. Several causes were added to this list in 2000 and 2003; they are of relatively low frequency in New York City and do not affect rankings of leading causes.

The following cause groups are not ranked as leading causes nationally, but are eligible to be ranked as leading causes in NYC 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 substance excluding alcohol and tobacco", and "Accidents", which in NYC excludes poisoning by psychoactive substances (excluding alcohol and tobacco).

See Technical Notes: Drug Related Deaths.

* Cause-of-death definition was changed in 2008 to reflect the addition of Secondary hypertension (ICD code I15).

** Maternal deaths exclude deaths occurring more than 42 days after the termination of pregnancy, and include obstetrical tetanus. See Technical Notes: 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, V89.2.

^ U01-U03 were introduced by NCHS in 2001 for classifying and coding deaths due to acts of terrorism. Those codes are not part of the ICD-10.

Table 5. **Leading Causes of Death in Specified Age Groups by Sex**
New York City, 2008

		All		Male		Female	
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	21,192	39.1	9,587	36.4	11,605	41.7
2	Malignant Neoplasms	13,047	24.1	6,476	24.6	6,571	23.6
3	Influenza and Pneumonia	2,300	4.2	1,044	4.0	1,256	4.5
4	Diabetes Mellitus	1,643	3.0	763	2.9	880	3.2
5	Chronic Lower Respiratory Diseases	1,605	3.0	704	2.7	901	3.2
6	Cerebrovascular Diseases	1,512	2.8	633	2.4	879	3.2
7	Human Immunodeficiency Virus (HIV) Disease	1,073	2.0	702	2.7	371	1.3
8	Accidents Except Poisoning by Psychoactive Substance	1,044	1.9	673	2.6	371	1.3
9	Essential Hypertension and Hypertensive Renal Disease*	889	1.6	404	1.5	485	1.7
10	Use of or Poisoning by Psychoactive Substance	736	1.4	548	2.1	188	0.7
	All Other Causes	9,152	16.9	4,808	18.3	4,344	15.6
	Total	54,193	100.0	26,342	100.0	27,851	100.0
Rank	UNDER 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	151	21.6	87	22.1	64	21.1
2	Short Gestation and Low Birth Weight	114	16.3	57	14.5	57	18.8
3	Cardiovascular Disorders Originating in the Perinatal Period	96	13.8	50	12.7	46	15.1
4	External Causes	69	9.9	38	9.6	31	10.2
5	Respiratory Distress of Newborn	41	5.9	29	7.4	12	3.9
6	Newborn Affected by Complications of Placenta	19	2.7	10	2.5	9	3.0
7	Necrotizing Enterocolitis of Newborn	17	2.4	8	2.0	9	3.0
8	Sudden Infant Death Syndrome	12	1.7	4	1.0	8	2.6
9	Other Respiratory Conditions Originating in the Perinatal Period	11	1.6	9	2.3	2	0.7
10	Diseases of Heart	10	1.4	6	1.5	4	1.3
	All Other Causes	158	22.6	96	24.4	62	20.4
	Total	698	100.0	394	100.0	304	100.0
Rank	1 TO 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	49	19.4	29	19.3	20	19.4
2	Accidents Except Poisoning by Psychoactive Substance	42	16.6	32	21.3	10	9.7
3	Congenital Malformations, Deformations	34	13.4	20	13.3	14	13.6
4	Assault (Homicide)	15	5.9	7	4.7	8	7.8
5	Chronic Lower Respiratory Diseases	13	5.1	6	4.0	7	6.8
6	Diseases of Heart	12	4.7	8	5.3	4	3.9
7	Influenza and Pneumonia	10	4.0	5	3.3	5	4.9
8	Anemias	5	2.0	1	0.7	4	3.9
	All Other Causes	73	28.9	42	28.0	31	30.1
	Total	253	100.0	150	100.0	103	100.0
Rank	15 TO 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	164	27.8	152	35.3	12	7.6
2	Accidents Except Poisoning by Psychoactive Substance	84	14.3	67	15.5	17	10.8
3	Malignant Neoplasms	63	10.7	31	7.2	32	20.3
4	Intentional Self-harm (Suicide)	43	7.3	35	8.1	8	5.1
5	Use of or Poisoning by Psychoactive Substance	37	6.3	29	6.7	8	5.1
6	Diseases of Heart	32	5.4	24	5.6	8	5.1
7	Congenital Malformations, Deformations	18	3.1	11	2.6	7	4.4
8	Human Immunodeficiency Virus (HIV) Disease	17	2.9	7	1.6	10	6.3
9	Chronic Lower Respiratory Diseases	8	1.4	5	1.2	3	1.9
10	Pregnancy, Childbirth and the Puerperium	7	1.2	–	–	7	4.4
	All Other Causes	116	19.7	70	16.2	46	29.1
	Total	589	100.0	431	100.0	158	100.0
Rank	25 TO 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	179	17.3	157	22.6	22	6.5
2	Malignant Neoplasms	140	13.6	72	10.4	68	20.1
3	Accidents Except Poisoning by Psychoactive Substance	107	10.4	86	12.4	21	6.2
3	Use of or Poisoning by Psychoactive Substance	107	10.4	85	12.2	22	6.5
5	Intentional Self-harm (Suicide)	85	8.2	57	8.2	28	8.3
6	Human Immunodeficiency Virus (HIV) Disease	77	7.5	48	6.9	29	8.6
7	Diseases of Heart	75	7.3	58	8.3	17	5.0
8	Pregnancy, Childbirth and the Puerperium	20	1.9	–	–	20	5.9
9	Diabetes Mellitus	18	1.7	11	1.6	7	2.1
10	Congenital Malformations, Deformations	15	1.5	7	1.0	8	2.4
	All Other Causes	210	20.3	114	16.4	96	28.4
	Total	1,033	100.0	695	100.0	338	100.0

Continued on next page.

Note: For each age group, the ten leading causes of death for both sexes combined are arranged in decreasing order of frequency; causes with fewer than five deaths are not shown.

* Cause-of-death definition was changed in 2008 to reflect the addition of secondary hypertension (ICD-10 code I15).

Table 5. **Leading Causes of Death in Specified Age Groups by Sex**
New York City, 2008 (Continued)

		All		Male		Female	
Rank	35 TO 44 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	382	19.6	166	13.6	216	29.4
2	Diseases of Heart	291	14.9	201	16.5	90	12.3
3	Human Immunodeficiency Virus (HIV) Disease	246	12.6	144	11.8	102	13.9
4	Use of or Poisoning by Psychoactive Substance	185	9.5	138	11.3	47	6.4
5	Assault (Homicide)	97	5.0	84	6.9	13	1.8
6	Intentional Self-harm (Suicide)	93	4.8	65	5.3	28	3.8
7	Accidents Except Poisoning by Psychoactive Substance	82	4.2	65	5.3	17	2.3
8	Chronic Liver Disease and Cirrhosis	53	2.7	38	3.1	15	2.0
9	Cerebrovascular Diseases	45	2.3	23	1.9	22	3.0
10	Diabetes Mellitus	44	2.3	30	2.5	14	1.9
	All Other Causes	433	22.2	263	21.6	170	23.2
	Total	1,951	100.0	1,217	100.0	734	100.0
Rank	45 TO 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,320	28.9	634	22.7	686	38.8
2	Diseases of Heart	959	21.0	652	23.4	307	17.3
3	Human Immunodeficiency Virus (HIV) Disease	425	9.3	275	9.9	150	8.5
4	Use of or Poisoning by Psychoactive Substance	256	5.6	181	6.5	75	4.2
5	Chronic Liver Disease and Cirrhosis	142	3.1	99	3.5	43	2.4
6	Accidents Except Poisoning by Psychoactive Substance	141	3.1	111	4.0	30	1.7
7	Cerebrovascular Diseases	137	3.0	79	2.8	58	3.3
8	Diabetes Mellitus	130	2.9	79	2.8	51	2.9
9	Intentional Self-harm (Suicide)	107	2.3	84	3.0	23	1.3
10	Viral Hepatitis	102	2.2	78	2.8	24	1.4
	All Other Causes	842	18.5	519	18.6	323	18.2
	Total	4,561	100.0	2,791	100.0	1,770	100.0
Rank	55 TO 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	2,594	35.8	1,327	30.8	1,267	43.2
2	Diseases of Heart	2,027	28.0	1,330	30.9	697	23.7
3	Diabetes Mellitus	268	3.7	147	3.4	121	4.1
4	Human Immunodeficiency Virus (HIV) Disease	231	3.2	173	4.0	58	2.0
5	Cerebrovascular Diseases	184	2.5	102	2.4	82	2.8
6	Chronic Liver Disease and Cirrhosis	181	2.5	131	3.0	50	1.7
7	Influenza and Pneumonia	164	2.3	98	2.3	66	2.2
8	Chronic Lower Respiratory Diseases	163	2.2	90	2.1	73	2.5
9	Viral Hepatitis	162	2.2	124	2.9	38	1.3
10	Accidents Except Poisoning by Psychoactive Substance	145	2.0	98	2.3	47	1.6
	All Other Causes	1,127	15.6	690	16.0	437	14.9
	Total	7,246	100.0	4,310	100.0	2,936	100.0
Rank	65 TO 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,142	35.0	1,682	33.9	1,460	36.4
2	Diseases of Heart	3,127	34.8	1,791	36.1	1,336	33.3
3	Diabetes Mellitus	388	4.3	188	3.8	200	5.0
4	Influenza and Pneumonia	317	3.5	192	3.9	125	3.1
5	Chronic Lower Respiratory Diseases	290	3.2	148	3.0	142	3.5
6	Cerebrovascular Diseases	236	2.6	117	2.4	119	3.0
7	Essential Hypertension and Hypertensive Renal Disease	145	1.6	90	1.8	55	1.4
8	Accidents Except Poisoning by Psychoactive Substance	124	1.4	78	1.6	46	1.1
9	Chronic Liver Disease and Cirrhosis	103	1.1	61	1.2	42	1.0
10	Nephritis, Nephrotic Syndrome and Nephrosis	76	0.8	38	0.8	38	0.9
	All Other Causes	1,030	11.5	580	11.7	450	11.2
	Total	8,978	100.0	4,965	100.0	4,013	100.0
Rank	75 TO 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	5,772	43.9	2,708	43.8	3,064	43.9
2	Malignant Neoplasms	3,357	25.5	1,686	27.3	1,671	23.9
3	Influenza and Pneumonia	652	5.0	309	5.0	343	4.9
4	Chronic Lower Respiratory Diseases	536	4.1	232	3.8	304	4.4
5	Diabetes Mellitus	440	3.3	196	3.2	244	3.5
6	Cerebrovascular Diseases	415	3.2	166	2.7	249	3.6
7	Essential Hypertension and Hypertensive Renal Disease	250	1.9	106	1.7	144	2.1
8	Accidents Except Poisoning by Psychoactive Substance	155	1.2	65	1.1	90	1.3
9	Alzheimer's Disease	101	0.8	26	0.4	75	1.1
10	Nephritis, Nephrotic Syndrome and Nephrosis	98	0.7	40	0.6	58	0.8
	All Other Causes	1,381	10.5	642	10.4	739	10.6
	Total	13,157	100.0	6,176	100.0	6,981	100.0
Rank	85 AND OVER	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,887	56.5	2,809	53.9	6,078	57.8
2	Malignant Neoplasms	1,996	12.7	846	16.2	1,150	10.9
3	Influenza and Pneumonia	1,037	6.6	368	7.1	669	6.4
4	Chronic Lower Respiratory Diseases	487	3.1	167	3.2	320	3.0
5	Cerebrovascular Diseases	469	3.0	129	2.5	340	3.2
6	Diabetes Mellitus	347	2.2	106	2.0	241	2.3
7	Essential Hypertension and Hypertensive Renal Disease	289	1.8	91	1.7	198	1.9
8	Alzheimer's Disease	241	1.5	52	1.0	189	1.8
9	Accidents Except Poisoning by Psychoactive Substance	147	0.9	61	1.2	86	0.8
10	Nephritis, Nephrotic Syndrome and Nephrosis	119	0.8	46	0.9	73	0.7
	All Other Causes	1,708	10.9	538	10.3	1,170	11.1
	Total	15,727	100.0	5,213	100.0	10,514	100.0

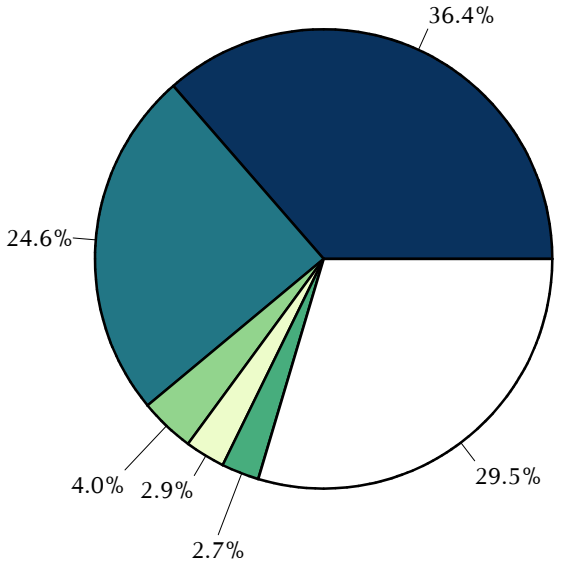


Figure 4. Leading Causes of Death for Males New York City, 2008

Sixty-one percent of the 26,342 deaths among New York City males in 2008 were caused by either diseases of heart (36.4%) or malignant neoplasms (24.6%), about 1 percentage point decrease from 2007. Influenza and pneumonia caused 4% of deaths, and diabetes mellitus caused 2.9%. After more than two decades, HIV disease deaths were no longer among top 5 leading causes of deaths for males. Chronic lower respiratory disease now took over 5th place in leading causes with 2.7% of total male deaths. The percent of deaths caused by the top 5 leading causes among males decreased 0.4 percentage point from 2007 to 2008. All remaining causes of deaths among males accounted for 29.5% of total deaths.

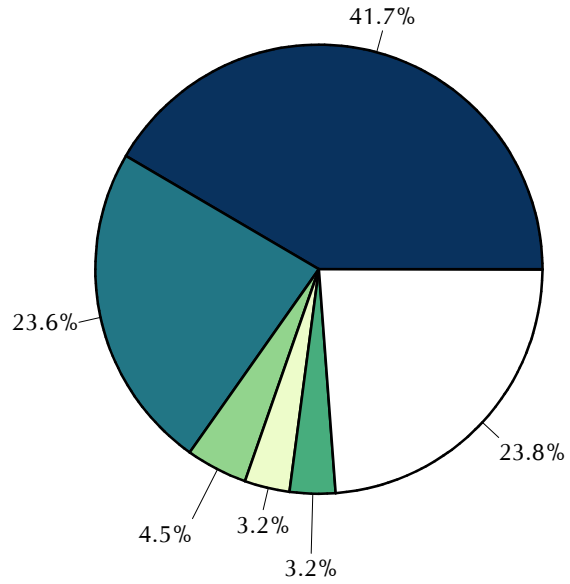


Figure 5. Leading Causes of Death for Females New York City, 2008

The two leading causes of death among females, diseases of the heart and malignant neoplasms, were the same as those for males, and accounted for 41.7% and 23.6% of the 27,851 deaths, respectively. Influenza and pneumonia caused 4.5% of deaths. The fourth and fifth leading causes in females are the same as those of males but in different order: chronic lower respiratory disease and diabetes mellitus each caused 3.2% of female deaths in 2008. All remaining causes of deaths among females accounted for 23.8% of total deaths.

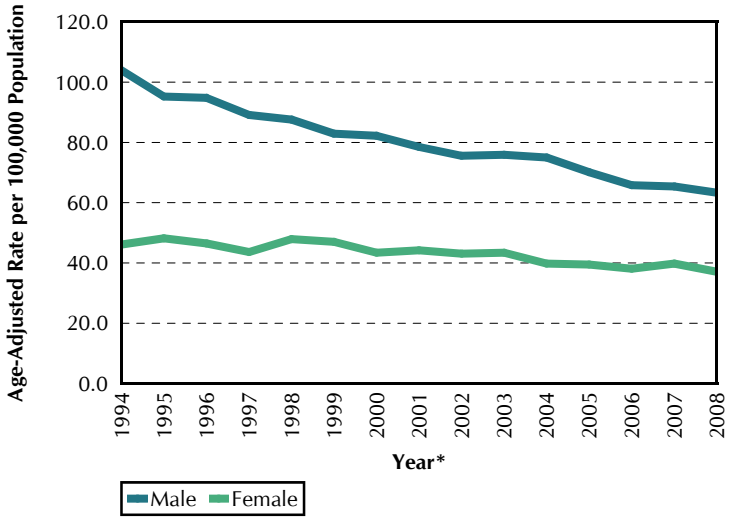


Figure 6a. Age-Adjusted Death Rates* for Trachea, Bronchus, and Lung Malignant Neoplasms, by Sex, Age 20 and Over, New York City, 1994-2008

Trachea, bronchus, and lung cancers are the leading causes of death among all cancers. The age-adjusted death rate for men decreased dramatically in the past 15 years, from 104.0 per 100,000 population in 1994 to 63.3 in 2008. In contrast, the age-adjusted rate was relatively stable for women over the same time period, from 46.1 per 100,000 population in 1994 to 37.1 in 2008.

See Comparability Ratio in Technical Notes for information about the effect of ICD-9/ICD-10 coding changes. Comparability ratios for trachea, bronchus, and lung cancers from ICD-9 to ICD-10 are 0.98 for males and 0.99 for females.

*See "Demographics, Population" in Technical Notes for information about population estimates.

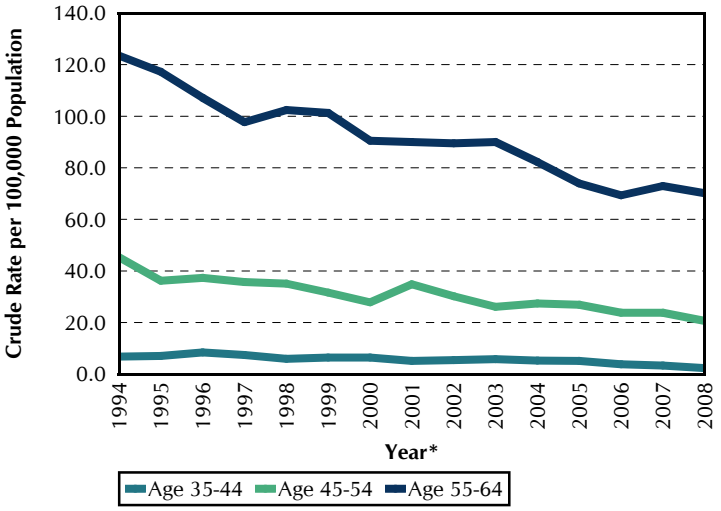


Figure 6b. Age-Specific Death Rates* for Trachea, Bronchus, and Lung Malignant Neoplasms by Selected Age Group New York City, 1994-2008

Trachea, bronchus, and lung cancers are the leading causes of death among all cancers. The age-specific death rates shown all decreased in the past 15 years, changing from 123.5 per 100,000 population to 70.1 for the 55-64 age group, from 45.3 to 20.6 for the 45-54 age group, and 6.8 to 2.3 for the 35-44 age group. Greatest improvements were among adults aged 35-44.

See Comparability Ratio in Technical Notes for information about the effect of ICD-9/ICD-10 coding changes.

*See "Demographics, Population" in Technical Notes for information about population estimates.

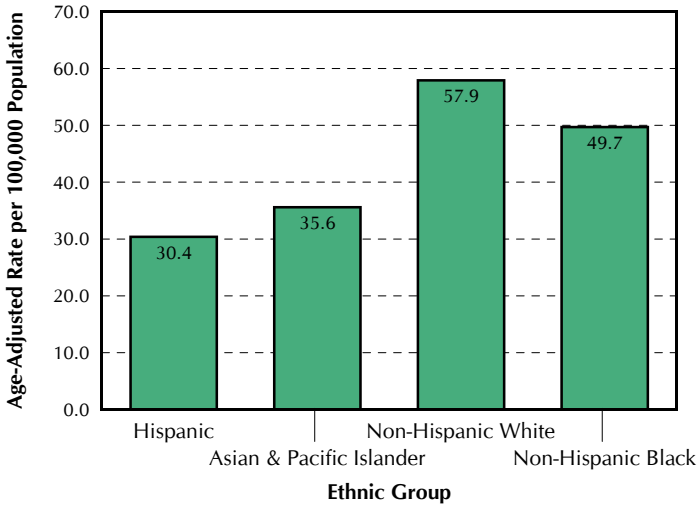


Figure 7. Age-Adjusted Death Rates* for Trachea, Bronchus, and Lung Malignant Neoplasms, by Ethnic Group, Age 20 and Over, New York City, 2008

The age-adjusted rate of trachea, bronchus, and lung cancer is the lowest for Hispanics, at 30.4 per 100,000 population, and highest for non-Hispanic whites, at 57.9 per 100,000 population. The rates for Asian and Pacific Islanders and non-Hispanic blacks are 35.6 and 49.7 per 100,000 population, respectively in 2008.

*See "Demographics, Population" in Technical Notes for information about population estimates.

Table 5a. **Leading Causes of Death by Sex, Age Under 65**
New York City, 2008

Rank	Cause of Death	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	4,552	27.9	2,262	22.6	2,290	36.1
	Trachea, bronchus, and lung	894	5.5	521	5.2	373	5.9
	Breast	493	3.0	2	0.0	491	7.7
	Colon, rectum, and anus	450	2.8	233	2.3	217	3.4
	Liver and intrahepatic bile ducts	292	1.8	229	2.3	63	1.0
	Pancreas	267	1.6	156	1.6	111	1.7
2	Diseases of Heart	3,406	20.9	2,279	22.8	1,127	17.8
3	Human Immunodeficiency Virus (HIV) Disease	996	6.1	647	6.5	349	5.5
4	Use of or Poisoning by Psychoactive Substance	707	4.3	529	5.3	178	2.8
5	Accidents Except Poisoning by Psychoactive Substance	618	3.8	469	4.7	149	2.3
6	Assault (Homicide)	539	3.3	462	4.6	77	1.2
7	Diabetes Mellitus	468	2.9	273	2.7	195	3.1
8	Cerebrovascular Diseases	392	2.4	221	2.2	171	2.7
9	Intentional Self-harm (Suicide)	391	2.4	289	2.9	102	1.6
10	Chronic Liver Disease and Cirrhosis	385	2.4	275	2.8	110	1.7
	All Other Causes	3,877	23.7	2,282	22.8	1,595	25.1
	Total	16,331	100.0	9,988	100.0	6,343	100.0

Note: Ten leading causes of death are arranged in the order of frequency for both sexes combined.

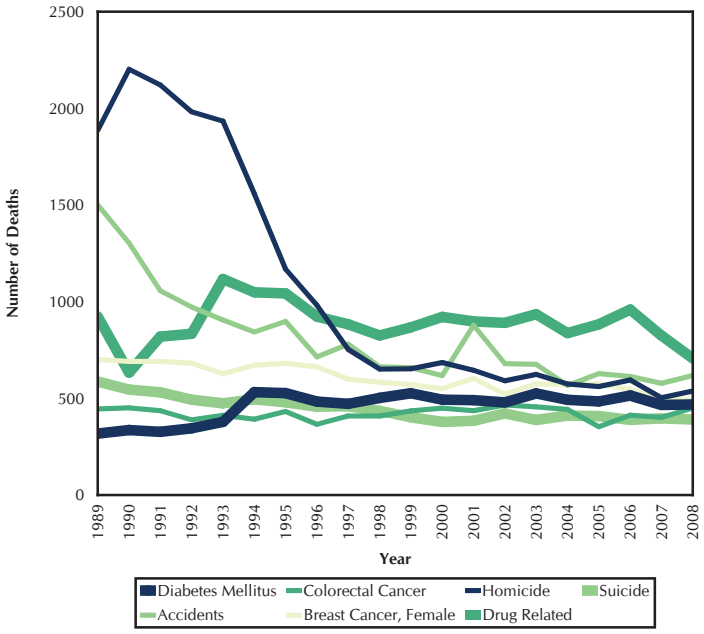


Figure 8. Number of Premature Deaths from Selected Causes Age under 65 Years, New York City, 1989-2008

The number of homicide deaths among those under 65 years of age declined steadily between 1990 and 1998. Since 1998, it has remained near 600 deaths per year through 2006. The number of homicide deaths was 538 in 2008. (Note, reported WTC deaths are homicides and not included for the year 2001.) Suicide deaths peaked in 1989 at 587 and since then declined to 391 in 2008. The number of colorectal cancer deaths occurring among those under 65 years of age is flat in the past two decades, from 445 in 1989 to 450 in 2008. Accidental deaths have fluctuated since their surge in 2001, which was due to the Flight 587 air crash. During the past two decades, diabetes mellitus declined to a low of 318 deaths in 1989 and then increased; since 1994, it has remained near 500 deaths per year. Breast cancer deaths in women have decreased slowly over the past two decades from approximately 700 deaths in 1989 to 491 in 2008.

Drug-related deaths (mental disorders due to substance use or accidental poisoning) to those under 65 years of age had sharp drop, from 923 in 1989 to 633 in 1990, then an increase to 1,117 in 1993. Since then, drug-related deaths decreased to 707 in 2008.

Table 6. **Leading Causes of Death in Specified Ethnic Groups* by Sex**
New York City, 2008

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,554	31.4	731	29.2	823	33.7
2	Malignant Neoplasms	1,054	21.3	548	21.9	506	20.7
3	Diabetes Mellitus	248	5.0	101	4.0	147	6.0
4	Human Immunodeficiency Virus (HIV) Disease	217	4.4	138	5.5	79	3.2
5	Influenza and Pneumonia	216	4.4	99	4.0	117	4.8
6	Chronic Lower Respiratory Diseases	191	3.9	87	3.5	104	4.3
7	Cerebrovascular Diseases	138	2.8	62	2.5	76	3.1
8	Use of or Poisoning by Psychoactive Substance	117	2.4	92	3.7	25	1.0
9	Viral Hepatitis	103	2.1	78	3.1	25	1.0
9	Chronic Liver Disease and Cirrhosis	103	2.1	69	2.8	34	1.4
	All Other Causes	1,004	20.3	498	19.9	506	20.7
	Total	4,945	100.0	2,503	100.0	2,442	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,221	27.9	599	25.6	622	30.4
2	Malignant Neoplasms	1,072	24.5	532	22.7	540	26.4
3	Influenza and Pneumonia	198	4.5	88	3.8	110	5.4
4	Diabetes Mellitus	171	3.9	90	3.8	81	4.0
5	Accidents Except Poisoning by Psychoactive Substance	167	3.8	127	5.4	40	2.0
6	Cerebrovascular Diseases	138	3.1	62	2.7	76	3.7
7	Human Immunodeficiency Virus (HIV) Disease	118	2.7	84	3.6	34	1.7
8	Chronic Liver Disease and Cirrhosis	109	2.5	80	3.4	29	1.4
9	Use of or Poisoning by Psychoactive Substance	98	2.2	80	3.4	18	0.9
10	Chronic Lower Respiratory Diseases	97	2.2	45	1.9	52	2.5
	All Other Causes	995	22.7	552	23.6	443	21.7
	Total	4,384	100.0	2,339	100.0	2,045	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,002	33.7	546	33.4	456	34.1
2	Malignant Neoplasms	823	27.7	477	29.2	346	25.9
3	Influenza and Pneumonia	163	5.5	90	5.5	73	5.5
4	Cerebrovascular Diseases	113	3.8	48	2.9	65	4.9
5	Diabetes Mellitus	99	3.3	52	3.2	47	3.5
6	Accidents Except Poisoning by Psychoactive Substance	91	3.1	54	3.3	37	2.8
7	Chronic Lower Respiratory Diseases	76	2.6	46	2.8	30	2.2
8	Essential Hypertension and Hypertensive Renal Disease	63	2.1	31	1.9	32	2.4
9	Intentional Self-harm (Suicide)	56	1.9	30	1.8	26	1.9
10	Nephritis, Nephrotic Syndrome and Nephrosis	28	0.9	14	0.9	14	1.0
	All Other Causes	457	15.4	247	15.1	210	15.7
	Total	2,971	100.0	1,635	100.0	1,336	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	12,339	45.5	5,503	42.6	6,836	48.1
2	Malignant Neoplasms	6,728	24.8	3,362	26.0	3,366	23.7
3	Influenza and Pneumonia	1,150	4.2	529	4.1	621	4.4
4	Chronic Lower Respiratory Diseases	865	3.2	347	2.7	518	3.6
5	Cerebrovascular Diseases	624	2.3	245	1.9	379	2.7
6	Accidents Except Poisoning by Psychoactive Substance	465	1.7	272	2.1	193	1.4
7	Diabetes Mellitus	457	1.7	247	1.9	210	1.5
8	Essential Hypertension and Hypertensive Renal Disease	316	1.2	165	1.3	151	1.1
9	Use of or Poisoning by Psychoactive Substance	313	1.2	227	1.8	86	0.6
10	Intentional Self-harm (Suicide)	252	0.9	195	1.5	57	0.4
	All Other Causes	3,622	13.4	1,822	14.1	1,800	12.7
	Total	27,131	100.0	12,914	100.0	14,217	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,802	34.3	2,077	31.8	2,725	36.5
2	Malignant Neoplasms	3,220	23.0	1,464	22.4	1,756	23.5
3	Diabetes Mellitus	645	4.6	265	4.1	380	5.1
4	Human Immunodeficiency Virus (HIV) Disease	583	4.2	356	5.4	227	3.0
5	Influenza and Pneumonia	540	3.9	222	3.4	318	4.3
6	Cerebrovascular Diseases	473	3.4	206	3.1	267	3.6
7	Chronic Lower Respiratory Diseases	360	2.6	169	2.6	191	2.6
8	Essential Hypertension and Hypertensive Renal Disease	326	2.3	134	2.0	192	2.6
9	Assault (Homicide)	323	2.3	287	4.4	36	0.5
10	Accidents Except Poisoning by Psychoactive Substance	216	1.5	146	2.2	70	0.9
	All Other Causes	2,518	18.0	1,215	18.6	1,303	17.5
	Total	14,006	100.0	6,541	100.0	7,465	100.0

Note: For each ethnic group, the ten leading causes of death for both sexes combined are arranged in decreasing order of frequency.

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

Table 6a. **Leading Causes of Premature Death in Specified Ethnic Groups* by Sex**
Age Under 65, New York City, 2008

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	423	22.4	229	19.4	194	27.6
2	Diseases of Heart	354	18.8	229	19.4	125	17.8
3	Human Immunodeficiency Virus (HIV) Disease	206	10.9	129	10.9	77	10.9
4	Use of or Poisoning by Psychoactive Substance	111	5.9	89	7.5	22	3.1
5	Viral Hepatitis	84	4.5	70	5.9	14	2.0
6	Diabetes Mellitus	73	3.9	36	3.0	37	5.3
7	Chronic Liver Disease and Cirrhosis	64	3.4	45	3.8	19	2.7
8	Assault (Homicide)	62	3.3	47	4.0	15	2.1
9	Accidents Except Poisoning by Psychoactive Substance	51	2.7	39	3.3	12	1.7
9	Chronic Lower Respiratory Diseases	51	2.7	26	2.2	25	3.6
	All Other Causes	406	21.5	242	20.5	164	23.3
	Total	1,885	100.0	1,181	100.0	704	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	468	23.8	214	16.7	254	36.8
2	Diseases of Heart	335	17.0	233	18.2	102	14.8
3	Accidents Except Poisoning by Psychoactive Substance	133	6.8	109	8.5	24	3.5
4	Human Immunodeficiency Virus (HIV) Disease	109	5.5	79	6.2	30	4.3
5	Use of or Poisoning by Psychoactive Substance	95	4.8	78	6.1	17	2.5
6	Chronic Liver Disease and Cirrhosis	88	4.5	76	5.9	12	1.7
7	Assault (Homicide)	77	3.9	67	5.2	10	1.4
8	Diabetes Mellitus	60	3.0	36	2.8	24	3.5
9	Cerebrovascular Diseases	53	2.7	31	2.4	22	3.2
10	Congenital Malformations, Deformations	52	2.6	30	2.3	22	3.2
	All Other Causes	499	25.3	326	25.5	173	25.1
	Total	1,969	100.0	1,279	100.0	690	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	350	38.3	201	34.7	149	44.6
2	Diseases of Heart	178	19.5	141	24.3	37	11.1
3	Accidents Except Poisoning by Psychoactive Substance	50	5.5	39	6.7	11	3.3
4	Intentional Self-harm (Suicide)	44	4.8	23	4.0	21	6.3
5	Cerebrovascular Diseases	25	2.7	10	1.7	15	4.5
6	Congenital Malformations, Deformations	20	2.2	14	2.4	6	1.8
6	Diabetes Mellitus	20	2.2	12	2.1	8	2.4
8	Influenza and Pneumonia	16	1.8	9	1.6	7	2.1
8	Assault (Homicide)	16	1.8	13	2.2	3	0.9
10	Chronic Liver Disease and Cirrhosis	13	1.4	10	1.7	3	0.9
10	Viral Hepatitis	13	1.4	8	1.4	5	1.5
	All Other Causes	169	18.5	100	17.2	69	20.7
	Total	914	100.0	580	100.0	334	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,945	34.8	994	28.3	951	45.7
2	Diseases of Heart	1,255	22.4	918	26.1	337	16.2
3	Use of or Poisoning by Psychoactive Substance	305	5.5	224	6.4	81	3.9
4	Accidents Except Poisoning by Psychoactive Substance	210	3.8	151	4.3	59	2.8
5	Intentional Self-harm (Suicide)	198	3.5	154	4.4	44	2.1
6	Chronic Liver Disease and Cirrhosis	139	2.5	99	2.8	40	1.9
7	Diabetes Mellitus	120	2.1	85	2.4	35	1.7
8	Human Immunodeficiency Virus (HIV) Disease	118	2.1	94	2.7	24	1.2
9	Cerebrovascular Diseases	93	1.7	52	1.5	41	2.0
10	Chronic Lower Respiratory Diseases	92	1.6	44	1.3	48	2.3
	All Other Causes	1,118	20.0	699	19.9	419	20.2
	Total	5,593	100.0	3,514	100.0	2,079	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,310	23.0	589	18.2	721	29.5
2	Diseases of Heart	1,236	21.7	725	22.3	511	20.9
3	Human Immunodeficiency Virus (HIV) Disease	540	9.5	327	10.1	213	8.7
4	Assault (Homicide)	318	5.6	283	8.7	35	1.4
5	Diabetes Mellitus	190	3.3	102	3.1	88	3.6
6	Use of or Poisoning by Psychoactive Substance	176	3.1	121	3.7	55	2.3
7	Cerebrovascular Diseases	171	3.0	95	2.9	76	3.1
8	Accidents Except Poisoning by Psychoactive Substance	159	2.8	118	3.6	41	1.7
9	Chronic Lower Respiratory Diseases	116	2.0	64	2.0	52	2.1
10	Influenza and Pneumonia	113	2.0	65	2.0	48	2.0
	All Other Causes	1,359	23.9	755	23.3	604	24.7
	Total	5,688	100.0	3,244	100.0	2,444	100.0

Note: For each ethnic group, the ten leading causes of death for both sexes combined are arranged in decreasing order of frequency.

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

Table 7. Deaths and Death Rates per 100,000 Population From Selected Causes by Ethnic Group and Sex, New York City, 2008

Cause of Death	Total			Ethnic Group*												Sex					
				Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Unknown	Male			Female		
	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate
All Causes**	54,193	6.5	6.1	9,329	4.0	5.3	27,131	9.2	6.2	14,006	7.1	7.5	2,971	3.0	3.7	756	26,342	6.6	7.4	27,851	6.4	5.2
Diseases of Heart	21,192	253.4	235.5	2,775	120.0	170.5	12,339	416.9	259.4	4,802	244.4	263.2	1,002	100.3	131.6	274	9,587	240.0	278.2	11,605	265.7	202.9
Malignant Neoplasms	13,047	156.0	151.6	2,126	91.9	120.3	6,728	227.3	168.2	3,220	163.9	172.2	823	82.4	94.8	150	6,476	162.1	182.9	6,571	150.4	131.0
Human Immunodeficiency Virus (HIV) Disease	1,073	12.8	12.1	335	14.5	15.1	129	4.4	3.9	583	29.7	28.6	10	1.0	1.0	16	702	17.6	16.8	371	8.5	8.0
Influenza and Pneumonia	2,300	27.5	25.5	414	17.9	26.1	1,150	38.9	23.7	540	27.5	29.9	163	16.3	22.3	33	1,044	26.1	30.8	1,256	28.8	21.9
Cereborvascular Diseases	1,512	18.1	17.1	276	11.9	16.3	624	21.1	13.8	473	24.1	25.4	113	11.3	14.3	26	633	15.8	17.9	879	20.1	16.2
Chronic Lower Respiratory Diseases	1,605	19.2	18.4	288	12.4	17.4	865	29.2	19.7	360	18.3	19.5	76	7.6	10.5	16	704	17.6	20.5	901	20.6	16.9
Chronic Liver Disease and Cirrhosis	542	6.5	6.2	212	9.2	10.7	197	6.7	5.5	104	5.3	5.2	19	1.9	1.9	10	366	9.2	9.2	176	4.0	3.7
Diabetes Mellitus	1,643	19.6	19.0	419	18.1	24.8	457	15.4	10.9	645	32.8	35.3	99	9.9	12.6	23	763	19.1	21.5	880	20.1	16.9
Mental Disorders due to Substance Use and Accidental Drug Poisoning	736	8.8	8.4	215	9.3	9.5	313	10.6	9.9	188	9.6	9.1	5	0.5	0.5	15	548	13.7	13.1	188	4.3	4.1
Accidents Except Poisoning by Psychoactive Substance	1,044	12.5	12.1	254	11.0	12.4	465	15.7	12.6	216	11.0	11.1	91	9.1	10.3	18	673	16.8	17.5	371	8.5	7.5
Intentional Self-harm (Suicide)	473	5.7	5.5	88	3.8	3.9	252	8.5	7.7	65	3.3	3.3	56	5.6	5.5	12	348	8.7	8.7	125	2.9	2.7
Assault (Homicide)***	558	6.7	6.7	144	6.2	6.0	57	1.9	2.0	323	16.4	16.7	18	1.8	1.7	16	477	11.9	11.7	81	1.9	1.9
Events of Undetermined Intent	192	2.3	2.3	32	1.4	1.4	86	2.9	2.7	52	2.6	2.6	13	1.3	1.3	9	128	3.2	3.1	64	1.5	1.5

* Multiple races were introduced in January 2003 when New York City implemented a new death certificate form. See Technical Notes: Multiple Race.

** For All Causes rates are per 1,000 population and all other selected causes rates are per 100,000 population. Population data are from 2008 unchallenged vintage Census Bureau's estimates.

*** In 2002 and earlier years, deaths from legal interventions were included in Homicide. Since then, they are excluded from this table and are listed as a separate cause of death in Tables 4 and 16.

Table 8. **Deaths and Death Rates* per 100,000 Population from Selected Causes by Community District of Residence, New York City, 2008**

Community District of Residence	Population 2008 Census	All Causes (Rate per 1,000) No.	All Causes (Rate per 1,000) Crude Rate	All Causes (Rate per 1,000) Age-Adjusted Rate	Heart Diseases No.	Heart Diseases Crude Rate	Malignant Neoplasms No.	Malignant Neoplasms Crude Rate	HIV Disease No.	HIV Disease Crude Rate	Influenza and Pneumonia No.	Influenza and Pneumonia Crude Rate	Cerebro-vascular Diseases No.	Cerebro-vascular Diseases Crude Rate	Chronic Lower Respiratory Diseases No.	Chronic Lower Respiratory Diseases Crude Rate	Chronic Liver Disease & Cirrhosis No.	Chronic Liver Disease & Cirrhosis Crude Rate	Diabetes Mellitus No.	Diabetes Mellitus Crude Rate	Mental Disorders due to Substance Use & Accidental Poisoning No.	Mental Disorders due to Substance Use & Accidental Poisoning Crude Rate	Accidents Except Drug Poisoning No.	Accidents Except Drug Poisoning Crude Rate	Intentional Self-harm (Suicide) No.	Intentional Self-harm (Suicide) Crude Rate	Assault** (Homicide) No.	Assault** (Homicide) Crude Rate	Events of Undetermined Intent No.	Events of Undetermined Intent Crude Rate
ALL DEATH EVENTS	8,363,710	54,193	6.5	6.1	21,192	253.4	13,047	156.0	1,073	12.8	2,300	27.5	1,512	18.1	1,605	19.2	542	6.5	1,643	19.6	736	8.8	1,044	12.5	473	5.7	558	6.7	192	2.3
MANHATTAN	1,634,795	9,868	6.0	5.5	3,104	189.9	2,618	160.1	268	16.4	483	29.5	341	20.9	347	21.2	98	6.0	297	18.2	130	8.0	168	10.3	105	6.4	58	3.5	30	1.8
Battery Park, Tribeca (01)	39,665	193	4.9	6.4	60	151.3	46	116.0	2	5.0	7	17.6	8	20.2	8	20.2	4	10.1	4	10.1	3	7.6	4	10.1	6	15.1	–	–	1	2.5
Greenwich Village, SOHO (02)	104,133	443	4.3	4.4	144	138.3	118	113.3	9	8.6	22	21.1	20	19.2	17	16.3	2	1.9	3	2.9	6	5.8	7	6.7	3	2.9	–	–	1	1.0
Lower East Side (03)	181,143	1,252	6.9	5.9	370	204.3	313	172.8	48	26.5	59	32.6	40	22.1	45	24.8	16	8.8	39	21.5	15	8.3	24	13.2	11	6.1	7	3.9	3	1.7
Chelsea, Clinton (04)	97,502	580	5.9	5.8	178	182.6	152	155.9	15	15.4	32	32.8	23	23.6	28	28.7	8	8.2	13	13.3	10	10.3	19	19.5	12	12.3	2	2.1	3	3.1
Midtown Business District (05)	48,406	247	5.1	5.4	65	134.3	67	138.4	13	26.9	11	22.7	8	16.5	11	22.7	2	4.1	2	4.1	7	14.5	5	10.3	8	16.5	1	2.1	–	–
Murray Hill (06)	150,763	784	5.2	4.4	256	169.8	244	161.8	8	5.3	41	27.2	22	14.6	34	22.6	7	4.6	9	6.0	8	5.3	14	9.3	7	4.6	–	–	2	1.3
Upper West Side (07)	231,103	1,368	5.9	5.2	452	195.6	386	167.0	26	11.3	85	36.8	57	24.7	41	17.7	8	3.5	24	10.4	13	5.6	19	8.2	20	8.7	6	2.6	4	1.7
Upper East Side (08)	247,309	1,324	5.4	4.6	474	191.7	390	157.7	14	5.7	71	28.7	47	19.0	43	17.4	10	4.0	12	4.9	12	4.9	19	7.7	15	6.1	2	0.8	4	1.6
Manhattanville (09)	108,456	659	6.1	6.3	210	193.6	146	134.6	28	25.8	33	30.4	23	21.2	21	19.4	6	5.5	33	30.4	12	11.1	7	6.5	4	3.7	7	6.5	4	3.7
Central Harlem (10)	99,924	937	9.4	8.9	265	265.2	231	231.2	50	50.0	35	35.0	25	25.0	29	29.0	10	10.0	52	52.0	16	16.0	13	13.0	7	7.0	14	14.0	6	6.0
East Harlem (11)	115,980	1,005	8.7	8.1	288	248.3	250	215.6	40	34.5	39	33.6	29	25.0	32	27.6	12	10.3	54	46.6	17	14.7	17	14.7	2	1.7	16	13.8	1	0.9
Washington Heights (12)	203,087	1,029	5.1	4.9	326	160.5	263	129.5	15	7.4	44	21.7	38	18.7	37	18.2	13	6.4	45	22.2	11	5.4	20	9.8	10	4.9	3	1.5	1	0.5
BRONX	1,391,903	8,666	6.2	6.7	2,838	203.9	1,938	139.2	305	21.9	382	27.4	273	19.6	269	19.3	100	7.2	379	27.2	179	12.9	151	10.8	65	4.7	134	9.6	21	1.5
Mott Haven (01)	90,614	546	6.0	7.5	145	160.0	103	113.7	29	32.0	23	25.4	19	21.0	17	18.8	5	5.5	21	23.2	16	17.7	11	12.1	4	4.4	17	18.8	–	–
Hunts Point (02)	51,418	259	5.0	6.4	71	138.1	60	116.7	16	31.1	9	17.5	8	15.6	8	15.6	8	15.6	13	25.3	8	15.6	2	3.9	3	5.8	2	3.9	1	1.9
Morrisania (03)	74,307	455	6.1	8.4	109	146.7	101	135.9	38	51.1	13	17.5	9	12.1	17	22.9	9	12.1	22	29.6	15	20.2	10	13.5	6	8.1	15	20.2	2	2.7
Concourse, Highbridge (04)	149,183	832	5.6	7.7	222	148.8	181	121.3	52	34.9	33	22.1	23	15.4	22	14.7	17	11.4	33	22.1	20	13.4	19	12.7	4	2.7	23	15.4	5	3.4
University/Morris Heights (05)	134,941	545	4.0	6.5	131	97.1	118	87.4	44	32.6	21	15.6	24	17.8	14	10.4	8	5.9	36	26.7	18	13.3	14	10.4	6	4.4	12	8.9	2	1.5
East Tremont (06)	81,885	415	5.1	6.5	104	127.0	86	105.0	21	25.6	23	28.1	20	24.4	8	9.8	7	8.5	19	23.2	18	22.0	8	9.8	1	1.2	11	13.4	–	–
Fordham (07)	147,182	725	4.9	6.2	243	165.1	170	115.5	14	9.5	24	16.3	20	13.6	32	21.7	7	4.8	34	23.1	12	8.2	19	12.9	11	7.5	12	8.2	2	1.4
Riverdale (08)	99,149	1,060	10.7	6.8	437	440.8	210	211.8	9	9.1	71	71.6	30	30.3	30	30.3	6	6.1	44	44.4	11	11.1	12	12.1	8	8.1	1	1.0	1	1.0
Unionport, Soundview (09)	179,762	1,016	5.7	6.3	341	189.7	239	133.0	34	18.9	43	23.9	37	20.6	26	14.5	14	7.8	48	26.7	20	11.1	21	11.7	9	5.0	11	6.1	3	1.7
Throgs Neck (10)	115,027	1,076	9.4	6.7	405	352.1	289	251.2	9	7.8	42	36.5	30	26.1	37	32.2	6	5.2	40	34.8	19	16.5	11	9.6	7	6.1	5	4.3	2	1.7
Pelham Parkway (11)	110,251	886	8.0	6.3	336	304.8	199	180.5	8	7.3	41	37.2	17	15.4	31	28.1	7	6.3	40	36.3	14	12.7	10	9.1	2	1.8	8	7.3	1	0.9
Williamsbridge (12)	152,704	895	5.9	5.8	309	202.4	192	125.7	31	20.3	43	28.2	37	24.2	28	18.3	6	3.9	36	23.6	8	5.2	14	9.2	4	2.6	17	11.1	2	1.3
BROOKLYN	2,556,598	15,790	6.2	5.9	7,001	273.8	3,443	134.7	318	12.4	621	24.3	387	15.1	416	16.3	148	5.8	511	20.0	172	6.7	292	11.4	130	5.1	204	8.0	53	2.1
Williamsburg, Greenpoint (01)	172,877	850	4.9	5.7	290	167.7	218	126.1	19	11.0	46	26.6	20	11.6	25	14.5	21	12.1	25	14.5	14	8.1	24	13.9	9	5.2	7	4.0	2	1.2
Fort Greene, Brooklyn Heights (02)	101,371	670	6.6	6.6	290	286.1	156	153.9	11	10.9	41	40.4	14	13.8	12	11.8	6	5.9	24	23.7	5	4.9	13	12.8	4	3.9	4	3.9	4	3.9
Bedford Stuyvesant (03)	144,801	1,052	7.3	7.5	364	251.4	214	147.8	56	38.7	49	33.8	30	20.7	37	25.6	11	7.6	54	37.3	16	11.0	14	9.7	13	9.0	26	18.0	2	1.4
Bushwick (04)	109,736	522	4.8	6.4	131	119.4	109	99.3	18	16.4	25	22.8	19	17.3	22	20.0	8	7.3	35	31.9	15	13.7	11	10.0	3	2.7	11	10.0	2	1.8
East New York (05)	177,511	1,066	6.0	7.1	382	215.2	228	128.4	37	20.8	38	21.4	31	17.5	27	15.2	19	10.7	52	29.3	10	5.6	17	9.6	13	7.3	20	11.3	4	2.3
Park Slope (06)	108,498	628	5.8	6.8	252	232.3	135	124.4	9	8.3	35	32.3	11	10.1	16	14.7	7	6.5	21	19.4	4	3.7	12	11.1	10	9.2	6	5.5	4	3.7
Sunset Park (07)	126,711	526	4.2	4.8	220	173.6	120	94.7	6	4.7	29	22.9	12	9.5	14	11.0	17	13.4	8	6.3	7	5.5	10	7.9	5	3.9	2	1.6	3	2.4
Crown Heights North (08)	95,401	623	6.5	6.6	218	228.5	120	125.8	27	28.3	38	39.8	29	30.4	21	22.0	6	6.3	25	26.2	13	13.6	8	8.4	3	3.1	17	17.8	2	2.1
Crown Heights South (09)	102,881	619	6.0	6.4	209	203.1	139	135.1	20	19.4	24	23.3	27	26.2	21	20.4	4	3.9	43	41.8	4	3.9	8	7.8	8	7.8	15	14.6	4	3.9
Bay Ridge (10)	131,370	934	7.1	5.5	477	363.1	191	145.4	5	3.8	34	25.9	16	12.2	42	32.0	2	1.5	25	19.0	6	4.6	22	16.7	6	4.6	–	–	–	–
Bensonhurst (11)	187,874	1,289	6.9	5.2	678	360.9	306	162.9	1	0.5	42	22.4	11	5.9	35	18.6	4	2.1	20	10.6	12	6.4	27	14.4	15	8.0	9	4.8	4	2.1
Borough Park (12)	197,616	1,014	5.1	4.7	556	281.4	219	110.8	–	–	40	20.2	15	7.6	21	10.6	2	1.0	19	9.6	5	2.5	18	9.1	5	2.5	5	2.5	5	2.5
Coney Island (13)	112,989	1,188	10.5	6.5	723	639.9	217	192.1	7	6.2	29	25.7	21	18.6	16	14.2	7	6.2	12	10.6	13	11.5	16	14.2	9	8.0	6	5.3	3	2.7
Flatbush, Midwood (14)	171,171	932	5.4	5.4	449	262.3	192	112.2	19	11.1	39	22.8	16	9.3	12	7.0	5	2.9	20	11.7	9	5.3	16	9.3	12	7.0	12	7.0	3	1.8
Sheepshead Bay (15)	171,932	1,292	7.5	5.2	732	425.7	301	175.1	4	2.3	40	23.3	19	11.1	24	14.0	7	4.1	16	9.3	11	6.4	23	13.4	9	5.2	6	3.5	3	1.7
Brownsville (16)	84,993	619	7.3	8.8	210	247.1	118	138.8	37	43.5	13	15.3	20	23.5	23	27.1	8	9.4	28	32.9	13	15.3	10	11.8	–	–	24	28.2	1	1.2
East Flatbush (17)	161,958	798	4.9	5.2	276	170.4	193	119.2	25	15.4	25	15.4	38	23.5	21	13.0	5	3.1	43	26.6	5	3.1	19	11.7	1	0.6	14	8.6	1	0.6
Canarsie (18)	196,909	1,167	5.9	5.9	543	275.8	267	135.6	17	8.6	34	17.3	38	19.3	27	13.7	9	4.6	41	20.8	10	5.1	24	12.2	5	2.5	20	10.2	6	3.0

Continued on next page.

Table 8. Deaths and Death Rates* per 100,000 Population from Selected Causes by Community District of Residence, New York City, 2008 (Continued)

Community District of Residence	Population 2008 Census	All Causes (Rate per 1,000) No.	All Causes (Rate per 1,000) Crude Rate	All Causes (Rate per 1,000) Age-Adjusted Rate	Heart Diseases No.	Heart Diseases Crude Rate	Malignant Neoplasms No.	Malignant Neoplasms Crude Rate	HIV Disease No.	HIV Disease Crude Rate	Influenza and Pneumonia No.	Influenza and Pneumonia Crude Rate	Cerebro-vascular Diseases No.	Cerebro-vascular Diseases Crude Rate	Chronic Lower Respiratory Diseases No.	Chronic Lower Respiratory Diseases Crude Rate	Chronic Liver Disease & Cirrhosis No.	Chronic Liver Disease & Cirrhosis Crude Rate	Diabetes Mellitus No.	Diabetes Mellitus Crude Rate	Mental Disorders due to Substance Use & Accidental Poisoning No.	Mental Disorders due to Substance Use & Accidental Poisoning Crude Rate	Accidents Except Drug Poisoning No.	Accidents Except Drug Poisoning Crude Rate	Intentional Self-harm (Suicide) No.	Intentional Self-harm (Suicide) Crude Rate	Assault** (Homicide) No.	Assault** (Homicide) Crude Rate	Events of Undetermined Intent No.	Events of Undetermined Intent Crude Rate
QUEENS	2,293,007	12,393	5.4	4.8	5,515	240.5	2,716	118.4	105	4.6	596	26.0	338	14.7	388	16.9	113	4.9	313	13.7	125	5.5	235	10.2	109	4.8	98	4.3	40	1.7
Astoria, Long Island City (01)	210,149	987	4.7	4.7	498	237.0	211	100.4	10	4.8	36	17.1	24	11.4	23	10.9	7	3.3	16	7.6	18	8.6	22	10.5	9	4.3	7	3.3	3	1.4
Sunnyside, Woodside (02)	115,906	486	4.2	4.0	211	182.0	106	91.5	1	0.9	21	18.1	19	16.4	14	12.1	2	1.7	11	9.5	8	6.9	11	9.5	4	3.5	2	1.7	–	–
Jackson Heights (03)	181,944	667	3.7	3.7	287	157.7	146	80.2	10	5.5	45	24.7	19	10.4	16	8.8	5	2.7	9	4.9	–	–	12	6.6	8	4.4	4	2.2	3	1.6
Elmhurst, Corona (04)	183,845	614	3.3	3.8	245	133.3	147	80.0	5	2.7	46	25.0	14	7.6	13	7.1	4	2.2	12	6.5	6	3.3	10	5.4	12	6.5	4	2.2	3	1.6
Ridgewood, Glendale (05)	162,180	1,053	6.5	5.7	440	271.3	250	154.1	7	4.3	48	29.6	29	17.9	36	22.2	16	9.9	29	17.9	14	8.6	18	11.1	13	8.0	7	4.3	1	0.6
Rego Park, Forest Hills (06)	116,238	898	7.7	4.8	432	371.7	192	165.2	3	2.6	55	47.3	23	19.8	29	24.9	2	1.7	20	17.2	7	6.0	18	15.5	4	3.4	3	2.6	5	4.3
Flushing (07)	263,057	1,637	6.2	4.4	811	308.3	359	136.5	2	0.8	74	28.1	42	16.0	57	21.7	8	3.0	41	15.6	15	5.7	24	9.1	15	5.7	5	1.9	2	0.8
Fresh Meadows, Briarwood (08)	151,073	920	6.1	4.8	388	256.8	208	137.7	7	4.6	45	29.8	27	17.9	30	19.9	7	4.6	22	14.6	5	3.3	18	11.9	6	4.0	4	2.6	1	0.7
Woodhaven (09)	146,866	600	4.1	4.6	231	157.3	130	88.5	8	5.4	33	22.5	15	10.2	20	13.6	10	6.8	20	13.6	7	4.8	11	7.5	8	5.4	8	5.4	5	3.4
Howard Beach (10)	129,247	666	5.2	5.2	275	212.8	141	109.1	6	4.6	35	27.1	19	14.7	25	19.3	5	3.9	22	17.0	7	5.4	21	16.2	9	7.0	4	3.1	2	1.5
Bayside (11)	118,878	617	5.2	3.6	296	249.0	145	122.0	3	2.5	26	21.9	16	13.5	16	13.5	5	4.2	11	9.3	5	4.2	14	11.8	5	4.2	–	–	2	1.7
Jamaica, St. Albans (12)	224,249	1,335	6.0	5.6	501	223.4	270	120.4	24	10.7	51	22.7	52	23.2	46	20.5	21	9.4	42	18.7	17	7.6	31	13.8	7	3.1	27	12.0	8	3.6
Queens Village (13)	193,864	884	4.6	4.3	352	181.6	220	113.5	8	4.1	42	21.7	24	12.4	26	13.4	10	5.2	31	16.0	7	3.6	14	7.2	4	2.1	9	4.6	3	1.5
The Rockaways (14)	108,314	1,027	9.5	7.8	546	504.1	191	176.3	11	10.2	39	36.0	15	13.8	37	34.2	11	10.2	27	24.9	9	8.3	11	10.2	5	4.6	14	12.9	2	1.8
STATEN ISLAND	487,407	3,455	7.1	6.9	1,670	342.6	825	169.3	26	5.3	110	22.6	72	14.8	105	21.5	24	4.9	74	15.2	55	11.3	69	14.2	24	4.9	22	4.5	20	4.1
Port Richmond (01)	185,146	1,250	6.8	7.0	577	311.6	270	145.8	19	10.3	54	29.2	33	17.8	38	20.5	7	3.8	29	15.7	25	13.5	24	13.0	6	3.2	11	5.9	8	4.3
Willowbrook, South Beach (02)	140,060	1,172	8.4	6.9	610	435.5	262	187.1	3	2.1	38	27.1	24	17.1	26	18.6	8	5.7	26	18.6	11	7.9	24	17.1	10	7.1	8	5.7	6	4.3
Tottenville (03)	162,201	1,031	6.4	7.0	482	297.2	292	180.0	4	2.5	18	11.1	15	9.2	41	25.3	9	5.5	19	11.7	19	11.7	21	12.9	8	4.9	3	1.8	6	3.7
NON-RESIDENTS	–	3,786	–	–	1,004	–	1,474	–	37	–	104	–	98	–	79	–	55	–	68	–	54	–	107	–	34	–	35	–	8	–
RESIDENCE UNKNOWN	–	235	–	–	60	–	33	–	14	–	4	–	3	–	1	–	4	–	1	–	21	–	22	–	6	–	7	–	20	–

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

* Population data by community district are based on 2008 unchallenged vintage Census Bureau's estimates.

** In 2002 and earlier years, deaths from legal interventions were included in Homicide. Since then, they are excluded from this table and are listed as a separate cause of death in Tables 4 and 16.

Table 9.

Deaths by Place* of Death
New York City, 2002-2008

Place of Death	2002		2003		2004		2005		2006		2007		2008	
	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	59,651	100.0	59,213	100.0	57,466	100.0	57,068	100.0	55,391	100.0	54,073	100.0	54,193	100.0
Home	10,944	18.3	10,843	18.3	10,342	18.0	10,590	18.6	10,603	19.1	10,213	18.9	10,456	19.3
Hospital														
Voluntary	33,565	56.3	33,307	56.2	32,630	56.8	32,022	56.1	30,575	55.2	29,859	55.2	29,575	54.6
Proprietary	740	1.2	737	1.2	738	1.3	799	1.4	644	1.2	597	1.1	574	1.1
Municipal	5,362	9.0	5,277	8.9	4,931	8.6	4,715	8.3	4,635	8.4	4,737	8.8	4,621	8.5
Other Government	715	1.2	689	1.2	632	1.1	560	1.0	575	1.0	606	1.1	586	1.1
Nursing Home	6,735	11.3	6,790	11.5	6,659	11.6	6,748	11.8	6,644	12.0	6,370	11.8	6,479	12.0
Other Specified Place	1,590	2.7	1,570	2.7	1,534	2.7	1,634	2.9	1,715	3.1	1,691	3.1	1,902	3.5

* Hospital includes residential units, hospices, and other special facilities within the hospital. Hospice care may be provided at any place. See Technical Notes: Geographic Units, Place of Death.

Table 10.

Deaths by Ancestry* and Borough of Residence
New York City, 2008

Ancestry	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Total	54,193	9,868	8,666	15,790	12,393	3,455	3,786	235
Hispanic								
Puerto Rican	4,945	1,035	1,897	1,242	462	136	154	19
Dominican	1,445	531	445	221	205	6	37	–
Colombian	246	27	14	20	165	6	14	–
Ecuadorian	344	49	68	69	138	6	12	2
Mexican	269	44	64	76	60	8	16	1
Cuban	449	150	86	59	126	8	20	–
Other Hispanic	1,631	294	440	427	327	42	81	20
North, Central, and South American								
African American	10,929	2,222	2,374	3,700	1,961	219	409	44
American	11,548	2,836	1,197	2,464	2,728	916	1,382	25
Guyanese	634	10	58	247	295	1	23	–
Haitian	547	33	18	327	137	4	28	–
Jamaican	719	32	203	342	105	4	32	1
Trinidadian	282	10	14	190	53	1	13	1
All Other North, Central, and South American	984	84	148	553	137	18	44	–
European								
English	152	29	10	23	42	29	19	–
German	954	172	102	107	383	106	81	3
Irish	2,082	213	230	389	656	334	259	1
Italian	5,066	277	448	1,537	1,230	1,145	422	7
Polish	965	103	87	325	306	65	79	–
Russian	756	70	40	434	164	26	21	1
Other European	2,914	378	173	1,109	934	163	151	6
Asian								
Asian Indian	224	16	9	25	125	14	35	–
Bangladeshi	88	4	13	27	41	1	2	–
Chinese	1,780	580	31	533	544	24	66	2
Filipino	180	20	14	19	87	17	22	1
Korean	278	10	10	12	213	8	24	1
Pakistani	104	2	5	34	42	4	14	3
Other Asian	465	83	22	122	161	21	54	2
Other								
Jewish or Hebrew	1,499	161	130	813	231	17	144	3
Other or Not Stated	1,714	393	316	344	335	106	128	92

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

Table 11. Selected Characteristics of Deaths Due to Fatal Occupational Injuries New York City, 2008

Characteristic	All Deaths	Sex		Age Group in Years				
		Male	Female	<25	25-34	35-44	45-54	55+
Total	90	81	9	3	14	18	30	25
Selected Events								
Transportation incident	10	9	1	0	0	2	4	4
Assaults and violent acts	26	21	5	1	5	4	4	12
Homicide	18	15	3	1	4	2	3	8
Shooting	10	10	0	1	3	1	0	5
Falls	29	27	2	0	3	6	11	9
Selected Industries *								
Construction	31	31	0	0	8	6	11	6
Taxicabs	3	2	1	0	0	1	0	2
Grocery stores	1	0	1	0	1	0	0	0
Eating and drinking places	5	5	0	1	0	1	1	2
Police and fire protection	2	2	0	0	0	1	1	0
Ethnic Group								
Non-Hispanic White	47	44	3	2	5	11	16	13
Non-Hispanic Black	12	11	1	0	4	1	5	2
Hispanic	21	17	4	0	5	6	5	5
Asian and Pacific Islander	10	9	1	1	0	0	4	5

* Beginning in 2003, coding for industries was changed from Standard Industrial Classification (SIC) to North American Industry Classification System (NAICS). See Technical Notes: Fatal Occupational Injuries. Data reported in Table 11 and Figures 9 and 10 include all fatal occupational injuries occuring in New York City, regardless of the residence of decedents or location of the deaths (i.e. whether deaths occurred inside or outside of NYC).

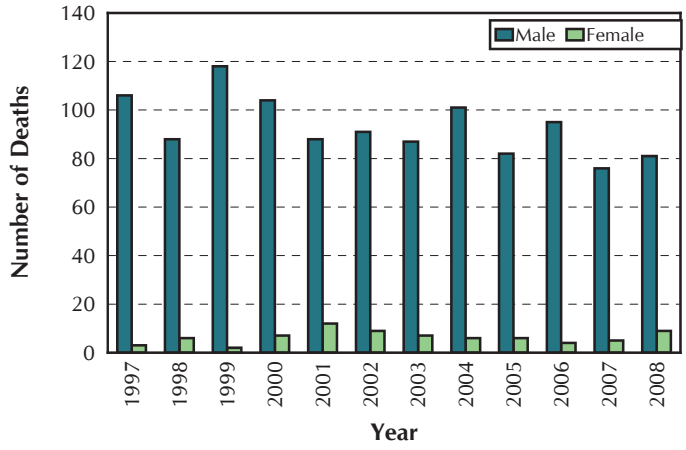


Figure 9. Fatal Occupational Injuries by Sex New York City, 1997-2008

Fatal occupational injuries fluctuated but have remained close to 100 deaths per year from 2001 through 2006. There were 90 fatal occupational injuries in 2008, an increase from 81 in 2007. Males have a much higher rate of fatal injuries than females, accounting for about 90% of all occupational injury deaths during the past five years.

World Trade Center (WTC) disaster deaths are homicides and are not included in this figure for the year 2001. See 2002 Annual Summary's Special Section on WTC deaths.

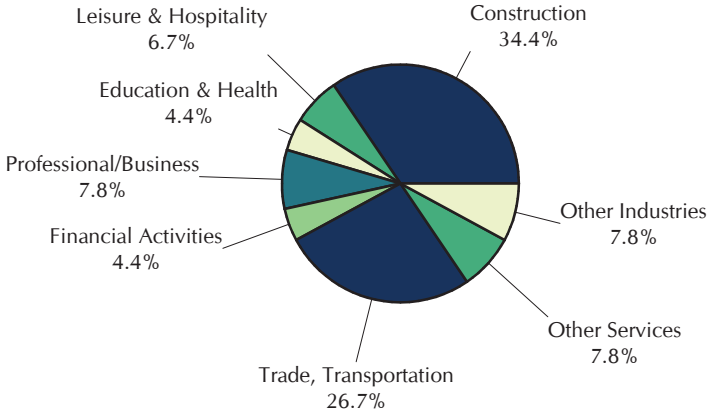


Figure 10. Fatal Occupational Injuries by Selected Industries New York City, 2008

In 2008, 34.4% of all fatal occupational injuries in New York City occurred in the construction industry, an increase of almost 5 percentage points from 2007. This industry continued to record the highest number of fatal work injuries among all industries in NYC and the nation. Of the 31 deaths in the construction industry, 16 (51.6%) were due to falls. Other industries in New York City that also had high numbers of fatal occupational injuries in 2008 were Trade, Transportation and Utilities with 26.7% of occupational deaths, and Professional and Business Services with 7.8%.

Table 12. **Deaths by Birthplace and Borough of Residence**
New York City, 2008

Birthplace*	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Total	54,193	9,868	8,666	15,790	12,393	3,455	3,786	235
Bangladesh	97	4	14	29	47	1	2	–
China	1,568	529	24	466	473	22	51	3
Colombia	245	27	17	20	163	6	12	–
Cuba	439	148	85	54	127	8	17	–
Dominican Republic	1,406	523	439	209	197	6	32	–
Ecuador	341	50	67	68	136	6	12	2
El Salvador	63	6	7	13	29	1	6	1
Germany	444	132	49	54	154	18	37	–
Guyana	717	18	66	289	314	2	28	–
Haiti	644	39	21	398	147	4	35	–
Honduras	110	21	31	34	13	9	2	–
India	231	18	8	27	128	17	33	–
Ireland	314	48	81	38	98	19	30	–
Israel	102	9	6	43	23	6	15	–
Italy	1,165	59	153	389	322	156	85	1
Jamaica	1,089	59	294	462	219	6	47	2
Korea	270	8	10	11	209	7	24	1
Mexico	233	37	57	66	49	7	16	1
Pakistan	91	2	5	29	38	3	12	2
Philippines	188	21	14	22	90	18	22	1
Poland	850	107	79	370	214	27	53	–
Puerto Rico	4,064	898	1,604	1,017	331	96	106	12
Russia	524	62	30	292	105	14	18	3
Trinidad and Tobago	457	27	40	277	90	5	17	1
Ukraine	998	39	20	769	126	31	13	–
United States	31,267	5,968	4,584	8,271	6,908	2,750	2,716	70
Other	4,889	720	453	1,799	1,406	171	332	8
Not Stated	1,387	289	408	274	237	39	13	127

* Beginning in 2006, U.S. Virgin Islands and Guam are included in United States, a change from 1996-2005 when those two birthplaces were included in the "Other" category.

Table 13. **Deaths by Birthplace and Age**
New York City, 2008

Birthplace*	Total	Age in Years								
		<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	54,193	951	589	1,033	1,951	4,561	7,246	8,978	13,157	15,727
Bangladesh	97	–	3	5	7	19	20	28	11	4
China	1,568	2	5	15	29	88	127	252	506	544
Colombia	245	–	1	3	8	29	37	55	58	54
Cuba	439	–	–	1	2	15	37	73	156	155
Dominican Republic	1,406	2	10	44	67	147	245	285	343	263
Ecuador	341	2	9	19	20	41	58	60	72	60
El Salvador	63	–	1	5	2	16	7	10	11	11
Germany	444	–	–	1	4	6	33	41	105	254
Guyana	717	3	7	21	33	84	127	151	161	130
Haiti	644	–	–	7	16	84	93	149	144	151
Honduras	110	–	3	1	10	3	24	27	21	21
India	231	1	–	6	9	27	47	52	55	34
Ireland	314	–	–	2	3	10	24	47	95	133
Israel	102	2	–	2	3	11	23	24	27	10
Italy	1,165	–	–	2	5	24	69	173	362	530
Jamaica	1,089	–	11	31	52	93	171	217	253	261
Korea	270	–	–	7	7	24	44	58	55	75
Mexico	233	3	20	41	57	42	26	19	15	10
Pakistan	91	2	5	4	8	17	22	20	10	3
Philippines	188	3	1	2	8	19	34	45	31	45
Poland	850	–	–	4	14	43	68	52	153	516
Puerto Rico	4,064	1	11	27	82	257	763	964	1,028	931
Russia	524	–	5	8	6	24	47	69	127	238
Trinidad and Tobago	457	1	9	13	24	54	97	89	93	77
Ukraine	998	–	4	6	17	21	79	146	336	389
United States	31,267	918	438	623	1,221	2,796	4,055	4,801	7,402	9,013
Other	4,889	8	44	95	158	364	589	778	1,252	1,601
Not Stated	1,387	3	2	38	79	203	280	293	275	214

* Beginning in 2006, U.S. Virgin Islands and Guam are included in United States, a change from 1996-2005 when those two birthplaces were included in the "Other" category.

Table 14. Accidents

Type	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	1,651	22	10	11	3	9	4	31	6	64	18	165	39	179	53	250	99	171	69	91	51	128	178
Motor vehicle except injury to pedal cyclist	299	-	1	4	1	3	1	10	2	22	10	43	12	24	5	21	12	24	17	21	23	18	25
Injury to pedestrian	171	-	-	2	1	3	1	3	1	6	4	10	6	7	3	14	7	18	12	19	19	14	21
Injury to occupant	53	-	-	1	-	-	-	4	1	6	1	19	2	11	1	5	-	1	1	-	-	-	-
Other motor vehicle accidents	75	-	1	1	-	-	-	3	-	10	5	14	4	6	1	2	5	5	4	2	4	4	4
Pedal cyclist injured in transport accidents	23	-	-	1	-	2	-	-	-	3	1	3	2	1	-	4	-	4	-	1	-	1	-
Collision with motor vehicle	21	-	-	1	-	2	-	-	-	3	1	3	1	1	-	4	-	3	-	1	-	1	-
Other pedal cyclist accidents	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
Railway (includes subway)	14	-	-	-	-	-	-	-	-	1	-	3	-	-	1	4	-	2	-	2	-	1	-
Other land transport accidents	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Water transport accidents	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air and space transport accidents	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other transport accidents or sequelae	14	-	-	-	-	-	-	-	-	2	1	-	-	1	-	5	1	2	-	1	1	-	-
Fall	388	2	-	1	1	-	-	3	1	5	-	14	2	16	3	31	8	34	11	35	12	92	117
Firearm discharge	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and submersion	8	1	-	1	-	-	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	1
Smoke, fire, and flames	75	1	2	3	1	3	1	-	-	3	-	3	2	5	1	4	3	8	6	8	5	6	10
Poisoning by noxious substances	667	-	-	-	-	-	-	15	2	22	5	86	18	121	39	157	72	81	24	13	6	4	2
Poisoning by psychoactive substances*	607	-	-	-	-	-	-	12	2	16	5	79	18	114	36	139	69	73	22	13	5	2	2
Poisoning by other noxious substances	60	-	-	-	-	-	-	3	-	6	-	7	-	7	3	18	3	8	2	-	1	2	-
Exposure to excessive natural heat	10	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	2	3	2
Exposure to excessive natural cold	11	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	2	-	3	2	-	-
Other nontransport accidents	141	18	7	1	-	1	1	2	-	5	1	12	2	10	3	22	2	13	10	7	-	3	21

*See Technical Notes: Drug Related Deaths.

Table 15. Intentional Self-harm (Suicide)

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	473	-	-	-	-	-	2	12	4	23	4	57	28	65	28	84	23	48	13	40	13	19	10
Poisoning by noxious substances	80	-	-	-	-	-	-	-	1	2	-	9	3	6	10	22	6	8	2	6	3	1	1
Hanging, strangulation, and suffocation	157	-	-	-	-	-	2	4	2	6	2	15	13	21	8	23	9	13	7	15	3	9	5
Drowning and submersion	17	-	-	-	-	-	-	-	-	2	-	3	1	3	1	2	1	4	-	-	-	-	-
Firearm discharge	77	-	-	-	-	-	-	4	-	4	-	13	3	13	1	10	-	11	-	11	1	5	1
Sharp or blunt object	16	-	-	-	-	-	-	-	-	-	-	-	1	3	1	4	1	3	-	-	1	2	-
Jumping from high place	93	-	-	-	-	-	-	2	1	9	1	10	6	13	6	15	5	6	4	6	4	2	3
Jumping or lying before moving object	26	-	-	-	-	-	-	2	-	-	1	5	-	4	1	7	1	3	-	1	1	-	-
Sequelae (Late effects)	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
Other and unspecified means	5	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	-	-	-	1	-	-	-

Continued on next page.

Table 16. Assault (Homicide) and Legal Intervention

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	567	9	6	1	1	4	3	55	7	102	5	158	22	86	13	41	12	15	8	9	3	6	1
Poisoning by noxious substances	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hanging, strangulation, and suffocation	22	1	-	-	-	-	1	1	-	1	1	4	4	2	1	3	-	-	2	-	-	1	-
Drowning and submersion	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Firearm discharge	304	-	-	-	-	3	-	34	5	66	1	111	6	53	2	11	1	5	1	2	1	2	-
Smoke, fire, and flames	6	-	-	-	-	-	-	-	-	2	-	2	-	-	-	-	1	-	-	1	-	-	-
Sharp or blunt object	126	-	1	-	-	-	1	16	2	25	2	27	11	13	4	10	7	3	3	-	-	1	-
Pushing from high place	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bodily force	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Neglect, abandonment, & other maltreatment	9	4	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sequelae (Late effects)	18	-	-	1	-	-	-	-	-	-	-	3	-	5	-	5	-	2	1	-	-	1	-
Other and unspecified means	70	4	-	-	-	-	1	4	-	3	1	10	1	11	5	11	3	5	1	6	2	1	1
Legal intervention, all*	9	-	-	-	-	-	-	-	-	5	-	1	-	2	-	1	-	-	-	-	-	-	-

* Eight legal intervention deaths are from firearm discharge and 1 from unspecified means. See Technical Notes: External Causes of Death - Homicide.

Table 17. Events of Undetermined Intent

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	192	21	23	-	1	-	-	1	-	6	3	18	4	23	7	34	9	16	5	4	5	5	7
Poisoning by noxious substances	23	-	-	-	-	-	-	-	-	-	3	2	2	3	-	5	2	3	2	-	1	-	-
Hanging, strangulation, and suffocation	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and submersion	14	-	-	-	-	-	-	-	-	2	-	4	1	4	-	2	-	1	-	-	-	-	-
Firearm discharge	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Smoke, fire, and flames	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
Falling from high place	6	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	1	-	-	-	-	1	1
Sequelae (Late effects)	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-
Other and unspecified means	143	21	23	-	1	-	-	1	-	3	-	12	1	13	7	25	6	10	3	4	3	4	6

Table 18. Complications of Medical and Surgical Care

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Complications of medical and surgical care	59	-	-	1	1	-	1	1	-	-	-	2	-	2	4	3	3	6	3	7	6	6	13

Table 19. Firearms (All Causes)

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Firearms (all causes)	390	-	-	-	-	3	-	38	5	75	1	124	9	68	3	23	1	16	1	13	2	7	1

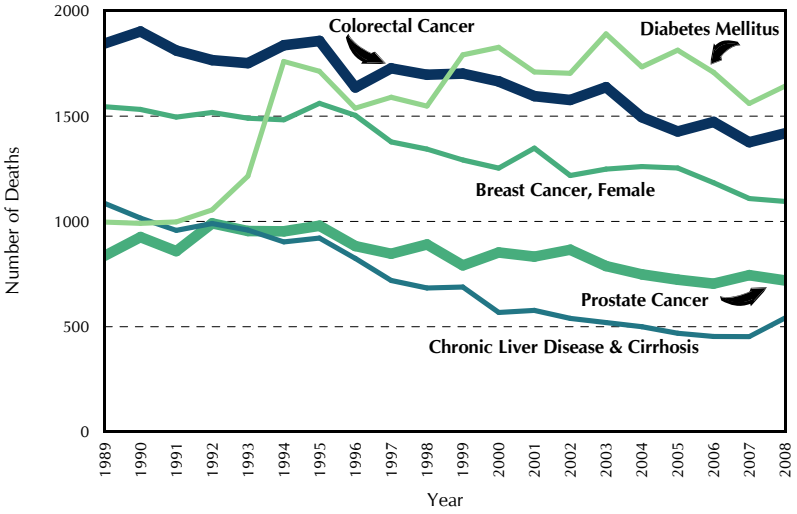


Figure 11. Number of Deaths from Selected Natural Causes New York City, 1989-2008

Except for diabetes mellitus and some slight increases or leveling in 2008, deaths due to these selected causes have decreased over the past two decades. *Colorectal cancer* deaths declined by 23.1%, from 1,845 in 1989 to 1,419 in 2008. *Breast Cancer* – Approximately 1,500 women died annually between 1989 and 1996, followed by an annual decline in the number of these death to 1,095 in 2008. *Prostate cancer* deaths peaked in 1992 with 991 deaths and then declined to 720 in 2008. *Chronic liver disease and cirrhosis* deaths had declined steadily, to 453 deaths in 2007 and then increased to 542 in 2008. *Diabetes Mellitus* - After a surge in the early 1990s, diabetes mellitus deaths remained at around 1,800 deaths per year until 2006 and declined to around 1,600 per year in 2007 and 2008.

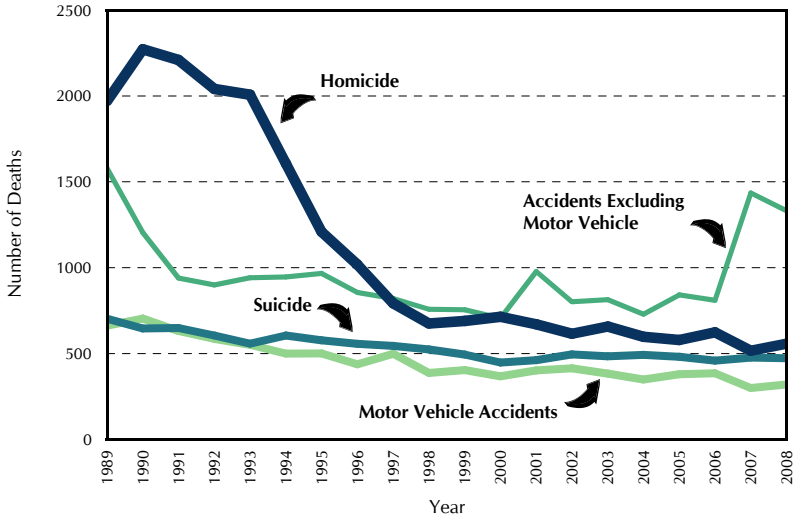


Figure 12. Number of Deaths from Selected External Causes New York City, 1989-2008

The number of homicide (assault) deaths has declined more than 75% since 1990, when it peaked at 2,272. The rate of decline has slowed since 1998, and it has dropped from 675 to 558 deaths in 2008. Suicide deaths have decreased approximately 33% over the past two decades from peak of 703 deaths in 1989 to 473 in 2008. Motor vehicle accidents deaths decreased 55%, from 704 in 1990 to 320 in 2008. The surge in non-motor vehicle accidental deaths in 2001 was caused by the Flight 587 air crash. Two-hundred sixty-five deaths from the crash are included in the total 2001 accidental deaths.

The large surge in non-motor-vehicle accident deaths from 2006 to 2007 was a reault of correction in our coding process for deaths due to psychoactive substances. See Special Section: New York City Changes from Manual to Automated Cause-of-Death Coding in 2007 Summary of Vital Statistics.

All reported WTC disaster deaths are homicides and not included in this graph for the year 2001. See Special Sections in the 2002 and 2005 Summary of Vital Statistics and Technical Notes for detailed information on WTC disaster deaths.

Table 20. Deaths from HIV Disease by Sex, Age, and Ethnic Group*,

AGE GROUP/ETHNIC GROUP		ALL													
		1983-1998	1999	2000	2001	2002**	2003	2004	2005	2006	2007	2008	1983-1998	1999	2000
ALL AGES	Total	62,439	2,020	1,961	1,774	1,713	1,656	1,451	1,419	1,209	1,115	1,073	48,887	1,372	1,333
	Puerto Rican	11,461	404	413	369	359	323	300	289	220	224	217	8,568	265	285
	Other Hispanic	5,647	137	166	121	144	167	113	129	111	103	118	4,697	98	123
	Asian & Pacific Islander	408	13	13	8	14	8	6	7	10	5	10	364	11	11
	Non-Hispanic White	16,833	341	303	298	274	245	192	196	178	143	129	14,883	247	236
	Non-Hispanic Black	24,702	1,032	1,008	911	872	846	793	769	660	625	583	17,648	674	629
	Other or Unknown	3,388	93	58	67	50	67	47	29	30	15	16	2,727	77	49
UNDER 1	Total	307	1	3	1	1	1	–	–	–	–	–	155	1	1
	Puerto Rican	42	–	–	–	–	–	–	–	–	–	–	24	–	–
	Other Hispanic	28	–	–	1	1	–	–	–	–	–	–	15	–	–
	Asian & Pacific Islander	1	–	–	–	–	–	–	–	–	–	–	1	–	–
	Non-Hispanic White	48	–	–	–	–	–	–	–	–	–	–	31	–	–
`	Non-Hispanic Black	169	1	3	–	–	1	–	–	–	–	–	76	1	1
	Other or Unknown	19	–	–	–	–	–	–	–	–	–	–	8	–	–
1-14	Total	906	18	7	6	5	9	6	4	1	2	–	463	10	3
	Puerto Rican	166	–	1	–	–	–	1	2	–	–	–	88	–	–
	Other Hispanic	94	3	–	–	2	1	1	1	1	1	–	50	2	–
	Asian & Pacific Islander	6	–	–	–	–	–	–	–	–	–	–	3	–	–
	Non-Hispanic White	146	4	2	1	–	1	–	–	–	1	–	77	2	2
	Non-Hispanic Black	449	11	3	5	3	7	4	1	–	–	–	226	6	1
	Other or Unknown	45	–	1	–	–	–	–	–	–	–	–	19	–	–
15-24	Total	956	21	22	24	20	18	15	22	22	19	17	591	7	8
	Puerto Rican	219	2	2	3	6	1	2	4	1	7	3	129	–	1
	Other Hispanic	112	1	2	2	3	4	–	2	5	4	–	82	–	–
	Asian & Pacific Islander	6	–	–	–	–	1	–	–	–	–	–	4	–	–
	Non-Hispanic White	150	1	1	1	2	–	1	1	1	–	1	102	–	–
	Non-Hispanic Black	405	17	17	18	9	12	11	15	13	8	13	237	7	7
	Other or Unknown	64	–	–	–	–	–	1	–	2	–	–	37	–	–
25-34	Total	15,922	252	233	194	140	123	90	92	63	52	77	11,647	151	133
	Puerto Rican	3,321	56	55	31	24	20	12	12	4	8	8	2,352	34	30
	Other Hispanic	1,680	23	29	20	15	15	8	12	6	4	11	1,343	15	23
	Asian & Pacific Islander	86	2	1	1	1	–	1	–	–	1	–	74	1	–
	Non-Hispanic White	3,942	32	21	17	13	10	12	7	9	3	6	3,306	20	13
	Non-Hispanic Black	6,029	132	120	117	83	75	56	59	44	35	52	3,917	76	62
	Other or Unknown	864	7	7	8	4	3	1	2	–	1	–	655	5	5
35-44	Total	27,122	767	695	638	624	568	467	407	343	311	246	21,465	489	456
	Puerto Rican	4,826	167	152	142	131	114	101	71	65	64	57	3,697	103	103
	Other Hispanic	2,262	58	60	40	62	60	33	48	41	27	37	1,914	42	40
	Asian & Pacific Islander	166	3	6	4	4	3	2	3	4	2	3	155	3	6
	Non-Hispanic White	7,569	152	121	118	101	85	71	45	45	46	34	6,724	104	95
	Non-Hispanic Black	10,853	353	339	309	312	281	250	224	182	168	113	7,809	209	198
	Other or Unknown	1,446	34	17	25	14	25	10	16	6	4	2	1,166	28	14
45-54	Total	12,397	669	706	629	641	640	594	586	502	448	425	10,462	474	499
	Puerto Rican	2,186	133	140	133	125	127	127	140	99	84	89	1,732	88	102
	Other Hispanic	1,012	29	55	32	41	58	45	49	40	43	46	892	22	44
	Asian & Pacific Islander	98	2	3	1	6	4	2	3	3	–	5	91	2	3
	Non-Hispanic White	3,542	111	117	109	116	103	73	93	76	61	45	3,312	82	94
	Non-Hispanic Black	4,869	357	367	329	327	322	322	294	272	256	231	3,823	250	234
	Other or Unknown	690	37	24	25	26	26	25	7	12	4	9	612	30	22
55 & OVER	Total	4,829	292	295	282	282	296	279	308	278	283	308	4,104	240	233
	Puerto Rican	701	46	63	60	73	61	57	60	51	61	60	546	40	49
	Other Hispanic	459	23	20	26	20	29	26	17	18	24	24	401	17	16
	Asian & Pacific Islander	45	6	3	2	3	–	1	1	3	2	2	36	5	2
	Non-Hispanic White	1,436	41	41	52	42	46	35	50	47	32	43	1,331	39	32
	Non-Hispanic Black	1,928	161	159	133	138	148	150	176	149	158	174	1,560	125	126
	Other or Unknown	260	15	9	9	6	12	10	4	10	6	5	230	14	8

Note: In 1983-1986, only AIDS was recognized as a cause of death and coded 279.1; from 1987 through 1998, AIDS as a cause of death was coded 042 and other HIV infections as a cause of death were coded 043-044. Under ICD-10, beginning in 1999, HIV disease as a cause of death is coded B20-B24. In 1982, 30 deaths were attributed to AIDS. Tables showing deaths due to AIDS alone for 1983-1996 can be found in the Vital Statistics Summaries for 1987-1996.

* Multiple race categories were introduced in January 2003 when New York City implemented a new death certificate form. Beginning in 2003, multiple races are included in "Other or Unknown" category in this table. See Technical Notes: Multiple Race.

**An HIV disease death was miscoded as a maternal cause in 2002. As a result of the correction, HIV disease deaths are increased by 1 in this table for the year of 2002.

New York City, 1983-2008

MALE								FEMALE										
2001	2002	2003	2004	2005	2006	2007	2008	1983-1998	1999	2000	2001	2002**	2003	2004	2005	2006	2007	2008
1,166	1,138	1,100	943	949	818	711	702	13,552	648	628	608	575	556	508	470	391	404	371
240	239	213	204	206	163	142	138	2,893	139	128	129	120	110	96	83	57	82	79
95	104	113	79	100	78	76	84	950	39	43	26	40	54	34	29	33	27	34
7	11	8	5	6	8	3	7	44	2	2	1	3	–	1	1	2	2	3
219	207	181	146	143	139	103	104	1,950	94	67	79	67	64	46	53	39	40	25
552	538	536	481	475	407	377	356	7,054	358	379	359	334	310	312	294	253	248	227
53	39	49	28	19	23	10	13	661	16	9	14	11	18	19	10	7	5	3
1	–	–	–	–	–	–	–	152	–	2	–	1	1	–	–	–	–	–
–	–	–	–	–	–	–	–	18	–	–	–	–	–	–	–	–	–	–
1	–	–	–	–	–	–	–	13	–	–	–	1	–	–	–	–	–	–
–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	17	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	93	–	2	–	–	1	–	–	–	–	–
–	–	–	–	–	–	–	–	11	–	–	–	–	–	–	–	–	–	–
2	3	3	4	2	–	1	–	443	8	4	4	2	6	2	2	1	1	–
–	–	–	–	1	–	–	–	78	–	1	–	–	–	1	1	–	–	–
–	2	–	–	–	–	–	–	44	1	–	–	–	1	1	1	1	1	–
–	–	–	–	–	–	–	–	3	–	–	–	–	–	–	–	–	–	–
1	–	1	–	–	–	1	–	69	2	–	–	–	–	–	–	–	–	–
1	1	2	4	1	–	–	–	223	5	2	4	2	5	–	–	–	–	–
–	–	–	–	–	–	–	–	26	–	1	–	–	–	–	–	–	–	–
9	11	7	8	14	12	9	7	365	14	14	15	9	11	7	8	10	10	10
–	3	1	1	4	1	3	–	90	2	1	3	3	–	1	–	–	4	3
1	2	2	–	2	3	4	–	30	1	2	1	1	2	–	–	2	–	–
–	–	1	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–
–	2	–	1	1	–	–	1	48	1	1	1	–	–	–	–	1	–	–
8	4	3	5	7	7	2	6	168	10	10	10	5	9	6	8	6	6	7
–	–	–	1	–	1	–	–	27	–	–	–	–	–	–	–	1	–	–
102	72	76	45	59	41	32	48	4,275	101	100	92	68	47	45	33	22	20	29
15	10	12	5	6	2	3	5	969	22	25	16	14	8	7	6	2	5	3
17	10	12	6	9	4	4	10	337	8	6	3	5	3	2	3	2	–	1
1	1	–	1	–	–	–	–	12	1	1	–	–	–	–	–	–	1	–
8	8	8	9	5	6	2	4	636	12	8	9	5	2	3	2	3	1	2
58	41	43	23	38	29	22	29	2,112	56	58	59	42	32	33	21	15	13	23
3	2	1	1	1	–	1	–	209	2	2	5	2	2	–	1	–	–	–
387	383	330	280	241	211	177	144	5,657	278	239	251	241	238	187	166	132	134	102
84	83	65	65	46	47	41	30	1,129	64	49	58	48	49	36	25	18	23	27
27	41	32	23	32	28	17	23	348	16	20	13	21	28	10	16	13	10	14
4	3	3	1	3	3	1	3	11	–	–	–	1	–	1	–	1	1	–
80	67	55	53	31	28	32	22	845	48	26	38	34	30	18	14	17	14	12
171	179	156	134	120	100	83	65	3,044	144	141	138	133	125	116	104	82	85	48
21	10	19	4	9	5	3	1	280	6	3	4	4	6	6	7	1	1	1
443	455	451	395	400	342	289	275	1,935	195	207	186	186	189	199	186	160	159	150
98	86	91	91	101	74	58	56	454	45	38	35	39	36	36	39	25	26	33
27	32	45	31	43	29	32	33	120	7	11	5	9	13	14	6	11	11	13
–	6	4	2	2	2	–	3	7	–	–	1	–	–	–	1	1	–	2
86	93	77	53	69	65	40	37	230	29	23	23	23	26	20	24	11	21	8
211	215	216	203	180	164	156	139	1,046	107	133	118	112	106	119	114	108	100	92
21	23	18	15	5	8	3	7	78	7	2	4	3	8	10	2	4	1	2
222	214	232	211	233	212	203	228	725	52	62	60	68	64	68	75	66	80	80
43	57	44	42	48	39	37	47	155	6	14	17	16	17	15	12	12	24	13
22	17	22	19	14	14	19	18	58	6	4	4	3	7	7	3	4	5	6
2	1	–	1	1	3	2	1	9	1	1	–	2	–	–	–	–	–	1
44	37	40	30	37	40	28	40	105	2	9	8	5	6	5	13	7	4	3
103	98	116	112	129	107	114	117	368	36	33	30	40	32	38	47	42	44	57
8	4	10	7	4	9	3	5	30	1	1	1	2	2	3	–	1	3	–

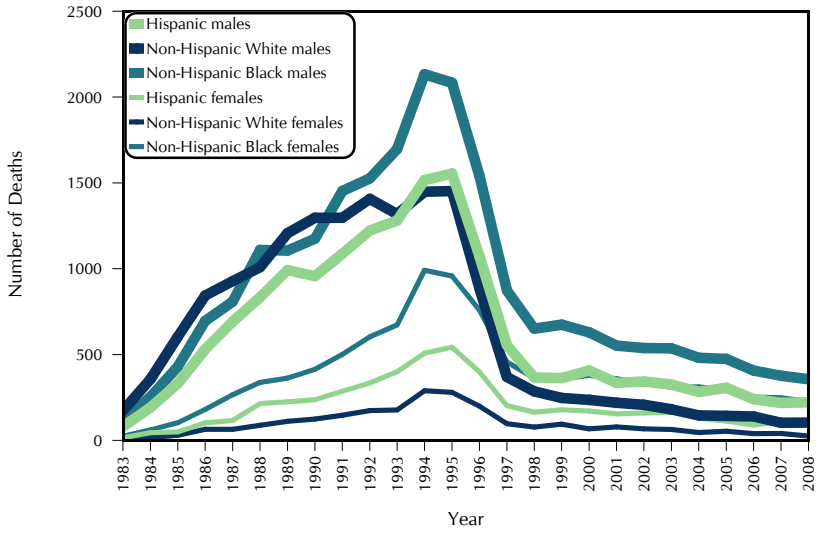


Figure 13. Deaths Due to HIV Disease by Sex and Selected Ethnic Group New York City, 1983-2008

The number of deaths due to HIV disease decreased 3.8%, from 1,115 in 2007 to 1,073 in 2008. This is lower than the 1985 level for AIDS alone at 1,663. AIDS deaths peaked at 7,102 in 1994. The number of HIV disease deaths declined for both males and females from 2007 to 2008. The biggest decline was among Non-Hispanic white females, from 40 to 25, a 37.5% drop. The decline was also seen among Non-Hispanic black females, from 248 to 227, a 8.5% decrease. Non-Hispanic black males experienced a 5.6% decrease, from 377 to 356. HIV disease deaths increased slightly for other ethnic groups from 2007 to 2008.

See Comparability Ratio in Technical Notes for information about the effect of ICD9/ICD10 coding changes.

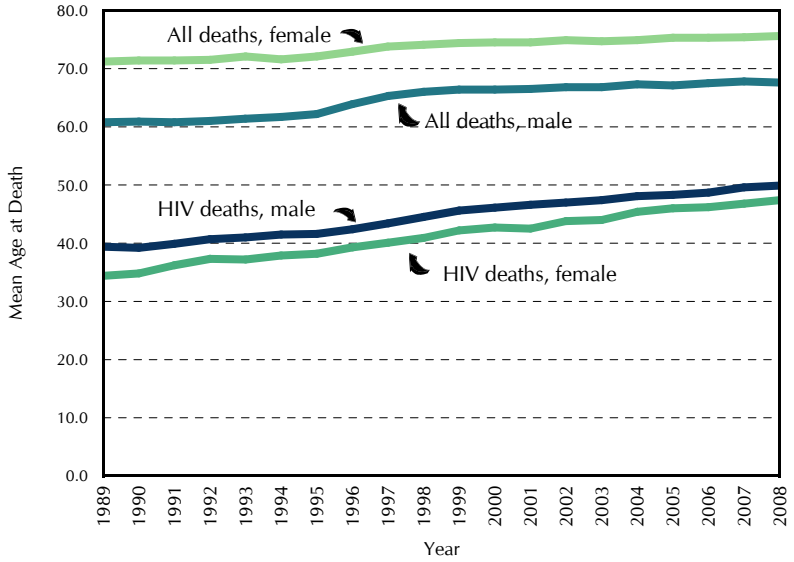


Figure 14. Mean Age at Death, All Deaths and HIV Disease Deaths by Sex New York City, 1989-2008

The mean age at death for men who died of HIV disease was 49.9 in 2008, an increase of 10.5 years from 1989. The mean age at death for women increased 13 years from 1989 to 2008. Both men and women are living longer with HIV and dying at older ages, in part due to the natural aging of the epidemic and in part due to improved survival resulting from the widespread use of highly active antiretroviral therapy. Although the increase in the mean age at death over the past 20 years was steeper for women who died of HIV disease, they lived 2.5 fewer years than their male counterparts in 2008. Among those who died of HIV disease, men lived an average of 17.7 fewer years and women lived an average of 28.2 fewer years compared with overall deaths in New York City in 2008.

Table 21. Deaths and Death Rates per 100,000 Population for Selected Causes by Ethnic Group, Sex, and Age, New York City, 2008

Cause of Death	Total		Ethnic Group*									Sex				Age in Years			
			Hispanic		Non-Hispanic White		Non-Hispanic Black		Asian and Pacific Islander		Other or Unknown	Male		Female		Under 20		65 or Over	
	No.	Age-Adj. Rate	No.	Age-Adj. Rate	No.	Age-Adj. Rate	No.	Age-Adj. Rate	No.	Age-Adj. Rate	No.	No.	Age-Adj. Rate	No.	Age-Adj. Rate	No.	Crude Rate	No.	Crude Rate
All Causes	54,193	6.1	9,329	5.3	27,131	6.2	14,006	7.5	2,971	3.7	756	26,342	7.4	27,851	5.2	1,157	0.5	37,862	36.5
Natural Causes	51,249	580.2	8,616	500.0	25,981	588.6	13,177	709.4	2,784	349.0	691	24,229	686.5	27,020	500.9	907	42.3	37,258	3589.8
Cancer of Stomach	464	5.3	104	5.9	176	4.2	117	6.4	63	7.5	4	279	7.8	185	3.6	–	–	303	29.2
Cancer of Colon, Rectum, and Anus	1,419	16.4	242	14.1	705	17.0	356	19.1	100	11.6	16	713	20.2	706	13.7	–	–	969	93.4
Cancer of Trachea, Bronchus, and Lung, Male	1,593	45.2	225	31.8	866	51.2	338	48.2	141	36.8	23	1,593	45.2	N.A.	N.A.	2	–	1,072	262.1
Cancer of Trachea, Bronchus, and Lung, Female	1,315	26.5	152	15.0	764	34.0	321	27.8	71	16.0	7	N.A.	N.A.	1,315	26.5	–	–	942	149.8
Cancer of Breast, Female	1,095	21.9	169	15.8	547	24.6	325	27.9	43	8.8	11	N.A.	N.A.	1,095	21.9	–	–	604	96.0
Cancer of Cervix Uteri	138	2.8	31	2.8	36	1.7	58	4.9	13	2.5	–	N.A.	N.A.	138	2.8	–	–	55	8.7
Cancer of Ovary	354	7.2	52	5.0	199	9.2	76	6.5	24	4.7	3	N.A.	N.A.	354	7.2	–	–	200	31.8
Cancer of Prostate	720	21.6	111	19.3	323	18.1	259	42.9	16	4.6	11	720	21.6	N.A.	N.A.	–	–	644	157.5
Cancer of Pancreas	950	11.0	137	8.0	537	13.0	209	11.3	52	6.1	15	432	12.1	518	10.0	–	–	683	65.8
Leukemia	532	6.2	86	4.5	326	8.7	87	4.7	27	2.7	6	282	7.8	250	5.1	26	1.2	311	30.0
Hypertensive Heart Disease	1,704	19.2	292	16.7	673	15.1	643	34.3	77	9.5	19	810	22.3	894	16.6	–	–	1,139	109.7
Chronic Ischemic Heart Disease	15,475	171.4	1,849	115.1	9,579	199.3	3,126	172.5	724	96.0	197	6,998	205.0	8,477	146.6	–	–	13,427	1293.7
Acute Myocardial Infarction	2,609	29.2	409	25.4	1,387	29.4	642	35.3	130	17.2	41	1,156	33.4	1,453	25.7	–	–	2,179	209.9
Essential Hypertension & Hypertensive Renal Disease	889	10.0	174	10.6	316	7.0	326	17.7	63	8.3	10	404	11.6	485	8.9	1	–	684	65.9
Parkinson's Disease	158	1.8	32	2.1	98	2.1	16	0.9	10	1.4	2	94	2.9	64	1.2	–	–	154	14.8
Alzheimer's Disease	374	4.0	76	5.1	209	4.0	78	4.4	7	1.0	4	93	2.8	281	4.6	–	–	366	35.3
Mental & Behavior Disorders Due to Use of Alcohol	210	2.4	53	2.4	94	2.7	51	2.5	6	0.6	6	174	4.2	36	0.8	–	–	31	3.0
Alcoholic Liver Disease	377	4.3	152	7.3	136	3.9	72	3.6	10	1.0	7	280	7.0	97	2.0	–	–	71	6.8
Asthma	149	1.7	63	3.2	22	0.6	58	2.8	6	0.8	–	65	1.6	84	1.8	17	0.8	44	4.2
External Causes	2,944	34.3	713	32.3	1,150	34.0	829	42.1	187	19.8	65	2,113	52.8	831	17.6	250	11.7	604	58.2
Motor Vehicle Accidents	320	3.8	74	3.5	136	4.2	72	3.7	33	3.5	5	209	5.3	111	2.4	25	1.2	89	8.6
Accidental Falls	388	4.4	79	4.4	214	5.0	49	2.5	39	4.8	7	233	6.4	155	2.8	8	0.4	256	24.7
Other Accidents, Excluding Accidental Poisoning	336	3.9	101	4.5	115	3.4	95	4.8	21	1.9	6	231	5.8	105	2.2	49	2.3	81	7.8

* Multiple races were introduced in January 2003 when New York City implemented a new death certificate form. See Technical Notes: Multiple Race.

** In 2002 and earlier years, deaths from legal interventions were included in Homicide. Since then, they are excluded from this table and are listed as a separate cause of death in Tables 4 and 16.

For all causes rates are per 1,000 population and all other selected causes rates are per 100,000 population. See Population in Technical Notes for information about population estimates. N.A.: Not applicable.

Table 22. Life Expectancy at Specified Ages by Sex and Ethnic Group, New York City, 1989-1991 and 1999-2001*

Exact age in Years	All							
	1989-1991				1999-2001**			
	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	72.4	76.3	74.0	66.4	77.6	79.7	77.7	73.2
1	72.4	75.8	74.0	66.7	77.1	79.0	77.3	73.0
5	68.5	72.0	70.2	62.9	73.2	75.0	73.4	59.0
10	63.6	67.1	65.2	58.0	65.2	70.0	68.5	64.2
15	58.7	62.1	60.3	53.1	63.3	65.1	63.6	59.3
20	54.0	57.4	55.5	48.6	58.4	60.2	58.7	54.5
25	49.4	52.9	50.7	44.2	53.6	55.4	53.9	49.9
30	44.9	48.6	46.0	40.0	48.8	50.5	49.0	45.2
35	40.7	44.6	41.5	36.1	44.1	45.8	44.3	40.7
40	36.6	40.7	37.2	32.7	39.5	41.2	39.6	36.3
45	32.6	36.8	33.0	29.1	35.0	36.7	35.1	32.1
50	28.5	32.8	28.8	25.4	30.7	32.4	30.7	28.2
55	24.6	28.9	24.7	22.0	26.6	28.2	26.5	24.4
60	20.9	25.0	20.9	18.7	22.6	24.1	22.4	20.8
65	17.4	21.3	17.3	15.7	18.8	20.2	18.6	17.5
70	14.1	17.8	13.9	13.0	15.3	16.7	15.1	14.5
75	11.1	14.6	10.9	10.5	12.1	13.3	11.8	11.3
80	8.4	11.4	8.2	8.2	9.2	10.4	8.9	9.3
85	6.1	8.6	5.9	6.2	6.7	7.7	6.4	7.1
Exact age in Years	Male							
	1989-1991				1999-2001**			
	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	67.7	70.5	70.0	60.0	74.5	76.1	74.9	69.1
1	67.6	70.0	70.1	60.3	74.0	75.4	74.5	69.0
5	63.8	66.2	66.2	56.5	70.1	71.4	70.6	65.1
10	58.8	61.2	61.3	51.6	65.2	66.5	65.7	60.2
15	53.9	56.3	56.4	46.7	60.2	61.5	60.8	55.3
20	49.4	51.7	51.6	42.4	55.4	56.6	55.9	50.6
25	45.0	47.4	46.9	38.3	50.7	51.9	51.2	46.1
30	40.7	43.4	42.3	34.4	46.0	47.1	46.4	41.6
35	36.7	39.8	38.1	30.9	41.3	42.5	41.7	37.2
40	33.1	36.5	34.1	28.0	36.8	37.9	37.1	32.9
45	29.4	33.2	30.1	25.0	32.4	33.6	32.7	28.8
50	25.7	29.6	26.2	21.8	28.3	29.5	28.5	25.2
55	22.1	26.1	22.3	18.8	24.4	25.6	24.4	21.8
60	18.6	22.5	18.7	15.9	20.6	21.8	20.5	18.4
65	15.4	19.1	15.3	13.2	17.0	18.2	16.9	15.3
70	12.4	16.1	12.2	10.9	13.8	14.9	13.6	12.6
75	9.7	13.2	9.5	8.8	10.8	12.0	10.6	10.2
80	7.3	10.5	7.1	7.0	8.2	9.4	7.9	8.2
85	5.5	8.2	5.2	5.4	6.1	7.3	5.7	6.6
Exact age in Years	Female							
	1989-1991				1999-2001**			
	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	77.0	81.7	77.9	72.2	80.2	82.6	80.4	76.5
1	76.9	81.2	77.9	72.5	79.7	81.9	79.9	76.2
5	73.1	77.4	74.0	68.7	75.8	77.9	76.0	72.3
10	68.1	72.4	69.1	63.9	70.8	72.9	71.1	67.4
15	63.2	67.5	64.1	58.9	65.9	68.0	66.1	62.4
20	58.3	62.6	59.2	54.1	61.0	63.0	61.2	57.5
25	53.5	57.9	54.3	49.4	56.1	58.1	56.4	52.7
30	48.8	53.2	49.5	44.8	51.2	53.2	51.4	47.9
35	44.2	48.7	44.8	40.6	46.4	48.4	46.6	43.3
40	39.8	44.2	40.1	36.5	41.7	43.7	41.8	38.8
45	35.3	39.6	35.5	32.4	37.1	39.1	37.2	34.4
50	30.9	35.2	31.0	28.3	32.6	34.5	32.6	30.3
55	26.6	30.9	26.6	24.3	28.3	30.0	28.2	26.3
60	22.6	26.6	22.6	20.6	24.1	25.7	23.9	22.4
65	18.8	22.6	18.7	17.3	20.1	21.5	19.9	18.8
70	15.2	18.8	15.1	14.2	16.4	17.7	16.1	15.5
75	12.0	15.3	11.8	11.4	12.9	14.1	12.6	12.5
80	9.0	11.9	8.7	8.8	9.7	10.8	9.4	9.8
85	6.4	8.8	6.2	6.5	7.0	7.9	6.7	7.3

Note: Table 22 presents decennial life tables and three-year (1999-2001) death data are used to estimate life expectancy to smooth the outcome. Life expectancy figures for 1989-1991 are calculated using same methodology as 1999-2001. See Technical Notes: Life Expectancy.

* Census population data for 1990 and 2000 are used to calculate 1989-1991 and 1999-2001 life expectancy, respectively. See Technical Notes: Population.

** World Trade Center (WTC) disaster deaths are not included. See Special Section in 2002 Summary of Vital Statistics, Table WTC10 for the impact of WTC deaths on life expectancy in New York City.

Table 23. Life Expectancy at Specified Ages by Sex, New York City, 1999-2007*

	Total								
Exact age in years	1999	2000	2001**	2002	2003	2004	2005	2006	2007
0	77.2	77.7	77.8	78.0	78.2	78.6	78.7	79.0	79.4
1	76.7	77.2	77.2	77.4	77.6	78.1	78.1	78.5	78.8
5	72.8	73.2	73.3	73.5	73.7	74.1	74.2	74.5	74.9
10	67.9	68.3	68.4	68.6	68.7	69.2	69.2	69.6	69.9
15	62.9	63.3	63.4	63.6	63.8	64.2	64.3	64.6	64.9
20	58.1	58.5	58.6	58.7	58.9	59.4	59.4	59.7	60.1
25	53.3	53.7	53.8	53.9	54.1	54.6	54.6	54.9	55.2
30	48.5	48.9	49.0	49.1	49.3	49.7	49.8	50.1	50.4
35	43.8	44.2	44.2	44.3	44.5	44.9	45.0	45.3	45.6
40	39.2	39.5	39.6	39.7	39.9	40.2	40.2	40.6	40.8
45	34.7	35.1	35.2	35.2	35.4	35.7	35.7	36.0	36.2
50	30.4	30.8	30.9	30.9	31.1	31.3	31.3	31.6	31.8
55	26.3	26.6	26.8	26.8	26.9	27.2	27.2	27.4	27.6
60	22.3	22.6	22.8	22.8	23.0	23.3	23.3	23.6	23.7
65	18.5	18.8	19.0	19.1	19.2	19.4	19.5	19.8	20.0
70	15.1	15.4	15.5	15.5	15.6	15.8	15.9	16.1	16.3
75	11.9	12.1	12.2	12.2	12.3	12.3	12.4	12.6	12.8
80	9.1	9.3	9.2	9.2	9.3	9.3	9.3	9.4	9.5
85	6.7	6.8	6.7	6.7	6.8	6.9	6.8	6.8	6.9

	Male								
Exact age in years	1999	2000	2001**	2002	2003	2004	2005	2006	2007
0	74.1	74.5	74.8	74.9	75.1	75.7	75.7	75.9	76.3
1	73.7	74.0	74.2	74.4	74.6	75.2	75.1	75.4	75.7
5	69.8	70.1	70.3	70.5	70.7	71.2	71.2	71.5	71.8
10	64.8	65.1	65.4	65.5	65.7	66.3	66.3	66.5	66.8
15	59.9	60.2	60.4	60.6	60.8	61.4	61.3	61.5	61.9
20	55.1	55.4	55.6	55.7	56.0	56.5	56.5	56.7	57.0
25	50.4	50.7	50.9	51.0	51.2	51.8	51.8	52.0	52.3
30	45.7	46.0	46.2	46.3	46.5	47.0	47.0	47.3	47.5
35	41.0	41.3	41.5	41.6	41.8	42.3	42.3	42.5	42.7
40	36.5	36.8	37.0	37.0	37.2	37.6	37.6	37.8	38.0
45	32.2	32.4	32.6	32.6	32.8	33.1	33.1	33.3	33.5
50	28.1	28.3	28.5	28.5	28.6	28.9	28.9	29.1	29.2
55	24.1	24.4	24.6	24.5	24.7	25.0	25.0	25.1	25.2
60	20.3	20.6	20.8	20.8	20.9	21.3	21.3	21.5	21.5
65	16.7	17.0	17.2	17.2	17.4	17.7	17.7	17.9	18.0
70	13.5	13.8	13.9	13.9	14.0	14.3	14.3	14.5	14.6
75	10.7	10.8	10.9	11.0	10.9	11.0	11.1	11.2	11.2
80	8.1	8.3	8.3	8.3	8.3	8.3	8.2	8.3	8.2
85	6.0	6.1	6.1	6.2	6.2	6.2	6.1	5.9	6.0

	Female								
Exact age in years	1999	2000	2001**	2002	2003	2004	2005	2006	2007
0	79.9	80.4	80.4	80.6	80.7	81.1	81.3	81.7	82.0
1	79.4	79.9	79.8	80.1	80.2	80.5	80.6	81.1	81.4
5	75.5	76.0	75.9	76.1	76.3	76.5	76.7	77.1	77.4
10	70.5	71.0	70.9	71.2	71.3	71.6	71.7	72.2	72.5
15	65.6	66.0	66.0	66.2	66.4	66.6	66.8	67.2	67.5
20	60.7	61.1	61.1	61.3	61.5	61.7	61.9	62.3	62.6
25	55.8	56.2	56.2	56.4	56.5	56.8	57.0	57.4	57.7
30	50.9	51.4	51.3	51.5	51.6	51.9	52.1	52.5	52.8
35	46.1	46.6	46.5	46.7	46.8	47.1	47.2	47.6	47.9
40	41.4	41.9	41.8	42.0	42.1	42.3	42.4	42.8	43.1
45	36.8	37.3	37.2	37.4	37.5	37.7	37.8	38.2	38.4
50	32.3	32.8	32.8	32.9	33.0	33.2	33.3	33.7	33.8
55	28.0	28.4	28.4	28.6	28.6	28.8	28.9	29.3	29.4
60	23.8	24.1	24.3	24.4	24.4	24.7	24.8	25.1	25.3
65	19.8	20.1	20.3	20.4	20.5	20.7	20.7	21.1	21.3
70	16.1	16.4	16.5	16.6	16.7	16.8	16.9	17.2	17.4
75	12.7	12.9	12.9	13.0	13.1	13.2	13.2	13.5	13.7
80	9.7	9.8	9.8	9.7	9.8	9.9	9.8	10.0	10.2
85	7.0	7.1	7.0	7.0	7.1	7.2	7.2	7.3	7.4

Note: Three-year (1999-2001) death data are used to estimate 2000 life expectancy in Table 22, while single-year death data are used in this Table. Life expectancy for year 2008 is not presented since national data are required and are not yet available.

* Census 2000 population data are used for all years. See Technical Notes: Population.

** Calculations exclude World Trade Center disaster deaths.

Table 24. **Years of Potential Life Lost (YPLL) Before Age 75 by Sex and Selected Causes of Death, New York City, 2008**

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	488,239	100.0	299,719	100.0	188,520	100.0
Malignant neoplasms	115,625	23.7	57,762	19.3	57,863	30.7
Trachea, bronchus, and lung	21,273	4.4	12,335	4.1	8,938	4.7
Colon, rectum, and anus	11,560	2.4	5,995	2.0	5,565	3.0
Breast	12,012	2.5	77	0.0	11,935	6.3
Prostate	2,033	0.4	2,033	0.7	-	-
Cervix uteri	1,984	0.4	-	-	1,984	1.1
Diseases of heart	86,585	17.7	57,262	19.1	29,323	15.6
HIV disease	27,932	5.7	17,658	5.9	10,274	5.4
Assault (Homicide)	24,221	5.0	20,921	7.0	3,300	1.8
Accidents except poisoning by psychoactive substance	23,106	4.7	17,662	5.9	5,444	2.9
Motor vehicle	9,216	1.9	6,803	2.3	2,413	1.3
Use of or poisoning by psychoactive substance	21,970	4.5	16,589	5.5	5,381	2.9
Intentional self-harm (Suicide)	13,589	2.8	9,924	3.3	3,665	1.9
Diabetes mellitus	12,203	2.5	7,175	2.4	5,028	2.7
Cerebrovascular diseases	10,513	2.2	5,907	2.0	4,606	2.4
Chronic liver disease and cirrhosis	9,221	1.9	6,576	2.2	2,645	1.4
Influenza and pneumonia	8,522	1.7	5,038	1.7	3,484	1.8
Chronic lower respiratory diseases	8,310	1.7	4,357	1.5	3,953	2.1
Viral Hepatitis	6,111	1.3	4,504	1.5	1,607	0.9
Mental and behavioral disorders due to use of alcohol	4,542	0.9	3,785	1.3	757	0.4
All other causes	115,789	23.7	64,599	21.6	51,190	27.2

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

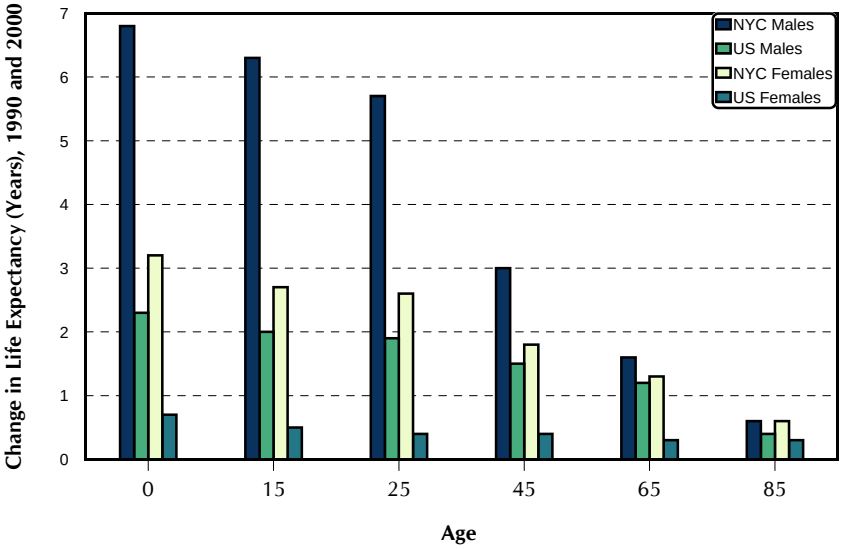


Figure 15. Changes in Life Expectancy at Selected Ages by Sex, 1990 and 2000 New York City and United States

In contrast to the prior decade, life expectancy for male New York City residents at birth aged 0, 15, and 25 increased substantially between 1990 and 2000. The increases were 6.8, 6.3, and 5.7 years, respectively. Contributing factors include declines in infant mortality, HIV, cardiovascular diseases and homicide deaths. Life expectancy for all United States males at these ages also increased but at lower rates, between 1.9 and 2.3 years.
Life expectancy for New York City females also increased more than for all United States females. At selected older ages, New York City male residents also showed greater increases in life expectancy than did males nationwide, although these differences were smaller than for younger ages. Nationwide, females had a small increase in life expectancy at all ages.
Note: Calculations exclude World Trade Center disaster deaths.

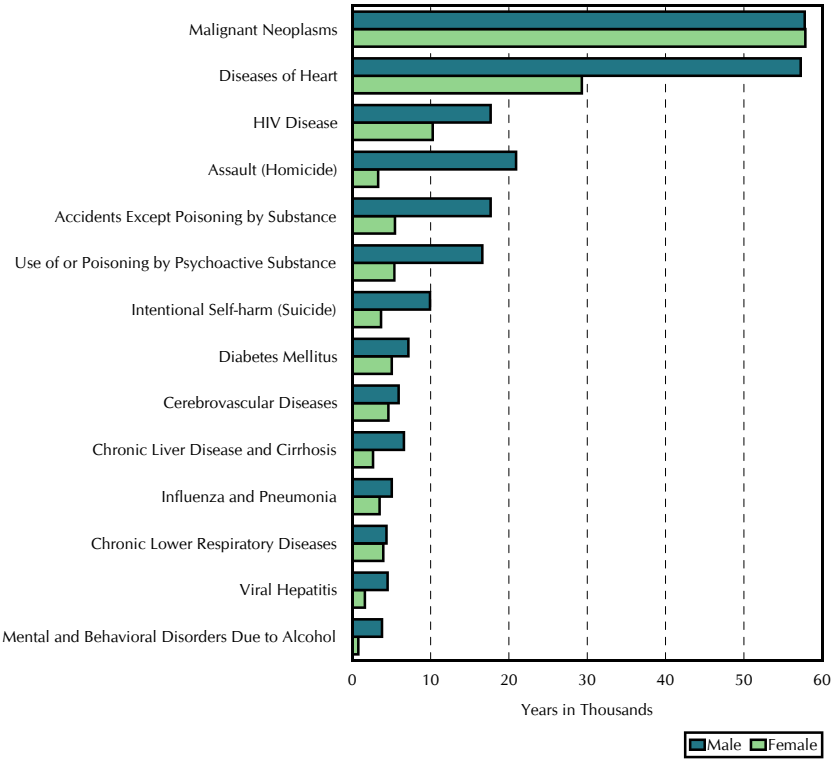


Figure 16. Years of Potential Life Lost (YPLL) Before Age 75 by Sex, Selected Causes New York City, 2008

The overall YPLL before age 75 increased slightly from 486,268 in 2007 to 488,239 in 2008 in New York City.

Malignant neoplasms (cancers) and diseases of the heart, the two leading causes of death, were responsible for approximately 40% of YPLL in NYC. Cancer, the second leading cause of death, was responsible for the greatest number of YPLL, 115,625 in 2008, slightly decreased from 116,880 in 2007; while diseases of the heart, the first leading cause of death, accounted for 86,585 YPLL, almost the same as 2007.

Cancer was responsible for similar numbers of YPLL in men and women. However, compared to women, men lost fewer years from reproductive cancers but more years from cancer of the trachea, bronchus, lung, colon, rectum and anus. The top five causes of cancers account for 42% of cancer YPLL.

For many of the most frequent causes of death, more than twice the number of YPLL were to men than women. Sixty-six percent of the 86,585 YPLL due to diseases of the heart were to men (57,262 YPLL) vs. 34% to women (29,323 YPLL). Sixty-three percent of YPLL to AIDS were to men vs. 37% to women; 76% of YPLL to use of or poisoning by psychoactive substance were to men vs. 24% to women; 86% of YPLL to assault (homicide) were to men vs. 14% to women; 76% of YPLL to accidents except poisoning by psychoactive substance (includes motor vehicle accidents) were to men vs. 24% to women; 73% of YPLL to intentional self-harm (suicide) were to men vs. 27% to women; 71% of YPLL to chronic liver disease and cirrhosis were to men vs. 29% to women; 74% of YPLL to viral hepatitis were to men vs. 26% to women; and 83% of YPLL to mental and behavioral disorders due to use of alcohol were to men vs. 17% to women.

Table 25. **Deaths and Crude Death Rates* per 100,000 Population from**

	ANNUAL											
Cause (ICD-10 Codes **(1)**	1901-1905	1906-1910	1911-1915	1916-1920	1921-1925	1926-1930	1931-1935	1936-1940	1941-1945	1946-1948	1949-1951	1952-1955
Infant deaths (under 1 year)	15,611	16,609	14,060	12,004	8,895	7,662	5,521	4,079	3,828	4,298	3,882	4,021
Rate per 1,000 live births	120.8	115.2	100.0	88.2	68.9	61.0	52.0	39.8	30.3	26.8	24.5	24.6
Neonatal deaths (under 28 days)	**	**	5,143	4,894	4,309	3,892	3,152	2,631	2,764	3,298	2,989	3,032
Rate per 1,000 live births			37.4	36.0	33.0	31.0	29.7	25.7	21.9	20.5	18.9	18.5
Early neonatal deaths (under 7 days)	**	**	**	**	**	**	**	2,110	2,338	2,845	2,604	2,713
Rate per 1,000 live births								20.5	18.5	17.7	16.4	16.6
Fetal deaths 28 weeks gestation & over	**	**	**	**	**	**	**	2,589	2,709	2,902	2,441	2,310
Ratio per I ,000 live births								25.3	21.4	18.1	15.4	14.1
Perinatal mortality ratio **(2)**	**	**	**	**	**	**	**	44.7	39.1	35.1	31.3	30.2
Pregnancy, childbirth, and the puerperium (O00-O99)	**	**	**	**	**	**	**	**	**	**	**	**
Rate per 100,000 live births												
Maternal causes *** (A34, O00-O95, O98-O99)	694	745	694	664	689	651	608	372	255	178	115	102
Rate per 100,000 live births	538.0	517.4	493.7	487.9	528.1	518.4	572.6	363.2	201.6	110.8	72.6	62.3
Respiratory tuberculosis (A16)	8,154	8,832	8,745	7,915	4,937	4,574	4,068	3,680	3,281	2,932	2,173	1,178
Rate	215.4	197.5	173.2	144.1	80.0	68.2	57.3	50.0	43.2	37.7	27.4	15.0
Other forms of tuberculosis (A17-A19)	**	**	**	**	**	**	**	**	**	225	174	97
Rate										2.9	2.2	1.2
Human immunodeficiency virus disease (B20-B24) **(3)**	**	**	**	**	**	**	**	**	**	**	**	**
Rate												
Malignant neoplasms (C00-C97)	2,621	3,334	4,256	4,993	6,229	7,637	9,062	11,257	13,169	14,627	15,556	16,553
Rate	69.2	74.5	84.3	90.9	100.9	113.9	127.6	152.9	173.3	188.2	196.0	210.6
Trachea, bronchus, and lung, male (C33-C34)	**	**	**	**	**	**	**	**	**	828	847	1,021
Rate										21.9	22.2	27.0
Trachea, bronchus, and lung, female (C33-C34)	**	**	**	**	**	**	**	**	**	220	179	228
Rate										5.5	4.4	5.6
Colon, rectum, and anus (C18-C21)	**	**	**	**	**	**	**	**	**	**	**	**
Rate												
Breast, female (C50)	**	**	**	**	**	**	**	**	**	1,429	1,476	1,517
Rate										35.9	36.4	37.3
Diabetes mellitus (E10-E14)	520	690	916	1,063	1,284	1,624	2,140	2,787	3,131	3,423	1,583	1,644
Rate	13.7	15.4	18.1	19.4	20.8	24.2	30.1	37.9	41.2	44.0	19.9	20.9
Major cardiovascular diseases (I00-I78)	5,954	9,148	12,699	14,792	18,114	21,815	23,706	25,711	30,886	32,539	36,206	37,724
Rate	157.3	204.5	251.5	269.3	293.3	325.5	333.8	349.2	406.6	418.7	456.3	479.9
Cerebrovascular disease (I60-I69)	2,593	1,790	970	834	719	723	1,333	3,846	3,611	3,710	5,099	5,688
Rate	68.4	40.0	19.2	15.2	11.6	10.8	20.2	52.2	47.5	47.7	64.3	72.4
Influenza & Pneumonia (J10-J18)	10,425	10,985	10,528	17,136	8,935	9,989	8,205	5,337	3,453	3,014	2,469	2,664
Rate	275.4	245.6	208.5	312.0	144.7	149.0	115.5	72.5	45.5	38.8	31.2	33.9
Other respiratory (J00-J06, J20-J99)	3,224	2,307	1,458	1,407	689	622	594	536	492	424	450	461
Rate	85.2	51.6	38.9	25.6	11.2	9.3	8.4	7.3	6.5	5.5	5.7	5.9
Chronic liver disease & cirrhosis (K70, K73-K74)	814	1,076	900	500	338	413	584	922	1,052	1,500	1,500	1,440
Rate	21.5	24.1	17.8	9.1	5.5	6.2	8.2	12.5	13.8	17.5	19.2	18.3
Nephritis,nephrosis,etc. (N00-N07, N17-N19, N25-N27)	5,752	5,600	5,499	5,676	4,108	3,411	3,608	3,675	3,081	2,574	570	556
Rate	151.9	125.2	108.9	103.4	50.9	50.8	50.9	40.6	40.6	33.1	7.2	7.1
Use of psychoactive substance (F11-F16, F18-F19)	**	**	**	**	**	**	**	**	**	**	**	81
Rate												1.0
Accidental drug poisoning (X40-X42, X44)	**	**	**	**	**	**	**	**	**	**	**	**
Rate												
Motor vehicle accidents **(6)**	**	**	253	658	929	1,175	1,167	920	728	635	600	634
Rate			5.0	12.0	15.0	17.5	16.4	12.5	9.6	8.2	7.6	8.1
Home accidents	**	**	**	**	**	**	**	1,546	1,823	1,941	1,699	1,568
Rate								21.0	24.0	25.0	21.4	19.9
Other accidents (Rest of V01-X59, Y85-Y86)	3,521	3,549	3,516	3,426	3,138	3,574	3,205	3,107	3,091	3,255	2,707	2,450
Rate	93.0	79.3	69.3	62.4	50.8	53.3	45.1	42.2	40.7	41.9	34.3	31.2
Intentional self-harm (Suicide) (X60-X84, Y87.0)	761	825	686	742	842	1,163	1,369	1,191	907	930	863	649
Rate	20.1	18.4	17.2	13.5	13.6	17.4	19.3	16.2	11.9	12.0	10.9	8.3
Assault (Homicide) (X85-Y09, Y87.1)	143	247	293	271	334	405	522	351	265	362	318	340
Rate	3.8	5.5	5.8	4.9	5.4	6.0	7.4	4.5	3.5	4.7	4.0	4.3
Events of undetermined intent (Y10-Y34, Y87.2, Y89.9)	**	**	**	**	**	**	**	**	**	**	**	**
Rate												
Alzheimer's disease (G30)	**	**	**	**	**	**	**	**	**	**	**	**
Rate												
Asthma (J45-J46)	**	**	**	**	**	**	**	**	**	**	**	**
Rate												

(1) Codes following causes in parenthesis are the International Classification of Diseases, Tenth Revision.
(2) Perinatal mortality ratio: see section titled "Rates and Ratios Defined" for definition.
(3) AIDS was first reported as a cause of death in 1982. See the Technical Notes: HIV and AIDS Mortality for definition changes in 1987 and 1999 under different ICD revisions.
(4) Data for 1982-1985.
(5) Rate less than 0.05.
(6) Motor vehicle accident codes are listed in Table 4.
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 the 2007 Summary Special Section for detailed description.
* Rates for intercensal years are not adjusted for intercensal population changes before 2000. 2001-2006 population data are from U.S. Census Bureau's annual estimates as of Octobe 2007. Population data for 2007 are from U.S Census bureau's anual estimates as of September 2008. See Technical Notes: Population.
** Data are not available or not applicable.
*** See Technical Notes: Maternal Death and Maternal Mortality.

Selected Causes, New York City, 1901-2008

AVERAGE																	
1956-1960	1961-1965	1966-1970	1971-1975	1976-1980	1981-1985	1986-1990	1991-1995	1996-2000	2001#	2002	2003	2004	2005	2006	2007##	2008	Comparability Ratio
4,290	4,333	3,477	2,312	1,875	1,624	1,691	1,339	881	760	742	807	760	732	740	697	698	
25.7	26.2	23.6	19.9	17.4	14.4	12.8	10.0	7.1	6.1	6.0	6.5	6.1	6.0	5.9	5.4	5.5	
3,220	3,226	2,602	1,714	1,333	1,097	1,159	912	609	524	497	542	516	481	484	430	466	
19.3	19.5	17.7	14.8	12.3	9.7	8.8	6.8	4.9	4.2	4.0	4.4	4.2	3.9	3.9	3.3	3.6	
2,909	2,922	2,351	1,480	1,131	927	972	753	478	409	379	432	377	374	362	311	345	
17.4	17.7	16.0	12.8	10.5	8.2	7.4	5.6	3.8	3.3	3.1	3.5	3.0	3.0	2.9	2.4	2.7	
2,362	2,276	1,885	1,288	835	719	698	686	518	444	460	410	419	422	379	387	395	
14.1	13.8	12.8	11.1	7.7	6.4	5.3	5.1	4.2	3.6	3.7	3.3	3.4	3.4	3.0	3.0	3.1	
31.1	31.0	28.4	23.6	18.1	14.5	12.6	10.6	8.0	6.9	6.8	6.7	6.4	6.5	5.9	5.4	5.8	
**	**	**	**	**	**	**	**	30	43	32	29	29	26	34	39	42	
								24.1	34.7	26.0	23.3	23.4	21.2	27.1	30.2	32.9	
107	109	73	36	28	33	29	26	22	41	31	22	28	21	29	32	39	
64.1	66.0	49.6	31.1	25.9	29.2	22.3	19.2	17.5	33.1	25.2	17.7	22.6	17.1	23.1	24.8	30.5	
824	624	432	235	141	125	174	135	39	30	26	26	26	17	15	14	13	0.94
10.6	8.0	5.5	3.1	2.0	1.7	2.4	1.8	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	
52	43	39	32	22	35	55	34	14	3	4	8	5	4	3	2	5	0.70
0.7	0.6	0.5	0.4	0.3	0.5	0.8	0.5	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	
**	**	**	**	**	768(4)	3,703	6,257	2,716	1,774	1,713	1,656	1,451	1,419	1,209	1,115	1,073	1.08
					10.7	50.9	83.2	36.4	22.0	21.1	20.3	17.7	17.3	14.7	13.5	12.8	
16,869	17,398	17,814	17,315	16,549	15,889	15,612	15,191	14,335	14,041	13,742	13,826	13,611	13,366	13,116	13,251	13,047	1.01
216.1	222.1	226.3	226.3	228.7	222.3	214.7	201.9	192.2	173.9	169.5	169.8	166.4	162.7	159.7	160.1	156.0	
1,157	1,294	1,890	2,434	2,387	2,217	2,201	2,083	1,849	1,746	1,708	1,738	1,727	1,648	1,580	1,597	1,593	0.98
30.9	34.8	51.0	68.1	71.0	66.7	64.4	60.6	52.7	45.6	44.4	44.9	44.4	42.1	40.4	40.4	39.9	
261	303	474	777	970	1,169	1,315	1,426	1,416	1,426	1,413	1,436	1,331	1,335	1,308	1,378	1,315	0.99
6.4	7.4	11.4	19.1	25.0	30.6	33.9	36.7	35.9	33.6	33.2	33.6	31.0	31.0	30.4	31.9	30.1	
**	**	**	**	**	**	**	1,805	1,685	1,595	1,577	1,638	1,495	1,427	1,473	1,376	1,419	1.00
							24.0	22.6	19.7	19.5	20.1	18.3	17.4	17.9	16.6	17.0	
1,573	1,694	1,787	1,723	1,622	1,533	1,537	1,510	1,354	1,348	1,218	1,249	1,261	1,254	1,184	1,109	1,095	1.01
38.7	41.3	42.9	42.3	41.9	40.1	39.6	38.9	34.3	31.8	28.6	29.2	29.4	29.1	27.5	25.6	25.1	
1,581	1,789	1,867	2,064	1,547	1,436	1,198	1,348	1,659	1,710	1,704	1,891	1,734	1,813	1,708	1,560	1,643	1.02
20.3	22.9	23.7	27.0	21.4	20.1	16.5	17.9	22.2	21.2	21.0	23.2	21.2	22.1	20.8	18.9	19.6	
38,988	39,943	41,981	40,639	37,978	37,818	33,527	32,074	29,330	27,407	27,638	26,992	25,687	25,592	24,760	24,300	24,016	1.00
499.5	510.2	532.4	531.1	524.8	529.1	461.0	426.4	393.2	339.3	340.9	331.4	314.1	311.6	301.4	293.7	287.1	
6,013	6,174	6,277	5,433	4,174	3,194	2,927	2,256	2,058	1,887	1,854	1,855	1,794	1,647	1,669	1,563	1,512	1.05
77.0	78.9	79.7	71.0	57.7	44.7	40.2	30.0	27.6	23.4	22.9	22.8	21.9	20.1	20.3	18.9	18.1	
3,459	3,394	3,562	3,164	3,000	2,740	3,354	2,810	2,548	2,505	2,508	2,692	3,003	2,921	2,578	2,247	2,300	0.70
44.3	43.4	45.2	41.4	41.5	38.3	46.1	37.4	34.2	31.0	30.9	33.1	36.7	35.6	31.4	27.2	27.5	
651	960	1,425	1,627	1,583	1,941	2,507	1,943	2,025	2,118	2,092	2,013	2,052	1,912	1,722	1,778	1,943	
8.3	12.3	18.1	21.3	21.9	27.2	34.5	25.8	27.1	26.2	25.8	24.7	25.1	23.3	21.0	21.5	23.2	
1,858	2,386	2,936	2,440	2,185	1,789	1,289	946	697	578	540	520	500	469	454	453	542	1.03
23.8	30.5	37.3	31.9	30.2	25.0	17.7	12.6	9.3	7.2	6.7	6.4	6.1	5.7	5.5	5.5	6.5	
573	509	447	372	381	383	816	311	564	800	711	635	592	531	468	435	385	1.26
7.3	6.5	5.7	4.9	5.3	5.4	11.2	4.1	7.6	9.9	8.8	7.8	7.2	6.5	5.7	5.3	4.6	
96	263	551	677	414	573	787	947	875	887	869	909	822	843	903	149##	129	
1.2	3.4	7.0	8.8	5.7	8.0	10.8	12.6	11.7	11.0	10.7	11.2	10.1	10.3	11.0	1.8	1.5	
**	**	**	**	**	1	143	49	26	22	36	51	33	63	76	700##	607	
					(5)	2.0	0.7	0.3	0.3	0.4	0.6	0.4	0.8	0.9	8.5	7.3	
655	714	887	834	606	477	624	554	419	402	414	384	349	380	385	300	320	0.95
8.4	9.1	11.3	10.9	8.4	6.7	8.6	7.4	5.6	5.0	5.1	4.7	4.3	4.6	4.7	3.6	3.8	
1,095	951	871	755	525	486	589	508	**	**	**	**	**	**	**	**	**	
14.0	12.1	11.1	9.9	7.3	6.8	8.1	6.8										
2,091	1,947	1,730	1,239	926	812	880	394	493	956	766	763	696	779	734	735	724	
26.8	24.9	22.0	16.2	12.8	11.4	12.1	5.2	6.6	11.8	9.4	9.4	8.5	9.5	8.9	8.9	8.7	
711	908	680	641	711	603	600	599	514	462	495	484	493	481	459	477	473	1.00
9.1	11.6	8.6	8.4	9.8	8.4	8.3	8.0	6.9	5.7	6.1	5.9	6.0	5.9	5.6	5.8	5.7	
366	592	992	1,663	1,700	1,763	1,902	1,815	778	670	616	657	598	579	624	517	558	1.00
4.7	7.6	12.6	21.7	23.5	24.7	26.2	24.1	10.4	8.3	7.6	8.1	7.3	7.0	7.6	6.2	6.7	
**	**	946	1,062	699	696	504	161	151	206	261	189	234	269	263	185	192	
		10.9	13.9	9.7	9.7	6.9	2.0	2.0	2.6	3.2	2.3	2.9	3.3	3.2	2.2	2.3	
**	**	**	**	**	**	**	84	115	172	230	249	242	269	246	283	374	1.58
							1.2	1.5	2.1	2.8	3.1	3.0	3.3	3.0	3.4	4.5	
**	**	**	**	**	**	**	269	243	215	205	205	180	177	149	135	149	0.89
							3.7	3.3	2.7	2.5	2.5	2.2	2.2	1.8	1.6	1.8	

Table 25a. **Average Yearly Age-Sex-Specific Death Rates per 1,000 Population, New York City, 1909-2001**

See Note

	1909-1911		1919-1920		1929-1931		1939-1941		1949-1951		1959-1961		1969-1971		1979-1981		1989-1991		1999-2001*	
Age (Years)	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
0-4	50.2	43.2	32.4	26.5	19.4	15.4	11.3	8.8	7.6	6.0	8.2	6.4	6.6	5.3	4.1	3.4	3.8	3.1	1.9	1.5
5-9	4.2	3.9	3.8	3.1	2.5	2.0	1.0	0.8	0.6	0.5	0.7	0.5	0.6	0.4	0.4	0.2	0.2	0.2	0.2	0.1
10-14	2.4	2.3	2.4	2.2	1.7	1.3	0.9	0.7	0.6	0.4	0.5	0.3	0.5	0.3	0.3	0.2	0.3	0.2	0.2	0.2
15-19	3.9	3.1	4.0	3.7	2.6	2.2	1.3	1.1	0.9	0.6	0.9	0.5	1.8	0.7	1.3	0.5	1.7	0.4	0.7	0.3
20-24	5.3	4.6	5.8	5.4	3.4	3.2	1.7	1.6	1.3	0.9	1.5	0.7	2.9	0.9	2.4	0.7	2.5	0.7	1.2	0.4
25-29	6.9	5.9	6.5	6.9	3.8	3.4	2.2	2.0	1.4	1.2	1.7	1.0	2.8	1.1	2.7	0.8	3.2	1.0	1.2	0.5
30-34	9.6	7.6	7.7	7.0	5.1	4.1	3.1	2.4	2.0	1.6	2.4	1.6	3.3	1.7	3.1	1.1	5.0	1.8	1.6	0.8
35-39	13.0	9.3	9.2	7.3	7.0	5.0	4.5	3.2	3.2	2.2	3.5	2.3	4.8	2.5	3.7	1.6	7.4	2.4	2.4	1.4
40-44	16.5	11.2	10.9	9.0	10.1	6.9	7.0	4.8	5.5	3.6	5.6	3.5	6.7	3.6	5.2	2.5	8.4	2.6	3.9	2.1
45-49	20.8	14.3	15.2	12.1	14.8	10.5	11.7	7.4	8.9	5.3	8.6	5.0	9.5	5.3	7.8	3.9	9.0	3.5	6.1	3.1
50-54	26.5	19.1	20.6	16.3	22.0	15.0	17.2	11.5	14.5	8.3	13.7	7.2	13.5	7.3	11.0	5.8	11.1	5.3	8.1	4.2
55-59	37.0	28.8	30.1	24.8	32.0	23.4	25.9	17.5	22.6	12.8	19.7	9.8	19.8	9.9	15.6	8.4	14.5	7.6	11.2	6.3
60-64	51.4	44.1	40.8	33.8	44.7	35.3	37.9	26.8	32.9	20.5	30.0	15.8	28.3	13.4	23.2	12.7	20.1	11.6	15.6	9.4
65-69	68.5	58.9	60.1	55.0	62.0	50.2	55.0	40.8	46.2	29.7	43.4	24.2	41.1	20.3	33.4	17.8	28.5	16.9	23.5	14.5
70-74	89.6	81.2	85.1	79.5	84.3	73.3	78.9	62.5	68.0	49.7	61.1	40.7	57.3	32.6	49.9	27.3	41.9	25.3	34.4	21.2
75-79	127.3	114.4	116.2	107.6	120.7	109.2	111.4	93.3	95.9	77.0	87.7	65.6	83.1	55.3	71.0	42.7	60.6	37.8	52.3	33.9
80-84	167.4	159.6	162.6	143.6	170.9	151.2	149.8	141.5	134.0	121.2	138.9	117.1	120.3	91.7	109.9	75.9	95.9	62.1	80.6	55.3
85 & Over	257.4	232.3	224.8	210.2	242.8	227.5	230.5	222.2	202.8	183.8	206.6	198.3	167.0	155.6	185.2	154.2	169.6	142.9	150.9	130.2

Note: Rates for 1979-1981, 1989-1991, and 1999-2001 are based on deaths to New York City residents only, regardless of place of death, while those for previous years included all events in New York City, regardless of the residence of the decedents. See Technical Notes: Life Expectancy, Age Specific and Adjusted Death Rates. Data are presented in every ten years when census population data are available.

*World Trade Center disaster deaths are not included. See Technical Notes: World Trade Center Deaths.

Table 25b. **Average Yearly Age-Sex-Race-Adjusted Death Rates for Selected Causes per 100,000 Population New York City, 1901-2001**

See Note See Note

Cause of Death	1901-1903	1909-1911	1919-1920	1929-1931	1939-1941	1949-1951	1959-1961	1969-1971	1979-1981	1989-1991	1999-2001*
All Causes	2,324.2	1,934.1	1,691.4	1,449.0	1,128.1	885.8	813.3	771.1	549.3	606.6	799.6
Influenza and Pneumonia	302.8	260.8	301.7	178.6	60.3	30.7	36.4	29.0	15.2	22.2	33.2
Malignant Neoplasms	116.8	124.8	134.3	156.0	176.9	170.6	162.9	161.2	126.0	128.0	178.4
Colon, Rectum, and Anus	**	**	**	**	**	**	**	**	**	**	21.3
Trachea, Bronchus, and Lung	**	**	**	**	**	**	**	**	**	**	40.8
Breast	**	**	**	**	**	**	**	**	**	**	16.7
Prostate	**	**	**	**	**	**	**	**	**	**	10.7
Diabetes Mellitus	23.3	25.4	26.5	35.8	43.6	17.0	14.8	15.9	10.3	7.1	22.9
Nephritis, Nephrotic Syndrome, and Nephrosis	244.8	181.9	141.6	63.3	52.6	6.7	5.5	3.5	2.3	4.9	11.1
Major Cardiovascular Diseases	258.6	383.2	427.7	506.7	421.1	404.8	355.8	306.6	239.1	228.7	372.9
Chronic Liver Disease and Cirrhosis	**	**	**	**	**	**	**	**	23.5	11.8	7.8
Chronic Lower Respiratory Diseases	**	**	**	**	**	**	**	**	9.3	13.1	23.0
HIV Disease	**	**	**	**	**	**	**	**	**	56.6	23.6
Total Accidents	108.2	87.8	73.8	81.3	55.9	38.4	28.1	22.7	18.2	21.6	20.6
Motor Vehicle Accidents	**	**	14.9	22.6	12.8	7.3	7.7	11.0	8.4	9.4	3.4
Other Accidents	**	**	58.9	58.7	43.1	31.0	20.3	11.6	9.8	12.1	17.2
Intentional Self-Harm (Suicide)	26.8	21.2	14.1	21.3	14.3	9.7	9.2	6.4	9.4	9.0	5.4
Assault (Homicide)	3.6	5.1	6.2	8.0	4.4	4.0	5.3	14.0	21.8	22.6	8.3

Note: Rates for 1979-1981, 1989-1991, and 1999-2001 are based on deaths to New York City residents only, regardless of place of death, while those for previous years included all events in New York City, regardless of the residence of the decedents. For 1901-1903 and 1909-1911, rates are adjusted for age and sex. For years before 1999, rates are adjusted for age, sex and race (white and others). The standard is the United States population, 1940.

* For 1999-2001 rates are adjusted only for age. A 2000 US standard population is used to calculate age-adjusted death rates. See Technical Notes: Life Expectancy, Age Specific and Adjusted Rates. World Trade Center Deaths are not included. See Technical Notes: World Trade Center Deaths.

** Data are not available or not applicable.

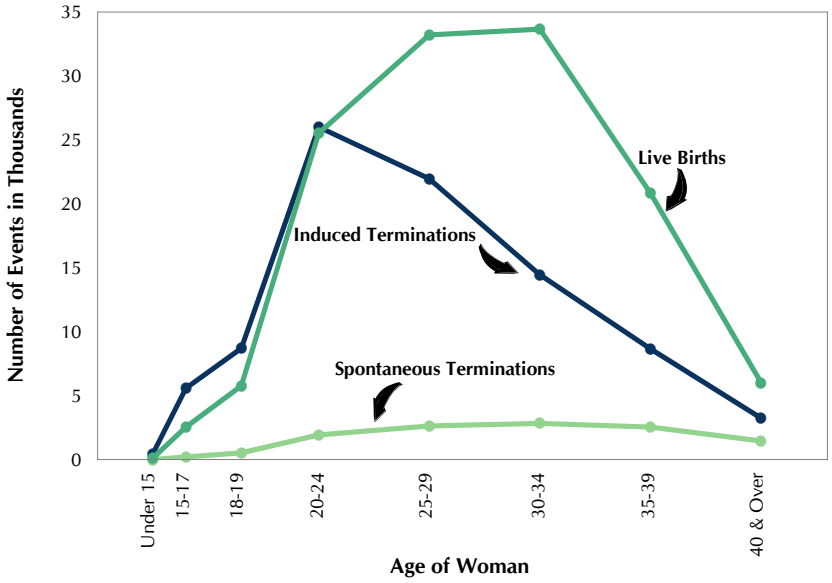
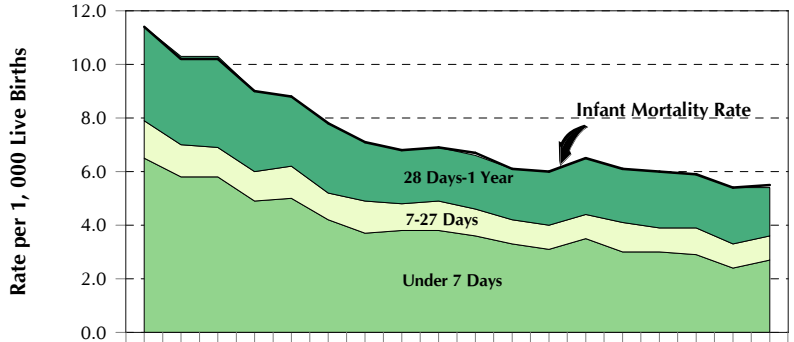


Figure 17. Live Births, Induced Terminations, and Spontaneous Terminations of Pregnancy by Age of Woman, New York City, 2008

Over 229,000 pregnancy outcomes were reported in New York City in 2008. Approximately 56% were live births, 39% were induced terminations, and 5% were spontaneous terminations (fetal deaths). The proportion of pregnancies ending in an induced termination is the highest among younger women, and is about 30% at age 30. For women under the age of 25, more pregnancies end in induced termination than in a live birth or spontaneous termination.

All induced and spontaneous terminations, regardless of gestational age or weight, are required to be reported. However, the number reported varies with amount of Health Department outreach done to reporting sites, which varies from year to year depending on available resources.



	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Infant Mortality (Under 1 Year)	11.4	10.2	10.2	9.0	8.8	7.8	7.1	6.8	6.9	6.7	6.1	6.0	6.5	6.1	6.0	5.9	5.4	5.5
Post-neonatal (28 Days-1 Year)	3.5	3.3	3.4	3.0	2.6	2.6	2.2	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.1	2.0	2.1	1.8
Late Neonatal (7-27 Days)	1.4	1.2	1.1	1.1	1.2	1.0	1.2	1.0	1.1	1.0	0.9	0.9	0.9	1.1	0.9	1.0	0.9	0.9
Early Neonatal (Under 7 Days)	6.5	5.8	5.8	4.9	5.0	4.2	3.7	3.8	3.8	3.6	3.3	3.1	3.5	3.0	3.0	2.9	2.4	2.7

Figure 18. Infant, Neonatal, and Post-neonatal Mortality Rates, New York City, 1991-2008

The 2008 infant mortality rate (IMR) of 5.5 infant deaths (under one year of age) per 1,000 live births, remained very close to its 2007 historical low with a statistically insignificant 1.9% increase from 5.4 in 2007. Early neonatal (under seven days) mortality rates increased from 2.4 in 2007 to 2.7 per 1000 live births while late neonatal (7-27 days) mortality rates remained stable at 0.9 deaths per 1,000 births and post-neonatal (28 days to 1 year) mortality rates decreased from 2.1 in 2007 to 1.8 per 1,000 live births.

From 1991 to 2008, the rate of early neonatal deaths declined by more than half, the rate of post-neonatal deaths declined by 49 percent, and the rate of late neonatal deaths declined by about 36 percent.

Note: See Table 53 and Figure 28 on the Perinatal Periods of Risk (PPOR) approach to understanding fetal-infant mortality (page 68).

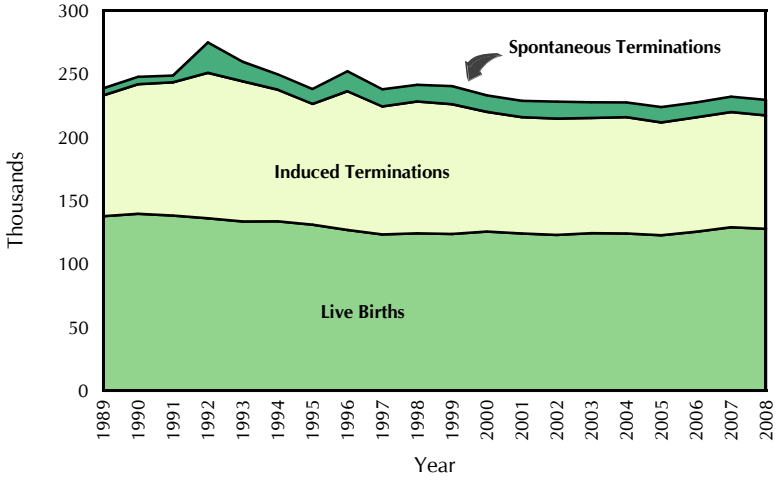


Figure 19. Number of Live Births, Induced Terminations, and Spontaneous Terminations, New York City, 1989-2008

Total NYC pregnancies (the sum of reported live births, spontaneous and induced terminations) appears to have decreased since 1992. The number of live births increased in the 1980s and reached its current peak in 1990. (The historic peak was 168,393 in 1961.) Between 1991 and 2005, the number of births decreased incrementally to a low of 122,725. The number of spontaneous and induced terminations also declined through 2004 and 2005 respectively. The number of spontaneous terminations continues to hover near 12,000 per year and induced terminations near 90,000 per year.

Note: See Technical Note for information about Spontaneous and Induced Terminations

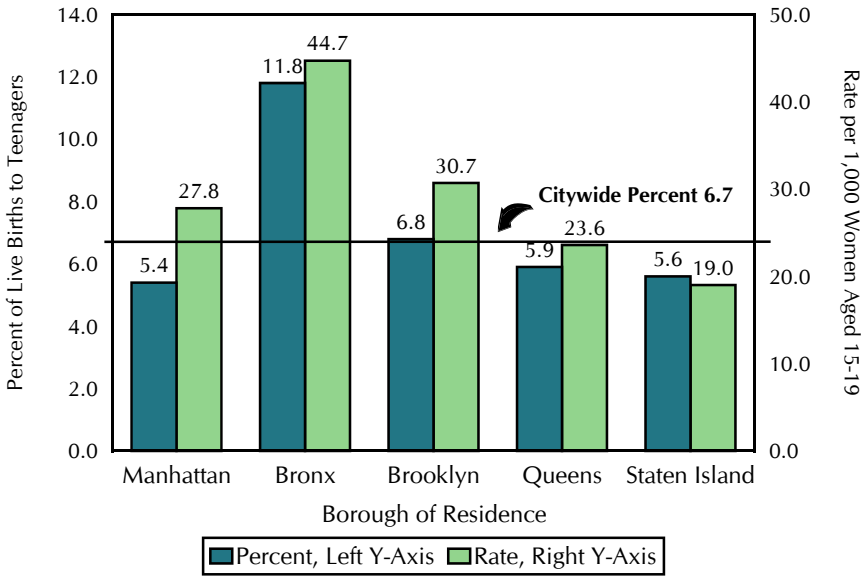


Figure 20. Percent and Rate of Live Births to Teenagers by Borough of Residence, New York City, 2006-2008

In 2006-2008, 11.8% of all live births in the Bronx were to teenagers (age under 20), the highest of the five boroughs of New York City. This was about two times higher than the percent of live births to teenagers in Manhattan, at 5.4%; Queens, at 5.9%; and Staten Island, at 5.6%. The percent of live births to teens in Brooklyn was 6.8% during this period. Citywide, the percent of all live births to teenagers was 6.7% in 2006-2008, much lower than the U.S. figure of 10.4% for 2006, the latest year for which data were available. The birth rate to teenagers aged 15-19 had the same pattern, with the Bronx having the highest rate, 44.7 per 1000 women, and Staten Island having the lowest, 19.0 per 1,000 women. The citywide birth rate to mothers aged 15-19 was 31.3 per 1,000 women in 2006-2008.
See Demographics, Population in Technical Notes for information about population estimates used.

Table 26. **Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy by Borough of Residence and Age of Woman New York City, 2008**

Borough of Residence / Pregnancy Outcome	Total	Age of Woman (Years)								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Unknown or Not Stated
NEW YORK CITY	229,436	584	8,328	14,998	53,455	57,791	50,948	32,036	10,740	556
Live Births	127,680	113	2,538	5,772	25,523	33,210	33,661	20,829	6,034	–
Spontaneous Terminations	12,287	14	209	531	1,934	2,632	2,828	2,542	1,459	138
Induced Terminations	89,469	457	5,581	8,695	25,998	21,949	14,459	8,665	3,247	418
MANHATTAN	34,958	76	1,161	1,998	6,756	7,431	8,980	6,244	2,227	85
Live Births	20,160	15	304	712	2,646	3,918	6,459	4,580	1,526	–
Spontaneous Terminations	1,510	2	16	50	160	224	409	410	225	14
Induced Terminations	13,288	59	841	1,236	3,950	3,289	2,112	1,254	476	71
BRONX	43,867	166	2,297	3,867	12,203	11,564	7,915	4,288	1,457	110
Live Births	21,807	39	834	1,646	5,767	6,051	4,384	2,355	731	–
Spontaneous Terminations	1,810	1	52	129	372	441	357	279	168	11
Induced Terminations	20,250	126	1,411	2,092	6,064	5,072	3,174	1,654	558	99
BROOKLYN	73,163	169	2,551	4,766	18,559	19,345	15,328	9,321	2,942	182
Live Births	41,286	39	778	1,929	9,757	11,495	9,940	5,808	1,540	–
Spontaneous Terminations	4,162	1	80	173	779	925	916	802	418	68
Induced Terminations	27,715	129	1,693	2,664	8,023	6,925	4,472	2,711	984	114
QUEENS	48,507	92	1,496	2,934	10,932	13,117	10,987	6,623	2,226	100
Live Births	27,943	17	473	1,144	5,518	8,163	7,351	4,160	1,117	–
Spontaneous Terminations	3,111	8	46	127	463	766	687	621	372	21
Induced Terminations	17,453	67	977	1,663	4,951	4,188	2,949	1,842	737	79
STATEN ISLAND	9,277	26	309	542	1,827	2,305	2,361	1,460	429	18
Live Births	5,730	3	116	205	924	1,528	1,726	1,012	216	–
Spontaneous Terminations	757	2	9	24	84	145	199	174	108	12
Induced Terminations	2,790	21	184	313	819	632	436	274	105	6
NON-RESIDENTS	19,326	55	501	861	3,098	3,934	5,316	4,062	1,443	56
Live Births	10,753	–	33	135	911	2,055	3,801	2,914	904	–
Spontaneous Terminations	930	–	6	28	76	127	259	254	168	12
Induced Terminations	7,643	55	462	698	2,111	1,752	1,256	894	371	44
RESIDENCE UNKNOWN	338	–	13	30	80	95	61	38	16	5
Live Births	1	–	–	1	–	–	–	–	–	–
Spontaneous Terminations	7	–	–	–	–	4	1	2	–	–
Induced Terminations	330	–	13	29	80	91	60	36	16	5

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

Table 27. **Spontaneous Terminations of Pregnancy by Gestation and Age of Woman New York City, 2008**

Gestation in Weeks	Total	Age of Woman (Years)								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Unknown or Not Stated
Total	12,287	14	209	531	1,934	2,632	2,828	2,542	1,459	138
Under 13	9,430	9	160	395	1,421	1,998	2,146	1,988	1,220	93
13-15	723	2	5	34	128	168	157	154	70	5
16-19	933	1	17	47	157	224	234	175	72	6
20-27	754	2	20	38	150	155	186	146	53	4
28 & Over	395	–	5	17	76	80	98	71	42	6
Not Stated	52	–	2	–	2	7	7	8	2	24

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

Table 27a. **Selected Characteristics of Spontaneous Terminations of Pregnancy, 28 Weeks Gestation and Over by Age of Woman, New York City, 2008**

		Age of Woman (Years)								
	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Spontaneous Terminations of Pregnancy, 28 Weeks & Over										
Total	395	0	5	17	76	80	98	71	42	6
Sex										
Male	202	–	2	8	37	40	50	42	21	2
Female	174	–	2	8	36	35	41	27	21	4
Undetermined	19	–	1	1	3	5	7	2	–	–
Weight at Delivery in Grams										
Under 500	11	–	–	–	2	4	2	2	–	1
500-999	30	–	–	1	5	8	9	6	1	–
1000-1499	63	–	1	6	10	10	16	9	10	1
1500-1999	52	–	–	2	7	12	12	8	10	1
2000-2499	62	–	1	3	15	9	17	13	3	1
2500 & Over	139	–	2	4	31	26	33	26	16	1
Not Stated	38	–	1	1	6	11	9	7	2	1

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

Table 27b. **Selected Characteristics of Spontaneous Terminations of Pregnancy, 28 Weeks Gestation and Over by Ethnic Group of Woman, New York City, 2008**

		Ethnic Group of Woman						
	Total	Puerto Rican	Other Hispanic	Asian & Pacific Islander	Non-Hispanic White	Non-Hispanic Black	Other	Not Stated
Spontaneous Terminations of Pregnancy, 28 Weeks & Over								
Total	395	16	92	41	90	145	2	9
Sex								
Male	202	6	43	20	52	75	2	4
Female	174	9	44	20	36	63	–	2
Undetermined	19	1	5	1	2	7	–	3
Weight at Delivery in Grams								
Under 500	11	–	1	1	7	2	–	–
500-999	30	3	6	3	7	10	1	–
1,000-1,499	63	5	12	10	11	24	–	1
1,500-1,999	52	2	13	4	12	20	–	1
2,000-2,499	62	1	16	5	12	27	–	1
2,500 & Over	139	3	34	13	36	47	–	6
Not Stated	38	2	10	5	5	15	1	–

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

Table 28. Live Births, Spontaneous Terminations of 28 Weeks Gestation and Over, and Induced Terminations of Pregnancy by Borough of Residence and Occurrence, New York City, 2008

Borough of Residence / Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	217,544	82,102	30,186	55,866	43,254	6,136
Live Births	127,680	46,125	17,454	33,383	24,835	5,883
Spontaneous Terminations	395	123	63	120	74	15
Induced Terminations	89,469	35,854	12,669	22,363	18,345	238
MANHATTAN	33,493	30,607	1,298	1,081	489	18
Live Births	20,160	19,418	404	200	120	18
Spontaneous Terminations	45	45	–	–	–	–
Induced Terminations	13,288	11,144	894	881	369	–
BRONX	42,139	13,996	26,827	584	723	9
Live Births	21,807	5,425	16,027	182	165	8
Spontaneous Terminations	82	19	62	–	–	1
Induced Terminations	20,250	8,552	10,738	402	558	–
BROOKLYN	69,150	17,012	330	47,257	3,626	925
Live Births	41,286	9,242	100	29,789	1,240	915
Spontaneous Terminations	149	28	–	110	7	4
Induced Terminations	27,715	7,742	230	17,358	2,379	6
QUEENS	45,477	8,519	354	3,461	33,105	38
Live Births	27,943	5,215	132	1,896	20,663	37
Spontaneous Terminations	81	15	–	6	60	–
Induced Terminations	17,453	3,289	222	1,559	12,382	1
STATEN ISLAND	8,532	1,420	46	2,086	123	4,857
Live Births	5,730	320	15	735	38	4,622
Spontaneous Terminations	12	1	–	–	1	10
Induced Terminations	2,790	1,099	31	1,351	84	225
NON-RESIDENTS	18,422	10,384	1,300	1,330	5,119	289
Live Births	10,753	6,504	776	581	2,609	283
Spontaneous Terminations	26	15	1	4	6	–
Induced Terminations	7,643	3,865	523	745	2,504	6
RESIDENCE UNKNOWN	331	164	31	67	69	–
Live Births	1	1	–	–	–	–
Spontaneous Terminations	–	–	–	–	–	–
Induced Terminations	330	163	31	67	69	–

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

Table 28a. Teen Births and Pregnancy Rates* by Ethnic Group and Borough of Residence, New York City, 2008

	Age of Woman in Years	Live Births	Spontaneous Terminations	Induced Terminations	Population (Women)	Birth Rate per 1,000 Women	Pregnancy Rate per 1,000 Women
New York City **	15-17	2,538	209	5,581	160,036	15.9	52.0
	18-19	5,772	531	8,695	112,539	51.3	133.3
	Age 15-19	8,310	740	14,276	272,575	30.5	85.6
Ethnic Group**							
Hispanic	15-17	1,510	99	2,185	53,670	28.1	70.7
	18-19	3,192	218	3,225	37,666	84.7	176.2
	Age 15-19	4,702	317	5,410	91,336	51.5	114.2
Asian and Pacific Islander	15-17	41	4	172	15,363	2.7	14.1
	18-19	159	10	349	11,167	14.2	46.4
	Age 15-19	200	14	521	26,530	7.5	27.7
Non-Hispanic White	15-17	109	10	334	40,219	2.7	11.3
	18-19	477	50	654	31,111	15.3	38.0
	Age 15-19	586	60	988	71,330	8.2	22.9
Non-Hispanic Black	15-17	840	77	2,757	48,042	17.5	76.5
	18-19	1,844	203	4,248	30,600	60.3	205.7
	Age 15-19	2,684	280	7,005	78,642	34.1	126.8
Residence							
NYC Events to NYC Residents***	15-17	2,505	203	5,106	160,036	15.7	48.8
	18-19	5,636	503	7,968	112,539	50.1	125.4
	Age 15-19	8,141	706	13,074	272,575	29.9	80.4
Manhattan	15-17	304	16	841	19,366	15.7	60.0
	18-19	712	50	1,236	19,600	36.3	101.9
	Age 15-19	1,016	66	2,077	38,966	26.1	81.1
Bronx	15-17	834	52	1,411	34,011	24.5	67.5
	18-19	1,646	129	2,092	23,443	70.2	165.0
	Age 15-19	2,480	181	3,503	57,454	43.2	107.3
Brooklyn	15-17	778	80	1,693	54,281	14.3	47.0
	18-19	1,929	173	2,664	35,240	54.7	135.2
	Age 15-19	2,707	253	4,357	89,521	30.2	81.7
Queens	15-17	473	46	977	41,681	11.3	35.9
	18-19	1,144	127	1,663	27,720	41.3	105.8
	Age 15-19	1,617	173	2,640	69,401	23.3	63.8
Staten Island	15-17	116	9	184	10,697	10.8	28.9
	18-19	205	24	313	6,536	31.4	82.9
	Age 15-19	321	33	497	17,233	18.6	49.4
NYC Events to Non-NYC Residents	15-17	33	6	462	–	N.A.	N.A.
	18-19	135	28	698	–	N.A.	N.A.
	Age 15-19	168	34	1,160	–	N.A.	N.A.

* Population data used to calculate rates are from 2008 Census Bureau's pre-challenged estimates. See Technical Notes: Population.

** Includes all events occurring in NYC regardless of residence; other/unknown ethnicities are not presented.

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

N.A.: Not applicable.

Table 29. Induced Terminations of Pregnancy by Selected Characteristics and Age of Woman, New York City, 2008

	Total	Age of Woman in Years								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Induced Termination of Pregnancy, All	89,469	457	5,581	8,695	25,998	21,949	14,459	8,665	3,247	418
Ethnic Group										
Hispanic	28,921	183	2,185	3,225	8,941	7,194	4,083	2,236	730	144
Asian and Pacific Islander	5,557	7	172	349	1,245	1,392	1,160	855	352	25
Non-Hispanic White	10,451	28	334	654	2,834	2,691	1,896	1,339	623	52
Non-Hispanic Black	41,857	225	2,757	4,248	12,282	10,013	6,838	3,922	1,406	166
Other	396	2	19	36	98	91	63	53	32	2
Unknown	2,287	12	114	183	598	568	419	260	104	29
Marital Status										
Married	12,667	15	80	240	1,736	3,194	3,387	2,683	1,261	71
Not Married	74,489	429	5,398	8,260	23,656	18,196	10,658	5,735	1,874	283
Unknown	2,313	13	103	195	606	559	414	247	112	64
Gestational Age in Weeks										
6 or Less	30,335	79	1,228	2,180	8,430	8,237	5,532	3,248	1,253	148
7 - 8	27,007	110	1,480	2,436	7,594	6,785	4,607	2,864	999	132
9 - 10 s	13,082	76	1,011	1,485	3,914	3,021	2,010	1,101	407	57
11 - 12	6,644	54	594	859	2,110	1,441	863	496	202	25
13 - 15	4,487	41	444	620	1,462	938	514	330	112	26
16 - 20	4,705	52	519	716	1,553	882	504	334	131	14
21 or Mores	2,102	42	250	317	646	375	240	153	72	7
Unknown	1,107	3	55	82	289	270	189	139	71	9
Type of Termination Procedure										
Suction Curettage	67,389	290	3,917	6,160	19,155	16,861	11,392	6,813	2,504	297
Sharp Curettage / D+C	1,856	7	82	151	463	430	322	251	128	22
Dilatation and Evacuation	10,629	131	1,155	1,587	3,462	2,049	1,158	760	284	43
Intrauterine Instillation	15	–	–	–	2	3	4	4	1	1
Hysterotomy / Hysterectomy	3	–	–	–	–	1	2	–	–	–
Medical (Non-Surgical)	8,619	22	373	719	2,656	2,333	1,437	746	284	49
Other	8	–	–	1	–	2	3	–	2	–
Unknown	950	7	54	77	260	270	141	91	44	6

See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table 29a. Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Ethnic Group New York City, 1999-2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Marital Status (percent)										
Married	17.9	16.4	15.8	15.8	15.9	14.7	14.3	14.2	13.9	14.2
Not Married	79.3	81.0	81.6	82.2	82.1	82.1	83.0	83.6	83.6	83.3
Unknown	2.9	2.6	2.6	2.0	2.0	3.2	2.7	2.2	2.5	2.6
Age of Woman in Years										
<15	672	601	564	506	518	550	524	472	470	457
15 - 19	16,525	15,497	14,999	14,706	14,487	14,917	14,838	15,058	14,844	14,276
20 - 24	29,857	27,799	27,100	27,076	26,815	27,159	25,905	26,105	26,529	25,998
25 - 29	24,758	22,502	21,549	21,790	21,748	22,038	21,483	22,303	22,389	21,949
30 - 34	17,337	15,735	15,376	15,285	14,833	14,692	14,036	14,183	14,171	14,459
35 - 39	9,875	9,193	8,981	8,989	8,930	8,893	8,594	8,538	8,802	8,665
40+	3,138	2,953	2,922	3,126	3,166	3,148	3,156	3,119	3,242	3,247
Unknown	172	186	301	322	323	276	355	379	423	418
Ethnic Group										
Hispanic	32,826	31,118	29,684	30,098	29,953	27,946	27,210	29,678	28,896	28,921
Asian and Pacific Islander	4,969	4,873	4,977	5,097	5,341	4,811	4,354	4,959	5,444	5,557
Non-Hispanic White	11,833	10,438	10,220	9,903	9,779	9,426	9,804	9,781	10,221	10,451
Non-Hispanic Black	48,245	45,150	44,213	43,912	41,961	39,847	40,227	42,289	42,814	41,857
Other	749	532	603	526	597	646	541	635	518	396
Unknown	3,712	2,355	2,095	2,264	3,189	8,997	6,755	2,815	2,977	2,287
Total	102,334	94,466	91,792	91,800	90,820	91,673	88,891	90,157	90,870	89,469

See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table 30. Live Births by Ancestry of Mother and Borough of Residence, New York City, 2008

Ancestry of Mother	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	127,680	20,160	21,807	41,286	27,943	5,730	10,753	1
Puerto Rican	10,351	1,293	4,509	2,443	1,198	505	402	1
Dominican	10,716	2,570	4,553	1,601	1,477	92	423	–
Colombian	1,317	113	74	130	843	38	119	–
Ecuadorian	3,535	244	475	607	2,050	51	108	–
Mexican	8,662	959	1,975	2,608	2,477	544	99	–
Cuban	346	75	87	49	64	15	56	–
Other Hispanic	5,453	562	1,108	1,376	1,863	159	385	–
African American	15,077	1,596	3,477	6,691	2,180	490	643	–
American	10,070	2,275	393	3,801	1,389	654	1,558	–
Guyanese	1,689	20	148	483	962	11	65	–
Haitian	1,653	72	35	1,012	382	16	136	–
Jamaican	2,159	50	520	860	596	13	120	–
Trinidadian	842	21	38	491	249	13	30	–
Other North, Central, and South American	2,084	186	267	1,034	419	31	147	–
English	919	435	19	248	67	12	138	–
German	1,108	444	31	210	146	51	226	–
Irish	2,316	597	92	425	346	243	613	–
Italian	4,184	577	167	842	543	1,161	894	–
Polish	1,398	186	15	404	516	103	174	–
Russian	1,788	341	34	723	329	141	220	–
Other European	4,847	1,164	313	1,485	916	316	653	–
Asian Indian	2,191	325	95	200	1,092	50	429	–
Bangladeshi	1,541	50	204	371	881	11	24	–
Chinese	8,291	1,672	104	3,557	2,413	134	411	–
Filipino	943	137	61	129	407	61	148	–
Korean	1,194	285	19	107	582	29	172	–
Pakistani	1,323	56	67	591	436	64	109	–
Other Asian	4,634	895	243	1,593	1,311	208	384	–
Jewish or Hebrew	7,188	642	88	5,189	352	135	782	–
Other or Not Stated	9,861	2,318	2,596	2,026	1,457	379	1,085	–

Note: See Technical Notes: Race, Ancestry, Ethnic Group, and Birthplace.

Table 31. Live Births by Mother's Ethnic Group and Age New York City, 2008

Ethnic Group	Total	Age of Mother in Years								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Total	127,680	113	2,538	5,772	25,523	33,210	33,661	20,829	6,034	0
Puerto Rican	10,351	18	519	1,125	3,038	2,646	1,835	916	254	–
Other Hispanic	30,029	48	991	2,067	7,632	8,366	6,449	3,520	956	–
Asian and Pacific Islander	18,204	–	41	159	2,459	5,840	5,783	3,216	706	–
Non-Hispanic White	38,383	2	109	477	5,116	8,367	12,752	8,861	2,699	–
Non-Hispanic Black	27,917	43	840	1,844	6,770	7,295	6,079	3,789	1,257	–
Non-Hispanic Other	493	–	11	21	112	143	120	61	25	–
Non-Hispanic of Two or More Races	2,055	2	23	65	345	494	587	415	124	–
Not Stated	248	–	4	14	51	59	56	51	13	–

Note: See Technical Notes: Births, Changes to Items Reported in the Summary.

Table 32. Selected Characteristics of Live Births by Age of Mother, New York City, 2008

		Age of Mother in Years								
	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Total Live Births	127,680	113	2,538	5,772	25,523	33,210	33,661	20,829	6,034	0
Sex										
Male	65,612	56	1,353	2,970	13,003	17,073	17,352	10,727	3,078	–
Female	62,068	57	1,185	2,802	12,520	16,137	16,309	10,102	2,956	–
First Live Birth*										
Yes	58,319	112	2,345	4,798	15,118	14,019	13,193	6,760	1,974	–
No	69,210	1	190	971	10,375	19,152	20,428	14,042	4,051	–
Unknown	151	–	3	3	30	39	40	27	9	–
Weight at Delivery in Grams										
Under 500	121	–	3	8	25	36	19	23	7	–
500-999	822	–	18	44	153	189	218	160	40	–
1000-1499	1,116	1	23	62	224	235	269	217	85	–
1500-1999	2,192	4	46	104	418	477	556	418	169	–
2000-2499	7,121	13	196	369	1,434	1,698	1,717	1,219	475	–
2500-2999	25,741	25	650	1,399	5,622	6,587	6,303	3,944	1,211	–
3000-3499	51,161	46	1,060	2,404	10,509	13,676	13,439	7,835	2,192	–
3500-3999	31,162	21	454	1,157	5,785	8,210	8,720	5,416	1,399	–
4000-4499	7,208	2	78	199	1,203	1,858	2,112	1,369	387	–
4500-4999	936	1	7	25	140	225	271	205	62	–
5000 & Over	96	–	3	1	10	19	37	19	7	–
Not Stated	4	–	–	–	–	–	–	4	–	–
Gestational Age in Weeks										
< 32	2,159	2	49	125	422	489	528	411	133	–
32-36	10,296	14	249	437	1,816	2,428	2,665	1,952	735	–
37 or More	115,212	97	2,240	5,210	23,284	30,292	30,464	18,459	5,166	–
Unknown	13	–	–	–	1	1	4	7	–	–
Plurality										
Single	122,792	113	2,507	5,632	24,874	32,204	32,267	19,668	5,527	–
Twin	4,666	–	31	139	634	976	1,318	1,076	492	–
Triplet	191	–	–	1	15	26	57	77	15	–
Quadruplet	20	–	–	–	–	4	8	8	–	–
Quintuplet	5	–	–	–	–	–	5	–	–	–
Sextuplet	6	–	–	–	–	–	6	–	–	–
Apgar Score at 5 Minutes										
6 or less	1,685	1	30	57	246	346	482	383	140	–
7	1,031	1	30	50	216	247	257	174	56	–
8	5,935	5	136	305	1,248	1,416	1,498	1,005	322	–
9	115,271	101	2,242	5,147	23,053	30,190	30,487	18,706	5,345	–
10	3,525	3	95	201	710	946	881	533	156	–
Not Stated	233	2	5	12	50	65	56	28	15	–
Method of Delivery										
Vaginal	83,768	97	2,018	4,350	18,773	22,815	21,295	11,591	2,829	–
Vaginal After Any Prior C-Section	1,645	–	1	27	262	470	485	301	99	–
Primary C-Section	27,806	16	486	1,209	4,914	6,436	7,426	5,351	1,968	–
Repeat C-Section	14,096	–	28	169	1,514	3,396	4,356	3,516	1,117	–
Unknown	365	–	5	17	60	93	99	70	21	–
Place of Birth*										
Home	616	2	6	14	77	135	211	123	48	–
Voluntary Hospital	103,280	76	1,694	3,935	18,895	26,523	28,651	18,280	5,226	–
Municipal Hospital	23,477	35	830	1,810	6,480	6,466	4,708	2,394	754	–
Birthing Center	203	–	4	9	47	63	59	21	–	–
Other	104	–	4	4	24	23	32	11	6	–
Attendant										
Physician	116,153	94	2,170	4,930	22,330	30,097	31,219	19,574	5,739	–
Certified Nurse Midwife	11,082	18	355	822	3,090	2,992	2,330	1,197	278	–
Other	445	1	13	20	103	121	112	58	17	–
Primary Payer for this Birth*										
Medicaid/Other Government	73,680	95	2,132	5,056	20,996	21,382	14,419	7,517	2,083	–
Private	50,182	10	239	427	3,684	10,890	18,350	12,791	3,791	–
Self-Pay	1,925	5	89	169	489	483	399	227	64	–
Other**	1,142	1	46	67	190	282	299	197	60	–
Not Stated	751	2	32	53	164	173	194	97	36	–
Marital Status of Mother**										
Not Married	56,107	113	2,419	5,055	16,499	15,051	9,789	5,389	1,792	–
Married	71,573	–	119	717	9,024	18,159	23,872	15,440	4,242	–
Years of Education*										
11th Grade or Less/12th Grade No Diploma	31,992	113	2,247	3,158	8,581	8,355	5,595	3,041	902	–
High School Graduate or GED	29,069	–	258	1,855	8,268	8,188	5,978	3,442	1,080	–
Some College/Associate Degree	27,812	–	12	717	6,869	8,330	6,859	3,912	1,113	–
Bachelor's Degree	21,646	–	–	7	1,402	5,451	8,037	5,293	1,456	–
Master's Degree or Higher	16,596	–	–	–	283	2,743	7,063	5,056	1,451	–
Not Stated	565	–	21	35	120	143	129	85	32	–
Birthplace of Mother***										
United States including Puerto Rico	62,552	87	1,820	3,877	13,813	14,244	15,624	10,151	2,936	–
Foreign	64,915	26	717	1,885	11,659	18,908	17,990	10,639	3,091	–
Not Stated	213	–	1	10	51	58	47	39	7	–

* See Technical Notes: BIRTHS, Changes to Items Reported in the Summary.

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

*** Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in foreign category.

Table 33. Selected Characteristics of Live Births by Mother's Ethnic Group, New York City, 2008

		Ethnic Group of Mother							
	Total	Puerto Rican	Other Hispanic	Asian	Non-Hispanic White	Non-Hispanic Black	Other	Non-Hispanic Two or More Races	Not Stated
Total Live Births	127,680	10,351	30,029	18,204	38,383	27,917	493	2,055	248
Sex									
Male	65,612	5,391	15,391	9,444	19,761	14,180	264	1,059	122
Female	62,068	4,960	14,638	8,760	18,622	13,737	229	996	126
First Live Birth*									
Yes	58,319	4,658	12,523	9,113	18,197	12,451	223	1,043	111
No	69,210	5,685	17,483	9,062	20,139	15,429	270	1010	132
Unknown	151	8	23	29	47	37	–	2	5
Weight at Delivery in Grams									
Under 500	121	13	21	12	12	58	1	2	2
500-999	822	92	140	49	148	382	3	6	2
1000-1499	1,116	120	196	110	239	417	9	22	3
1500-1999	2,192	239	386	237	557	712	10	45	6
2000-2499	7,121	654	1,400	1,005	1,847	2,034	45	123	13
2500-2999	25,741	2,157	5,634	4,284	6,546	6,500	151	404	65
3000-3499	51,161	4,096	12,169	7,843	15,334	10,713	165	765	76
3500-3999	31,162	2,332	8,004	3,913	10,635	5,615	84	516	63
4000-4499	7,208	568	1,799	679	2,704	1,275	19	149	15
4500-4999	936	71	250	66	332	188	6	22	1
5000 & Over	96	8	30	6	28	23	–	1	–
Not Stated	4	1	–	–	1	–	–	–	2
Gestational Age in Weeks									
< 32	2,159	267	383	166	409	885	10	30	9
32-36	10,296	1,028	2,198	1,221	2,663	2,911	60	193	22
37 or More	115,212	9,055	27,447	16,815	35,306	24,120	423	1,832	214
Unknown	13	1	1	2	5	1	–	–	3
Plurality									
Single	122,792	10,041	29,256	17,690	36,195	26,914	487	1,965	244
Twin	4,666	301	747	496	2,064	961	6	87	4
Triplet	191	9	16	18	107	38	–	3	–
Quadruplet	20	–	4	–	12	4	–	–	–
Quintuplet	5	–	–	–	5	–	–	–	–
Sextuplet	6	–	6	–	–	–	–	–	–
Apgar Score at 5 Minutes									
6 or less	1,685	137	261	141	672	449	3	16	6
7	1,031	116	214	98	200	378	4	14	7
8	5,935	575	1,336	707	1,455	1,727	24	101	10
9	115,271	9,100	27,185	16,768	35,129	24,551	447	1,872	219
10	3,525	397	979	475	887	720	14	50	3
Not Stated	233	26	54	15	40	92	1	2	3
Method of Delivery									
Vaginal	83,768	6,844	19,967	12,035	25,689	17,432	323	1,314	164
Vaginal After Any Prior C-Section	1,645	121	352	163	607	368	3	25	6
Primary C-Section	27,806	2,216	5,779	3,960	8,436	6,749	106	509	51
Repeat C-Section	14,096	1,136	3,848	1,986	3,540	3,296	61	205	24
Unknown	365	34	83	60	111	72	–	2	3
Place of Birth*									
Home	616	29	65	34	317	148	2	17	4
Voluntary Hospital	103,280	8,071	20,455	15,463	36,824	20,072	436	1,741	218
Municipal Hospital	23,477	2,216	9,444	2,686	1,152	7,608	54	293	24
Birthing Center	203	28	41	12	65	52	1	3	1
Other	104	7	24	9	25	37	–	1	1
Attendant									
Physician	116,153	9,177	26,482	17,321	35,655	25,056	429	1,812	221
Certified Nurse Midwife	11,082	1,131	3,438	848	2,633	2,709	62	236	25
Other	445	43	109	35	95	152	2	7	2
Primary Payer for this Birth*									
Medicaid/Other Government	73,680	7,182	23,844	10,958	11,176	19,158	306	926	130
Private	50,182	2,822	5,352	6,900	26,514	7,266	170	1,055	103
Self-Pay	1,925	190	434	142	303	800	7	42	7
Other	1,142	110	281	128	265	334	6	14	4
Not Stated	751	47	118	76	125	359	4	18	4
Marital Status of Mother**									
Not Married	56,107	7,862	19,889	3,398	4,477	19,414	223	709	135
Married	71,573	2,489	10,140	14,806	33,906	8,503	270	1,346	113
Years of Education*									
11th Grade or Less/12th Grade No Diploma	31,992	3,749	12,794	4,906	3,261	6,872	115	256	39
High School Graduate or GED	29,069	2,529	7,186	3,685	7,240	7,841	165	396	27
Some College/Associate Degree	27,812	2,959	6,440	2,651	6,364	8,661	139	543	55
Bachelor's Degree	21,646	766	2,380	4,091	10,805	3,031	52	484	37
Master's Degree or Higher	16,596	327	1,092	2,839	10,575	1,350	19	371	23
Not Stated	565	21	137	32	138	162	3	5	67
Birthplace of Mother***									
United States including Puerto Rico	62,552	10,277	6,527	1,423	26,873	16,124	96	1,094	138
Foreign	64,915	70	23,427	16,759	11,448	11,756	397	957	101
Not Stated	213	4	75	22	62	37	–	4	9

* See Technical Notes: BIRTHS, Changes to Items Reported in the Summary.

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

*** Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in foreign category.

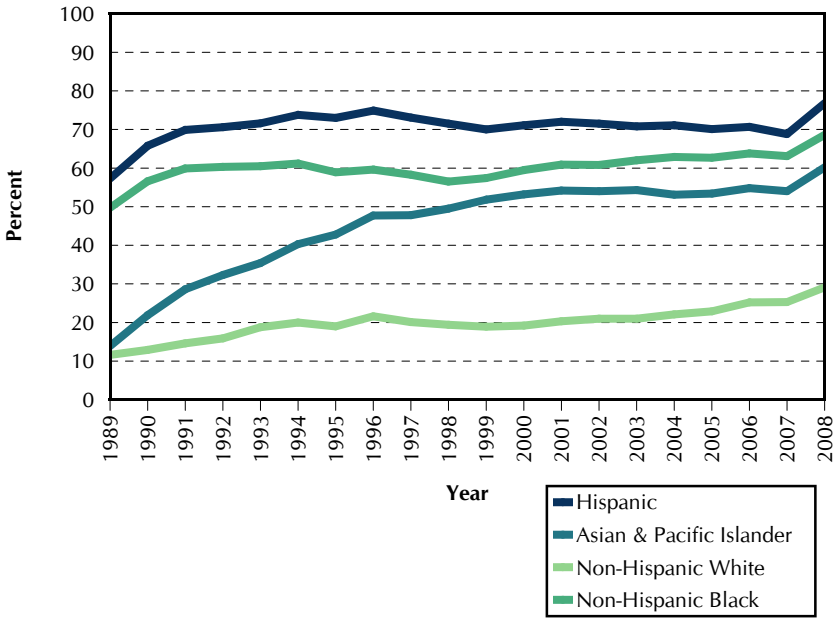


Figure 21. Percent of Live Births Covered by Medicaid New York City, 1989-2008

Due to implementation of a new birth certificate beginning 2008, Medicaid includes Medicaid, Family Health Plus, ChildPlusB, and other government programs. Therefore, Medicaid coverage increased sharply in 2008 for all ethnic groups because of the new definition. Of the 127,680 births in NYC in 2008, 57.7% (73,680) were covered by Medicaid. The distribution varied greatly by ethnic group. Asian and Pacific Islanders showed the largest increase in the percent of Medicaid births over the two decades. The proportion of births covered by Medicaid among non-Hispanic whites remains the lowest, with a slow steady increase from 1989 to 2008.
Of the 73,680 births reported to be covered by Medicaid in 2008, 42.1% were to Hispanics, 26% were to nNon-Hispanic blacks, 14.9% were to Asian and Pacific Islanders, and 15.2% were to non-Hispanic whites.

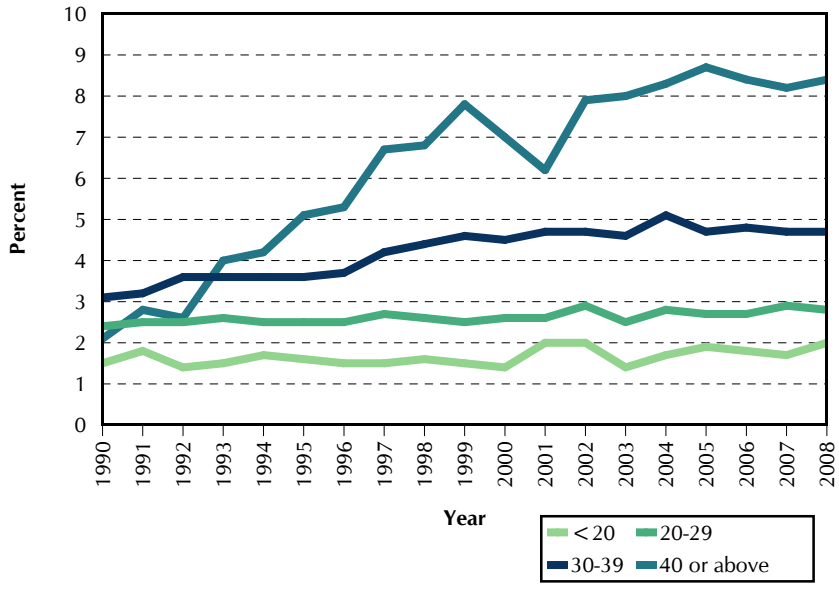


Figure 22. Percent of Multiple Births by Mother's Age New York City, 1990-2008

Plurality (multiple births) occurred among 4,887 of the 127,680 births in New York City in 2008; 96.2% of all live births were singletons, 3.7% were twins, and 0.2% were triplets. The proportion of births that were multiples increased with age of the mother. In 2008, 8.4% of births to women 40 years of age or over were multiple, compared to 4.7% of births to women aged 30-39, 2.8% to women aged 20-29 and 2.0% to women under 20.

The percent of multiple births to women 40 years of age or over has increased from 2.1% in 1990 to 8.4% in 2008, with a brief drop in 2000 and 2001. Women aged 30-39 have also had an increase in the proportion of multiple births, from 3.1% in 1990 to 4.7% in 2008. The proportion of multiple births to women aged 20-29 and women under 20 also increased slightly from 2.4% and 1.5% in 1990 to 2.8% and 2.0% in 2008, respectively.

Table 34. **Live Births by Selected Characteristics and Infant Deaths by Health Center District of Residence, New York City, 2008**

Health Center District of Residence	Live Births	Percent of Total Live Births with Specified Characteristics: Hispanic Mother	Foreign-Born Mother*	First Live Birth	Under 2,500 Grams	Preterm Birth**	Mother Not Married	On Medicaid***	Pre-pregnancy Obesity***	Infant Mortality (Under 1 Year) Number	Infant Mortality (Under 1 Year) Rate #	Neonatal Mortality (Under 28 Days) Number	Neonatal Mortality (Under 28 Days) Rate #
NEW YORK CITY EVENTS	127,680	35.5	50.9	45.7	8.9	9.8	43.9	58.0	16.4	698	5.5	466	3.6
MANHATTAN	20,160	33.0	43.7	55.7	8.7	8.8	35.8	39.8	11.4	93	4.6	67	3.3
Central Harlem	1,972	28.8	36.0	44.4	11.7	12.3	66.3	67.5	25.8	12	6.1	6	3.0
East Harlem	2,003	50.9	39.3	48.0	9.9	11.1	56.3	59.6	20.5	12	6.0	6	3.0
Kips Bay-Yorkville	2,970	7.9	34.8	63.0	8.1	7.7	6.1	4.7	2.3	8	2.7	7	2.4
Lower East Side	2,894	21.1	55.0	55.8	6.9	7.6	34.8	54.5	8.7	14	4.8	10	3.5
Lower West Side	4,148	11.7	40.2	64.5	9.0	8.5	15.2	13.7	4.1	15	3.6	11	2.7
Riverside	2,450	23.9	33.8	56.5	8.3	7.7	23.7	24.0	8.5	16	6.5	13	5.3
Washington Heights	3,723	78.9	58.8	49.7	8.0	8.3	63.7	70.9	18.6	16	4.3	14	3.8
BRONX	21,807	62.9	49.1	43.4	10.1	10.5	70.6	76.9	23.0	138	6.3	97	4.4
Fordham-Riverdale	4,123	68.4	52.1	44.5	8.8	10.0	62.5	71.1	19.9	27	6.5	21	5.1
Morrisania	3,412	64.4	48.2	38.9	11.3	11.2	76.8	82.9	24.8	27	7.9	18	5.3
Mott Haven	2,536	73.5	43.6	40.2	9.6	9.9	80.6	86.5	23.7	18	7.1	12	4.7
Pelham Bay	3,043	33.9	51.2	49.4	11.3	11.4	67.5	69.7	24.8	18	5.9	10	3.3
Tremont	4,438	71.3	52.7	41.5	9.6	10.2	76.6	83.3	23.2	28	6.3	18	4.1
Westchester	4,255	61.7	45.2	45.5	10.5	10.6	63.5	70.6	22.6	20	4.7	18	4.2
BROOKLYN	41,286	25.4	48.7	42.6	8.6	9.8	42.3	65.6	17.4	220	5.3	140	3.4
Bay Ridge	4,314	22.9	63.8	43.9	6.8	8.5	25.1	62.0	10.7	13	3.0	11	2.5
Bedford	3,607	14.1	40.4	42.8	12.0	12.8	60.9	72.6	25.9	24	6.7	19	5.3
Brownsville	4,901	18.0	44.6	43.1	12.0	13.8	70.9	74.2	28.5	55	11.2	34	6.9
Bushwick	3,459	65.9	52.7	39.6	9.3	10.9	71.6	81.8	25.1	19	5.5	13	3.8
Flatbush	8,040	16.0	53.9	40.6	9.5	10.5	40.5	61.2	19.4	41	5.1	23	2.9
Fort Greene	2,508	21.9	28.7	50.4	8.6	9.9	43.4	49.8	16.6	21	8.4	10	4.0
Gravesend	3,836	20.7	63.9	44.3	8.2	9.4	32.1	60.3	13.2	15	3.9	10	2.6
Red Hook-Gowanus	1,711	18.4	27.2	60.7	7.5	8.4	22.9	22.4	9.0	8	4.7	5	2.9
Sunset Park	5,615	30.3	57.7	39.4	5.3	5.9	26.9	76.8	8.4	14	2.5	9	1.6
Williamsburg-Greenpoint	3,295	34.5	21.1	36.2	5.9	6.6	22.9	65.9	13.2	10	3.0	6	1.8
QUEENS	27,943	37.4	70.0	46.0	8.2	9.2	44.6	64.8	14.8	133	4.8	88	3.1
Astoria-Long Island City	3,051	38.1	67.2	52.0	7.2	8.3	37.2	58.1	13.3	14	4.6	12	3.9
Corona	6,179	66.5	85.9	43.5	7.3	8.1	55.3	82.0	12.6	21	3.4	15	2.4
Flushing	4,808	18.9	74.4	45.7	6.9	8.2	26.7	56.8	8.5	23	4.8	16	3.3
Jamaica East	4,545	17.3	59.4	44.9	11.1	12.7	58.0	66.5	23.0	37	8.1	23	5.1
Jamaica West	5,716	36.7	62.2	44.6	9.4	10.0	50.0	66.5	18.4	27	4.7	16	2.8
Maspeth-Forest Hills	3,644	35.8	65.2	49.3	6.3	7.6	31.0	47.4	12.4	11	3.0	6	1.6
RICHMOND	5,730	26.1	35.9	41.1	8.3	9.8	34.0	39.9	18.8	17	3.0	11	1.9
NEW YORK CITY RESIDENTS	116,926	37.0	52.4	45.7	8.8	9.6	46.6	61.9	16.9	601	5.1	403	3.4
NON-RESIDENTS	10,753	17.6	34.9	45.6	10.4	11.5	15.1	16.8	10.7	93	8.6	60	5.6
RESIDENCE UNKNOWN	1	–	–	–	–	–	–	–	–	4	–	3	–

Note: Borough totals may be higher than the sum of the health center districts, as they may include some live births whose health center district could not be determined.
* Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in foreign category.
** Clinical gestational age less than 37 completed weeks.
*** See Technical Notes: BIRTHS, Changes to Items Reported in Summary.
# Rate per 1,000 live births.

Table 35. **Live Births by Selected Characteristics and Mother's Ancestry, New York City, 2008**

Ancestry of Mother	Live Births	Percent of Total Live Births with Specified Characteristics: Foreign-Born* Mother	First Live Birth	Under 2,500 Grams	Preterm Birth**	Mother Not Married	On Medicaid***	Pre-pregnancy Obesity***	Teenage Mother (Under 20)
Total	127,680	50.9	45.7	8.9	9.8	43.9	58.0	16.4	6.6
Puerto Rican	10,351	0.7	45.0	10.8	12.5	76.0	69.7	28.0	16.1
Dominican	10,716	70.8	45.9	7.7	8.8	68.0	77.3	18.8	11.3
Colombian	1,317	74.4	50.8	6.5	8.0	49.1	57.6	12.4	7.8
Ecuadorian	3,535	85.0	37.5	5.6	7.7	56.3	82.3	15.0	7.9
Mexican	8,662	91.2	35.9	6.0	7.6	75.6	93.0	18.0	12.0
Cuban	346	18.5	49.7	8.7	8.4	44.8	39.6	15.8	7.5
Other Hispanic	5,453	72.5	42.9	9.0	10.5	59.7	69.6	18.7	8.2
African American	15,077	16.9	45.3	13.8	14.1	75.9	68.2	30.8	12.4
American	10,044	5.5	49.8	8.8	9.6	26.2	30.2	13.2	4.3
Guyanese	1,689	93.7	43.9	14.6	14.7	44.3	61.5	16.3	5.4
Haitian	1,653	80.9	45.6	11.1	13.4	45.9	63.7	25.0	3.0
Jamaican	2,159	92.8	43.8	10.7	13.2	67.4	67.2	25.2	6.3
Trinidadian	842	95.1	49.8	12.6	14.5	60.3	70.5	22.7	4.8
Other North, Central, and South American	2,084	89.6	48.9	11.5	11.6	51.1	62.5	21.1	3.5
English	919	26.6	63.6	7.0	7.8	10.2	7.7	5.2	0.2
German	1,108	23.1	61.8	7.7	8.1	12.4	7.6	5.4	0.1
Irish	2,316	10.4	56.3	7.9	9.5	14.7	11.4	9.7	1.0
Italian	4,184	5.7	52.1	8.6	10.7	17.5	15.4	16.3	1.9
Polish	1,398	69.3	58.6	5.4	7.0	16.0	41.6	5.5	0.9
Russian	1,788	74.7	54.2	6.2	6.0	19.0	31.3	6.5	0.7
Other European	4,847	61.0	53.8	6.8	7.6	13.2	27.4	7.5	0.8
Asian Indian	2,191	89.5	53.6	10.8	9.8	10.5	37.7	7.1	1.2
Bangladeshi	1,541	99.2	38.2	13.6	9.2	11.3	83.0	7.9	1.3
Chinese	8,291	93.4	50.9	5.3	6.0	24.7	71.3	1.9	0.7
Filipino	943	81.1	52.4	8.3	9.3	19.5	25.5	6.7	1.2
Korean	1,194	85.8	57.2	5.1	5.3	10.0	34.6	1.5	0.2
Pakistani	1,323	94.1	37.4	8.7	9.2	5.6	76.6	13.3	2.3
Other Asian	4,634	87.6	47.6	7.4	7.4	13.4	49.7	7.6	3.2
Jewish or Hebrew	7,188	17.6	30.0	6.7	6.7	3.7	51.1	8.6	1.5
Other or Not Stated	9,887	50.3	43.7	9.7	10.3	35.5	50.9	16.3	3.8

Note: See Technical Notes: Race, Ancestry, Ethnic Group, and Birthplace.
* Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in foreign category.
** Clinical gestational age less than 37 completed weeks. .
*** See Technical Notes: BIRTHS, Changes to Items Reported in Summary.

Table 36.

Live Births by Selected Characteristics and Infant Deaths by Community District of Residence, New York City, 2008

Community District of Residence	Live Births	Rate*	Percent of Total Live Births With Specified Characteristics: Hispanic Mother	Foreign-Born Mother **	First Live Birth	Under 2,500 Grams	Preterm Birth ***	Mother Not Married	On Medicaid#	Pre-pregnancy Obesity#	Infant Mortality (Under 1 Year): Number	Infant Mortality (Under 1 Year): Rate ##	Neonatal Mortality (Under 28 Days): Number	Neonatal Mortality (Under 28 Days): Rate ##
NEW YORK CITY	127,680	15.3	35.5	50.9	45.7	8.9	9.8	43.9	58.0	16.4	698	5.5	466	3.6
MANHATTAN	20,040	12.3	32.7	43.7	55.8	8.7	8.7	35.6	39.6	11.3	93	4.6	67	3.3
Battery Park, Tribeca (01)	881	22.2	9.9	39.4	65.2	9.4	10.1	9.8	4.1	2.4	1	1.1	1	1.1
Greenwich Village, SOHO (02)	890	8.5	6.4	40.3	64.7	8.4	7.9	14.5	14.3	1.4	7	7.9	6	6.7
Lower East Side (03)	2,215	12.2	23.5	62.1	52.2	6.7	7.9	42.8	71.3	10.2	14	6.3	10	4.5
Chelsea, Clinton (04)	938	9.6	21.8	38.8	66.2	9.9	8.8	26.3	25.7	8.5	2	2.1	2	2.1
Midtown Business District (05)	564	11.7	7.8	44.8	65.9	8.0	8.7	13.5	11.0	3.8	3	5.3	2	3.5
Murray Hill (06)	1,329	8.8	10.9	40.8	65.7	8.2	7.1	8.7	5.3	2.9	3	2.3	3	2.3
Upper West Side (07)	2,789	12.1	16.8	32.6	59.3	8.5	7.4	15.0	13.7	5.8	9	3.2	6	2.2
Upper East Side (08)	2,762	11.2	8.1	33.2	62.1	7.9	7.7	6.8	5.9	2.6	7	2.5	4	1.4
Manhattanville (09)	1,448	13.4	58.8	52.9	48.6	9.3	9.4	61.2	64.4	18.5	15	10.4	12	8.3
Central Harlem (10)	1,755	17.6	27.2	37.2	45.0	11.6	12.0	65.5	66.6	25.3	12	6.8	6	3.4
East Harlem (11)	1,766	15.2	58.4	37.2	43.6	10.6	12.2	70.0	74.2	26.1	10	5.7	6	3.4
Washington Heights (12)	2,703	13.3	82.0	59.9	50.9	7.4	7.7	60.9	69.5	17.5	10	3.7	9	3.3
BRONX	21,927	15.8	63.0	49.1	43.4	10.1	10.5	70.6	76.9	23.0	138	6.3	97	4.4
Mott Haven (01)	1,742	19.2	72.5	43.5	39.4	10.3	9.9	81.1	87.0	24.2	17	9.8	11	6.3
Hunts Point (02)	990	19.3	75.2	39.7	38.9	9.6	11.0	81.0	86.1	22.9	4	4.0	3	3.0
Morrisania (03)	1,421	19.1	62.2	40.9	39.6	11.5	10.8	77.1	82.5	25.9	13	9.1	8	5.6
Concourse, Highbridge (04)	2,788	18.7	67.1	58.9	39.6	10.0	10.5	74.9	83.0	22.9	20	7.2	12	4.3
University/Morris Heights (05)	2,540	18.8	71.6	54.7	42.9	9.4	10.6	76.0	84.0	23.9	16	6.3	11	4.3
East Tremont (06)	1,478	18.0	70.3	40.8	39.3	11.2	11.1	78.8	84.2	23.2	12	8.1	10	6.8
Fordham (07)	2,452	16.7	71.5	55.9	43.9	9.1	10.4	68.4	77.9	21.4	14	5.7	12	4.9
Riverdale (08)	1,220	12.3	62.5	45.0	48.7	6.4	7.5	46.0	49.6	16.5	4	3.3	2	1.6
Unionport, Soundview (09)	2,730	15.2	64.6	45.0	45.3	10.5	10.5	70.5	77.2	23.8	8	2.9	7	2.6
Throgs Neck (10)	1,008	8.8	50.6	37.8	44.8	10.9	11.0	50.8	52.3	22.5	4	4.0	3	3.0
Pelham Parkway (11)	1,475	13.4	50.0	52.4	46.6	10.1	10.3	55.7	65.7	20.1	8	5.4	8	5.4
Williamsbridge (12)	2,079	13.6	30.2	52.5	50.8	11.8	12.1	71.6	72.7	26.2	18	8.7	10	4.8
BROOKLYN	41,286	16.1	25.4	48.7	42.6	8.6	9.8	42.3	65.6	17.4	220	5.3	140	3.4
Williamsburg, Greenpoint (01)	3,295	19.1	34.5	21.1	36.2	5.9	6.6	22.9	65.9	13.2	10	3.0	6	1.8
Fort Greene, Brooklyn Heights (02)	1,326	13.1	14.6	29.3	59.7	7.8	8.9	29.2	27.4	10.3	9	6.8	4	3.0
Bedford Stuyvesant (03)	2,443	16.9	25.4	27.3	41.6	11.5	12.5	65.0	73.7	27.0	19	7.8	12	4.9
Bushwick (04)	1,990	18.1	75.9	56.7	37.3	8.3	10.5	73.4	83.6	23.9	11	5.5	8	4.0
East New York (05)	2,937	16.5	38.7	44.6	42.9	11.5	12.5	72.0	79.1	26.2	29	9.9	16	5.4
Park Slope (06)	1,672	15.4	17.4	26.0	59.9	7.1	8.4	22.4	20.2	8.8	9	5.4	6	3.6
Sunset Park (07)	2,994	23.6	38.2	78.5	47.2	6.0	6.7	42.8	80.1	8.9	7	2.3	5	1.7
Crown Heights North (08)	1,459	15.3	14.2	38.8	47.3	11.1	12.6	59.8	63.5	24.2	10	6.9	7	4.8
Crown Heights South (09)	1,710	16.6	11.7	52.3	44.5	9.3	9.6	45.4	68.2	19.7	9	5.3	5	2.9
Bay Ridge (10)	1,736	13.2	21.1	60.6	46.8	7.9	8.9	22.1	52.4	11.0	5	2.9	4	2.3
Bensonhurst (11)	2,308	12.3	22.5	73.2	45.7	6.3	8.8	28.9	63.2	11.1	10	4.3	8	3.5
Borough Park (12)	5,126	25.9	19.3	41.5	31.2	5.5	6.0	14.8	72.7	9.5	11	2.1	6	1.2
Coney Island (13)	1,211	10.7	29.0	61.3	46.0	9.4	9.9	47.1	70.6	16.4	4	3.3	3	2.5
Flatbush, Midwood (14)	2,707	15.8	23.1	58.6	40.8	9.4	11.0	41.5	63.7	18.3	16	5.9	8	3.0
Sheepshead Bay (15)	1,969	11.5	12.9	61.6	42.5	8.3	9.1	22.5	51.5	11.4	10	5.1	7	3.6
Brownsville (16)	1,508	17.7	19.7	32.6	42.1	13.6	14.9	79.7	80.8	31.9	17	11.3	14	9.3
East Flatbush (17)	2,301	14.2	7.5	64.1	45.7	11.8	13.1	67.1	72.4	29.9	16	7.0	12	5.2
Canarsie (18)	2,592	13.2	10.0	50.6	41.2	10.5	13.1	45.1	53.6	23.4	18	6.9	9	3.5
QUEENS	27,943	12.2	37.4	70.0	46.0	8.2	9.2	44.6	64.8	14.8	133	4.8	88	3.1
Astoria, Long Island City (01)	2,044	9.7	34.4	62.5	51.6	7.8	9.0	37.3	57.5	15.5	10	4.9	10	4.9
Sunnyside, Woodside (02)	1,526	13.2	44.4	77.7	51.1	6.2	7.3	38.0	63.0	9.0	6	3.9	4	2.6
Jackson Heights (03)	2,845	15.6	75.6	83.4	42.9	7.6	8.5	58.7	82.2	12.7	12	4.2	9	3.2
Elmhurst, Corona (04)	2,919	15.9	60.6	89.4	43.4	7.2	7.6	54.1	83.3	12.9	8	2.7	4	1.4
Ridgewood, Glendale (05)	2,227	13.7	47.5	61.5	46.0	6.2	8.0	38.7	57.8	15.4	6	2.7	5	2.2
Rego Park, Forest Hills (06)	1,241	10.7	14.6	70.6	54.5	6.5	7.0	17.6	28.7	7.3	3	2.4	-	-
Flushing (07)	2,736	10.4	21.0	81.2	47.0	6.5	7.6	30.6	66.6	7.1	9	3.3	7	2.6
Fresh Meadows, Briarwood (08)	1,732	11.5	19.6	68.3	44.4	7.9	9.2	27.4	50.1	11.5	14	8.1	9	5.2
Woodhaven (09)	2,038	13.9	48.0	72.7	46.8	8.0	8.5	47.1	69.2	16.4	8	3.9	4	2.0
Howard Beach (10)	1,567	12.1	28.4	67.1	46.4	10.6	10.9	45.5	61.6	16.5	8	5.1	5	3.2
Bayside (11)	676	5.7	13.8	66.6	46.7	5.5	6.8	16.7	39.1	7.9	2	3.0	1	1.5
Jamaica, St. Albans (12)	3,113	13.9	23.4	58.4	44.7	11.4	12.2	61.9	71.5	23.5	26	8.4	17	5.5
Queens Village (13)	1,848	9.5	12.9	62.9	45.4	10.9	13.1	49.9	57.8	21.7	14	7.6	8	4.3
The Rockaways (14)	1,422	13.1	28.4	35.7	38.2	9.8	11.7	58.9	66.5	24.6	7	4.9	5	3.5
STATEN ISLAND	5,730	11.8	26.1	35.9	41.1	8.3	9.8	34.0	39.9	18.8	17	3.0	11	1.9
Port Richmond (01)	2,561	13.8	39.0	42.1	40.7	8.4	10.6	51.2	55.2	22.3	10	3.9	7	2.7
Willowbrook, South Beach (02)	1,492	10.7	20.2	42.8	42.9	8.2	8.6	25.8	36.7	16.0	3	2.0	2	1.3
Tottenville (03)	1,661	10.2	10.8	20.3	40.0	8.4	9.7	15.1	19.2	15.8	4	2.4	2	1.2

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.

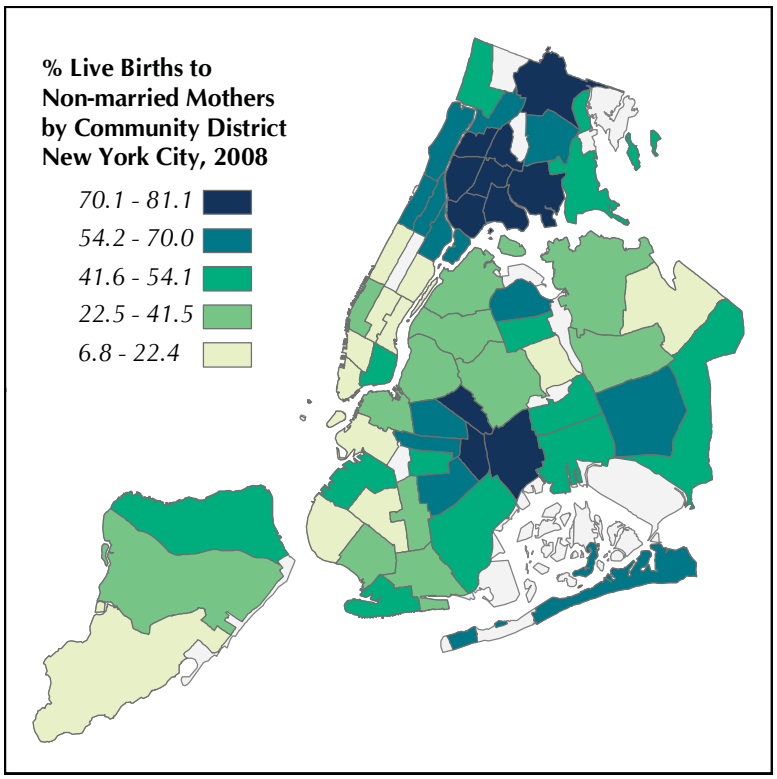
* Rate per 1,000 population. For population information, see Technical Notes: Demographics, Population.

** Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in foreign category.

*** Clinical gestational age less than 37 completed weeks.

See Technical Notes: BIRTHS, Changes to Items Reported in Summary.

Rate per 1,000 live births.



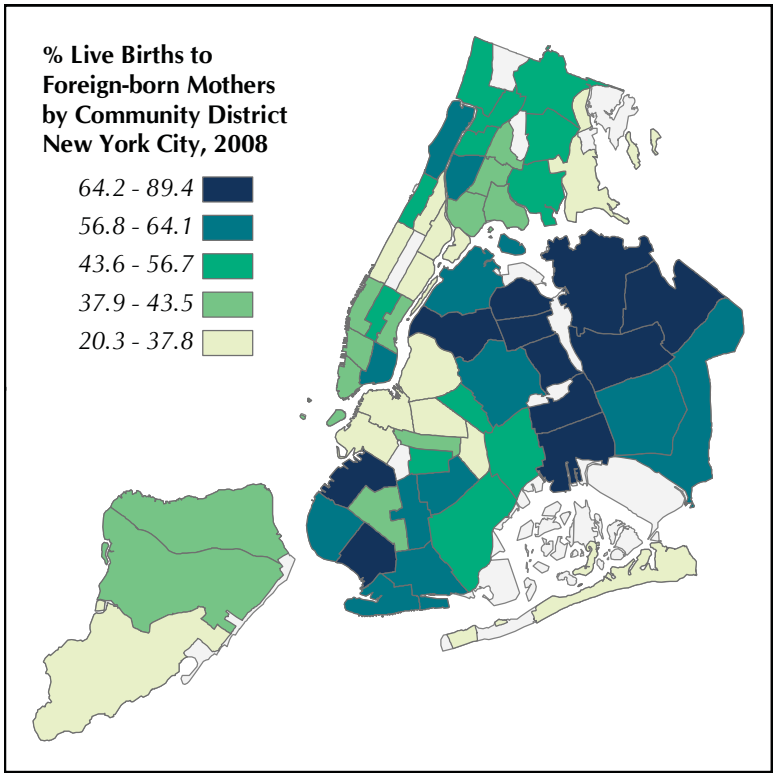
Map 1. Percent of Live Births to Non-married Mothers by Community District of Residence New York City, 2008

Nearly forty-four percent of births in New York City in 2008 were to women who were not married. The distribution among New York City boroughs was 70.6% in the Bronx, 44.6% in Queens, 42.3% in Brooklyn, 35.6% in Manhattan, and 34.0% in Staten Island.

Community districts in the highest quintile of births to non-married women were Mott Haven at 81.1%, followed by Hunts Point at 81.0%, Brownsville at 79.7%, East Tremont at 78.8%, Morrisania at 77.1%, University Heights, Morris Heights at 76.0%, Concourse, Highbridge at 74.9%, Bushwick at 73.4%, East New York at 72.0%, and Williamsbridge at 71.6%.

Only three community districts had less than 10% of their births to non-married mothers: Upper East Side at 6.8%, Murray Hill at 8.7%, and Battery Park, Tribeca at 9.8%.

See Table 36 on page 51 for additional rates.



Map 2. Percent of Live Births to Foreign-born Mothers by Community District of Residence New York City, 2008

Fifty-one percent of live births in New York City in 2008 were to foreign-born women. The distribution among New York City boroughs was 70.0% in Queens, 49.1% in the Bronx, 48.7% in Brooklyn, 43.7% in Manhattan, and 35.9% in Staten Island.

Community districts in the highest quintile of births to foreign-born women were Elmhurst, Corona at 89.4%, followed by Jackson Heights at 83.4%, Flushing at 81.2%, Sunset Park at 78.5%, Sunnyside, Woodside at 77.7%, Bensonhurst at 73.2%, Woodhaven at 72.7%, Rego Park, Forest Hills at 70.6%, Fresh Meadows, Briarwood at 68.3%, Howard Beach at 67.1%, and Bayside at 66.6%.

Five community districts had less than 30% of their births to foreign-born women: Tottenville at 20.3%, Williamsburg, Greenpoint at 21.1%, Park Slope at 26.0%, Bedford Stuyvesant at 27.3%, and Fort Greene at 29.3%.

See Table 36 on page 51 for additional rates.

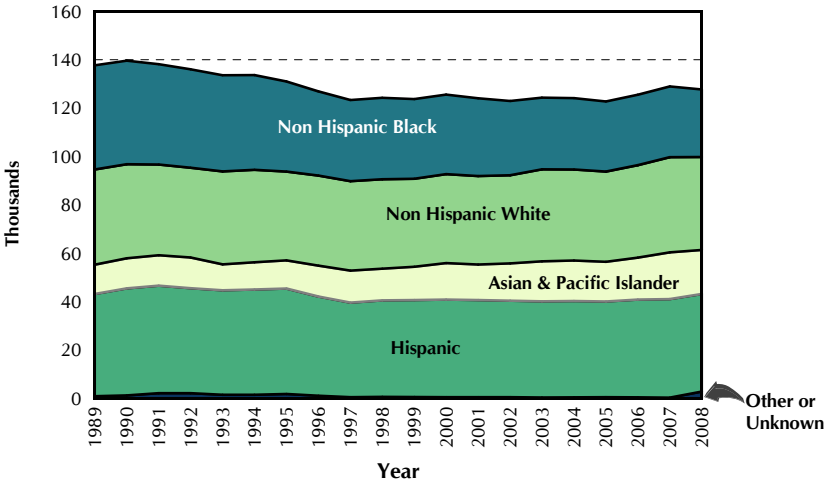


Figure 23. Live Births by Mother's Ethnic Group New York City, 1989-2008

The number of live births registered in New York City reached 139,630 in 1990, the highest number since 1970. After 1990, live births declined about 10% and stabilized between 123,000 and 126,000 from 1997 to 2005. Live births then increased to 128,691 in 2007 and decreased to 127,680 in 2008. Over the last 20 years, the numbers of births to non-Hispanic black women and Asian and Pacific Islanders have changed dramatically. Since 1989, births declined 35% among non-Hispanic black mothers to 27,917 in 2008 and increased 51% among Asian and Pacific Islanders to 998,600 in 2008. On the other hand, births to non-Hispanic white women and Hispanics have remained relatively stable with a 2% and 4.5% decline, respectively, since 1989.
Note: Other or Unknown – Other includes two or more races. See Technical Notes: Births, Changes to Birth Items Reported in the Summary Due to Data Quality Concerns.

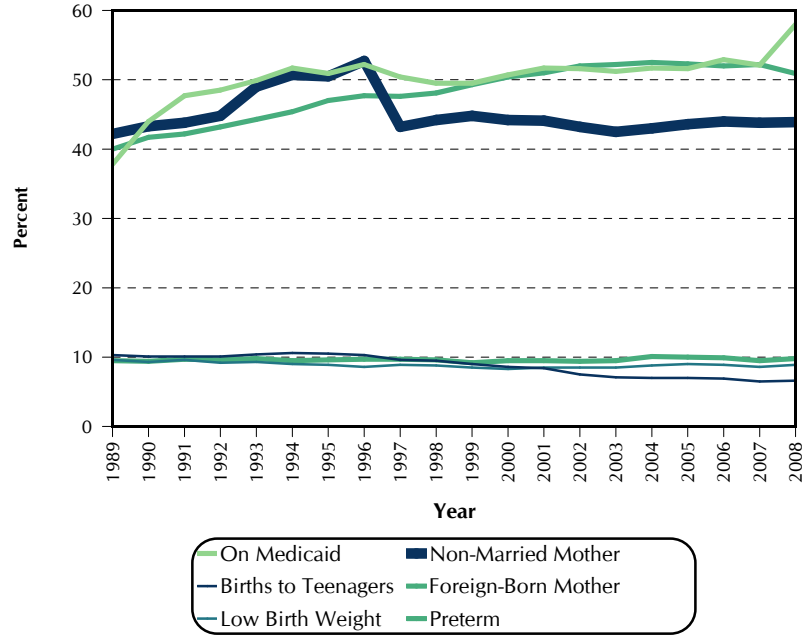


Figure 24. Percent of Live Births with Specified Characteristics, New York City, 1989-2008

The percent of live births to foreign-born mothers has increased steadily in the past two decades, from 40% in 1989 to 50.9% in 2008, reflecting the inflow of new immigrants. The percent of mothers giving birth on Medicaid surged during the late 1980s and early 1990s, leveled from 1997 to 1999, then gradually increased through 2007. The large increase in Medicaid in 2008 is likely due to the implementation of the new birth certificate as Medicaid reporting now includes other government insurances like Family Plus and Child PlusB. The percent of low birthweight babies has remained stable for the past 20 years. The percent of mothers who were not married when they delivered a baby increased from 1988 through 1996. The abrupt decrease in 1997 is an artifact of a new method used to compute mother's marital status (See Technical Notes: Births, Mother's Marital Status). The percent of non-married mothers decreased slightly since 1999, largely due to the decline of teenage mothers, who are more likely to not be married. Percent of live births born preterm, less than 37 completed weeks gestation, has been stable for the past 20 years at about 10%.

Table 37. **Live Births by Mother's Birthplace and Borough of Residence**
New York City, 2008

Birthplace*	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Bangladesh	1,630	53	228	391	923	11	24	–
China	7,228	1,413	91	3,260	2,094	100	270	–
Colombia	971	80	46	88	645	31	81	–
Cuba	59	9	13	7	16	1	13	–
Dominican Republic	7,669	1,766	3,425	1,185	992	56	245	–
Ecuador	2,991	180	356	519	1,849	28	59	–
El Salvador	794	39	95	141	444	10	65	–
Germany	323	141	11	94	30	2	45	–
Guyana	2,156	33	203	682	1,137	13	88	–
Haiti	1,500	54	29	981	315	17	104	–
Honduras	873	55	387	203	192	19	17	–
India	1,705	209	71	117	923	41	344	–
Ireland	202	49	19	17	78	4	35	–
Israel	1,136	224	19	608	138	33	114	–
Italy	193	64	8	56	23	20	22	–
Jamaica	3,048	64	796	1,203	779	20	186	–
Korea	1,018	198	16	92	539	26	147	–
Mexico	7,945	851	1,796	2,371	2,345	509	73	–
Pakistan	1,268	49	65	571	427	61	95	–
Philippines	800	106	65	97	371	49	112	–
Poland	974	64	5	303	465	71	66	–
Puerto Rico	1,585	202	803	304	159	49	68	–
Russia	906	140	19	416	172	70	89	–
Trinidad and Tobago	1,694	30	71	957	542	29	65	–
Ukraine	793	66	6	522	46	93	60	–
United States	60,967	11,128	10,252	20,833	8,208	3,620	6,925	1
Other or Not Stated	17,252	2,893	2,912	5,268	4,091	747	1,341	–
Total	127,680	20,160	21,807	41,286	27,943	5,730	10,753	1

*Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when two birthplaces were included in "Other or Not Stated."

Table 38. **Live Births by Mother's Birthplace and Age,**
New York City, 2008

Birthplace*	Total	Age						
		Under 20	20-24	25-29	30-34	35-39	40 & Over	Unknown
Bangladesh	1,630	21	318	635	418	209	29	–
China	7,228	41	1,251	2,820	1,964	947	205	–
Colombia	971	53	159	248	268	178	65	–
Cuba	59	–	8	12	15	13	11	–
Dominican Republic	7,669	635	1,755	2,203	1,761	979	336	–
Ecuador	2,991	188	657	877	710	421	138	–
El Salvador	794	52	179	244	195	100	24	–
Germany	323	4	12	46	121	103	37	–
Guyana	2,156	91	386	604	578	362	135	–
Haiti	1,500	31	153	398	476	309	133	–
Honduras	873	62	188	274	197	118	34	–
India	1,705	11	187	561	643	254	49	–
Ireland	202	1	4	29	59	86	23	–
Israel	1,136	15	158	312	396	213	42	–
Italy	193	1	6	18	74	67	27	–
Jamaica	3,048	150	645	826	719	527	181	–
Korea	1,018	1	14	201	420	340	42	–
Mexico	7,945	753	2,300	2,384	1,635	738	135	–
Pakistan	1,268	25	233	474	332	168	36	–
Philippines	800	7	66	165	275	230	57	–
Poland	974	8	100	332	365	137	32	–
Puerto Rico	1,585	193	400	429	337	161	65	–
Russia	906	7	115	257	306	175	46	–
Trinidad and Tobago	1,694	65	386	517	382	251	93	–
Ukraine	793	3	86	261	287	131	25	–
United States	60,967	5,591	13,413	13,815	15,287	9,990	2,871	–
Other or Not Stated	17,252	414	2,344	4,268	5,441	3,622	1,163	–
Total	127,680	8,423	25,523	33,210	33,661	20,829	6,034	0

*Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when two birthplaces were included in "Other or Not Stated."

Table 39. Live Births to Teenagers (Age Under 20) by Selected Characteristics and Infant Deaths by Health Center District of Residence, New York City, 2008

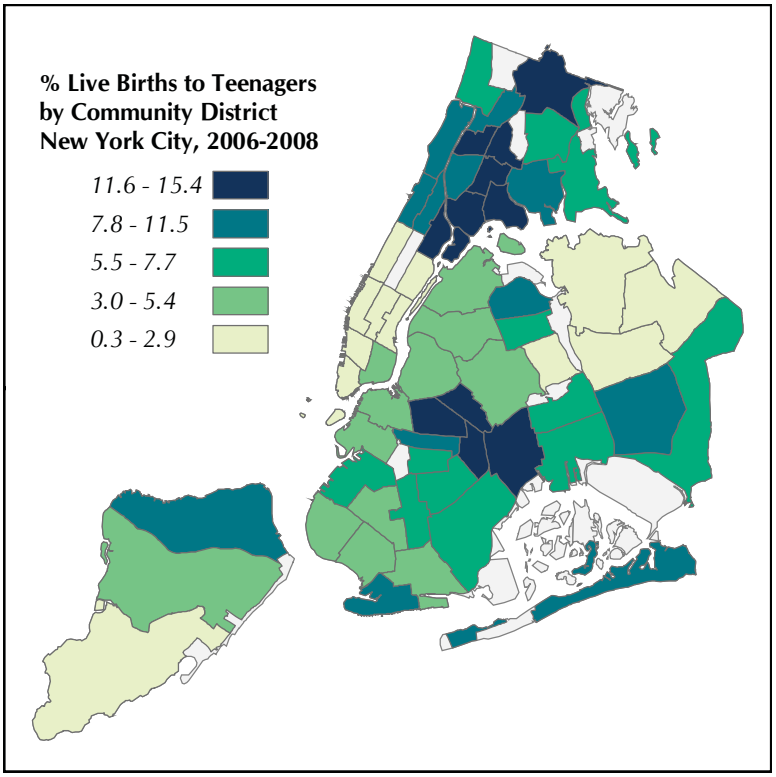
Health Center District of Residence	Live Births to Teenagers	Percent of Total Live Births	Percent of Teenage Live Births With Specified Characteristics								Infant Mortality (Under 1 Year)		Neonatal Mortality (Under 28 Days)	
			Hispanic Mother	Foreign-Born Mother*	First Live Birth	Under 2,500 Grams	Preterm Birth**	Mother Not Married	On Medicaid***	Pre-pregnancy Obesity***	Number	Rate#	Number	Rate#
NEW YORK CITY EVENTS	8,423	6.6	59.6	31.2	86.2	10.6	10.4	90.1	87.4	14.7	64	7.6	38	4.5
MANHATTAN	1,031	5.1	69.0	30.2	86.2	11.4	11.2	94.2	90.8	16.9	5	4.8	3	2.9
Central Harlem	202	10.2	36.1	17.4	84.2	13.9	14.9	95.0	86.2	19.8	2	9.9	1	5.0
East Harlem	206	10.3	69.4	20.4	85.4	16.0	14.6	92.7	91.6	16.7	–	–	–	–
Kips Bay-Yorkville	20	0.7	25.0	10.0	95.0	10.0	–	100.0	85.0	10.0	–	–	–	–
Lower East Side	100	3.5	69.1	24.0	82.0	8.0	9.0	94.0	93.9	19.0	–	–	–	–
Lower West Side	53	1.3	61.5	20.8	84.9	5.7	7.5	94.3	88.5	12.0	1	18.9	1	18.9
Riverside	92	3.8	65.1	22.8	89.1	13.0	12.0	97.8	90.0	21.7	2	21.7	1	10.9
Washington Heights	358	9.6	91.8	49.2	88.0	8.9	8.7	93.3	92.9	14.8	–	–	–	–
BRONX	2,519	11.6	73.3	26.8	85.4	10.3	9.7	93.5	88.6	15.1	21	8.3	11	4.4
Fordham-Riverdale	392	9.5	83.1	31.0	86.5	8.4	8.7	91.1	87.7	14.2	2	5.1	–	–
Morrisania	413	12.1	74.7	25.2	83.8	9.4	9.2	95.6	89.3	15.2	5	12.1	4	9.7
Mott Haven	360	14.2	76.3	22.6	83.1	10.8	11.7	96.1	91.1	14.0	4	11.1	2	5.6
Pelham Bay	333	10.9	41.0	23.4	90.7	12.3	10.5	92.8	84.7	15.9	4	12.0	1	3.0
Tremont	592	13.3	82.7	31.4	83.4	9.0	8.8	93.6	88.0	15.4	5	8.4	3	5.1
Westchester	429	10.1	72.1	24.3	86.5	12.8	10.3	91.8	90.2	15.5	1	2.3	1	2.3
BROOKLYN	2,746	6.7	44.4	29.4	86.4	10.5	10.7	86.3	89.7	15.2	22	8.0	11	4.0
Bay Ridge	158	3.7	57.0	48.7	84.8	9.5	9.5	65.8	89.2	14.2	–	–	–	–
Bedford	301	8.3	20.3	18.9	82.9	15.3	16.6	94.7	89.0	18.8	2	6.6	1	3.3
Brownsville	574	11.7	24.5	19.5	88.7	9.6	9.9	95.6	88.8	17.8	8	13.9	3	5.2
Bushwick	406	11.7	70.0	31.0	84.2	9.4	9.1	94.3	90.8	18.9	1	2.5	–	–
Flatbush	413	5.1	30.5	40.0	89.6	12.6	13.3	86.9	86.1	12.4	4	9.7	2	4.8
Fort Greene	204	8.1	42.1	19.1	89.2	7.8	6.4	87.7	88.1	16.6	1	4.9	–	–
Gravesend	228	5.9	50.7	40.5	78.9	11.4	11.0	75.9	94.2	10.1	3	13.2	3	13.2
Red Hook-Gowanus	61	3.6	55.0	11.5	95.1	6.6	13.1	88.5	82.0	11.5	–	–	–	–
Sunset Park	244	4.3	79.6	46.3	86.1	8.2	7.4	68.9	95.5	7.4	2	8.2	1	4.1
Williamsburg-Greenpoint	157	4.8	67.4	12.2	87.9	10.2	10.2	74.5	91.1	16.6	1	6.4	1	6.4
QUEENS	1,634	5.8	60.7	43.8	86.9	9.7	9.7	89.5	84.7	11.9	13	8.0	11	6.7
Astoria-Long Island City	151	4.9	71.7	40.7	89.4	7.9	9.3	88.1	86.7	16.2	1	6.6	1	6.6
Corona	451	7.3	90.5	67.0	86.3	8.6	8.9	92.2	91.7	8.9	3	6.7	3	6.7
Flushing	121	2.5	61.3	46.3	86.8	6.6	10.7	87.6	75.8	14.0	1	8.3	1	8.3
Jamaica East	358	7.9	23.3	29.4	85.8	10.1	10.3	92.2	82.5	14.6	6	16.8	4	11.2
Jamaica West	419	7.3	47.7	34.1	87.4	11.9	9.5	87.4	80.7	11.3	1	2.4	1	2.4
Maspeth-Forest Hills	134	3.7	77.9	35.1	88.1	9.7	11.2	82.8	85.8	9.9	1	7.5	1	7.5
RICHMOND	324	5.7	53.4	28.4	84.3	12.3	12.0	93.2	72.0	15.5	2	6.2	1	3.1
NEW YORK CITY RESIDENTS	8,254	7.1	59.9	31.5	86.1	10.5	10.3	90.4	87.8	14.7	63	7.6	34	4.1
NON-RESIDENTS	168	1.6	41.7	18.5	92.3	16.1	14.3	74.4	64.4	12.9	1	6.0	1	6.0
RESIDENCE UNKNOWN	1	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: Borough totals may be higher than the sum of the health center districts, as they may include some live births whose health center district could not be determined.
* Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in the foreign category.
** Clinical gestational age less than 37 completed weeks.
*** See Technical Notes: BIRTHS, Changes to Items Reported in Summary.
# Rate per 1,000 live births to teenagers.

Table 40. Live Births to Teenagers (Age Under 20) by Selected Characteristics, New York City, 1995-2008

	Year													
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total Live Births	131,009	126,901	123,313	124,252	123,739	125,563	124,023	122,937	124,345	124,099	122,725	125,506	128,961	127,680
Percent to Teenagers	10.5	10.3	9.6	9.5	9.0	8.6	8.4	7.5	7.1	7.0	7.0	6.9	6.6	6.6
Population* (Female Age 15-19)	246,159	247,972	249,798	251,637	253,490	255,356	245,567	240,565	240,656	241,094	249,546	267,830	271,349	272,575
Birth Rate** (Age 15-19)	54.5	51.2	46.3	46.0	43.1	41.5	41.5	37.8	36.2	35.5	33.8	32.1	31.3	30.5
Births to Teenagers	13,713	13,020	11,793	11,789	11,145	10,800	10,386	9,240	8,831	8,702	8,579	8,695	8,569	8,423
Percent of Births with Specified Characteristics:														
Hispanic	51.7	50.6	50.2	51.9	53.0	53.4	54.1	53.3	55.2	56.4	56.6	56.9	58.1	59.6
Foreign-Born Mother	31.1	31.5	32.6	32.1	33.6	35.1	36.7	36.5	36.5	36.0	36.2	34.0	33.2	31.2
First Live Birth	78.2	80.2	81.5	81.8	82.2	82.9	84.4	84.0	84.4	84.8	84.8	85.8	85.7	86.2
Under 2,500 Grams	10.6	9.7	10.8	10.3	10.3	9.7	10.1	10.4	9.7	10.2	10.1	10.5	10.2	10.6
Preterm***	11.4	10.2	10.9	10.5	10.4	10.6	11.2	10.8	9.8	11.4	10.5	10.4	10.2	10.4
Not Married	89.3	90.7	87.3	88.6	89.0	89.1	88.1	88.4	88.6	88.5	88.7	89.0	89.5	90.1
On Medicaid#	80.6	82.8	81.6	80.2	78.7	79.9	82.0	80.2	80.6	81.7	80.2	80.8	80.1	87.4
Pre-pregnancy Obesity#	–	–	–	–	–	–	–	–	–	–	–	–	–	14.7
Infant Mortality Rate##	12.3	9.4	9.5	7.5	8.5	8.3	7.4	9.2	8.5	9.9	6.1	7.4	6.8	7.6

* For denominator information, see Technical Notes: Population.
** Per 1,000 women aged 15-19.
*** Clinical gestational age less than 37 completed weeks.
# See Technical Notes: BIRTHS, Changes to Items Reported in Summary.
Infant mortality rate per 1,000 live births to teenagers.



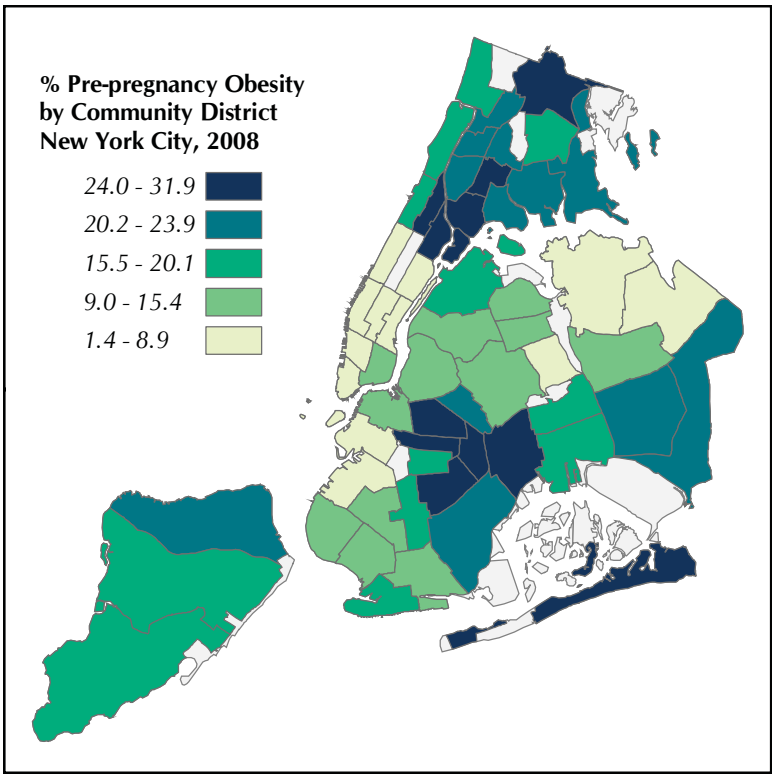
Map 3. Percent of Live Births to Teenagers (Age <20) by Community District of Residence New York City, 2006-2008

Three-year averages were used in this map because of the relatively small number of births per year to teenage mothers in some community districts.

The community districts with the highest percent of births to teenagers were Mott Haven at 15.4%, Hunts Point at 15.2%, East Tremont at 14.5%, Brownsville at 14.4%, Morrisania at 13.9%, University Heights, Morris Heights at 13.4%, East Harlem at 13.1%, Bushwick and East New York at 12.5%, Williamsbridge at 12.0%, and Bedford Stuyvesant at 11.9%.

Seven community districts had less than 2% of their births to teenagers: Battery Park, Tribeca and Greenwich Village, SOHO at 0.3%, Murray Hill at 0.4%, Upper East Side at 0.9%, Bayside at 1.1%, Rego Park, Forest Hills at 1.2% and Tottenville at 1.4%.

See Table 41 on page 59 for additional rates.

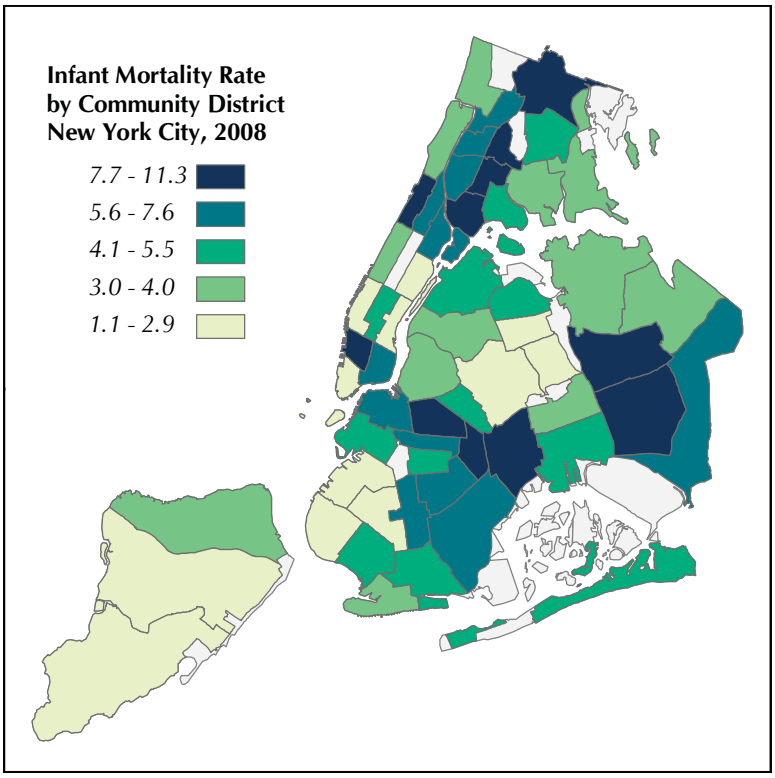


Map 4. Percent Pre-pregnancy Obesity by Community District of Residence New York City, 2008

The community district with the highest percent of pre-pregnancy obesity was Brownsville at 31.9%. Other community districts in the highest quintile were East Flatbush at 29.9%, Bedford Stuyvesant at 27.0%, East New York and Williamsbridge at 26.2%, East Harlem at 26.1%, Morrisania at 25.9%, Central Harlem at 25.3%, The Rockaways at 24.6%, and Mott Haven and Crown Heights North at 24.2%.

The community district with the lowest percent of pre-pregnancy obesity was Greenwich Village, SOHO at 1.4%. Other community districts with less than 5% pre-pregancy obesity include Battery Park, Tribeca at 2.4%, Upper East Side at 2.6%, Murray Hill at 2.9%, and Midtown Business District at 3.8%

See Table 36 on page 51 for additional rates.

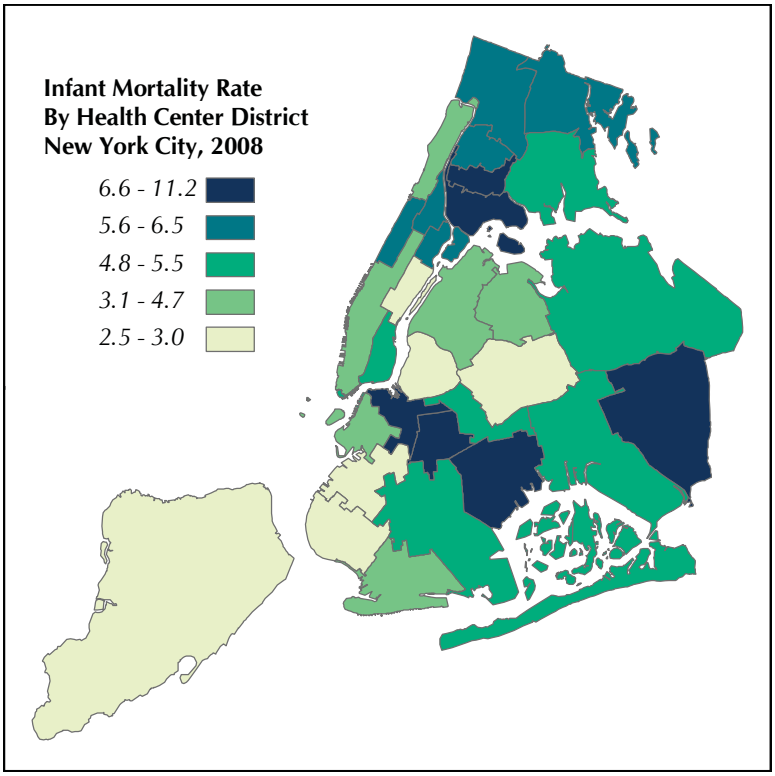


Map 5. Infant Mortality Rate by Community District of Residence New York City, 2008

The community district with the highest Infant Mortality Rate in 2008 was Brownsville at 11.3 infant deaths per 1,000 live births. Other community districts in the highest quintile are Manhattanville at 10.4, East New York at 9.9, Mott Haven at 9.8, Morrisania at 9.1, Williamsbridge at 8.7, Jamaica, St. Albans at 8.4, East Tremont and Fresh Meadows, Briarwood at 8.1, Greenwich Village, SOHO at 7.9, and Bedford Stuyvesant at 7.8.

Twenty-seven community districts met the Healthy People 2010 goal of 4.5 infant deaths per 1,000 live births. These include all in the two lowest quintiles as well as Bensonhurst and Jackson Heights. Two additional community districts met the "Take Care New York" (TCNY) 2012 goal of 5.0 deaths per 1,000 live births. They include The Rockaways and Astoria, Long Island City.

See Table 36 on page 51 for additional rates.



Map 6. Infant Mortality Rate by Health Center District of Residence New York City, 2008

The health center district with the highest Infant Mortality Rate in 2008 was Brownsville at 11.2 infant deaths per 1,000 live births. Other health center districts in the highest quintile were Fort Greene at 8.4, Jamaica East at 8.1, Morrisania at 7.9, Mott Haven at 7.1, and Bedford at 6.7.

Health center districts that met the Healthy People 2010 goal of 4.5 include all those in the lowest quintile as well as Corona, Lower West Side, Gravesend and Washington Heights.

Health center districts that met the TCNY 2012 goal of 5.0 infant deaths per 1,000 live births include all in the two lowest quintiles as well as Flushing and Lower East Side.

See Table 34 on page 50 for additional rates.

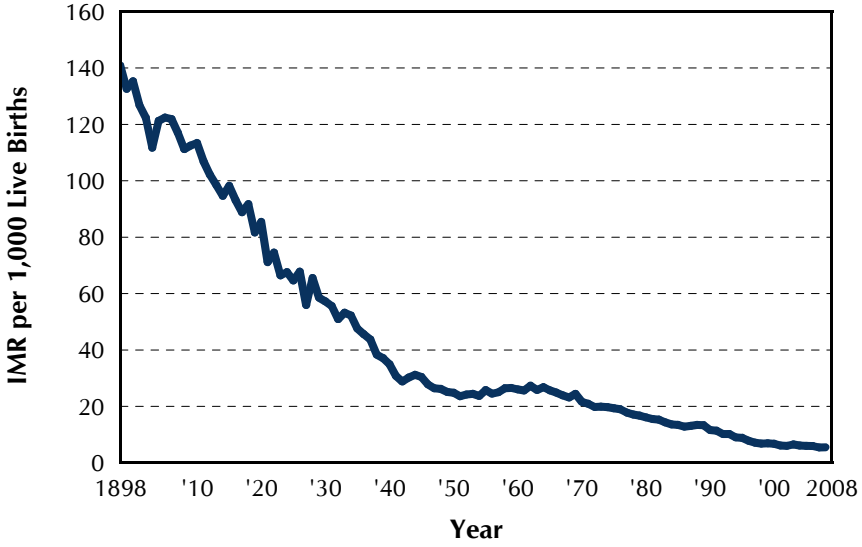


Figure 25. Infant Mortality Rate New York City, 1898-2008

The Infant Mortality Rate (IMR) was first estimated for New York City in 1898 when its boundaries were extended to include all five boroughs. That year the IMR was estimated to be 140.9 deaths under one year of age per 1,000 live births. (Because of incomplete reporting of early neonatal deaths, this is almost certainly an underestimate.) Improvements in food and water safety in the earlier part of the twentieth century, and advances in access to medical care in recent years, have contributed to a decline to 5.4 deaths per 1,000 live births in 2007. The 2008 IMR of 5.5 infant deaths (under one year of age) per 1,000 live births, remained very close to its 2007 historical low with a statistically insignificant 1.9% increase from 5.4.

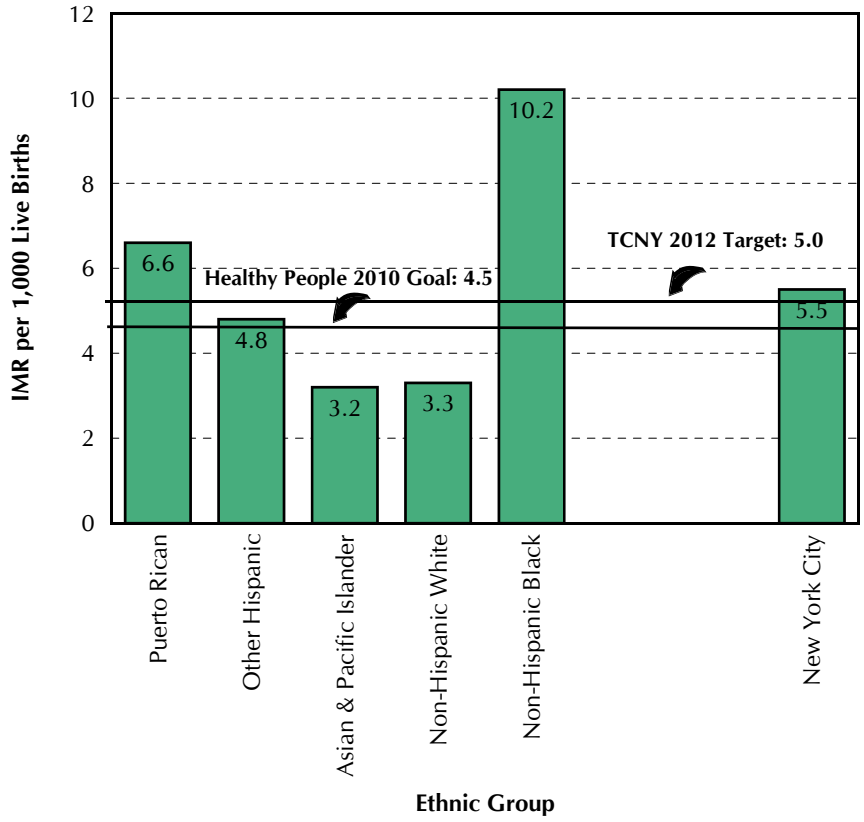


Figure 26. Infant Mortality Rate by Ethnic Group New York City, 2008

The "Take Care New York" (TCNY) 2012 target and the Healthy People 2010 goal for IMR are 5.0 and 4.5 infant deaths per 1,000 live births, respectively. This graph shows the IMR varies greatly by ethnic group. Non-Hispanic whites, Asian and Pacific Islanders and Other Hispanics have already met the TCNY goal in 2008 with IMRs of 3.3, 3.2, and 4.8 deaths per 1,000 live births, respectively. However, IMRs remain high among Puerto Ricans at 6.6 deaths per 1,000 live births and Non-Hispanic blacks at 10.2 deaths per 1,000 live births. The citywide infant mortality rate in 2008 was 5.5 infant deaths per 1,000 live births.

Table 41. Live Births to Teenagers (Age Under 20) by Selected Characteristics and Infant Deaths by Community District of Residence, New York City, 2006-2008*

Community District of Residence	Live Births	Percent of Total Live Births	Percent of Total Live Births with Specified Characteristics: Mother's Ancestry Hispanic	Foreign Born** Mother	First Live Birth	Under 2,500 Grams	Preterm Birth***	Mother Not Married	On Medicaid#	Infant Mortality (Under 1 Year): Number	Infant Mortality (Under 1 Year): Rate##	Neonatal Mortality (Under 28 Days): Number	Neonatal Mortality (Under 28 Days): Rate##
NEW YORK CITY	25,687	6.7	58.2	32.8	85.9	10.4	10.3	89.5	82.7	186	7.2	114	4.4
MANHATTAN	3,251	5.4	67.8	30.6	86.2	10.8	10.6	92.5	90.4	23	7.1	13	4.0
Battery Park, Tribeca (01)	8	0.3	25.0	37.5	75.0	–	–	87.5	62.5	–	–	–	–
Greenwich Village, SOHO (02)	9	0.3	50.0	33.3	100.0	–	–	100.0	66.7	–	–	–	–
Lower East Side (03)	317	4.5	69.6	20.9	85.8	9.8	10.7	90.2	91.1	2	6.3	2	6.3
Chelsea, Clinton (04)	75	2.8	64.9	15.7	92.0	9.3	12.0	92.0	82.4	–	–	–	–
Midtown Business District (05)	33	2.1	42.4	25.0	75.8	9.1	12.1	93.9	84.8	1	30.3	1	30.3
Murray Hill (06)	17	0.4	52.9	23.5	100.0	11.8	–	94.1	82.4	–	–	–	–
Upper West Side (07)	168	2.0	66.0	21.7	85.1	12.5	10.7	92.3	84.3	1	6.0	1	6.0
Upper East Side (08)	76	0.9	30.3	9.2	90.8	10.5	7.9	93.4	81.6	1	13.2	–	–
Manhattanville (09)	445	10.4	75.0	42.7	87.4	11.0	9.2	93.5	91.9	5	11.2	2	4.5
Central Harlem (10)	563	10.8	33.3	19.4	86.0	13.0	12.4	94.1	88.1	3	5.3	1	1.8
East Harlem (11)	702	13.1	66.1	20.7	84.3	13.7	13.0	92.6	91.0	8	11.4	6	8.5
Washington Heights (12)	838	9.9	93.3	48.7	86.8	7.4	8.5	91.5	94.0	2	2.4	–	–
BRONX	7,670	11.8	70.8	28.1	85.3	10.5	9.7	93.5	81.6	51	6.6	31	4.0
Mott Haven (01)	790	15.4	73.2	22.8	82.8	10.5	8.7	95.6	86.9	12	15.2	7	8.9
Hunts Point (02)	424	15.2	78.9	24.1	83.7	10.8	10.8	92.9	87.7	2	4.7	2	4.7
Morrisania (03)	576	13.9	65.5	16.6	85.8	12.7	12.0	96.2	72.6	5	8.7	3	5.2
Concourse, Highbridge (04)	978	11.5	76.4	39.3	85.3	8.5	9.5	93.3	77.9	6	6.1	5	5.1
University/Morris Heights (05)	1,025	13.4	78.7	33.3	84.8	10.1	10.2	94.4	73.1	7	6.8	3	2.9
East Tremont (06)	628	14.5	74.2	19.9	82.8	9.1	8.8	94.9	74.3	2	3.2	2	3.2
Fordham (07)	828	11.2	82.0	33.0	85.1	11.0	9.8	92.0	84.4	9	10.9	6	7.2
Riverdale (08)	218	6.1	81.9	36.1	88.1	10.1	9.6	90.4	85.2	2	9.2	–	–
Unionport, Soundview (09)	932	11.5	71.1	25.1	84.9	10.9	9.3	92.6	87.3	1	1.1	1	1.1
Throgs Neck (10)	208	6.8	61.9	19.2	91.8	12.5	7.7	91.3	82.7	–	–	–	–
Pelham Parkway (11)	323	7.6	58.8	29.3	87.0	9.3	9.9	87.3	86.1	1	3.1	1	3.1
Williamsbridge (12)	739	12.0	37.6	27.9	88.9	11.6	9.1	95.0	88.1	4	5.4	1	1.4
BROOKLYN	8,330	6.8	43.9	31.2	86.2	10.7	10.9	86.4	86.6	56	6.7	35	4.2
Williamsburg, Greenpoint (01)	470	4.8	65.5	15.8	89.6	9.4	8.1	71.1	83.8	2	4.3	1	2.1
Fort Greene, Brooklyn Heights (02)	191	5.0	35.1	13.6	88.5	9.9	9.9	91.1	88.4	1	5.2	–	–
Bedford Stuyvesant (03)	845	11.9	31.5	16.2	85.2	12.0	12.1	92.4	87.3	4	4.7	2	2.4
Bushwick (04)	776	12.5	79.0	36.5	83.1	8.8	9.7	94.8	92.0	3	3.9	2	2.6
East New York (05)	1,085	12.5	44.2	25.9	86.3	12.4	12.5	94.7	80.9	15	13.8	10	9.2
Park Slope (06)	201	4.1	57.1	15.0	89.6	8.5	9.0	93.0	86.6	–	–	–	–
Sunset Park (07)	555	6.2	84.2	53.3	84.1	6.8	7.7	84.5	92.1	3	5.4	2	3.6
Crown Heights North (08)	375	8.5	16.8	22.9	85.0	11.5	12.5	95.2	85.6	2	5.3	1	2.7
Crown Heights South (09)	300	5.9	18.3	35.0	91.7	13.0	13.0	95.3	87.8	2	6.7	1	3.3
Bay Ridge (10)	177	3.4	48.0	57.7	82.5	9.0	5.1	62.1	79.7	–	–	–	–
Bensonhurst (11)	249	3.6	56.5	51.4	82.7	11.6	11.2	73.9	87.9	–	–	–	–
Borough Park (12)	462	3.1	69.3	41.4	89.4	9.7	9.5	50.6	88.7	5	10.8	3	6.5
Coney Island (13)	337	9.5	56.2	30.0	87.8	9.8	11.0	82.2	86.3	1	3.0	1	3.0
Flatbush, Midwood (14)	454	5.5	42.7	49.4	87.0	7.3	11.5	86.3	87.8	2	4.4	1	2.2
Sheepshead Bay (15)	259	4.3	32.2	50.2	78.0	11.2	10.4	57.1	85.3	3	11.6	3	11.6
Brownsville (16)	630	14.4	22.4	13.4	84.8	12.9	12.1	97.6	87.2	5	7.9	4	6.3
East Flatbush (17)	534	7.7	10.9	40.5	88.9	13.3	12.4	94.2	86.7	4	7.5	2	3.7
Canarsie (18)	430	5.5	15.4	23.3	88.6	11.9	12.6	89.3	83.4	4	9.3	2	4.7
QUEENS	4,938	5.9	58.9	46.2	86.3	9.5	9.9	88.1	77.7	38	7.7	25	5.1
Astoria, Long Island City (01)	345	5.4	59.5	37.8	85.5	10.1	11.9	87.0	82.8	2	5.8	2	5.8
Sunnyside, Woodside (02)	172	3.8	82.4	63.4	85.5	5.2	9.4	81.4	84.8	–	–	–	–
Jackson Heights (03)	717	8.3	92.0	70.1	84.9	8.6	8.0	88.7	90.1	6	8.4	4	5.6
Elmhurst, Corona (04)	577	6.5	90.3	68.6	84.2	6.1	9.7	90.6	87.8	2	3.5	2	3.5
Ridgewood, Glendale (05)	332	5.1	78.8	39.2	86.4	9.9	11.4	87.0	86.4	3	9.0	3	9.0
Rego Park, Forest Hills (06)	46	1.2	43.6	60.9	91.3	6.5	6.5	60.9	58.7	–	–	–	–
Flushing (07)	233	2.8	66.2	51.5	89.7	11.6	12.9	83.3	73.6	–	–	–	–
Fresh Meadows, Briarwood (08)	155	2.9	45.9	40.0	92.9	7.7	6.5	80.0	72.8	5	32.3	4	25.8
Woodhaven (09)	437	7.2	66.7	48.9	86.7	8.5	5.9	80.5	63.2	1	2.3	–	–
Howard Beach (10)	247	5.5	37.7	48.2	89.9	10.9	11.3	83.4	62.2	2	8.1	–	–
Bayside (11)	22	1.1	59.1	18.2	95.5	9.1	9.1	86.4	54.5	–	–	–	–
Jamaica, St. Albans (12)	865	9.3	30.7	32.8	84.5	10.3	9.7	92.0	70.8	12	13.9	8	9.2
Queens Village (13)	328	6.1	15.3	28.4	89.3	11.0	11.3	92.7	70.7	2	6.1	1	3.0
The Rockaways (14)	462	11.0	31.3	19.1	86.1	13.6	13.2	94.8	78.8	3	6.5	1	2.2
STATEN ISLAND	980	5.6	51.5	30.6	83.9	9.5	11.0	89.5	71.0	13	13.3	6	6.1
Port Richmond (01)	746	9.6	56.7	33.0	82.4	10.3	11.4	90.6	73.4	12	16.1	6	8.0
Willowbrook, South Beach (02)	160	3.7	39.9	28.1	86.9	8.1	10.6	85.6	68.2	–	–	–	–
Tottenville (03)	72	1.4	23.9	12.7	91.7	4.2	8.3	87.5	53.5	1	13.9	–	–

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

Map of percent of live births to teenagers by community district of residence is presented on page 56 (Map 3).

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

** Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States, a change from 1996-2005 when those two birthplaces were included in foreign category.

*** Clinical gestational age less than 37 completed weeks.

See Technical Notes: BIRTHS, Changes to Items Reported in Summary.

Rate per 1,000 live births.

Table 42a. Live Births and Infant Deaths by Birth Weight, Ethnic Group*, and Age, New York City, 2008

Birth Weight in Grams	Live Births						Infant Deaths																	
							Total						Age Under 28 Days						Age Under 7 Days					
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.
Less than 500	121	34	12	58	12	5	115	34	10	56	10	5	110	32	9	54	10	5	104	30	9	50	10	5
500-999	822	232	148	382	49	11	206	56	37	100	10	3	164	45	31	75	10	3	130	34	26	63	6	1
1,000-1,499	1,116	316	239	417	110	34	61	25	14	13	6	3	44	22	9	6	5	2	25	16	5	2	–	2
1,500-1,999	2,192	625	557	712	237	61	54	17	5	26	4	2	35	12	4	15	4	–	20	6	3	9	2	–
2,000-2,499	7,121	2,054	1,847	2,034	1,005	181	55	15	11	19	10	–	27	9	4	10	4	–	14	5	3	5	1	–
Less than 2,500	11,372	3,261	2,803	3,603	1,413	292	491	147	77	214	40	13	380	120	57	160	33	10	293	91	46	129	19	8
2,500-2,999	25,741	7,791	6,546	6,500	4,284	620	68	19	11	28	9	1	29	6	7	8	7	1	20	4	6	4	6	–
3,000-3,499	51,161	16,265	15,334	10,713	7,843	1,006	65	20	13	24	7	1	22	8	6	5	2	1	11	5	3	1	2	–
3,500-3,999	31,162	10,336	10,635	5,615	3,913	663	24	9	7	6	1	1	11	2	5	2	1	1	8	1	4	1	1	1
4,000-4,499	7,208	2,367	2,704	1,275	679	183	4	1	2	1	–	–	1	1	–	–	–	–	1	1	–	–	–	–
4,500-4,999	936	321	332	188	66	29	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5,000 & Over	96	38	28	23	6	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,500 & Over	116,304	37,118	35,579	24,314	16,791	2,502	161	49	33	59	17	3	63	17	18	15	10	3	40	11	13	6	9	1
Not stated	4	1	1	–	–	2	1	1	–	–	–	–	1	1	–	–	–	–	1	1	–	–	–	–
Unmatched**	–	–	–	–	–	–	45	14	15	11	2	3	22	4	7	7	1	3	11	2	2	3	1	3
Total	127,680	40,380	38,383	27,917	18,204	2,796	698	211	125	284	59	19	466	142	82	182	44	16	345	105	61	138	29	12

* See Technical Notes: Demographics, Race/Ethnicity in Infant Mortality.

**Birth occurred outside of New York City or positive identification of matching birth certificate could not be made.

Non-H = non-Hispanic; P.I. = Parcific Islander; Unk = Unknown.

Table 42b. Infant Mortality Rates* by Birth Weight, Ethnic Group, and Age, New York City, 2008

Birth Weight in Grams	Total					Age Under 28 Days					Age Under 7 Days				
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.
Less than 500	950.4	**	**	**	**	909.1	**	**	**	**	859.5	**	**	**	**
500-999	250.6	241.4	250.0	261.8	**	199.5	194.0	209.5	196.3	**	158.2	146.6	175.7	164.9	**
1,000-1,499	54.7	79.1	58.6	31.2	54.5	39.4	69.6	37.7	14.4	45.5	22.4	50.6	20.9	4.8	–
1,500-1,999	24.6	27.2	9.0	36.5	16.9	16.0	19.2	7.2	21.1	16.9	9.1	9.6	5.4	12.6	8.4
2,000-2,499	7.7	7.3	6.0	9.3	10.0	3.8	4.4	2.2	4.9	4.0	2.0	2.4	1.6	2.5	1.0
Less than 2,500	43.2	45.1	27.5	59.4	28.3	33.4	36.8	20.3	44.4	23.4	25.8	27.9	16.4	35.8	13.4
2,500-2,999	2.6	2.4	1.7	4.3	2.1	1.1	0.8	1.1	1.2	1.6	0.8	0.5	0.9	0.6	1.4
3,000-3,499	1.3	1.2	0.8	2.2	0.9	0.4	0.5	0.4	0.5	0.3	0.2	0.3	0.2	0.1	0.3
3,500-3,999	0.8	0.9	0.7	1.1	0.3	0.4	0.2	0.5	0.4	0.3	0.3	0.1	0.4	0.2	0.3
4,000-4,499	0.6	0.4	0.7	0.8	–	0.1	0.4	–	–	–	0.1	0.4	–	–	–
4,500-4,999	–	–	–	–	**	–	–	–	–	**	–	–	–	–	**
5,000 & Over	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
2,500 & Over	1.4	1.3	0.9	2.4	1.0	0.5	0.5	0.5	0.6	0.6	0.3	0.3	0.4	0.2	0.5
Total	5.5	5.2	3.3	10.2	3.2	3.6	3.5	2.1	6.5	2.4	2.7	2.6	1.6	4.9	1.6

* Rate per 1,000 live births. Births and deaths included here were registered in 2008 and do not represent a true birth cohort.

** Rate not computed where number of births is less than 100.

Non-H = non-Hispanic; P.I. = Parcific Islander.

Table 42c. Live Births and Infant Deaths by Gestational Age, Ethnic Group*, and Age, New York City, 2008

Gestational Age in Weeks	Live Births						Infant Deaths																	
							Total						Age Under 28 Days						Age Under 7 Days					
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.
Extreme preterm (< 28)	913	264	150	425	59	15	320	90	48	154	20	8	272	78	42	125	19	8	233	65	36	111	15	6
28-31	1,246	386	259	460	107	34	69	25	14	25	3	2	45	20	7	14	3	1	29	15	5	8	–	1
Very preterm (< 32)	2,159	650	409	885	166	49	389	115	62	179	23	10	317	98	49	139	22	9	262	80	41	119	15	7
32-33	1,576	490	365	512	162	47	29	10	4	10	3	2	20	7	3	7	2	1	10	3	2	4	–	1
34-36	8,720	2,736	2,298	2,399	1,059	228	60	19	8	20	12	1	32	9	3	13	7	–	17	6	2	6	3	–
32-36	10,296	3,226	2,663	2,911	1,221	275	89	29	12	30	15	3	52	16	6	20	9	1	27	9	4	10	3	1
Preterm (< 37)	12,455	3,876	3,072	3,796	1,387	324	478	144	74	209	38	13	369	114	55	159	31	10	289	89	45	129	18	8
37 or more	115,212	36,502	35,306	24,120	16,815	2,469	174	53	36	64	18	3	74	24	20	16	11	3	44	14	14	6	9	1
Not stated	13	2	5	1	2	3	1	–	–	–	1	–	1	–	–	–	1	–	1	–	–	–	1	–
Unmatched**	–	–	–	–	–	–	45	14	15	11	2	3	22	4	7	7	1	3	11	2	2	3	1	3
Total	127,680	40,380	38,383	27,917	18,204	2,796	698	211	125	284	59	19	466	142	82	182	44	16	345	105	61	138	29	12

* See Technical Notes: Demographics, Race/Ethnicity in Infant Mortality.

**Birth occurred outside of New York City or positive identification of matching birth certificate could not be made.

Non-H = non-Hispanic; P.I. = Parcific Islander; Unk = Unknown.

Table 42d. Infant Mortality Rates* by Gestational Age, Ethnic Group, and Age, New York City, 2008

Gestational Age in Weeks	Total					Age Under 28 Days					Age Under 7 Days				
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.
Extreme preterm (< 28)	350.5	340.9	320.0	362.4	**	297.9	295.5	280.0	294.1	**	255.2	246.2	240.0	261.2	**
28-31	55.4	64.8	54.1	54.3	28.0	36.1	51.8	27.0	30.4	28.0	23.3	38.9	19.3	17.4	–
Very preterm (< 32)	180.2	176.9	151.6	202.3	138.6	146.8	150.8	119.8	157.1	132.5	121.4	123.1	100.2	134.5	90.4
32-33	18.4	20.4	11.0	19.5	18.5	12.7	14.3	8.2	13.7	12.3	6.3	6.1	5.5	7.8	–
34-36	6.9	6.9	3.5	8.3	11.3	3.7	3.3	1.3	5.4	6.6	1.9	2.2	0.9	2.5	2.8
32-36	8.6	9.0	4.5	10.3	12.3	5.1	5.0	2.3	6.9	7.4	2.6	2.8	1.5	3.4	2.5
Preterm (< 37)	38.4	37.2	24.1	55.1	27.4	29.6	29.4	17.9	41.9	22.4	23.2	23.0	14.6	34.0	13.0
37 or more	1.5	1.5	1.0	2.7	1.1	0.6	0.7	0.6	0.7	0.7	0.4	0.4	0.4	0.2	0.5
Total	5.5	5.2	3.3	10.2	3.2	3.6	3.5	2.1	6.5	2.4	2.7	2.6	1.6	4.9	1.6

* Rate per 1,000 live births. Births and deaths included here were registered in 2008 and do not represent a true birth cohort.

** Rate not computed where number of births is less than 100.

Non-H = non-Hispanic; P.I. = Parcific Islander.

Table 43. Infant Deaths by Ethnic Group*, Sex, and Age, New York City, 2008

Sex		Age Under 7 Days						Age 7 to 27 Days						Age 28 Days and Over					
	Total	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unknown	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unknown	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unknown
Male	394	198	63	31	79	16	9	65	22	12	21	6	4	131	45	25	56	5	–
Female	304	147	42	30	59	13	3	56	15	9	23	9	–	101	24	18	46	10	3
Total	698	345	105	61	138	29	12	121	37	21	44	15	4	232	69	43	102	15	3

* See Technical Notes: Demographics, Race/Ethnicity in Infant Mortality.

Non-H = non-Hispanic; P.I. = Parcific Islander; Unk = Unknown.

Table 44. Infant Deaths by Cause, Sex, and Age, New York City, 2008

	ICD10/ICD9 Comparability Ratio*	Total	Male			Female		
			Under 7 Days	7 to 27 Days	28 Days & Over	Under 7 Days	7 to 27 Days	28 Days & Over
Total		698	198	65	131	147	56	101
Cause of Death (ICD-10 Codes)								
# Diseases of the Circulatory System (I00-I99)	0.66	13	1	2	5	1	–	4
# Influenza and Pneumonia (J10-J18)	0.73	5	–	–	3	–	–	2
# Newborn Affected by Maternal Complications of Pregnancy (P01)	1.05	9	5	–	–	3	–	1
# Newborn Affected by Complications of Placenta, Cord and Membranes (P . .	1.02	19	10	–	–	7	1	1
# Short Gestation and Low Birth Weight (P07)	1.11	114	48	4	5	49	4	4
# Intrauterine Hypoxia and Birth Asphyxia (P20-P21)	1.32	8	4	1	–	2	1	–
# Respiratory Distress of Newborn (P22)	0.87	41	23	6	–	10	1	1
# Pulmonary Hemorrhage Originating in the Perinatal Period (P26)	1.53	9	5	1	–	3	–	–
# Atelectasis (P28.0-P28.1)	2.22	6	4	1	–	1	–	–
##Other Respiratory Conditions Originating in the Perinatal Period (P23-P28 . .		11	4	2	3	1	–	1
##Cardiovascular Disorders Originating in the Perinatal Period (P29)		96	42	8	–	35	11	–
##Infections Specific to the Perinatal Period (P35-P39)	1.15	12	5	2	1	–	4	–
# Neonatal Hemorrhage (P50-P52, P54)	1.31	6	2	1	–	2	–	1
# Necrotizing Enterocolitis of Newborn (P77)	1.19	17	1	5	2	2	7	–
Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)		22	5	2	2	7	5	1
# Congenital Malformations, Deformations (Q00-Q99)	0.93	151	34	22	31	21	19	24
Congenital Malformations of Heart (Q20-Q24)	1.01	55	9	9	18	2	6	11
# Sudden Infant Death Syndrome (R95)	1.06	12	–	1	3	–	–	8
All Other Diseases (Rest of A00-R99)		78	1	4	45	3	3	22
##External Causes (V01-Y89)	1.00	69	4	3	31	–	–	31

* See Technical Notes: Cause of Death, Comparability Ratio.

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

Contain causes eligible to be ranked as a leading cause nationally but infrequent in New York City; these created groups permit recognition of important causes of infant deaths.

Table 45. Infant Mortality Rate* by Mother's Birthplace, New York City, 2002-2008

Birthplace	2002	2003	2004	2005	2006	2007	2008
Guyana	8.5	7.8	7.4	9.2	8.2	7.5	10.7
Haiti	12.9	8.7	14.3	9.2	8.9	5.3	8.0
Trinidad and Tobago	6.3	4.7	8.6	6.0	9.5	4.8	7.7
Jamaica	7.6	10.3	8.3	7.8	9.4	5.1	7.2
Pakistan	7.5	6.3	8.6	6.2	8.6	6.8	7.1
Nigeria	4.2	2.6	5.6	8.9	7.9	3.5	5.2
Guatemala	**	**	**	3.9	1.8	5.4	5.1
Mexico	5.2	3.8	4.7	4.4	3.7	3.5	5.0
Honduras	9.2	4.8	2.4	5.0	3.6	1.1	4.6
Ghana	9.0	9.3	12.2	11.3	5.9	10.0	4.4
Poland	5.7	2.6	1.2	7.4	0.0	2.0	4.1
Dominican Republic	3.8	5.8	4.1	5.1	4.1	3.4	3.8
Ukraine	1.5	2.7	6.8	1.4	0.0	3.8	3.8
Canada	**	**	7.1	3.8	3.3	0.0	3.5
United Kingdom	4.7	9.4	3.2	6.9	6.3	1.6	3.4
Ecuador	3.2	3.4	2.6	3.5	3.5	5.2	3.0
El Salvador	4.0	4.0	0.0	6.2	8.2	3.8	2.5
India	1.8	3.1	4.9	5.6	4.4	3.1	2.3
China	1.4	3.6	2.6	1.8	2.1	1.6	2.2
Yemen Arab Republic	**	**	**	**	**	**	2.0
Bangladesh	2.7	4.0	4.5	2.6	2.4	4.2	1.8
Philippines	2.6	4.7	3.6	2.6	3.7	2.4	1.3
Russia	1.1	2.0	4.1	4.7	4.3	0.0	1.1
Colombia	0.8	7.8	3.4	0.9	3.8	0.0	1.0
Korea	2.4	0.0	2.0	2.2	2.1	2.6	1.0
Israel	4.7	1.8	5.4	0.8	2.6	2.4	0.0
Peru	1.7	3.3	3.4	3.5	7.2	5.5	**
Puerto Rico	9.0	8.3	4.6	7.4	12.0	6.6	6.9
United States #	6.7	6.8	6.6	5.9	6.3	6.2	6.1
New York City Total	6.0	6.5	6.1	6.0	5.9	5.4	5.5

Note: The foreign countries listed are according to the descending order of infant mortality rates in most current year.

* Infant mortality rate per 1,000 live births.

** Live births are less than 500 in that year. For each year, only countries with 500 or more live births are listed.

\# Beginning in 2006, U.S. Virgin Islands and Guam are included in the United States.

Table 46.

Live Births, Infant Mortality, and Maternal Mortality by Mother's Ethnic Group
New York City, 1992-2008

Mother's Ethnic Group*	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002**	2003	2004	2005	2006	2007	2008
Live Births, Total	136,002	133,583	133,662	131,009	126,901	123,313	124,252	123,739	125,563	124,023	122,937	124,345	124,099	122,725	125,506	128,961	127,680
Puerto Rican	17,856	16,568	15,182	13,895	12,925	12,947	13,056	12,184	11,615	10,846	10,678	10,172	10,140	9,922	10,111	10,229	10,351
Other Hispanic	25,556	26,571	28,298	29,717	28,114	26,108	26,793	27,887	28,695	29,310	29,229	29,587	29,658	29,619	30,300	30,483	30,029
Asian and Pacific Islander	12,688	10,742	11,268	11,647	12,782	13,226	13,132	13,768	15,106	14,662	15,396	16,577	16,736	16,407	17,356	19,291	18,204
Non-Hispanic White	37,102	38,403	38,203	36,711	37,215	37,006	36,957	36,369	36,752	36,581	36,445	38,018	37,659	37,340	38,231	39,351	38,383
Non-Hispanic Black	40,662	39,768	39,195	37,217	34,798	33,500	33,675	32,960	32,879	32,123	30,690	29,646	29,449	28,935	29,077	29,268	27,917
Other or Unknown	2,138	1,531	1,516	1,822	1,067	526	639	571	516	501	499	345	457	502	431	339	2,796
Infant Deaths (under 1 year)*** Total	1,390	1,366	1,207	1,155	992	881	843	848	839	760	742	807	760	732	740	697	698
Puerto Rican	194	178	120	146	112	96	85	95	98	74	83	81	76	66	94	64	68
Other Hispanic	170	196	174	197	164	141	129	156	140	151	150	164	133	135	129	130	143
Asian and Pacific Islander	73	61	57	57	56	51	49	55	59	46	39	58	69	61	62	59	59
Non-Hispanic White	227	244	223	204	197	189	201	167	165	154	148	146	131	178	145	155	125
Non-Hispanic Black	676	646	598	522	448	385	363	350	366	322	311	336	342	282	304	287	284
Other or Unknown	50	41	35	29	15	19	16	25	11	13	11	22	9	10	6	2	19
Infant Mortality Rate # Total	10.2	10.2	9.0	8.8	7.8	7.1	6.8	6.9	6.7	6.1	6.0	6.5	6.1	6.0	5.9	5.4	5.5
Puerto Rican	10.9	10.7	7.9	10.5	8.7	7.4	6.5	7.8	8.4	6.8	7.8	8.0	7.5	6.7	9.3	6.3	6.6
Other Hispanic	6.7	7.4	6.1	6.6	5.8	5.4	4.8	5.6	4.9	5.2	5.1	5.5	4.5	4.6	4.3	4.3	4.8
Asian and Pacific Islander	5.8	5.7	5.1	4.9	4.4	3.9	3.7	4.0	3.9	3.1	2.5	3.5	4.1	3.7	3.6	3.1	3.2
Non-Hispanic White	6.1	6.4	5.8	5.6	5.3	5.1	5.4	4.6	4.5	4.2	4.1	3.8	3.5	4.8	3.8	3.9	3.3
Non-Hispanic Black	16.6	16.2	15.3	14.0	12.9	11.5	10.8	10.6	11.1	10.0	10.1	11.3	11.6	9.7	10.5	9.8	10.2
Neonatal Deaths (under 28 days) Total	941	917	804	811	656	605	593	606	583	524	497	542	516	481	484	430	466
Puerto Rican	138	108	67	113	72	60	60	74	59	54	59	51	47	42	54	37	43
Other Hispanic	120	136	122	143	113	107	92	113	94	112	106	110	92	93	91	82	99
Asian and Pacific Islander	50	38	42	44	35	37	34	39	45	29	26	43	45	42	41	39	44
Non-Hispanic White	157	177	158	146	139	130	139	120	119	102	100	99	89	129	105	93	82
Non-Hispanic Black	436	425	389	342	283	257	252	236	257	215	196	221	237	166	190	177	182
Neonatal Mortality Rate # Total.	6.9	6.9	6.0	6.2	5.2	4.9	4.8	4.9	4.6	4.2	4.0	4.4	4.2	3.9	3.9	3.3	3.6
Puerto Rican	7.7	6.5	4.4	8.1	5.6	4.6	4.6	6.1	5.1	5.0	5.5	5.0	4.6	4.2	5.3	3.6	4.2
Other Hispanic	4.7	5.1	4.3	4.8	4.0	4.1	3.4	4.1	3.3	3.8	3.6	3.7	3.1	3.1	3.0	2.7	3.3
Asian and Pacific Islander	3.9	3.5	3.7	3.8	2.7	2.8	2.6	2.8	3.0	2.0	1.7	2.6	2.7	2.6	2.4	2.0	2.4
Non-Hispanic White	4.2	4.6	4.1	4.0	3.7	3.5	3.8	3.3	3.2	2.8	2.7	2.6	2.4	3.5	2.7	2.4	2.1
Non-Hispanic Black	10.7	10.7	9.9	9.2	8.1	7.7	7.5	7.2	7.8	6.7	6.4	7.5	8.0	5.7	6.5	6.0	6.5
Maternal Deaths ## Total	30	20	29	26	22	17	16	24	30	41	31	22	28	21	29	32	39
Puerto Rican	2	2	4	3	1	1	1	1	–	2	–	1	–	–	3	2	4
Other Hispanic	3	2	5	7	4	2	2	3	7	7	6	1	8	5	3	5	5
Asian and Pacific Islander	1	–	2	1	1	1	1	1	1	–	–	1	4	1	5	3	3
Non-Hispanic White	6	–	6	–	4	2	2	6	2	4	7	3	1	2	–	2	4
Non-Hispanic Black	16	14	12	14	11	11	10	12	20	27	17	16	15	13	18	20	22
Maternal Mortality Ratio ### Total	22.1	15.0	21.7	19.8	17.3	13.8	12.9	19.4	23.9	33.1	25.2	17.7	22.6	17.1	23.1	24.8	30.5
Puerto Rican	11.2	12.1	26.3	21.6	7.7	7.7	7.7	8.2	–	18.4	–	9.8	–	–	29.7	19.6	38.6
Other Hispanic	11.7	7.5	17.7	23.6	14.2	7.7	7.5	10.8	24.4	23.9	20.5	3.4	27.0	16.9	9.9	16.4	16.7
Asian and Pacific Islander	7.9	–	17.7	8.6	7.8	7.6	7.6	7.3	6.6	–	–	6.0	23.9	6.1	28.8	15.6	16.5
Non-Hispanic White	16.2	–	15.7	–	10.7	5.4	5.4	16.5	5.4	10.9	19.2	7.9	2.7	5.4	–	5.1	10.4
Non-Hispanic Black	39.3	35.2	30.6	37.6	31.6	32.8	29.7	36.4	60.8	84.1	55.4	54.0	50.9	44.9	61.9	68.3	78.8

* See Technical Notes: Race, Ancestry, Ethnic Group, and Birthplace.
** A cause-of-death coding error was found for 2002. As a result, death of maternal cause was reduced by one and HIV disease death increased by one.
*** See Technical Notes: Demographics, Race/Ethnicity in Infant Mortality.
# Rate per 1,000 live births.
See Rates and Ratios Defined and Technical Notes: Maternal Death and Maternal Mortality.
Ratio per 100,000 live births.

Table 47. Number of Selected Reportable Diseases, New York City, 1940-2008

Year	Tuberculosis	Measles	Rubella	West Nile Virus*	Pertussis	Meningococcal Meningitis	Encephalitis	Hepatitis A**	Hepatitis B**	Syphilis		Gonorrhea
										Total	Primary & Secondary	
1940	9,005	10,496	988		5,775	48	28			30,178	3,113	14,639
1941-1945	8,608	24,890	7,360		5,706	705	42			25,773	4,124	13,955
1946-1950	7,862	17,348	2,442		2,574	145	55			24,144	2,686	21,522
1951-1955	7,002	20,025	3,956		1,726	135	256			22,046	685	12,468
1956-1960	5,472	18,170	3,893		966	73	197			15,124	1,242	13,270
1961-1965	4,427	12,279	5,744		253	58	172			19,052	3,259	23,005
1966-1970	3,194	3,508	1,402		164	78	72			12,529	2,587	32,640
1971-1975	2,224	1,210	353		65	40	17			8,839	3,453	42,881
1976	2,151	497	163		43	51	20			6,832	2,494	40,589
1977	1,605	804	336		47	64	20	566	670	4,749	1,881	39,302
1978	1,307	405	152		54	88	30	499	493	5,567	2,060	40,208
1979	1,530	859	290		44	91	17	386	488	6,680	2,552	40,034
1980	1,514	1,210	105		30	110	15	364	562	5,906	2,387	43,699
1981	1,582	108	55		25	91	20	606	879	6,878	2,568	45,859
1982	1,594	49	36		53	104	21	689	1,117	7,296	2,602	46,960
1983	1,651	72	87		61	89	14	507	1,327	6,822	2,473	46,117
1984	1,629	113	111		20	75	9	560	1,528	6,796	2,285	48,032
1985	1,843	181	184		26	70	18	N.A.	N.A.	6,947	2,157	58,532
1986	2,223	944	2		10	81	21	N.A.	N.A.	6,465	2,111	69,998
1987	2,197	449	3		15	57	8	172	1,213	10,472	4,452	84,022
1988	2,317	57	7		11	66	6	368	1,307	11,966	5,042	52,404
1989	2,545	135	16		19	50	9	502	1,418	13,748	4,362	40,533
1990	3,520	1,108	4		21	79	12	791	674	16,195	4,265	35,236
1991	3,673	1,909	2		22	30	5	1,283	440	14,895	3,133	28,945
1992	3,811	68	0		24	28	9	883	439	13,439	2,246	21,709
1993	3,235	19	22		116	40	5	1,028	472	10,476	1,129	18,477
1994	2,995	15	1		223	40	11	942	544	7,640	626	19,246
1995	2,445	5	6		36	54	8	1,008	494	7,577	362	16,361
1996	2,053	12	5		62	56	4	619	495	5,670	138	12,998
1997	1,730	13	25		42	57	14	920	460	4,889	97	14,556
1998	1,558	0	17		12	35	14	575	415	4,503	82	12,100
1999	1,460	3	6	47	7	59	143	412	305	3,682	130	12,207
2000	1,332	13	8	14	11	46	178	550	571	2,661	117	11,669
2001	1,261	7	6	9	6	42	172	454	666	3,267	282	12,614
2002	1,084	6	2	29	5	31	211	469	721	3,444	434	12,811
2003	1,140	5	2	32	28	45	169	448	211	3,767	531	13,468
2004	1,039	5	2	5	61	31	183	354	163	3,674	621	10,860
2005	984	6	1	14	40	27	214	277	134	3,182	616	10,596
2006	953	3	2	12	112	58	106	120	120	3,719	578	10,299
2007	914	5	2	18	156	22	177	156	122	4,195	913	10,310
2008	895	28	1	15	114	28	249	113	114	4,675	1,065	10,483

Note: Figures for single years from 1941 to 1975 appear in the Annual Summaries for 2007 and earlier. Scarlet fever is no longer reportable in 2008 and it is taken out from this table.
* Includes cases of West Nile neuroinvasive disease and West Nile fever.
** Accurate diagnosis of Hepatitis A&B based on laboratory testing became available in 1977. Clinically defined cases of Hepatitis reported earlier appear in the 1998 Annual Summary and earlier. The method of counting Hepatitis B beginning 2003 was changed so that cases represent newly acquired cases of Hepatitis B. The numbers are probable or definite new cases.
Data source: Bureaus of Communicable Disease, Immunization, and Tuberculosis Control, New York City Department of Health and Mental Hygiene.

Table 48. Incidence of AIDS By Sex, Major Risk Group, and Year of Diagnosis, New York City, 1981-2008

Sex/Risk Group	1981-1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Male														
Sex with Men	32,024	2,063	1,514	1,162	1,168	1,322	1,225	1,080	1,342	1,197	1,194	1,143	1,058	1,018
Injection Drug Use (IDU) History	33,536	2,683	1,953	1,389	1,285	1,230	932	658	719	584	482	407	358	269
Heterosexual Transmission	1,319	422	373	339	322	395	410	368	323	283	260	245	203	180
Perinatal	890	75	28	26	24	20	21	21	21	28	26	25	20	18
Other	417	41	24	32	9	15	9	*	*	*	*	*	*	0
Unknown/Under Investigation	5,277	1,434	1,223	937	931	1,243	1,211	1,078	1,196	894	895	792	743	727
Total	73,463	6,718	5,115	3,885	3,739	4,225	3,808	3,205	3,601	2,986	2,857	2,612	2,382	2,212
Female														
Injection Drug Use (IDU) History	11,096	1,059	833	589	526	559	407	279	293	269	215	155	147	123
Heterosexual Transmission	6,475	1,078	973	761	709	757	700	614	680	560	595	629	621	521
Perinatal	899	52	55	20	18	19	37	22	21	25	27	25	20	22
Other	256	37	27	18	13	8	*	7	*	*	*	*	0	*
Unknown/Under Investigation	1,422	431	408	386	380	611	673	612	739	554	470	332	290	247
Total	20,148	2,657	2,296	1,774	1,646	1,954	1,817	1,534	1,733	1,408	1,307	1,141	1,078	913

Note: Beginning in 2003, risk groups "Perinatal" and "Unknown/Under Investigation" were separated from "Other" category. Beginning in 2005, "Probable Heterosexuals" were taken out from "Male Heterosexual Transmission" and included in "Unknown/Under Investigation" category.
To be classified as having AIDS, an HIV-infected person must meet CDC case-surveillance criteria. These include the presence of opportunistic illness or CD4+ lymphocyte count below 200. For further information, call the HIV Epidemiology Program, (212) 442-3388. Figures include reports through September 30, 2008. Data for recent years are incomplete due to reporting lag.
Data source: HIV Epidemiology and Field Service Program, Bureau of HIV/AIDS, New York City Department of Health and Mental Hygiene.
* Cells represents 1-5 person(s).

Table 49. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day
New York City, 2008

Months	Number				Average Per Day			
	Marriages	Births	Deaths	Infant Deaths	Marriages	Births	Deaths	Infant Deaths
January	4,390	10,886	4,877	60	142	351	157	1.9
February	4,850	10,002	4,874	62	167	345	168	2.1
March	5,169	10,470	5,163	73	167	338	167	2.4
April	5,751	10,201	4,471	44	192	340	149	1.5
May	6,068	10,772	4,447	60	196	347	143	1.9
June	6,290	10,569	4,310	53	210	352	144	1.8
July	6,581	10,929	4,307	54	212	353	139	1.7
August	6,645	11,032	4,246	54	214	356	137	1.7
September	5,844	10,962	4,100	59	195	365	137	2.0
October	5,599	11,015	4,403	68	181	355	142	2.2
November	4,363	10,103	4,305	46	145	337	144	1.5
December	5,120	10,739	4,690	65	165	346	151	2.1
Total	66,670	127,680	54,193	698	182	349	148	1.9

Data source: Number of marriages is provided by New York City Office of City Clerk.

Table 50. Most Popular Baby Names by Sex
New York City, Selected Years

Rank	Girls											
	1898	1928	1948	1980	1985	1990	1995	2000	2005	2006	2007	2008
1	Mary	Mary	Linda	Jennifer	Jennifer	Stephanie	Ashley	Ashley	Emily	Ashley	Isabella*	Sophia
2	Catherine	Marie	Mary	Jessica	Jessica	Jessica	Jessica	Samantha	Ashley	Emily	Sophia*	Isabella
3	Margaret	Annie	Barbara	Melissa	Christina	Ashley	Amanda	Kayla	Kayla	Isabella	Emily	Emily
4	Annie	Margaret	Patricia	Nicole	Stephanie	Jennifer	Samantha	Emily	Sarah	Sarah	Ashley	Olivia
5	Rose	Catherine	Susan	Michelle	Melissa	Amanda	Stephanie	Brianna	Isabella	Kayla	Sarah	Sarah
6	Marie	Gloria	Kathleen	Elizabeth	Nicole	Samantha	Jennifer	Sarah	Samantha	Sophia	Kayla	Madison
7	Esther	Helen	Carol	Lisa	Elizabeth	Nicole	Nicole	Jessica	Sophia	Mia	Mia	Ashley
8	Sarah	Teresa	Nancy	Christina	Amanda	Christina	Sarah	Nicole	Nicole	Madison	Olivia	Mia
9	Frances	Joan	Margaret	Tiffany	Danielle	Melissa	Michelle	Michelle	Olivia	Brianna*	Samantha	Samantha
10	Ida	Barbara	Diane	Maria	Lauren	Michelle	Emily	Amanda	Rachel	Samantha*	Rachel	Emma

Rank	Boys											
	1898	1928	1948	1980	1985	1990	1995	2000	2005	2006	2007	2008
1	John	John	Robert	Michael	Michael	Michael	Michael	Michael	Michael	Michael	Daniel	Jayden
2	William	William	John	David	Christopher	Christopher	Christopher	Justin	Daniel	Daniel	Jayden	Daniel
3	Charles	Joseph	James	Jason	Daniel	Jonathan	Kevin	Christopher	Joshua	Matthew	Michael	Michael
4	George	James	Michael	Joseph	David	Anthony	Daniel	Matthew	David	Joshua	Matthew	Matthew
5	Joseph	Richard	William	Christopher	Anthony	David	Jonathan	Daniel	Justin	Justin	Justin	David
6	Edward	Edward	Richard	Anthony	Joseph	Daniel	Joseph	Anthony	Matthew	David	Joshua	Joshua
7	James	Robert	Joseph	John	Jonathan	Joseph	Anthony	Joshua	Anthony	Christopher	David	Justin
8	Louis	Thomas	Thomas	Daniel	Jason	Matthew	Matthew	David	Christopher	Joseph	Anthony	Anthony
9	Francis	George	Stephen	Robert	John	John	David	Joseph	Joseph	Anthony	Christopher	Christopher
10	Samuel	Louis	David	James	Robert	Andrew	Justin	Kevin	Nicholas	Jayden	Joseph	Ethan* Ryan*

* Tied ranks.

Table 51. Most Popular Baby Names by Sex and Mother's Ethnic Group
New York City, 2008

Rank	Girls				Boys			
	Hispanic	NH-Black	NH-White	Asian & P.I.	Hispanic	NH-Black	NH-White	Asian & P.I.
1	Ashley	Madison	Olivia	Sophia	Jayden	Jayden	Daniel	Ryan
2	Isabella	Kayla	Esther	Chloe	Justin	Joshua	Joseph	Eric
3	Emily	Makayla	Sarah	Emily	Angel	Elijah	Michael	Jason*
4	Brianna	Nevaeh	Sophia	Tiffany	Anthony	Jeremiah	David	Matthew*
5	Mia	Jada	Rachel	Fiona	Christopher	Christian	Matthew	Daniel
6	Samantha	Brianna	Emma	Isabella	Daniel	Michael	Alexander	Ethan
7	Sophia	Chloe	Chaya	Olivia	Joshua	Justin	Jacob	Kevin
8	Melanie	Destiny	Ava	Sarah	Kevin	Daniel	Nicholas	Justin
9	Genesis	Alyssa	Leah	Angela*	Brandon*	Ethan*	Jack	Ivan
10	Kimberly	Gabrielle* Imani*	Miriam	Vivian*	David*	Tyler*	Samuel	Vincent

* Tied ranks.

Note: Mothers of Hispanic ethnicity may be of any race. NH = non-Hispanic; P.I. = Parcific Islander.
Mothers of other or unknown ethnicities not shown. See Technical Notes: Race, Ancestry, Ethnic Group, and Birthplace.

Table 52. Live Births by Borough and Institution, New York City, 2008

Borough and Institution	Births
Manhattan	
Allen Pavilion	2,374
Bellevue Hospital Center	1,892
Beth Israel Medical Center	3,794
Columbia Presbyterian Medical Center	4,526
Harlem Hospital Center	1,194
Lenox Hill Hospital	3,682
Metropolitan Hospital Center	1,747
Mount Sinai Hospital	6,094
New York Downtown Hospital	2,360
New York Weill Cornell Medical Center	5,496
NYU Hospital Center - Tisch Hospital	4,785
St. Luke's - Roosevelt Hospital Center / Roosevelt Hospital Division.	6,203
St. Vincent's Hospital Manhattan	1,556
Places other than a hospital or home*	25
Home**	397
Bronx	
Bronx Lebanon Hospital Center	2,793
Jack D. Weiler Hospital of the Albert Einstein College of Medicine	5,121
Jacobi Medical Center	2,322
Lincoln Medical and Mental Health Center	2,381
North Central Bronx Hospital	1,748
Montefiore Medical Center, North Division #	1,892
St. Barnabas Hospital	1,023
Women's Health & Birthing Pavilion	90
Places other than a hospital or home*	26
Home**	58
Brooklyn	
Brookdale University Hospital and Medical Center	1,674
Brooklyn Birthing Center	105
Brooklyn Hospital Center	2,643
Coney Island Hospital	1,291
Interfaith Medical Center.	1
Kings County Hospital Center	2,645
Long Island College Hospital	2,090
Lutheran Medical Center	4,566
Maimonides Medical Center	7,378
New York Methodist Hospital	5,308
University Hospital of Brooklyn	1,770
Woodhull Medical and Mental Health Center	2,135
Wyckoff Heights Medical Center	1,635
Places other than a hospital or home*	32
Home**	110
Queens	
Elmhurst Hospital Center	3,980
Flushing Hospital Medical Center	2,518
Forest Hills Hospital	2,025
Jamaica Hospital Medical Center	2,846
Long Island Jewish Medical Center	5,346
Mary Immaculate Hospital.	1
Mount Sinai Hospital of Queens.	2
New York Hospital Medical Center of Queens	3,838
Queens Hospital Center	2,142
St. John's Episcopal Hospital	848
St. John's Queens Hospital	1,225
Places other than a hospital or home*	16
Home**	48
Staten Island	
Richmond University Medical Center	2,960
Staten Island University Hospital	2,915
Places other than a hospital or home*	5
Home**	3
New York City Total	127,680

* Known Places include ambulance, taxi, airplane, etc.

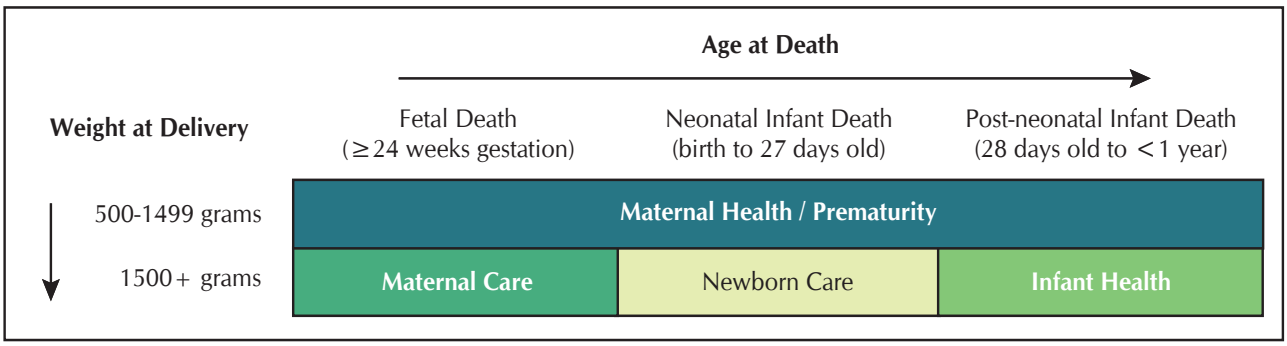
** Home births reported in this table excludes home births that are filed by a medical institution.

The institution name was changed from Our Lady of Mercy Medical Center in July 2008.

Perinatal Periods of Risk (PPOR) Approach to Understanding Fetal-infant Mortality

Perinatal Periods of Risk (PPOR) is an approach designed to provide more detailed information on fetal and infant risk than infant mortality alone. It does so by taking into account late fetal deaths and by distinguishing between neonatal and post-neonatal infant deaths. The PPOR approach uses weight at delivery and timing of death to identify the most vulnerable "periods of risk", enabling better comprehension of fetal-infant mortality rates and the various factors that contribute to those rates, and in turn, helping to design appropriately targeted interventions and prevention strategies[1].

Figure 27. Components of Perinatal Periods of Risk



The PPOR methodology identifies "periods of risk" for the mother, fetus, and infant (see Figure 27 above). Deaths within each "period" are likely to share common risk factors, and thus may be prevented by similar interventions. The PPOR defines these periods through the examination of fetal-infant mortality (excluding induced terminations). Fetal and infant deaths are classified by both age-at-death (displayed as "Fetal Death", "Neonatal Infant Death", and "Post-neonatal Infant Death" in Figure 27) and birthweight (displayed as "500-1,499 grams" and "1,500+ grams"). PPOR defines fetal death as a spontaneous termination that occurs at or after 24 weeks of gestational age, neonatal death as a death that occurs from birth through 27 days, and post-neonatal death as a death that occurs from 28 days to less than one year of age. Fetal deaths and live births are limited to those with birthweights of 500 grams or more given that those under 500 grams are less likely to be reported and to limit pregnancy events to those that are physically viable assuming no underlying congenital defect or medical condition.

Fetal deaths are included in the PPOR model for several reasons: fetal deaths and some infant deaths have similar causes; the determination of "fetal" versus "infant" death can be difficult to ascertain and is often inconsistent; factors causing death during the fetal period of risk may go undetected when relying only on the neonatal mortality or infant mortality rate[2]; and from an intervention standpoint, risks that affect late fetal deaths and early infant death may be the same and therefore may be dealt with using the same intervention. Inclusion of fetal deaths, therefore, provides a more complete description of perinatal health.

The four "Periods of Risk" are as follows:

1) Maternal Health/Prematurity period: Includes fetal and infant deaths with a weight of 500-1,499 grams. Possible causes include maternal conditions that occurred prior to conception or during early pregnancy (e.g., smoking, hypertension).
2) Maternal Care period: Includes fetal deaths with a weight of 1500 grams or greater and a gestational age of 24 weeks or greater. These deaths may have been due to issues related to prenatal and obstetric care (e.g., medical management of diabetes, early/adequate prenatal care).
3) Newborn Care period: Includes infants with a weight of 1,500 grams or greater who died in the neonatal period. Causes of death may include congenital anomalies and lack of advanced neonatal care and treatment.
4) Infant Health period: Includes infants who died in the post-neonatal period with a weight of 1,500 grams or greater. Deaths in this period may be due to Sudden Infant Death Syndrome (SIDS), infection, or injury.

The PPOR technique calculates fetal-infant mortality rates[3] overall and for each period of risk. The PPOR approach is also used to better understand the racial/ethnic disparities in fetal-infant mortality rates as well as variation by other maternal and infant characteristics (e.g., maternal age, place of residence). Additionally, the PPOR model can help researchers and program developers target interventions to those who are most vulnerable.

[1]PPOR was originally used by the World Health Organization (WHO) in developing and developed countries before it was tested in U.S. urban settings. In 1996, CityMatch (University of Nebraska), the Centers for Disease Control and Prevention, March of Dimes, and the Health Resources and Services Administration made this approach available as a tool to understand fetal-infant mortality.

[2]The total fetal-infant mortality rate used in PPOR is different than the infant mortality rate (IMR) because the IMR does not include fetal deaths and includes all infant deaths, including those whose weight at delivery was less than 500 grams.

[3]See "Rates and Ratios Defined" on page 75 for rate defintion.

Table 53. Fetal-infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk, Year, and Ethnic Group, New York City, 2004-2008

	Births & Fetal Deaths*	Maternal Health/ Prematurity		Maternal Care		Newborn Care		Infant Health		Total Fetal-infant Mortality	
Year	Number	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
2004	124,353	479	3.9	225	1.8	136	1.1	137	1.1	977	7.9
2005	122,976	451	3.7	222	1.8	122	1.0	140	1.1	935	7.6
2006	125,735	444	3.5	218	1.7	121	1.0	152	1.2	935	7.4
2007	129,227	470	3.6	199	1.5	112	0.9	153	1.2	934	7.2
2008	127,920	426	3.3	206	1.6	125	1.0	145	1.1	902	7.1
Mother's Ethnic Group, 2004-2008											
Puerto Rican	50,805	197	3.9	63	1.2	42	0.8	86	1.7	388	7.6
Other Hispanic	150,451	440	2.9	287	1.9	135	0.9	118	0.8	980	6.5
Asian and Pacific Islander	90,480	200	2.2	102	1.1	81	0.9	67	0.7	450	5.0
Non-Hispanic white	191,253	419	2.2	238	1.2	162	0.8	135	0.7	954	5.0
Non-Hispanic black	145,021	982	6.8	364	2.5	193	1.3	319	2.2	1,858	12.8
Other or unknown	2,201	32	14.5	16	7.3	3	1.4	2	0.9	53	24.1
New York City	630,211	2,270	3.6	1,070	1.7	616	1.0	727	1.2	4,683	7.4

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

When applying the PPOR approach in New York City (Table 53), a decline in the overall fetal-infant mortality rate is observed from 2004 to 2008. The highest rates for these years occurred in the Maternal Health/Prematurity period. The bottom half of Table 53 provides fetal-infant mortality by ethnic group. Non-Hispanic blacks had the highest total fetal-infant mortality rate at 12.8, followed by Puerto Ricans at 7.6, Other Hispanics at 6.5, and Non-Hispanic whites and Asian and Pacific Islanders at 5.0. For all ethnic groups, the Maternal Health/Prematurity period contributes the most to the overall fetal-infant mortality rate. Using the principles of the PPOR model, interventions to further reduce fetal and infant mortality in New York City may need to focus on improving women's health before pregnancy, including access to primary and preconception care, particularly among minority women.

Table 53a on the next page provides fetal-infant mortality by NYC borough and community district of residence and indicates that the Bronx had the highest total fetal-infant mortality rate at 9.1, followed by Brooklyn at 8.0, Queens at 6.3, Manhattan at 5.7, and Staten Island at 5.5. Community districts that have a fetal-infant mortality rate greater than 10 include Bedford Stuyvesant at 12.6, Brownsville at 12.5, Morrisania at 12.0, East New York at 11.5 , East Flatbush at 11.4, Mott Haven and Williamsbridge at 11.3, Crown Heights South at 10.4, and Crown Heights North at 10.2.

A comparison between the different "periods of risk" within a community district, as well as between community districts for a specific "period of risk", may enable interventions to be targeted to the most appropriate period of vulnerability in those districts with the most need. For example, in East New York, Brooklyn, the rate in the Maternal Health/Prematurity period is relatively high compared to the other "periods of risk" for the same area. Thus, this district may benefit most from interventions that focus on preconception health, unintended pregnancy, and specialized perinatal care. The district of Brownsville experienced the highest fetal-infant mortality rate in the Maternal Care period; thus, focusing efforts in this district on prenatal care and good medical management of diabetes, seizures, and other medical problems, may be the best way to reduce its fetal-infant mortality rate. The rate in the Infant Health period in the Midtown Business District continues to be high relative to both other districts and other periods of risk in Midtown, signaling a need to focus on interventions for infant health such as SIDS prevention, breastfeeding, health care access, and injury prevention in this district.

For further information on PPOR, see www.citymatch.org.

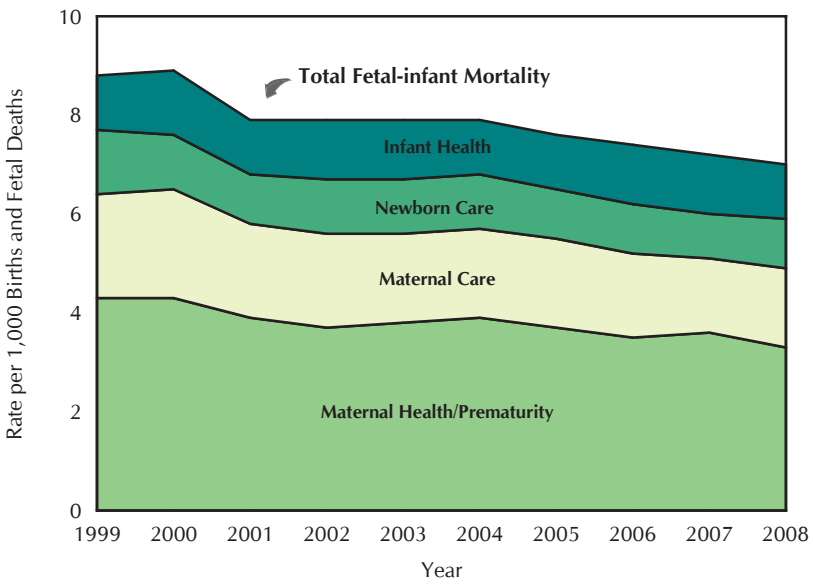


Figure 28. Fetal-infant Mortality Rates per 1,000 Births and Fetal Deaths, New York City, 1999-2008

Infant Health: Includes infants who died in the post-neonatal period with a weight of 1,500 grams or greater. Deaths in this period may be due to Sudden Infant Death Syndrome (SIDS), infection, or injury.

Newborn Care: Includes infants with a weight of 1,500 grams or greater who died in the neonatal period. Causes of death may include congenital anomalies and lack of advanced neonatal care and treatment.

Maternal Care: Includes fetal deaths with a weight of 1,500 grams or greater and a gestational age of 24 weeks or greater. These deaths may have been due to issues related to prenatal and obstetric care (e.g., medical management of diabetes, early/adequate prenatal care).

Maternal Health/Prematurity: Includes fetal and infant deaths with a weight of 500-1,499 grams. Possible causes include maternal conditions that occurred prior to conception or during early pregnancy (e.g., smoking, hypertension).

Table 53a. Fetal-infant Mortality Rate per 1,000 Births and Fetal Deaths by Perinatal Period of Risk and Community District of Residence, New York City, 2004-2008

	Births & Fetal Deaths*	Maternal Health/ Prematurity		Maternal Care		Newborn Care		Infant Health		Total Fetal-infant Mortality	
Community District of Residence	Number	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Manhattan	100,880	273	2.7	134	1.3	77	0.8	91	0.9	575	5.7
Battery Park, Tribeca (01)	3,746	6	1.6	2	0.5	1	0.3	1	0.3	10	2.7
Greenwich Village, SOHO (02)	4,400	9	2.0	3	0.7	2	0.5	3	0.7	17	3.9
Lower East Side (03)	11,537	30	2.6	14	1.2	11	1.0	8	0.7	63	5.5
Chelsea, Clinton (04)	4,449	11	2.5	3	0.7	0	0.0	1	0.2	15	3.4
Midtown Business District (05)	2,527	7	2.8	3	1.2	2	0.8	5	2.0	17	6.7
Murray Hill (06)	6,443	17	2.6	10	1.6	4	0.6	5	0.8	36	5.6
Upper West Side (07)	14,381	27	1.9	18	1.3	8	0.6	12	0.8	65	4.5
Upper East Side (08)	14,117	23	1.6	19	1.3	13	0.9	5	0.4	60	4.3
Manhattanville (09)	7,419	31	4.2	12	1.6	8	1.1	16	2.2	67	9.0
Central Harlem (10)	8,619	42	4.9	13	1.5	7	0.8	15	1.7	77	8.9
East Harlem (11)	8,891	38	4.3	17	1.9	7	0.8	10	1.1	72	8.1
Washington Heights (12)	14,343	32	2.2	20	1.4	14	1.0	10	0.7	76	5.3
Bronx	107,162	487	4.5	223	2.1	112	1.0	157	1.5	979	9.1
Mott Haven (01)	8,376	47	5.6	16	1.9	14	1.7	18	2.1	95	11.3
Hunts Point (02)	4,572	19	4.2	14	3.1	5	1.1	3	0.7	41	9.0
Morrisania (03)	6,729	34	5.1	14	2.1	12	1.8	21	3.1	81	12.0
Concourse, Highbridge (04)	14,337	59	4.1	37	2.6	14	1.0	19	1.3	129	9.0
University/Morris Heights (05)	12,637	52	4.1	30	2.4	16	1.3	21	1.7	119	9.4
East Tremont (06)	7,148	42	5.9	9	1.3	5	0.7	11	1.5	67	9.4
Fordham (07)	12,381	48	3.9	20	1.6	10	0.8	9	0.7	87	7.0
Riverdale (08)	5,765	14	2.4	7	1.2	2	0.3	8	1.4	31	5.4
Unionport, Soundview (09)	13,269	70	5.3	26	2.0	8	0.6	13	1.0	117	8.8
Throgs Neck (10)	4,891	26	5.3	10	2.0	2	0.4	5	1.0	43	8.8
Pelham Parkway (11)	7,050	25	3.5	20	2.8	6	0.9	5	0.7	56	7.9
Williamsbridge (12)	10,001	51	5.1	20	2.0	18	1.8	24	2.4	113	11.3
Brooklyn	201,826	793	3.9	350	1.7	206	1.0	264	1.3	1613	8.0
Williamsburg, Greenpoint (01)	16,038	43	2.7	21	1.3	20	1.2	16	1.0	100	6.2
Fort Greene, Brooklyn Heights (02)	6,023	24	4.0	4	0.7	5	0.8	5	0.8	38	6.3
Bedford Stuyvesant (03)	11,657	69	5.9	31	2.7	22	1.9	25	2.1	147	12.6
Bushwick (04)	10,419	45	4.3	14	1.3	14	1.3	11	1.1	84	8.1
East New York (05)	14,372	94	6.5	25	1.7	11	0.8	35	2.4	165	11.5
Park Slope (06)	7,859	25	3.2	6	0.8	7	0.9	10	1.3	48	6.1
Sunset Park (07)	14,061	31	2.2	21	1.5	9	0.6	9	0.6	70	5.0
Crown Heights North (08)	7,387	41	5.6	16	2.2	6	0.8	12	1.6	75	10.2
Crown Heights South (09)	8,546	46	5.4	19	2.2	12	1.4	12	1.4	89	10.4
Bay Ridge (10)	8,447	20	2.4	11	1.3	7	0.8	3	0.4	41	4.9
Bensonhurst (11)	11,214	25	2.2	15	1.3	13	1.2	6	0.5	59	5.3
Borough Park (12)	24,346	39	1.6	37	1.5	22	0.9	22	0.9	120	4.9
Coney Island (13)	5,919	33	5.6	6	1.0	9	1.5	7	1.2	55	9.3
Flatbush, Midwood (14)	13,831	61	4.4	31	2.2	14	1.0	20	1.4	126	9.1
Sheepshead Bay (15)	9,911	23	2.3	13	1.3	9	0.9	7	0.7	52	5.2
Brownsville (16)	7,277	36	4.9	26	3.6	9	1.2	20	2.7	91	12.5
East Flatbush (17)	11,701	70	6.0	30	2.6	9	0.8	24	2.1	133	11.4
Canarsie (18)	12,786	68	5.3	24	1.9	8	0.6	20	1.6	120	9.4
Queens	138,413	398	2.9	200	1.4	126	0.9	152	1.1	876	6.3
Astoria, Long Island City (01)	10,924	33	3.0	19	1.7	9	0.8	9	0.8	70	6.4
Sunnyside, Woodside (02)	7,519	14	1.9	11	1.5	4	0.5	6	0.8	35	4.7
Jackson Heights (03)	14,192	34	2.4	26	1.8	12	0.8	14	1.0	86	6.1
Elmhurst, Corona (04)	14,827	27	1.8	16	1.1	15	1.0	12	0.8	70	4.7
Ridgewood, Glendale (05)	10,696	20	1.9	15	1.4	11	1.0	4	0.4	50	4.7
Rego Park, Forest Hills (06)	6,283	13	2.1	10	1.6	3	0.5	4	0.6	30	4.8
Flushing (07)	13,098	21	1.6	9	0.7	11	0.8	15	1.1	56	4.3
Fresh Meadows, Briarwood (08)	8,874	26	2.9	9	1.0	10	1.1	11	1.2	56	6.3
Woodhaven (09)	10,123	28	2.8	21	2.1	15	1.5	10	1.0	74	7.3
Howard Beach (10)	7,483	30	4.0	7	0.9	1	0.1	7	0.9	45	6.0
Bayside (11)	3,500	6	1.7	3	0.9	2	0.6	3	0.9	14	4.0
Jamaica, St. Albans (12)	15,160	75	4.9	23	1.5	17	1.1	30	2.0	145	9.6
Queens Village (13)	8,917	38	4.3	19	2.1	8	0.9	14	1.6	79	8.9
The Rockaways (14)	6,775	33	4.9	12	1.8	8	1.2	12	1.8	65	9.6
Staten Island	28,817	86	3.0	27	0.9	18	0.6	28	1.0	159	5.5
Port Richmond (01)	12,748	47	3.7	11	0.9	5	0.4	19	1.5	82	6.4
Willowbrook, South Beach (02)	7,268	15	2.1	12	1.7	5	0.7	4	0.6	36	5.0
Tottenville (03)	8,691	24	2.8	4	0.5	8	0.9	5	0.6	41	4.7

* Limited to fetal deaths and live births of birthweight 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.

Table 54. Smoking-Attributable Deaths, Age-Adjusted Death Rates* and

	2003						2004						2005					
	Deaths			Age-Adjusted Rates (Per 100,000)			Deaths			Age-Adjusted Rates (Per 100,000)			Deaths			Age-Adjusted Rates (Per 100,000)		
Disease Category	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	4,915	3,605	8,520	307.3	141.0	207.1	4,751	3,385	8,136	292.2	130.6	195.2	4,772	3,324	8,096	285.8	125.7	189.9
Malignant Neoplasms																		
Lip, Oral Cavity, Pharynx	96	28	124	5.6	1.2	3.0	111	35	146	6.3	1.4	3.5	100	34	134	5.6	1.4	3.2
Esophagus	143	55	198	8.5	2.3	4.9	141	51	192	8.3	2.1	4.7	161	52	213	9.3	2.0	5.1
Stomach	71	29	100	4.4	1.2	2.5	66	28	94	4.1	1.1	2.3	75	24	99	4.5	0.9	2.3
Pancreas	81	97	178	4.9	3.9	4.4	81	103	184	4.8	4.1	4.4	83	91	174	4.8	3.6	4.1
Larynx	84	18	102	5.0	0.7	2.5	95	12	107	5.5	0.5	2.6	81	16	97	4.7	0.6	2.3
Trachea, Lung, Bronchus	1,500	998	2,498	92.3	41.6	62.0	1,483	904	2,387	90.6	37.2	58.6	1,426	904	2,330	85.3	37.1	56.5
Cervix Uteri	0	18	18	0.0	0.8	0.4	0	14	14	0.0	0.6	0.3	0	15	15	0.0	0.6	0.4
Kidney and Renal Pelvis	52	2	54	3.2	0.1	1.3	51	4	55	3.1	0.2	1.3	46	1	47	2.7	0.0	1.1
Urinary Bladder	80	27	107	5.3	1.1	2.6	85	27	112	5.5	1.0	2.7	84	29	113	5.4	1.1	2.7
Acute Myeloid Leukemia	26	8	34	1.6	0.3	0.8	24	11	35	1.5	0.5	0.9	27	9	36	1.6	0.4	0.9
Subtotal	2,133	1,280	3,413	130.8	53.2	84.4	2,137	1,189	3,326	129.7	48.7	81.3	2,083	1,175	3,258	123.9	47.7	78.6
Cardiovascular Diseases																		
Ischemic Heart Disease	1,618	1,343	2,961	101.3	50.1	70.7	1,485	1,184	2,669	90.6	43.5	62.7	1,576	1,189	2,765	93.2	42.5	63.1
Other Heart Disease	108	80	188	6.9	3.0	4.5	106	70	176	6.7	2.6	4.2	103	63	166	6.2	2.3	3.8
Cerebrovascular Disease	135	113	248	7.6	4.7	5.9	127	101	228	7.1	4.1	5.4	107	102	209	5.9	4.1	4.8
Atherosclerosis	23	6	29	1.5	0.2	0.7	13	6	19	0.9	0.2	0.4	22	5	27	1.4	0.2	0.6
Aortic Aneurysm	80	43	123	4.9	1.7	3.0	88	40	128	5.3	1.6	3.1	105	48	153	6.1	1.8	3.6
Other Arterial Disease	7	9	16	0.4	0.3	0.4	8	12	20	0.5	0.5	0.5	7	9	16	0.4	0.3	0.4
Subtotal	1,971	1,594	3,565	122.6	60.0	85.2	1,827	1,413	3,240	111.1	52.5	76.3	1,920	1,416	3,336	113.2	51.2	76.3
Respiratory Diseases																		
Pneumonia, Influenza	240	174	414	16.1	6.4	9.9	258	192	450	16.9	7.0	10.6	269	175	444	17.1	6.2	10.1
Bronchitis, Emphysema	76	59	135	4.8	2.4	3.3	68	55	123	4.3	2.1	3.0	64	52	116	3.9	1.9	2.7
Chronic Airway Obstruction	495	498	993	33.0	19.0	24.3	461	536	997	30.2	20.3	24.0	436	506	942	27.7	18.7	22.2
Subtotal	811	731	1,542	53.9	27.8	37.5	787	783	1,570	51.4	29.4	37.6	769	733	1,502	48.7	26.8	35.0

Notes:

Smoking prevalence rates are from NYC Community Health Survey and calculated by the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene.

Number does not include burn or second hand smoke deaths.

See Technical Notes: Smoking- and Alcohol-Attributable Mortality for methodology.

* 2002-2005 population data are from U.S. Census Bureau's annual estimates as of December 2006. 2006-2008 population data are from U.S. Census Bureau's annual pre-challenged estimates. See Technical Notes: Population.

Their Changes, Age 35 Years and Older, New York City, 2003-2008

2006						2007						2008						Change from 2003 to 2008			
Deaths			Age-Adjusted Rates (Per 100,000)			Deaths			Age-Adjusted Rates (Per 100,000)			Deaths			Age-Adjusted Rates (Per 100,000)			Deaths		Age-Adjusted Rates (Per 100,000)	
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Number Change	% Change	Rate Change	% Change of Rate
4,433	3,311	7,744	262.4	124.9	180.6	4,418	3,020	7,438	254.7	112.4	169.8	4,251	3,318	7,569	239.0	119.6	168.6	-951	-11.2%	-38.5	-18.6%
91	20	111	5.0	0.8	2.6	97	23	120	5.2	0.9	2.7	90	24	114	4.8	0.9	2.6	-10	-8.1%	-0.4	-13.3%
126	63	189	7.2	2.5	4.5	153	40	193	8.7	1.6	4.5	137	50	187	7.5	2.0	4.2	-11	-5.6%	-0.7	-14.3%
67	24	91	4.0	1.0	2.2	58	23	81	3.3	0.9	1.9	66	22	88	3.7	0.8	2.0	-12	-12.0%	-0.5	-20.0%
78	105	183	4.4	4.1	4.3	78	94	172	4.3	3.6	3.9	77	117	194	4.2	4.4	4.4	16	9.0%	0.0	0.0%
78	12	90	4.6	0.5	2.1	75	14	89	4.1	0.5	2.1	72	16	88	4.0	0.6	2.0	-14	-13.7%	-0.5	-20.0%
1,359	912	2,271	80.0	36.8	54.3	1,371	912	2,283	79.5	36.2	53.6	1,353	906	2,259	76.1	35.1	51.8	-239	-9.6%	-10.2	-16.5%
0	13	13	0.0	0.5	0.3	0	14	14	0.0	0.6	0.3	0	13	13	0.0	0.5	0.3	-5	-27.8%	-0.1	-25.0%
48	4	52	2.8	0.2	1.2	52	1	53	2.9	0.0	1.2	43	2	45	2.4	0.1	1.0	-9	-16.7%	-0.3	-23.1%
93	29	122	5.8	1.1	2.9	93	27	120	5.6	1.0	2.8	85	29	114	5.1	1.1	2.6	7	6.5%	0.0	0.0%
17	12	29	1.0	0.5	0.7	25	8	33	1.4	0.3	0.8	23	10	33	1.3	0.4	0.8	-1	-2.9%	0.0	0.0%
1,957	1,194	3,151	114.8	48.0	75.1	2,002	1,156	3,158	115.0	45.6	73.8	1,946	1,189	3,135	109.1	45.9	71.7	-278	-8.1%	-12.7	-15.0%
1,483	1,228	2,711	86.7	44.0	61.7	1,444	1,031	2,475	82.2	36.1	54.9	1,366	1,177	2,543	75.3	39.9	54.8	-418	-14.1%	-15.9	-22.5%
97	64	161	5.9	2.3	3.7	95	58	153	5.5	2.1	3.4	80	58	138	4.5	2.0	3.0	-50	-26.6%	-1.5	-33.3%
114	99	213	6.1	3.9	4.8	104	85	189	5.4	3.3	4.2	90	88	178	4.6	3.3	3.9	-70	-28.2%	-2.0	-33.9%
13	7	20	0.8	0.2	0.5	21	4	25	1.2	0.1	0.6	18	7	25	1.0	0.2	0.5	-4	-13.8%	-0.2	-28.6%
78	42	120	4.5	1.6	2.8	83	41	124	4.7	1.6	2.9	51	27	78	2.9	1.0	1.8	-45	-36.6%	-1.2	-40.0%
9	7	16	0.5	0.3	0.4	7	7	14	0.4	0.3	0.3	6	6	12	0.3	0.2	0.3	-4	-25.0%	-0.1	-25.0%
1,794	1,447	3,241	104.5	52.3	73.9	1,754	1,226	2,980	99.4	43.5	66.3	1,611	1,363	2,974	88.6	46.6	64.3	-591	-16.6%	-20.9	-24.5%
225	184	409	14.3	6.5	9.4	204	126	330	12.5	4.4	7.4	194	155	349	11.5	5.2	7.6	-65	-15.7%	-2.3	-23.2%
55	50	105	3.3	1.9	2.5	49	68	117	2.8	2.6	2.7	67	68	135	3.9	2.6	3.1	0	0.0%	-0.2	-6.1%
402	436	838	25.5	16.2	19.7	409	444	853	25.0	16.3	19.6	433	543	976	25.9	19.3	21.9	-17	-1.7%	-2.4	-9.9%
682	670	1,352	43.1	24.6	31.6	662	638	1,300	40.3	23.3	29.7	694	766	1,460	41.3	27.1	32.6	-82	-5.3%	-4.9	-13.1%

Table 55. Alcohol-Attributable Deaths, Age 20 Years and Older, New York City, 2003-2008

	2003			2004			2005			2006*			2007			2008		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total for All Causes	1,250	446	1,696	1,193	413	1,606	1,194	418	1,612	1,174	389	1,563	1,265	414	1,680	1,254	449	1,703
Chronic Causes																		
Acute pancreatitis	8	5	13	6	7	13	6	6	12	7	6	13	6	6	12	9	7	16
Alcohol abuse	12	2	14	39	6	45	39	7	46	57	12	69	44	13	57	59	13	72
Alcohol cardiomyopathy	11	0	11	6	1	7	4	2	6	7	0	7	5	0	5	5	0	5
Alcohol dependence syndrome	231	47	278	185	44	229	206	23	229	162	35	197	146	29	175	109	23	132
Alcohol polyneuropathy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alcohol-induced chronic pancreatitis	11	3	14	15	3	18	11	8	19	3	0	3	1	0	1	2	1	3
Alcoholic gastritis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alcoholic liver disease	262	78	340	247	80	327	235	76	311	241	65	306	258	65	323	280	97	377
Alcoholic myopathy	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Alcoholic psychosis	1	0	1	0	0	0	3	1	4	3	0	3	3	1	4	6	0	6
Breast cancer (females only)	0	11	11	0	10	10	0	10	10	0	10	10	0	8	8	0	9	9
Cholelithiases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic hepatitis	0	0	0	<1	0	<1	0	0	0	0	<1	<1	0	0	0	0	0	0
Chronic pancreatitis	0	2	2	1	0	1	2	2	3	3	1	4	5	1	6	3	1	3
Degeneration of nervous system due to alcohol	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	1	0	1
Epilepsy	2	1	3	2	3	5	2	2	4	2	2	3	2	2	4	2	1	3
Esophageal cancer	6	2	8	6	2	7	7	2	8	5	2	7	9	1	10	5	1	6
Esophageal varices	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fetal alcohol syndrome	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fetus and newborn affected by maternal use of alcohol	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastroesophageal hemorrhage	<1	1	2	0	0	0	<1	0	<1	<1	<1	1	<1	0	<1	1	0	1
Hypertension	23	25	48	23	24	47	26	25	50	26	25	51	39	21	60	24	27	52
Ischemic heart disease	16	14	30	14	12	26	14	12	27	14	11	26	20	10	30	11	11	22
Laryngeal cancer	5	1	6	5	1	6	5	1	6	5	1	5	6	1	7	4	1	4
Liver cancer	15	7	23	17	7	23	18	7	25	18	7	25	26	6	32	15	6	21
Liver cirrhosis unspecified	50	38	89	53	34	87	48	32	80	46	31	76	30	31	60	40	39	79
Low birth weight prematurity IUGR death	2	2	4	2	1	3	2	1	3	2	2	3	2	1	3	1	2	3
Oropharyngeal cancer	5	1	6	6	2	8	5	1	7	5	1	5	8	1	9	4	1	5
Portal hypertension	1	0	1	0	<1	<1	<1	<1	1	<1	0	<1	0	<1	<1	< 1	0	< 1
Prostate cancer (males only)	5	0	5	4	0	4	4	0	4	4	0	4	5	0	5	3	0	3
Psoriasis	0	0	0	0	0	0	0	0	0	0	<1	<1	<1	<1	<1	< 1	0	< 1
Spontaneous abortion (females only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stroke hemorrhagic	24	6	30	21	5	27	18	5	23	22	5	27	22	4	26	15	3	18
Stroke ischemic	3	1	4	3	1	4	3	1	4	2	1	3	4	1	5	3	1	4
Superventricular cardiac dysrthymia	1	1	2	1	1	2	1	1	2	1	1	2	1	1	3	1	1	2
Subtotal	695	250	945	655	244	899	660	225	885	636	215	851	643	202	846	602	246	849
Acute Causes																		
Air-space transport	0	0	0	0	0	0	<1	<1	1	<1	0	<1	0	0	0	0	0	0
Alcohol poisoning	5	1	6	11	1	12	10	2	12	4	2	6	6	1	7	50	8	58
Aspiration	3	2	5	2	1	3	3	1	4	3	1	4	3	2	5	2	2	4
Child maltreatment	2	3	5	2	1	3	3	1	4	2	4	5	2	2	4	2	2	4
Drowning	3	1	4	5	1	6	5	1	5	3	2	5	2	2	4	1	1	2
Excessive blood alcohol level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fall injuries	74	56	130	79	57	136	80	70	149	82	57	139	78	53	132	74	49	123
Fire injuries	18	22	41	13	15	28	18	13	31	11	11	22	16	14	29	16	11	27
Firearm injuries	<1	0	<1	<1	0	<1	0	0	0	<1	0	<1	1	0	1	0	0	0
Homicide	246	49	295	230	42	272	217	44	261	240	37	277	198	33	231	217	33	251
Hypothermia	10	1	11	2	2	4	5	2	7	3	1	4	8	3	11	4	1	5
Motor-vehicle nontraffic crashes	1	<1	1	1	0	1	1	<1	1	<1	<1	<1	1	0	1	< 1	< 1	< 1
Motor-vehicle traffic crashes	93	23	115	89	14	103	94	21	115	91	21	113	72	17	90	69	20	89
Occupational and machine injuries	2	0	2	1	<1	1	1	0	1	1	0	1	1	0	1	2	< 1	2
Other road vehicle crashes	4	<1	5	5	1	6	4	1	5	3	1	4	4	1	5	4	1	5
Poisoning (not alcohol)**	13	6	19	8	4	12	13	8	21	14	10	24	152	53	204	131	46	177
Suicide	80	31	111	83	26	110	82	28	109	79	26	105	79	30	109	80	28	108
Suicide by and exposure to alcohol	0	0	0	7	3	10	0	0	0	1	0	1	0	0	0	0	0	0
Water transport	2	<1	2	0	0	0	<1	0	<1	1	0	1	1	0	1	0	0	0
Subtotal	555	196	751	538	169	708	534	193	727	538	174	711	622	212	834	651	202	854

Note: 2003-2005 and 2007-2008 alcohol prevalence data are provided by the Bureau of Epidemiology Services. See Technical Notes: Smoking and Alcohol-Attributable Mortality for methodology.

* 2006 alcohol consumption data were not collected in New York City Community Health Survey and therefore 2006 alcohol-attributable deaths were calculated based on 2005 alcohol prevalence data.

** The big increase of attributable poisoning (not alcohol) deaths in 2007 was due to the correction of cause of death coding and a shift from manual to automated coding. See Special Section : New York City Changes from Manual to Automated Cause-of-Death Coding.

IUGR = Intrauterine growth restriction.

SPECIAL SECTION: TAKE CARE NEW YORK (TCNY) - VITAL INDICATORS

Take Care New York (TCNY) is a comprehensive health policy for New York City (NYC) originally launched in 2004. TCNY 2012 lays out the NYC Department of Health and Mental Hygiene (DOHMH) plan to ask all New Yorkers - individuals, families, health care providers, community organizations, businesses, and government - to act to help New Yorkers live longer and healthier lives. Core goals include reducing health disparities, improving access to high-quality preventive health care services, and making all NYC neighborhoods healthy and safe places. A comprehensive set of indicators, informed by DOHMH data sources, will track progress in each of the 10 TCNY 2012 priority areas. This Special Section of the 2008 Summary of Vital Statistics highlights all TCNY indicators derived from the vital (birth and death registry) data reported by the Bureau of Vital Statistics. The vital data indicators include age-adjusted death rates for smoking-related illnesses; premature major cardiovascular diseases; HIV/AIDS; suicide; accidental poisoning drug-overdose; and colon, rectum, and anus malignant neoplasms, as well as infant mortality and teen pregnancy rates. TCNY 2012 also sets specific goals to reduce health disparities in each priority area. The disparity targeted in TCNY is the absolute difference, or gap, in the rates between two groups such as racial/ethnic groups or neighborhoods. For the TCNY 2012 policy document and a complete list of indicators and targets, see http://www.nyc.gov/html/doh/downloads/pdf/tcny/tcny-2012.pdf.

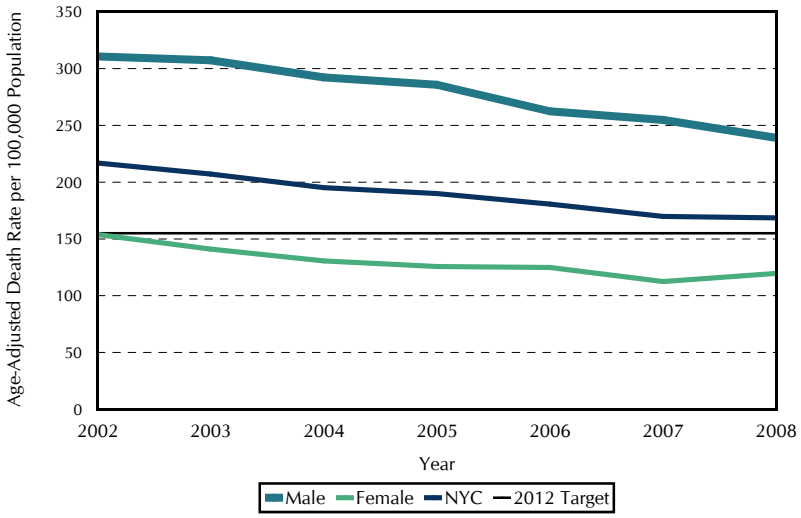
TCNY Vital Indicator and Target for Priority Area 2: Be Tobacco-Free

Smoking remains the leading cause of preventable death in NYC. Smoking greatly increases the risk of heart disease, stroke, cancer, and many other illnesses. DOHMH has aggressively supported policies and successfully advocated for regulations that seek to reduce the number of New Yorkers who smoke.

The goals for Priority Area 2 include one vital target:
To reduce the age-adjusted smoking-attributable death rate (per 100,000 population aged 35 and older) from the 2007 baseline of 169.8 to the TCNY 2012 goal of 155, a 9% decrease.

Figure SS1 shows the citywide age-adjusted smoking-attributable death rate decreased 0.7%, from 169.8 per 100,000 in 2007 to 168.6 per 100,000 in 2008. Among men the rate decreased from 254.7 to 239.0 (per 100,000). Among women, the rate increased from 112.4 to 119.6 (per 100,000).

Figure SS1. Age-Adjusted Death Rate per 100,000 Population for Smoking-Attributable Deaths (Age 35 Years and Older) by Sex, New York City, 2002-2008



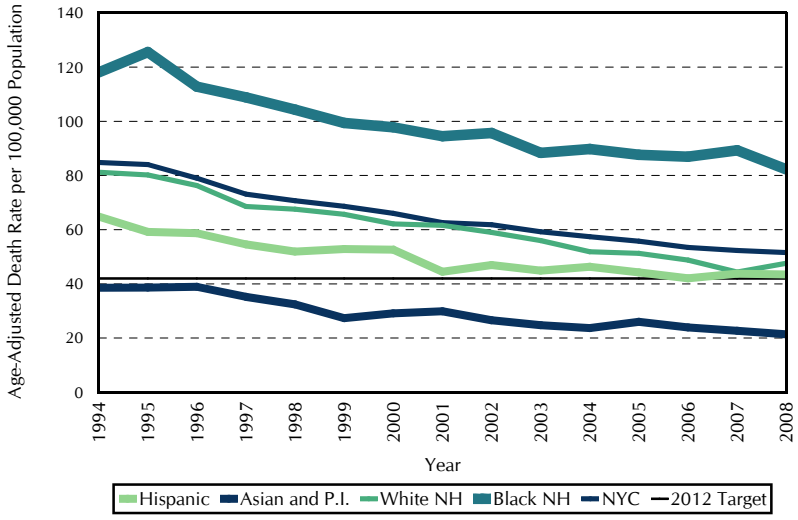
TCNY Vital Indicators and Targets for Priority Area 4: Be Heart Healthy

Major cardiovascular diseases are one of the leading causes of premature (under 65 years old) deaths in NYC. There are significant racial/ethnic disparities in the prevalence and control of major cardiovascular disease risk factors, disease, and preventable premature deaths.

The goals for Priority Area 4 include two vital targets:
1) To reduce the age-adjusted major cardiovascular disease premature death rate (per 100,000 population under 65) from the 2007 baseline of 52.3 to the TCNY 2012 target of 42, a 20% decrease; and
2) To reduce the racial/ethnic (black/white) gap between age-adjusted major cardiovascular premature death rate from the 2007 baseline of 44.9 per 100,000 to the TCNY 2012 target of 30 per 100,000.

Figure SS2 shows between 2007 and 2008 the citywide age-adjusted major cardiovascular diseases premature death rate (per 100,000) decreased 1.3% from 52.3 to 51.6. During this period the racial/ethnic gap in this rate decreased from 44.9 to 34.7 per 100,000. This reduction reflects, in part, a decreased rate among non-Hispanic blacks, from 89.3 to 82.3 (per 100,000). However, the reduced gap also reflects an increased rate among non-Hispanic whites, from 44.4 to 47.6 (per 100,000).

Figure SS2. Age-Adjusted Premature Death Rate per 100,000 Population for Major Cardiovascular by Race/Ethnicity, New York City, 1994-2008



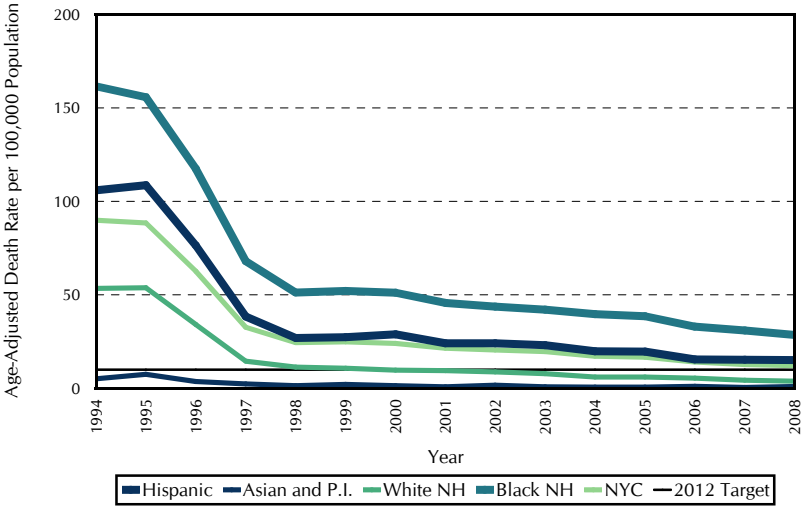
TCNY Vital Indicators and Targets for Priority Area 5: Stop the Spread of HIV and Other Sexually Transmitted Infections

HIV/AIDS-related deaths in NYC continue to decline, both in counts and age-adjusted death rates, from their peaks in the mid-1990s. Although HIV/AIDS-related death rates have declined in all racial/ethnic groups, substantial disparities exist.

The goals for Priority Area 5 include two vital targets:
1) To reduce the age-adjusted HIV/AIDS death rate (per 100,000 population) from the 2007 baseline of 12.8 to the TCNY 2012 target of 10, a 22% decrease; and
2) To reduce the racial/ethnic (black/white) gap between age-adjusted HIV/AIDS death rates from the 2007 baseline of 26.6 per 100,000 to the TCNY 2012 target of 21 per 100,000.

Figure SS3 shows the citywide age-adjusted HIV/AIDS death rate (per 100,000) decreased 5.5% from 12.8 in 2007 to 12.1 in 2008. The racial/ethnic (black/white) gap decreased from 26.6 per 100,000 in 2007 to 24.7 per 100,000 in 2008, reflecting a greater absolute decrease in the rate (per 100,000) among non-Hispanic blacks, from 30.9 in 2007 to 28.6 per 100,000 in 2008, than the absolute decrease in the rate (per 100,000) among non-Hispanic whites, from 4.3 in 2007 to 3.9 in 2008.

Figure SS3. Age-Adjusted Death Rate per 100,000 Population for HIV by Race/Ethnicity, New York City, 1994-2008



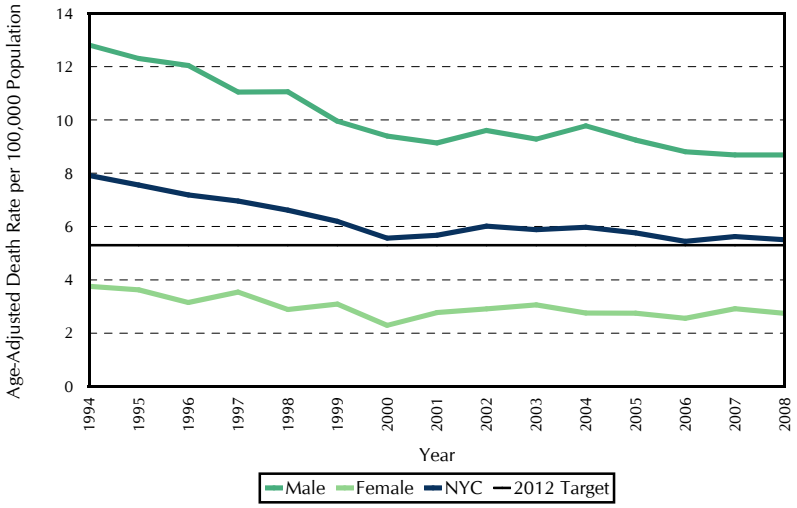
TCNY Vital Indicator and Target for Priority Area 6: Recognize and Treat Depression

Each year, major depression affects more than 8% of adult New Yorkers, yet only one in three of these individuals receives treatment. Promoting awareness, detection, and treatment of depression is an important public health approach to suicide prevention.

The goals for Priority Area 6 include one vital target:
To reduce the age-adjusted death rate (per 100,000 population) due to suicide from the 2007 baseline of 5.6 to the 2012 TCNY target of 5.3, a 5% decrease.

Figure SS4 shows the citywide age-adjusted death rates (per 100,000) due to suicide decreased 1.8%, from 5.6 in 2007 to 5.5 in 2008. Among women, the rate decreased from 2.9 per 100,000 in 2007 to 2.7 per 100,000 in 2008. Among men, the rate was unchanged, remaining at 8.7 per 100,000.

Figure SS4. Age-Adjusted Suicide Death Rate per 100,000 Population by Sex, New York City, 1994-2008



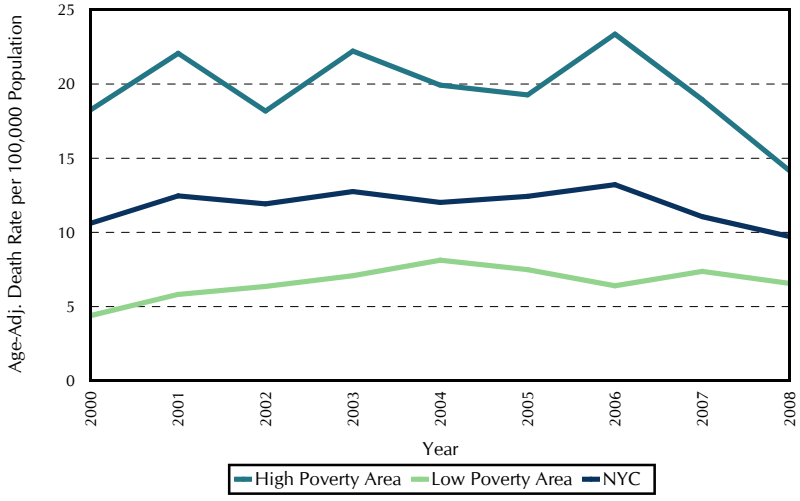
TCNY Vital Indicators for Priority Area 7: Reduce Risky Alcohol Use and Drug Dependence

Unintentional drug overdoses and alcohol-related deaths are among the leading causes of premature death for adult New Yorkers. In NYC, illicit drug use occurs across many racial and ethnic groups and at all income levels, but drug-related illness and death rates are persistently highest in NYC's poorest neighborhoods.

The goals for Priority Area 7 include two vital targets. Due to the recent change in the definition for unintentional poisoning/drug-overdose death rates , the TCNY 2012 target will be reported in subsequent TCNY 2012 progress reports. Current goals include the following:
1) To reduce the age-adjusted unintentional poisoning/drug-overdose death rate per 100,000 population; and
2) To reduce the high- vs. low-income neighborhood gap in age-adjusted unintentional poisoning/drug-overdose death rates per 100,000.
Due to the recent change in the definition for unintentional poisoning/drug-overdose death rates, the TCNY 2012 target will be reported in subsequent TCNY 2012 progress reports.

Figure SS5 shows that the citywide age-adjusted unintentional poisoning/drug-overdose death rates for the 15 and older population decreased 12.6% between 2007 and 2008, from 11.1 to 9.7 (per 100,000). The gap in the rates (per 100,000) between high- and low-poverty neighborhoods decreased from 11.6 in 2007 to 7.6 in 2008. The reduction in the gap reflects a larger absolute decrease in high-poverty neighborhoods, where the rate (per 100,000) decreased from 19 in 2007 to 14.2 in 2008, than in low-poverty neighborhoods, where the rate (per 100,000) decreased from 7.4 in 2007 to 6.6 in 2008.

Figure SS5. Age-Adjusted Death Rate per 100,000 Population for Unintentional Poisoning/Drug Overdose by Poverty Area, Age 15 and Over, New York City, 2000-2008



[1] The indicator "Unintentional Drug-related Overdose Deaths" was derived as a result of an in-depth study of drug-related death case files conducted by the Department. This definition is used for the TCNY 2012 indicator Priority Area 7, Reduce Risky Alcohol Use and Drug Dependence. Four modifications were made to the usual definition to better capture unintentional/accidental dug overdose: (i) Exclusion of the ".2" extension of the F codes, because this extension refers to a drug "dependence syndrome;" (ii) Inclusion of X43, because this code captures drugs acting on the autonomic nervous system; (iii) Inclusion of cases in which X40-X44 are contributing causes of death; and, (iv) constraining the manner of death to accidental for all deaths that meet these criteria."

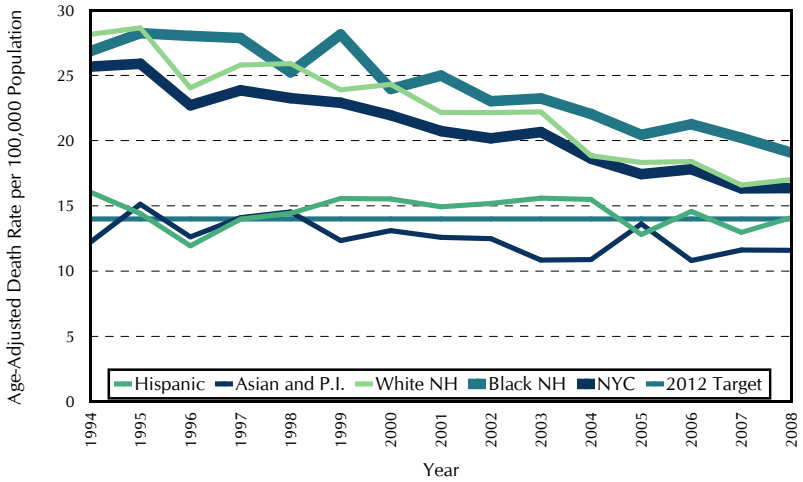
TCNY Vital Indicators and Targets for Priority Area 8: Prevent and Detect Cancer

Cancer is the second leading cause of death in NYC. Colorectal cancer is one of the most prevalent cancers among NYC residents. While important achievements in reducing colorectal screening disparities have been realized in NYC, significant racial/ethnic disparities in colorectal cancer death rates persist.

The goals for Priority Area 8 include two vital targets:
1) To reduce the age-adjusted colorectal cancer death rate (per 100,000 population) from the 2007 baseline of 16.3 to the 2012 TCNY target of 14, a 14% decrease; and
2) To reduce the racial/ethnic (black/white) gap in age-adjusted colorectal cancer death rates (per 100,000 population) from the 2007 baseline of 3.6 to the TCNY 2012 target of 2.

Figure SS6 shows citywide age-adjusted colorectal cancer death rates (per 100,000 population) remained constant at 16.3 (<0.1% increase) between 2007 and 2008. The racial/ethic gap in this rate (per 100,000) decreased from 3.6 in 2007 to 2.1 in 2008. The reduced gap reflects, in part, a decreased rate (per 100,000) among non-Hispanic blacks, from 20.2 in 2007 to 19.1 to 2008. However, the reduction also reflects an increased rate (per 100,000) among non-Hispanic whites, from 16.6 in 2007 to 17.0 in 2008.

Figure SS6. Age-Adjusted Colorectal Death Rate per 100,000 Population by Race/Ethnicity, New York City, 1994-2008



TCNY Vital Indicator and Targets for Priority Area 9: Raise Healthy Children

Children's health is affected by complex factors and conditions. Two of the most significant racial and ethnic health disparities in NYC are the infant mortality and teen pregnancy rates.

The goals in this area include four vital targets, two focused on infant mortality and two on teen pregnancy:
1) To reduce the citywide infant mortality rate (per 1,000 births) from the 2007 baseline of 5.4 to the TCNY 2012 target of 5, a 7% decrease;
2) To reduce the racial/ethnic (black/white) gap in the infant mortality rate (per 10,000 births) due to Injuries and SIDS from the 2007 baseline of 10.5 to the TCNY 2012 target of 9;
3) To reduce the teen pregnancy rate (per 1000 females age 15-19) from the 2007 baseline of 83.2 to the TCNY 2012 target of 70, a 16% decrease; and
4) To reduce the racial/ethnic (black/white) gap in teen pregnancy rates (per 1,000 females age 15-19) from the 2007 baseline of 101.3 to the TCNY 2012 target of 82.

Figure SS7 shows the citywide infant mortality rate (per 1,000 births) remained very close to its 2007 historical low with a statistically insignificant 1.9% increase from 5.4 to 5.5 between 2007 and 2008.

Figure SS7. Infant Mortality Rate per 1,000 Live Births, New York City, 1994-2008

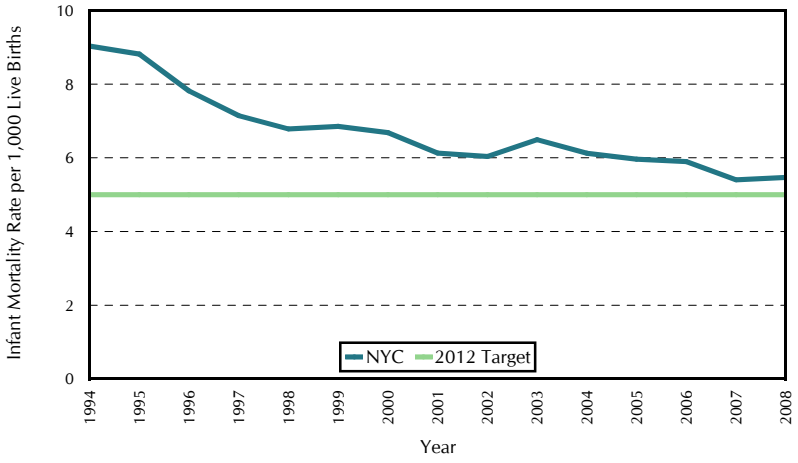


Figure SS8 shows that the racial/ethnic gap in the rates of infant mortality due to injuries and SIDS per 10,000 births increased from 10.5 per 10,000 in 2007 to 13.1 per 10,000 in 2008. Among non-Hispanic blacks the rate (per 10,000) increased from 13.3 to 16.1 between 2007 and 2008. Among non-Hispanic whites, the rate (per 10,000) increased from 2.8 to 3.1 between 2007 and 2008.

Figure SS8. Infant Mortality Rate per 10,000 Live Births due to Injuries and SIDS by Race/Ethnicity, New York City, 1999-2008

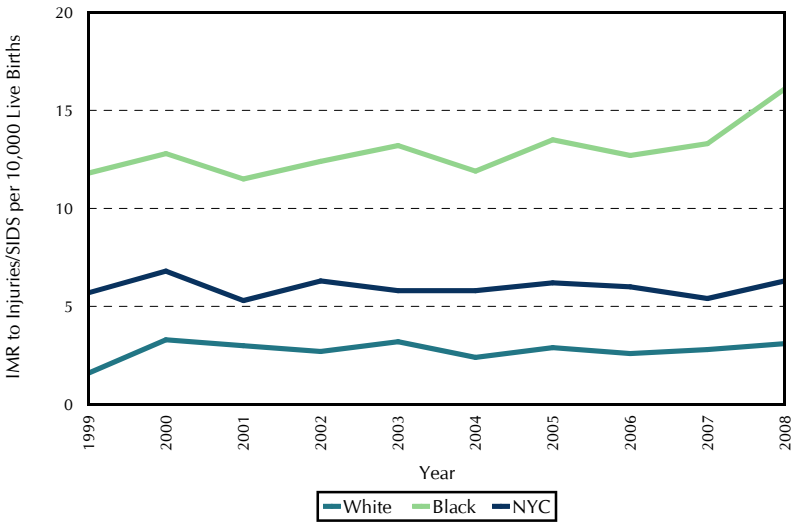
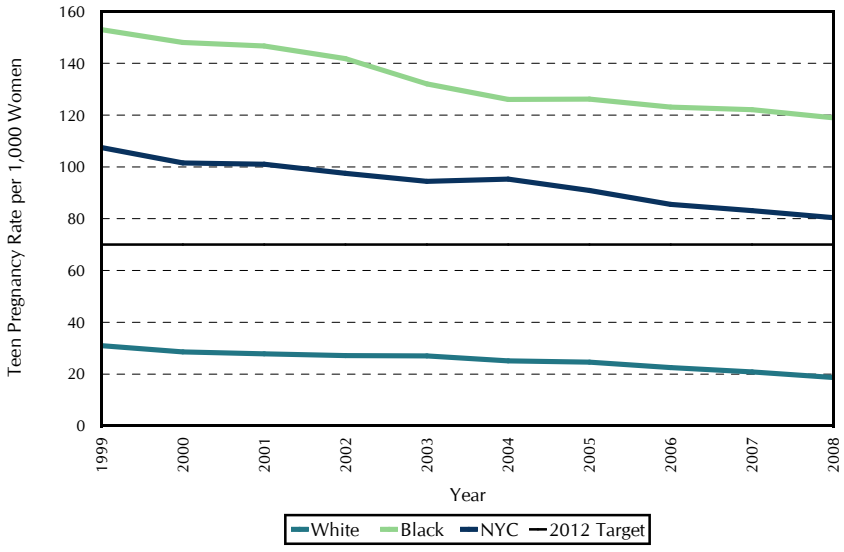


Figure SS9 shows that the teen pregnancy rates (per 1,000 females aged 15 through 19 years) decreased 3.4%, from 83.2 to 80.4, between 2007 and 2008. The racial/ethnic gap in teen pregnancy rate (per 1,000) decreased from 101.3 in 2007 to 100.2 in 2008. Among non-Hispanic blacks, the rate (per 1,000) decreased 2.6% from 122.1 in 2007 to 118.9 in 2008. Among non-Hispanic whites, the rate (per 1,000) decreased 10.1%, from 20.8 in 2007 to 18.7 in 2008.

Figure SS9. Teen Pregnancy Rate per 1,000 Women by Race/Ethnicity, New York City Residents, 1999-2008



Rates and Ratios Defined

The numerators of the rates in these tables are events occurring in New York City and reported during the year, unless otherwise specified. The denominator is the resident population figure, including all ages and both sexes, unless otherwise specified.

Live Birth Rate - The number of live births per 1,000 population.

$$\frac{\text{Live Births}}{\text{Population}} \times 1{,}000$$

Marriage Rate - The number of marriages per 1,000 population.

$$\frac{\text{Marriages}}{\text{Population}} \times 1{,}000$$

Infant Mortality Rate - The number of infant (under one year of age) deaths per 1,000 live births.

Neonatal Mortality Rate - The number of neonatal (under 28 days) deaths per 1,000 live births.

Post-neonatal Mortality Rate - The number of post-neonatal (28 days to under one year of age) deaths per 1,000 live births.

$$\frac{\text{Infant Deaths}}{\text{Live Births}} \times 1{,}000$$

Fetal Death Ratio - The number of fetal deaths of 28 weeks gestation and over per 1,000 live births.

$$\frac{\text{Fetal Deaths 28 Weeks and Over}}{\text{Live Births}} \times 1{,}000$$

Fertility Rate - Live births per 1,000 women aged 15-44 years.

$$\frac{\text{Live Births}}{\text{Female Population Aged 15-44}} \times 1{,}000$$

Perinatal Mortality Ratio - The number of fetal deaths of 28 weeks gestation and greater plus the number of early neonatal (under seven days) deaths per 1,000 fetal deaths of 28 weeks gestation and greater plus live births.

$$\frac{(\text{Fetal Deaths 28 Weeks and Over} + \text{Infant Deaths Under 7 Days})}{\text{Fetal Deaths 28 Weeks and Over} + \text{Live Births}} \times 1{,}000$$

Death Rate, all causes - The number of deaths per 1,000 population.

$$\frac{\text{Deaths All Causes}}{\text{Population}} \times 1{,}000$$

Death Rate, specified causes The number of deaths due to a specified cause per 100,000 population.

Death Rate, age and sex specific The number of deaths of persons of specified age and sex per 1,000 population of the specified age and sex.

Death Rate, age, sex and race adjusted - The number of deaths per 100,000 standard population. Age, sex and race specific death rates are applied to a standard population eliminating the effect of differences in population composition, and allowing comparisons over time or between geographic areas.

Maternal Mortality Ratio - The number of deaths due to complications of pregnancy, childbirth and the puerperium occurring within 42 days of delivery per 100,000 live births.

Fetal-infant Mortality Rate The number of fetal deaths of 24 weeks gestation and greater plus infant deaths per 1,000 live births and fetal deaths, excluding weight at delivery less than 500 grams.

$$\frac{(\text{Fetal Deaths 24 Weeks and Over} + \text{Infant Deaths})}{(\text{Fetal Deaths 24 Weeks and Over} + \text{Live Births})} \times 1{,}000$$

DATA COLLECTION

Counts of births, deaths, and induced and spontaneous terminations of pregnancy are based on certificates filed with the Office of Vital Records, New York City Department of Health and Mental Hygiene (DOHMH). Birth certificates are created and filed using the Electronic Birth Registration System (EBRS). Death certificates are processed on paper or via the Electronic Death Registration System (EDRS). All induced and spontaneous terminations, regardless of gestational age or weight, are required to be reported and are filed on paper. For more specific information about Births, Deaths, and Induced and Spontaneous Terminations of Pregnancy data items, please see those sections below.

VITAL EVENT COUNTS

• Vital event data are based on year of occurrence in New York City to both residents and non-residents. Few, if any, birth and death events are registered after the files are closed (typically closure occurs between March and May annually); these events are excluded from this report. Due to a relatively large volume of late Induced and Spontaneous Terminations of Pregnancy reporting, certificates received after the respective annual file is closed will continue to be added to the following year's data. As a result, the 2008 spontaneous termination of pregnancy reports include 293 certificates from 2007 or earlier; the 2008 induced termination of pregnancy reports include 453 certificates from 2007 or earlier. Tables that include a geographic breakdown for residents show non-resident and residence-unknown data separately. Where there is no geographic breakdown, all New York City occurrences reported are included.

• 2008 events to NYC residents occurring outside of NYC are not included in this report. Tables 22, 23, 25a, 25b, and Figure 15 rely on measures utilizing prior year's data that include deaths to NYC residents occurring outside of NYC. These data are provided by the National Center for Health Statistics (NCHS). See third bullet under Life Expectancy below.

•For public health purposes, demographic and medical information on vital event certificates is coded in general agreement with standards developed by NCHS.

•Because New York City law prohibits recording mother's marital status on the birth certificate, it is calculated using other information. (See Mother's Marital Status below.)

•The number of marriages shown in Table 1 and in Table 49 is the number of marriage licenses issued by the Office of the City Clerk.

DEMOGRAPHICS

POPULATION

The total New York City population was 8,008,278 in 2000 by decennial enumeration, and was 8,363,710 in 2008 by post-censal estimation. An example of the effect of using different measures of New York City population is the citywide birth rate; it was 15.3 per 1,000 population using the 2008 population estimate, and 15.9 using the 2000 census population as the denominator.

Citywide population estimates and vital rates – 2008 Summary

Beginning in the 2008 Summary, all tables requiring 2001-2008 city-wide population data except Table 23 use their respective years city-wide pre-challenged US Census Bureau's population estimates. Prior to 2008, some tables use the Census 2000 estimates while others use post-censal estimates. Citywide rates are affected, and may differ across tables. The population figures for census years 1960, 1970, 1980, 1990, and 2000 are census counts; for intercensal counts through 1989, straight-line interpolations are used, while the interpolation from 1990 to 2000 uses an exponential formula, which assumes that the growth rate was the same throughout the decade: $pop(t_1)/pop(t_0) = e^{rt}$ (where r is a constant growth rate and t is the time interval).

Smaller geographical area population estimates – 2008 Summary

•Prior to 2008, tables with breakdowns smaller than borough use 2000 census data only, as do those with life expectancy calculations that require population totals by single-year age groups. In 2008 Summary, 2008 and prior year Community District population estimates were produced by the NYC Department of Health and Mental Hygiene, based on the US Census Bureau Population Estimate Program and housing unit data obtained from the NYC Department of City Planning (DCP). For each year, the vintage (unchallenged) estimates released by the US Census Bureau are used to obtain totals for the city by borough by Community District (CD) for 22 age groups, sex and race/ethnicity (see *Effect of Census Bureau's Modified Race File)*. A "housing unit method" is then used to update the previous year's estimates by allocating population to CDs. The housing unit method takes the estimated number of households for a given area and multiplies it by an estimate of the population per household (PPH). In the intercensal context, the housing unit growth as measured by housing permit data determines the location of growth. Because these estimates are calibrated to equal U.S. Census borough-specific population totals, the borough PPH is fixed. New population estimates are then derived from by use of the iterative proportional fitting procedure (IPFP) implemented in SAS (a statistical software). While vacancy rates, housing unit loss rates, percentage of permits actually constructed and time to completion of construction are all important to the validity of housing unit data, they were assumed to be consistent at the borough level and thus have no affect on the allocation of growth. However, the method is sensitive to the quality of the housing permit data, which misses residential conversions to multiple units. In addition, demographic characteristics were allocated by inheriting those at the location of growth. Therefore, this approach does not capture demographic change at the neighborhood level. This approach also does not capture change in the population generated by migration.

•Population estimates for Health Center District (HCD) were not computed in time for the release of this report. As a result, Health Center District tables present rates are either replaced (Table 7) or do not present rates (Table 34).

Effect of Census Bureau's Modified Race File (Census 2000 Modified Race Data [MR (31)-CO.txt]). In 2002, the Census Bureau produced a modified race file. In 2002-2005 Annual Summaries, Table 2 was changed by using modified race population data. The major effect was a reduction of 65% in the total for "Other and Multiple Race" and increases of 3%, 3%, and 6% for "Non-Hispanic White", "Non-Hispanic Black", and "Asian and Pacific Islander", respectively. There was no change for Hispanic population.

Variations in population estimates by Vital Statistics Summary years - Population data in the 2000 -2004 Annual Summaries are based on data provided by the New York City Department of City Planning (DCP) from the U. S. Census enumeration as of April 1, 2000. The 2005-2007 Annual Summaries use pre-challenged post-censal estimates for current year and post-challenged estimates for earlier years in addition to Census 2000 data. The U.S. Census Bureau uses its modified race file for the Census 2000, described above, as the base for its post-censal estimates. These estimates, calculated for 2001-2008, were only available for broad measures such as county (borough), 5-year age groups, ethnic group and sex. They are not available for smaller geographic units, such as Health Center and Community Districts and single-year age groups. In 2005-2007 Annual Summaries, 2000 census data were used in Tables 7, 8, 22, 23, 28a, 34, and 36, and Figure 20; 2001-2007 estimates are used in Tables 1, 3 and 25, Figures 6a, 6b and 7.

As a result, 2001-2006 estimates and rates resulting from estimates found in earlier versions of the summary may differ slightly

from those found in the 2008 Summary Table 1.

RACE, ANCESTRY, ETHNIC GROUP, AND BIRTHPLACE

Race in the 2000 Census - The 2000 Census permitted respondents to describe themselves and household members as being of more than one race, selecting from six race categories: White, Black, American Indian and Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and some other race. These categories yield 63 possible combinations. Respondents were also asked if they were of Hispanic origin. The resulting responses could be organized into 64 groups, referred to by the Department of City Planning (DCP) as "mutually exclusive race/Hispanic categories." DCP combined these groups into seven categories: Hispanic origin, non-Hispanic white, non-Hispanic black, non-Hispanic Asian or Pacific Islander, non-Hispanic American Indian and Alaska Native, non-Hispanic of some other race, and non-Hispanic of two or more races. These categories are equivalent to the vital statistics variable "ethnic group" (see below), except for the group of two or more races. Multiple-race data are available for death data beginning 2003 and birth data beginning 2008. In Table 2, population data are presented using DCP terminology, "mutually exclusive race and Hispanic origin", with the last three categories combined; the death data presented in Table 3 use the term "ethnic group." See Race, Ancestry, and Ethnic Groupings.

Multiple Race - Beginning January 1, 2003 and January 1, 2008, the New York City death certificate and birth certificate respectively expanded the number of decedent race categories, allowing multiple races to be selected. This change was implemented based on changes to the U.S. 2000 Census and to comply with NCHS recommended changes in the U.S. Standard Certificates. For death data, the change resulted in an increase in Hispanic, Asian and Pacific Islander ethnicities, while non-Hispanic white and non-Hispanic black ethnicities declined. The number of unknown ethnicities also increased. For birth, the impact of this change combined with the introduction of the Electronic Birth Registration System (EBRS) resulted in a high proportion of missing data. Please see the BIRTH section of the technical notes for more detailed information. In general, care should be taken when comparing 2003 or later race and ethnicity death data and 2008 or later race and ethnicity birth data with that from previous years.

Race, Ancestry, and Ethnic Groupings - Race and ancestry are separate items on the certificates, reported usually by a parent on the birth certificate, and by a relative of the decedent through the funeral director on the death certificate. Responses are coded in general conformance to NCHS rules.

- In 1992, five additional codes for Asian and Pacific Islander races were added, following their introduction by NCHS: Asian Indian, Guamanian, Korean, Samoan, and Vietnamese. Codes already in use included Chinese, Filipino, Hawaiian, Japanese, and other.
- The ordered selection rules used to define ethnic group first assigns Puerto Rican or other Hispanic ethnicities based on ancestry, regardless of race. Then, those of other or unknown ancestries are classified by race as Asian, non-Hispanic white, non-Hispanic black, other or unknown.
- Ancestry is defined by NCHS 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. In New York City, enough certificates with ancestry reported as Jewish or Hebrew are received to warrant inclusion in these tables, notwithstanding the religious meaning of the terms. An increase in 1999 of about 2,000 in the number of mothers reporting Hebrew or Jewish ancestry resulted from quality assurance discussions with several hospitals that included clarification of the meaning of ancestry. These hospitals replaced the general term American with individual information provided by the patients.
- Persons whose race is black and whose ancestry is American are classified as being of African-American ancestry.

Race/Ethnicity in Infant Mortality – Ethnic group is defined by mother's information on the infant's birth certificate. However, in the absence of a matching birth certificate for an infant death, the information on the death certificate is used to assign a maternal ethnic group (Table 42a, c, 43)

GEOGRAPHICAL UNITS

PLACE OF DEATH

In reporting Place of Death in Table 9, the term hospital includes residential units, hospices and other special facilities within the hospital. Nursing home includes only sites licensed as Extended Care Facilities by the State of New York. 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.

PLACE OF BIRTH

Home Births in Tables 32 and 33 includes all events in which the Type of Place was checked as Home – regardless of whether the certificate was filed through a hospital or not. Home Births in Table 52 only includes those Home births that were not filed by an institution; these are typically filed by who ever attended to the birth at home. Prior to 1996, all reports of home births included only events filed outside the hospital (similar to Table 52).

BOROUGH OF RESIDENCE

Borough of residence and other geographic classifications are based on the usual residence reported on the certificate. Since 1985, assignment to geographic areas smaller than borough, such as health center district and community district, is made through the Geosupport Program, developed and maintained by the Department of City Planning.

COMMUNITY DISTRICTS (CD) AND HEALTH CENTER DISTRICTS (HCD)

In this 2008 Summary, CD rates are presented and HCD rates are not; HCD population estimates are not yet available (Please see Technical Notes: DEMOGRAPHICS - POPULATION for more specific information concerning smaller geographic area population estimates).

Community Districts (CD) - There are 59 community districts, referred to by their borough and sequence numbers. Names were included beginning with the 2003 Annual Summary. The fifty-nine community districts were established by City Charter in 1969 for the delivery of city services. Population figures for these districts are compiled by the DCP from census tract and census block data. Borough boundaries are not always followed. As a result, the sum of the community district populations in each borough does not equal the borough population or the citywide population. A description of the construction of community district geography can be found in the Department of City Planning, Demographic Profiles, DCP # 92-32-Revised, pp. 293-297.

Health Center District (HCD)

There are 30 health center districts, which have neighborhood names. The thirty health center districts were established in 1927 by a joint commission (including the Health Department) as the administrative units for carrying out public health services. The HCD was formed out of the health area, which is based on census tract, and originally numbered 270. The health area was designed

to be a unit for public health data collection. While the configuration of health areas changes with each census, the configuration for HCD does not. Vital statistics by HCD and health area have been published by the Office of Vital Statistics since 1929.
Note, Table 34 does not report rates by HCD due to the unavailability of estimated population for Health Center District (See DEMOGRAPHICS- Smaller geographical area population estimates – 2008 Summary.

It is important to note that there is no relationship between HCD and CD, and therefore no translation from one system to the other. The most obvious example is that the northernmost Manhattan neighborhood of Marble Hill is in Manhattan under the health center district organization and in the Bronx under the community district system. As a result, the numbers of births and deaths to Manhattan and Bronx residents differ between health center district tables and community district tables. Similarly, the population of Rikers Island, site of New York City Department of Correction facilities, is in the Bronx for health center district purposes and in Queens in the community district system. The small number of vital events to residents has been assigned to Queens in both systems. Care must be taken when comparing counts of births and deaths using HCD and CD.

The number of districts in each system, by borough,

Borough	HCD	CD
Manhattan	7	12
Bronx	6	12
Brooklyn	10	18
Queens	6	14
Staten Island	1	3
TOTAL	30	59

DEATHS

CAUSE OF DEATH REPORTING

The cause of death on the death certificate is completed by a physician or medical examiner, who is also a physician. The physician is required to provide the complete sequence of events and/or medical conditions leading to the death, including: the *immediate cause* – the specific condition that directly preceded the death; the *intermediate cause(s)* – the significant condition(s) that preceded and gave rise to the immediate cause of death; and the *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, please see: http://www.nyc.gov/html/doh/media/video/icdr/index.html or http://www.nyc.gov/html/doh/downloads/pdf/chi/chi27-9.pdf). The reported conditions are all coded using a National Center for Health Statistics administered software package (SuperMICAR) programmed to administer the International Statistical Classification of Diseases (ICD) rules for classifying conditions. A single underlying cause based on the plausible chain of events leading to death is also selected. These rules are published by the World Health Organization (WHO). Reporting aggregate counts and rates of these standardized underlying cause codes allows for comparisons on a national and international scale.

CAUSE OF DEATH

•The information presented as cause of death is the underlying cause of death, selected using rules issued by NCHS, and codes of the International Classification of Diseases (ICD) 10th revision, issued by the World Health Organization. ICD-10 was implemented in the United States on January 1, 1999. Earlier ICD revisions and the year their codes were implemented are - the Fifth, 1939; Sixth, 1949; Seventh, 1959; Eighth, 1969; and Ninth, 1979. Long term trends in causes of death should be interpreted with caution because of possible changes in causes and groupings with each revision.
•For Table 4, the NCHS List of 113 Selected Causes of Death is the base list for tabulating deaths. For Table 44, the NCHS List of 130 Selected Causes of Infant Death is the base list for tabulation infant deaths. From these lists, some causes are dropped due to small numbers or added due to their importance in New York City.

Comparability Ratio -Comparability ratios indicated in Tables 4 and 44 are used to measure the discontinuities in trend data for the cause of death when a new version of the ICD is implemented. They are presented in this Summary in Tables 4, 25, and 44 to compare the changes in cause specific deaths due to changes from ICD 9 to ICD10 coding system. In the case of ICD-10, the comparability ratio for cause "i" is defined as:

Deaths from cause "i" under ICD-10
Deaths from cause "i" under ICD-9

Therefore, comparability ratios measure the net effect of ICD-10 by cause of death. Using more than 2.3 million 1996 U.S. mortality records, NCHS calculated and presented comparability ratios for selected causes of death by NCHS. Due to complications of coding and calculation, the procedure was split into two phases: preliminary and final. The preliminary comparability ratios were based on about 1.8 million death records and used in 1999-2002 Summaries of Vital Statistics. Finalized comparability ratios are updated in Tables 4, 25, and 44 of the Summaries of Vital Statistics 2003 through present. A detailed description of the comparability ratio (ICD-9 to ICD-10) can be found on the NCHS website at the following link: http://www.cdc.gov/nchs/data/nvsr/nvsr49/ nvsr49_02.pdf.

HIV and AIDS Mortality - In ICD-10, deaths due to HIV disease are not divided into AIDS deaths and deaths due to other HIV infections, but are characterized by the resulting disease or condition. HIV disease deaths (ICD-10 codes B20-B24) are shown in Tables 4, 5, 6, 7, 8, and 20 and Figures 13 and 14.
•From 1983 through 1986, only AIDS was a recognized cause of death and was coded as 279.1. In 1987, NCHS introduced code 042 for AIDS and 043-044 for other HIV disease deaths, and they were reported this way in Table 3 through 1998. Beginning in 1999, Table 25 includes HIV disease, B20-B24.
•A fuller discussion of the history of HIV coding can be found in the 1997 and 1998 Annual Summaries.
•The incidence data in Table 48 are provided by the New York City HIV Epidemiology and Field Service Program. Their active surveillance system identifies persons diagnosed with AIDS, a reportable disease in New York State.

Drug Related Deaths. Two definitions for drug-related deaths, excluding homicides, suicides, and undetermined deaths, are used by DOHMH and presented in this report.
•"Mental and Behavioral Disorders due to Use of or Accidental Poisoning by Psychoactive Substance excluding Alcohol and Tobacco", one definition, combines underlying chronic drug-use ICD codes (F11-F16, F18-F19) and accidental drug-poisoning ICD-10 codes (X40-X42, and X44). This definition is found in Tables 4, 5, 5a, 6, 6a, 7, 8, and 24 in this report. "Accidental poisoning by psychoactive substances, excluding alcohol and tobacco", the "accidental" subset of underlying codes (X40-X42, and X44) are found in Tables 4 and 14; the "Mental and Behavioral Disorders due to the Use of Psychoactive Substance", the "chronic" subset of underlying codes F11-F16, F18-F19) is found in Table 4.
•"Unintentional Drug-related Overdose Deaths". This definition is presented as a TCNY 2012 indicator in Priority Area 7, Reduce Risky Alcohol Use and Drug Dependence, in the Special Section of this report, Figure SS5. Four modifications were made to the usual definition to better capture unintentional/accidental drug overdose: (i) Exclusion of the ".2" extension of the F codes, because this extension refers to a drug "dependence syndrome;" (ii) Inclusion of X43, because this code captures drugs acting on the autonomic nervous system; (iii) Inclusion of cases in which X40-X44 are

contributing causes of death; and, (iv) constraining the manner of death to accidental for all deaths that meet these criteria. This second definition was derived as a result of an in-depth study conducted by the Department examining drug-related death case files, and more accurately specifies unintentional/accidental drug-related overdose deaths.

•Please see the 2007 Vital Statistics Summary Special Section, which presents information on the impact of manual vs. automated ICD coding on these two subgroups of NYC's drug-related deaths. Additional discussion on drug death coding appears in the Annual Summaries of 1989 through 1998.

Deaths due to alcohol are reported separately. Deaths due to tobacco are reported under "All Other Natural Causes". See Smoking and Alcohol-attributable Mortality below.

•The ranking of deaths due to accidents, excluding drug poisoning deaths, appears in Tables 5 and 6.

Maternal Death and Maternal Mortality- In ICD-10, the chapter "Pregnancy, childbirth, and the puerperium" (codes O00-O99) includes codes for deaths occurring more than 42 days after the termination of the pregnancy, which did not exist in ICD-9. However, the World Health Organization's definition of "maternal mortality", used by this Summary, does not include these later deaths: included are "deaths 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 ..." This includes ICD-10 codes O00-O95, O98-O99 and A34, obstetrical tetanus. Note also that the denominator of the maternal mortality rate is live births. Since the 2000 Annual Summary, new lines have been inserted in Table 4 and Table 25 to distinguish between all causes of death due to pregnancy, childbirth and puerperium and the smaller group of "maternal" deaths. In Table 4, Deaths by Cause, all deaths due to pregnancy, childbirth and the puerperium are shown (and are rankable) followed by "maternal" deaths. In Table 25, Deaths and Crude Death Rates, historical data from 1901 through 2002 are correctly relabeled "maternal causes" and a new category based on the ICD-10 - pregnancy, childbirth and the puerperium - is shown beginning in 1999. Table 46, Live Births, only includes "maternal" deaths. An error in 1999 data in Table 46 was corrected in the 2000 Annual Summary.

External Causes of Death - External causes of death include accidents, intentional self-harm (suicide), assault (homicide), legal intervention, events of undetermined intent, operations of war and their sequelae, and complications of medical and surgical care. Beginning in 1999, these causes are shown separately in Table 4.

•All death certificates for external causes are reported by the Office of Chief Medical Examiner. If there are deaths for which a cause has not been determined by the time the statistical file is closed, they are shown separately as 'pending final determination' in Table 4; some of these pending deaths will later be determined to be due to natural causes.

• The number of deaths classified as events of undetermined intent should be considered in analysis of deaths due to external causes.

Homicide - A homicide is 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 DOHMH Vital Statistics for a number of reasons, described below. However, reported trends are similar.

• The NYPD reports homicides as counts of Murder and Non-Negligent Manslaughter using the Federal Bureau of Investigation's Uniform Crime Reporting System (UCR) rules and procedures. The count includes deaths determined to be both criminal and satisfying the UCR guidelines. Some homicides are judged to be justifiable by the NYPD and are reported separately to the FBI. These homicides include justifiable events involving law enforcement officers and/or civilians. Vital Statistics reports a death as a homicide using the ICD-10 system. All homicides are medical examiner (ME) cases. Legal intervention is defined in the ICD-10 as "including injuries inflicted by police or other law-enforcing agents...in the course of arresting or attempting to arrest... and other legal action." Since 2003, the number of deaths from legal intervention has been reported separately in Tables 4 and 16. They are excluded in the homicide counts of Tables 7, 8, and 21.

• NYPD Murder and Non-Negligent Manslaughter statistics count all murders that are known to have been committed in NYC regardless of where the death may have occurred. DOHMH Vital Statistics reports all homicide deaths that occur in NYC regardless of where the crime occurred.

• NYPD, in their annual count, 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 time period will be counted in the year that the determination is made. DOHMH Vital Statistics reports homicide by the date of the death. DOHMH Vital Statistics closes its count of deaths approximately 10 months after the year end and includes all late homicide determinations through that period from the Medical Examiner.

• Sometimes death resulting from a crime occurs many years after the crime was committed. Other times, deaths that occur in the past may need to be re-evaluated by the ME. In either situation, the death may be determined by the ME to be a homicide. The NYPD will evaluate the case and may classify or re-classify the death as a criminal homicide. If classified as a criminal homicide, NYPD will count the death in the year that the determination is made. Vital Statistics will report the homicide by the date of death. However, in the situation that the reclassification of the death occurs after the Vital Statistics files have closed, this death will be recorded as a homicide on the certificate of death but the reported homicides for the year of death will not change nor will this death show up in the year in which the determination was made.

Accident - Complications of medical and surgical care were included with accidents in ICD-9, but are not in ICD-10 and are therefore shown separately since 1999.

•The site of accidents, home and public place, has been dropped since 1999 because reporting was not reliable.

•Motor vehicle accident deaths or other traffic fatalities reported by Vital Statistics sometimes do not agree with the numbers released by the Department of Transportation/New York City Police Department (DOT/NYPD). There are two major differences in the methodology used to calculate the number of traffic fatalities. First, DOT/NYPD does not include deaths resulting from illness while operating a motor vehicle in their traffic fatality count, while the Annual Summary does. Second, in cases where serious injury suffered during a motor vehicle accident results in subsequent death (e.g., one month later), the fatality will be counted by DOT/NYPD for the month in which the accident occurred. However, the Office of Vital Statistics always reports deaths by date of death.

World Trade Center Deaths – Starting in 2008, all late effect WTC deaths occurring post 2001 will be reported in the year of the confirmed death report and listed in the corresponding Vital Statistics Summary report Table 4 under Assault (homicide): ICD-10 Code U02. The current total, based on death certificates filed through December 24, 2009, is 2,752.

In the 2001 Annual Summary, 2,740 World Trade Center (WTC) deaths were reported as preliminary, based on death certificates filed through February 1, 2003 with the Office of Vital Records. These deaths were generally not included in the Summary tables and figures due to the effect this large figure would have on year-to-year trends. In 2002, in the Special Section of the Annual Summary, the number of WTC deaths was updated from 2,740 to 2,749. This sum included 6 additional death certificates filed

through October 31, 2003 and 3 deaths that occurred outside of New York City. In 2007, a 2002 death was determined to be a WTC death; in 2008 a 2001 death was determined to be a WTC death and also in 2008, the New York State Supreme court ruled that a specified missing person be added to the list of victims.

FATAL OCCUPATIONAL INJURIES

The data presented in Table 11 and Figures 9 and 10 include all fatal injuries occurring in New York City regardless of the residence of decedents or location of the deaths, i.e., deaths can occur inside or outside of New York City. Autopsy and other reports for deaths due to external causes are reviewed to determine if the injury occurred at work. Definitions and terminology are those of the Bureau of Labor Statistics, U.S. Department of Labor, which may differ from those generally used in vital statistics. Beginning in 2003, coding for industries was changed from Standard Industrial Classification (SIC) to the North American Industry Classification System (NAICS). Because of the substantial differences between SIC and NAICS, comparisons by industry with previous years are not encouraged.

SMOKING- AND ALCOHOL-ATTRIBUTABLE MORTALITY

Smoking- and alcohol-attributable deaths represent the number of NYC deaths that were attributed to exposure to smoking and alcohol, respectively. These statistics were computed using similar methodologies.

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

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

where p_0 is percentage of adult never-smokers in NYC; p_1 is percentage of adult current smokers in NYC; p_2 is the percentage of adult former-smokers in NYC; 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, Adult SAMMEC multiplied the age- and sex-specific SAFs by the number of deaths for each smoking-related disease. Specifically, the number of deaths for each sex and 5-year age category was multiplied by the SAF:

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

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates. A detailed description of the methodology is available at http://apps.nccd.cdc.gov/sammec.

Alcohol-attributable mortality (AAM) was derived by the Alcohol-Related Disease Impact (ARDI) program using an alcohol-attributable fraction (AAF), which is defined as the proportion of deaths from a specific condition due to alcohol. For conditions that are by definition caused by alcohol use, the AAF was set to be 1.0. For other conditions, especially injuries, ARDI directly estimated the AAF based on direct observations about the relationship between alcohol and a given health outcome. For most chronic conditions, the AAF was indirectly estimated using NYC alcohol prevalence data from the CHS combined with pooled risk estimates from large meta-analyses using the following formula:

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

where p is the percentage of NYC men and women age 20 years and older who consume alcohol at a specified level of average daily alcohol consumption within a given year, and RR is the likelihood of death from a particular condition at a specified level of average daily alcohol consumption.

To estimate AAM, AAFs were multiplied by the number of NYC deaths for specific causes defined by CDC's National Center for Chronic Disease Prevention and Health Promotion. Detailed description of the methodology is available at http://apps.nccd.cdc.gov/ardi/HomePage.aspx

AGE OF DECEDENT

For ages greater than one year, decedent's age is based on age at last birthday. For infants, actual age is used in minutes, hours, days or months. In previous editions of the Annual Summary, if age was unknown, it was coded to 65. Beginning with the 2001 Annual Summary, unknown ages are not recoded.

LIFE EXPECTANCY, AGE SPECIFIC AND ADJUSTED DEATH RATES

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 components required are counts and mortality figures for the desired subgroups. Life expectancy tables for New York City are generally presented for census years, when accurate population data are available (Table 22). The mortality experience for the census year, the year before, and the year after is used to smooth statistical variation and reduce the large effect an unusual event in a single year can have, such as a flu epidemic. The World Trade Center disaster deaths are not included in calculation of life expectancy in Table 22. See the Special Section in 2002 Summary for the impact of WTC deaths to life expectancy.

- Beginning in 2005, a new table, Table 23 (Table 22a in 2004), provides annual life expectancy by age and sex so the viewer can see trend data between census years. Life expectancy here is estimated using single year death data. This results in slightly different life expectancy estimates for 2000 in Tables 22 and 23. Table 23 does not include life expectancy for 2008 because national data are required and not yet available.
- Average yearly age-sex and age-sex-race adjusted death rates for 1990 in Tables 25a and 25b, respectively, used 1990 census MARS (modified for age, race and sex) population and 1989 and 1991 mortality data. Average yearly age-adjusted death rates for 2000 in Tables 25a and 25b used 2000 population data and 1999-2001 mortality data. Adjustment allows comparisons between rates to be made over time or between geographic areas by eliminating the effects of differences in the composition of the populations. For 1999-2001, cause-specific rates are adjusted for only age to avoid losing too much information from crude death rates. A new 2000 U.S. standard population is used to calculate cause-specific age-adjusted death rates, while for earlier years the 1940 standard U.S. population was used. Since the Census Bureau has not produced MR (modified for race) 2000 data by single year of age, there is no change for life expectancy calculation and age-adjusted death rates.
- Tables 25a/b: A change in the data used for the 1980 and 1990 calculations is noted in Tables 25a and 25b by a line separating these rates from those for earlier years. The calculations for 1980 and 1990 used information on all deaths occurring to New York City residents regardless of place of occurrence, which was obtained from the New York State Department of Health (NYS DOH), whereas previous computations used all deaths occurring in New York City regardless of residence of the decedent. Mortality data for 2000 includes all New York City residents regardless of place of occurrence; however mortality data were obtained from NCHS as opposed to NYS

DOH. As a result, 2000 mortality data may include more non-New York City occurrences than previous years. Another line is drawn in Table 25b to show that a different data source and standard population were used for the 1999-2001 period than for earlier years.

• Beginning in 2000, life expectancy was estimated by ethnic groups instead of race to ascertain differences among Hispanics, non-Hispanic whites and non-Hispanic blacks. To enable comparison, life expectancy for 1990 was recalculated by ethnic group.

• Historical data on Hispanic ancestry and estimates of life expectancy should be used with caution. Before 1993, ancestry of decedents, which may indicate decedents' Hispanic ethnicity, was obtained from the medical certifier. Under-reporting of all ancestries, including Hispanic, was therefore possible. To overcome this problem, death certificates were revised in June 1993 to require funeral directors to provide the ancestry information, presumably from decedents' family members. Hispanic life expectancy may be overestimated because of the age distribution of Hispanics and because of immigration patterns. The age distribution of Hispanics is different from non-Hispanic whites and non-Hispanic blacks, with fewer Hispanics in the older age groups than other ethnic groups. This would cause an underestimate of Hispanic death rates and hence overestimate of Hispanic life expectancy. An overestimate of Hispanic life expectancy would also occur if Hispanics moved out of the U.S. to die at a greater rate than other ethnic groups.

YEARS OF POTENTIAL LIFE LOST

Years of potential life lost (YPLL) measures years lost due to premature death. In contrast to mortality measures, YPLL emphasizes the processes underlying premature mortality in a population. YPLL is often calculated using a cutoff age, 65 or 75, as follows:

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

where i is the midpoint of the grouped year of age at death and d_i is the number of deaths at grouped year of age i. YPLL can be calculated for specified causes of death. In the Annual Summary's presentation of YPLL (Table 24), 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 under 75.

INFANT MORTALITY

The infant mortality rate consists of the number of infant deaths in New York City in a specified year divided by the number of live births in the city in the same year; some infants in the numerator were born in the preceding year, and some in the denominator will die in the following year. The same definition applies to geographic subdivisions included in some tables.

•In the Annual Summary, all characteristics of infant deaths are drawn from the death certificate except in Tables 42a-d, 43 and 46, which use the ethnic group of the mother from the child's birth certificate. In Tables 42a-d and 43, birth weight and gestational age are based on the birth certificate.

BIRTHS

DATA PRESENTATION

Starting in the 2007 summary, items with unknown/not stated values are not included in the denominator when calculating percentages. This affects the following tables: 34, 35, 36, 39, 40, 41; Maps: 1, 2, 3, 4.

2008 REVISED NYC BIRTH CERTIFICATE – January 1, 2008, NYC initiated the use of a Board of Health approved revised birth certificate conforming to 2003 U.S. Standard Certificate of birth recommendations (http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf). Variables were added to the certificate, changed, and removed (See pages 84-85 for the NYC 2008 revised birth certificate).

•*New data items* (only some of which are reported in the Vital Summary) – Parents' length of time in U.S.; Mother's height; Mother's weight at delivery; Date of last pre-natal care visit; Total number of previous live births; Number previous preterm births; Number previous low birth weight live births; Whether mother (age ≥ 35) was offered genetic testing; Whether delivery with forceps/vacuum attempted; Indications for vacuum/forceps use; If cesarean whether trial of labor attempted; If birth weight $< 1{,}250$ grams reason for delivery at less than level III hospital; How infant is being fed; and Whether Hepatitis B inoculation was administered.

•*Revised data items* – (only some of which are reported in the Vital Summary) Parents' education item changed from highest year of education to highest level completed; Parents' ancestry item changed to specify origin for non-Hispanic parents in addition to Hispanic parents; Parents' race item has been revised to include the option of selecting multiple races from list defined by US Census; WIC item and cigarette smoking are now collected on the mother's worksheet as opposed to the facility worksheet; Illicit and other drug use during this pregnancy item has been moved from a subset of questions under "other risk factors for this pregnancy" to a separate item on the birth certificate and now includes methamphetamine among specific drug options; Type of place (of birth) item changed to distinguish between home delivery planned, unplanned, or unknown and to include clinic/doctor's office; Primary payer item replaced "Primary Financial Coverage" and includes Medicaid and other government insurance (Family Health Plus, Child PlusB), Private Insurance, Military Insurance (CHAMPUS/TRICARE), Self-pay, other and unknown options; Total number of prenatal care visits for this pregnancy item has replaced Total number of visits to all providers item; Primary prenatal care provider type item has been changed from All provider types giving care item and options have changed to MD/DO; C(N)M/NP/PA/Other Midwife, clinic, no provider, no information, other; Total number of other pregnancy outcomes/ number of spontaneous terminations < 20 weeks, ≥ 20 weeks/number of induced terminations of pregnancy items have been changed to collect less detailed information; Risk factors for this pregnancy item has been revised from Medical risk factors for this pregnancy item and now includes information on infertility treatments, previous cesarean section, previous poor pregnancy outcomes, more specific information on cardiac disease, and asthma. Infections present and/or treated during this pregnancy item is now listed as separate from "Medial risk factors for this pregnancy" item and includes infections not previously listed as options; Obstetric procedures item has been revised to include new options; Fetal presentation at birth and final route and method of delivery items now exist has two separate questions; Indications for C-section item now gives the facility a list of choices rather than requiring specifying in their own words; Other procedures performed at delivery item now gives the facility a list of choices rather than a blank for writing in their own words; Anesthesia item offers a list of options, is now separate from Complications of Labor and/or Delivery, and collects information on complications of anesthetics; Maternal morbidity item has been revised as separate from "Complications of labor and/or delivery" item and offers a list of options; Infant transferred item now collects whether transfer occurred before or after 24 hours of delivery; Apgar score item now requires a 10 minute score if the five minute score was < 6; Abnormal conditions item offers a shorter list of options; Congenital anomalies item has been expanded to document whether anomalies were detected prenatally, and with what diagnostic method.

•*Removed Data Items* – Radiation exposure during pregnancy item; Type of analgesia used item; Mother's blood group and Rh item; and whether mother was patient of private physician or general service item.

New Items Reported in the Summary:

•Tables 34-36 and 39-40 added Pre-pregnancy Obesity as a Selected Characteristic of the mother. Obesity is defined by BMI $\geq$ 30.

•Tables 31 and 33 report a new category for ethnicity, "Non-Hispanic, two or more races" as the Electronic Birth Registration system allows birth clerks to enter multiple race

when the mother reports this on the worksheet (See Multiple Race under Race, Ancestry, Ethnic group and Birth Place in Technical Notes).

•Map 4, Percent Pre-pregnancy Obesity by Community District of Residence, replaced Percent Late or No Prenatal Care by Community District of Residence.

Changes to Birth Items Reported in the Summary Due to Data Quality Concerns:

A combination of poor data quality and hospital staff adaptation to the new data entry system and worksheets affected data quality resulting in changes to items presented in the 2008 Summary. In Tables 31 and 33 and Figure 23, the number of women categorized with ethnicity "not stated" resulted from a 2-fold increase in reporting race "unknown" on the birth certificate. In Tables 30 and 35, the number of women categorized as reporting "other" ancestry has increased two-fold due to data entry errors; this slightly affected the overall distribution of live births by ancestry. In Tables 32 and 33 – Mother's Total Live Births Including This One is reported dichotomously as First Live Birth Yes/No instead of categorically and First Date of Prenatal Care is not reported.

MOTHER'S MARITAL STATUS

New York City is prohibited by local law from recording mother's marital status on the record or report of birth. It is computed for purposes of statistical analysis and reporting. As a result, this statistic should be analyzed cautiously.

- Prior to 1996, it was computed using an algorithm developed by NCHS.
- In 1996, a review of marital status results indicated that the number of non-marital births was being overestimated.
- In 1997, a new method was implemented which uses only the presence or absence of a father's name on the birth certificate and the filing of an Acknowledgment of Paternity to estimate marital status. This procedure is consistent with that used by New York State. See Special Note in 1997 Vital Statistics Summary for more detailed information.

•A complete discussion of the 1996 review of marital status can be found in the Special Note on Mother's Marital Status in the 1997 Annual Summary.

TEEN BIRTH RATE

Counts of teen births include all births occurring to women under the age of 20 (see tables 39, 40, 41); teen birth rates are limited to those teens between the ages of 15 and 19 (Tables 28a and 40), for which population denominators can be appropriately applied to compute a reliable rate.

GESTATIONAL AGE

Gestational age 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. It is also referred to as the clinical estimate of gestation. Beginning in 2007, characteristics of live births and/or infant deaths in Tables 32-36, 39-41, 42c-d and Figure 24 include either gestational age categories or a dichotomous indicator of preterm (< 37 weeks gestation) birth.

INDUCED AND SPONTANEOUS TERMINATIONS OF PREGNANCY

The number of induced and spontaneous terminations reported depends to some extent on active surveillance, notwithstanding that all terminations, not just those of a certain gestational age or weight, are required to be reported. Active surveillance caused an increase in the number of spontaneous terminations reported beginning in 1992. An additional result is that some events from earlier years are included in subsequent year's Vital Statistics Summary. In 1997, one facility was found to have failed to submit reports for over 11,000 1996 procedures. These reports, and about 500 from several other facilities, were reported in revised tables for 1996 pregnancy outcomes in the 1997 Vital Statistics Summary. A discussion of the revised tables and the corrected data for all pregnancy outcomes can be found in the Technical Notes, 1997.

New York City Certificates of Birth, Death, Spontaneous Termination of Pregnancy and Induced Termination of Pregnancy

New York City data on births, deaths and spontaneous and induced terminations of pregnancy are derived from the certificates filed with Vital Records. Samples are displayed on the pages that follow. Birth and termination of pregnancy certificates are required to be filed regardless of gestational age.

Birth Certificate – Birth certificates must be filed within five business days of the event. Over 99% of NYC births occur in hospitals and birthing facilities. The birth certificate is comprised of two parts: the certificate of birth and the confidential medical report of birth.

- The certificate of birth is the legal record. It is signed by the medical provider (physician or midwife) or an official representing the medical provider and filed with the DOHMH both on paper and electronically.
- The confidential medical report, used for the compilation of public health statistics and scientific purposes, collects 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 at and immediately after birth. These data are collected from the mother, the mother's and infant's medical records, and medical providers. Since 1997, almost all confidential medical reports have been completed electronically.

Death Certificate – Death certificates must be filed within 72 hours of death or finding the body. There are two forms, one for natural causes and one for medical examiner cases.

- Natural cause practitioner certificates - Most (85%) of deaths are due to natural causes and are completed by the attending physician or his or her authorized medical associate.
- Medical examiner certificate of death - When the cause of death is an accident, homicide, suicide, unattended or due to certain other circumstances (approximately 15% of deaths), the NYC Office of Chief Medical Examiner (OCME) completes the medical examiner certificate of death and supplementary report.

The two forms are similar. Both collect important information pertaining to the fact of death (person, place and time of death). Both collect 'personal particulars' which include items such as decedent's Social Security number, address, birth place, education, marital status, informant's information and place of disposition. The personal particulars are typically provided by the family 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 on the confidential medical report; on the OCME certificate, it is on the 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.

Spontaneous Termination of Pregnancy Certificate – Data collection on spontaneous terminations of pregnancy events is required to be completed on all fetal deaths regardless of gestational age and filed with the DOHMH within 72 hours of the event. Similar to 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 purposes.

Certificate of Induced Termination of Pregnancy – Data collection for induced terminations of pregnancy are required to be completed and filed with the DOHMH within 5 days of the event. The certificate does not contain the woman's name or identifying information. It is confidential and only collected for the compilation of public health statistics and scientific purposes.

VR 6
(Rev. 01/08)

DATE FILED

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

CERTIFICATE OF BIRTH

CERTIFICATE NO.

Cert. No.

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

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

Father's SSN:

Mother's SSN:

Place:

Died: Date:

1. NAME OF CHILD — First | Middle | Last

2. SEX

3a. NUMBER DELIVERED of this pregnancy

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

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

4b. Time ☐ AM ☐ PM

5. PLACE OF BIRTH

5a. NEW YORK CITY BOROUGH

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

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

6a. MOTHER'S MAIDEN NAME (Prior to first marriage) First | Middle | Last

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

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

7. MOTHER'S USUAL RESIDENCE a. State | b. County

7c. City or town

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

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

8a. FATHER'S NAME First | Middle | Last

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

8c. FATHER'S BIRTHPLACE City and State or foreign country

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

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

Signed _____

Name of Signer _____ *(Type or Print)*

Address _____

Date Signed _____, Year - yyyy _____

Mother's Current Legal Name First | Middle | Last

Address _____ Apt. _____

City _____ State _____ ZIP _____

VOID

VR 6
(Rev. 01/08)

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

CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)

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

(Each question MUST be answered)

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

MOTHER'S MEDICAL RECORD NO. _____ MOTHER'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 **b. Father**

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

Name of enrolled or principal tribe

_____ (Mother) _____ (Father)

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

Specify

_____ (Mother) _____ (Father)

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

Specify

_____ (Mother) _____ (Father)

☐ Other ☐

Specify

_____ (Mother) _____ (Father)

11. PARENT'S ANCESTRY

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

a. Mother **b. Father**

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

Specify

_____ (Mother) _____ (Father)

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

Specify

_____ (Mother) _____ (Father)

12. PARENT'S LENGTH OF TIME IN US

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

b. Father: 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 **b. Father**

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

14. PARENT'S OCCUPATION

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

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

15. PRENATAL HISTORY

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

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

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

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

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

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

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

16. PRENATAL CARE

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

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

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

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

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

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

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

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

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

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

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

j. Mother's Pre-Pregnancy Weight _____ pounds

k. Mother's Height _____ feet _____ inches

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

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

17. FINANCIAL COVERAGE

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

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

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

18. MATERNAL MORBIDITY

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

VR 6
(Rev. 01/08)

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

CONFIDENTIAL MEDICAL REPORT OF BIRTH (2 of 2)

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

(Each question MUST be answered)

NAME OF CHILD _____

CERTIFICATE NO. _____

19. LABOR AND DELIVERY

a. If birth occured in hospital, was mother transferred in before giving birth?
If yes, name of facility transferred from

☐ Yes _____
☐ No

b. Mother's Weight at Delivery

_____ pounds

c. Onset of Labor
(Check **all** that apply)

☐ Prolonged rupture of membranes (12 hours or more)
☐ Prolonged labor (20 hours or more)
☐ Premature rupture of membranes (prior to labor)
☐ None of the above
☐ Precipitous labor (less than 3 hours)

d. Characteristics of Labor & Delivery
(Check **all** that apply)

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

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

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

2. Complications from any of the above?

☐ Yes ☐ No

Method of Delivery

f. Fetal Presentation at Birth

☐ Cephalic
☐ Breech
☐ Other

g. Final route and method of delivery (Check **one**)

☐ Vaginal/Spontaneous
☐ Vaginal/Forceps
☐ Vaginal/Vacuum
☐ Cesarean

1. If cesarean, was trial of labor attempted?

☐ Yes ☐ No

2. Indications for C-Section ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Malpresentation
☐ Previous C-Section
☐ Fetus at risk/NFS
☐ Maternal condition-not pregnancy related
☐ Maternal condition-pregnancy related
☐ Refused VBAC
☐ Elective
☐ Other

3. Was delivery with forceps attempted but unsuccessful?

☐ Yes ☐ No

4. Indications for Forceps ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Fetus at Risk
☐ Other

5. Was delivery with vacuum extraction attempted but unsuccessful?

☐ Yes ☐ No

6. Indications for Vacuum ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Fetus at Risk
☐ Other

h. Other Procedures Performed at Delivery (Check **all** that apply)

☐ Episiotomy & repair
☐ Sterilization
☐ Repair of lacerations
☐ None of the above

20. INFANT

a. Birthweight

_____ Pounds _____ Ounces **or** _____ Grams

b. If birth weight < 1250 grams (2 lbs. 12 oz.), reason(s) for delivery at a less than level III hospital: *(Only if applicable)*

☐ None ☐ Unknown at this time
(Select **all** that apply)

☐ Rapid/Advanced Labor
☐ Bleeding
☐ Fetus at Risk
☐ Severe pre-eclampsia
☐ Woman Refused Transfer
☐ Other-*specify* _____

c. Apgar Score at

1. 1 minute _____ **2.** 5 minutes _____ **3.** 10 minutes _____

d. Clinical Estimate of Gestation

Completed Weeks: _____

e. Infant Transferred

☐ Within 24 hours of Delivery
☐ After 24 hours
☐ Not Transferred

f. If transferred, name of facility transferred to:

_____

g. Abnormal Conditions of the Newborn
(Check **all** that apply)

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

h. Hepatitis B Inoculation

1. Immunization administered?
☐ Yes Date: (mm/dd/yyyy) ____/____/____
☐ No

2. Immunoglobulin administered?
☐ Yes Date: (mm/dd/yyyy) ____/____/____
☐ No

i. Is infant living at time of report?

☐ Yes ☐ No

j. How is infant being fed? (Check **one**)

☐ Breast milk
☐ Formula
☐ Both
☐ Neither

Congenital Anomalies

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

13. None of those listed above ☐

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

CERTIFICATE OF DEATH

Certificate No.

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

DOHMH USE ONLY

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

1. DECEDENT'S LEGAL NAME

(First Name) (Middle Name) (Last Name)

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

Place Of Death

2a. New York City
2b. Borough

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

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

Date and Time of Death

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

3b. Time ❑ AM ❑ PM

4. Sex

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

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

Name of Physician _____ (Type or Print)

Signature _____ D.O. M.D.

Address _____

License No. _____ Date _____

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

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

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

9. Age at last birthday (years) 1

Under 1 Year: Months 2 | Days 3

Under 1 Day: Hours 4 | Minutes 5

10. Social Security No.

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

11b. Kind of business or industry

12. Aliases or AKAs

13. Birthplace (City & State or Foreign Country)

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

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

16. Marital Status at Time of Death
1 ❑ Married
2 ❑ Divorced
3 ❑ Married, but separated
4 ❑ Never married
5 ❑ Widowed
6 ❑ Unknown

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

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

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

20a. Informant's Name

20b. Relationship to Decedent

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

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

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

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

21d. Date of Disposition mm dd yyyy

22a. Funeral Establishment

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

VR 15 (Rev. 11/04)

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

CONFIDENTIAL MEDICAL REPORT

VR 15 (Rev. 11/04)

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

Certificate No.

23. Ancestry (Check one box and specify)
- ❑ Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)

Specify _____

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

Specify _____

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

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

DECEDENT'S LEGAL NAME (Type or Print)

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

IMMEDIATE CAUSE → FINAL disease or condition resulting in death.

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

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

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

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

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

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

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

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

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

27c. Date of Outcome: mm dd yyyy

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

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

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

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

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

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

CERTIFICATE OF DEATH

Certificate No.

❑ New
❑ Corr/Amend
❑ Replacement

DOHMH USE ONLY

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

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

1. DECEDENT'S LEGAL NAME

(First Name) (Middle Name) (Last Name)

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

Place Of Death
2a. New York City
2b. Borough
2c. Type of Place
1 ❑ Hospital Inpatient
2 ❑ Emergency Dept./Outpatient
3 ❑ Dead on Arrival
4 ❑ Nursing Home/Long Term Care Facility
5 ❑ Hospice Facility
6 ❑ Decedent's Residence
7 ❑ Other Specify
2d. Name of hospital or other facility (if not facility, street address)

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

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

7a. Injury Date (mm dd yyyy)
7b. Time ❑ AM ❑ PM
7c. At Work 1 ❑ Yes 2 ❑ No
7d. Place of Injury – At home, factory, street, etc.
7e. Location
7f. How Injury Occurred
7g. If Transportation Injury Specify
❑ Driver/Operator ❑ Pedestrian ❑ Passenger ❑ Other Specify
8. Manner of Death
❑ Pending further study ❑ Natural ❑ Homicide ❑ Accident ❑ Suicide ❑ Undetermined
9. Autopsy
❑ Yes ❑ No Autopsy Pursuant to Law ❑ No Autopsy
10. On the basis of examination and/or investigation, in my opinion, death occurred due to the causes and manner as stated:
Certifier Signature M.D. Date
Certifier Name (Print)
(Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

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

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

VR 16 (Rev. 01/03)

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

MEDICAL EXAMINER'S SUPPLEMENTARY REPORT

VR 16 (Rev. 01/03)

Certificate No.

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

27. Ancestry (Check one box and specify)

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

Specify _____

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

Specify _____

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

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

DECEDENT'S LEGAL NAME (Type or Print)

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

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

29c. Date of Outcome

mm	dd	yyyy

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

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

Cleared For Cremation If Family Requests

_____
M.E. Signature

I certify that I personally examined the body on

_____ 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)

VR 17 (REV. 11/04)

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 Department of Health and Mental Hygiene use only.

❑ I CERTIFY THAT I HAVE IN MY POSSESSION AN AFFIDAVIT OF AUTHORIZATION FOR CREMATION

FD Initials

DATE FILED

CERTIFICATE OF SPONTANEOUS TERMINATION OF PREGNANCY

Certificate No.

Did heart beat after delivery?_____ Was there movement of voluntary muscle? _____
Such cases must be reported by filing a certificate of birth and a certificate of death

1. SEX OF FETUS ❑ Male ❑ Female ❑ Undetermined	2a. NUMBER DELIVERED this pregnancy 2b. If more than one, number in order of delivery	3. DATE OF DELIVERY OR OPERATION FOR DELIVERY *(Month) (Day) (Year–yyyy)*	3a. Hour	❑ AM ❑ PM

4. PLACE OF DELIVERY	4a. NEW YORK CITY BOROUGH OF	4b. Name of HOSPITAL (if not in institution street address)	4c. TYPE OF PLACE ❑ Hospital ❑ Home ❑ Birthing Center ❑ Other

5a. MOTHER'S FULL MAIDEN NAME	5b. MOTHER'S DATE OF BIRTH *(Month) (Day) (Year–yyyy)*	5c. MOTHER'S BIRTHPLACE City & State or foreign country

6. MOTHER'S USUAL RESIDENCE a. State	b. County	c. City, town, or location	d. Street and house number Apt. Zip	e. Inside city limits of 6c? Yes ❑ No ❑

7a. FATHER'S FULL NAME	7b. FATHER'S DATE OF BIRTH *(Month) (Day) (Year–yyyy)*	7c. FATHER'S BIRTHPLACE City & State or foreign country

8. I HEREBY CERTIFY THAT THIS DELIVERY OCCURRED AT THE HOUR AND ON THE DATE STATED ABOVE, THAT ALL THE FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

R.N.
C.N.M.
Other Midwife
D.O.
M.D.

9. NAME OF ATTENDANT (AT) (AFTER) DELIVERY

R.N.
C.N.M.
Other Midwife
D.O.
M.D.

Signature _____

Name of Physician _____
(Type or Print)

Date _____, Year–yyyy _____ Address _____

FUNERAL DIRECTOR'S CERTIFICATE

I hereby certify that I have been employed as Funeral Director herein by _____

of _____ This statement is made to obtain a permit for the
(Address)

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

Funeral Establishment _____ Registration No. _____ Address _____

PLACE OF BURIAL OR CREMATION DATE OF BURIAL OR CREMATION

VITAL RECORDS **DEPARTMENT OF HEALTH AND MENTAL HYGIENE** **THE CITY OF NEW YORK**

VR 17 (REV. 11/04)

CONFIDENTIAL MEDICAL REPORT

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

SURNAME OF MOTHER: _____ CERTIFICATE NO.

	10. Race-White, Black, American Indian, Chinese, Asian Indian, Other *specify*	11. Ancestry (African -American Chinese, Cuban, German Italian, Puerto Rican etc.)	12. Education (Record highest year completed) Elem/Secondary 0 - 12	12. College 1-4 or 5 +	13. Occupation: Mother, most recent Father, usual	14. Kind of business or industry	15. Employed During This Pregnancy
MOTHER	10a.	11a.	12a.		13a.	14a.	15a. 1 ❑ Yes 0 ❑ No
FATHER	10b.	11b.	12b.		13b.	14b.	

16. Last Normal Menses Began Mo./Day/Yr-yyyy	17. Previous Pregnancies (Complete all sections)								
	a. Total Previous Pregnancies Number ____ None ❑	Born Alive		Spontaneous Terminations			Induced Terminations		
		b. Now Living Number ____ None ❑	c. Now Dead Number ____ None ❑	d. Under 13 Wks Number ____ None ❑	e. 13 to 19 Wks Number ____ None ❑	f. 20 Wks or more Number ____ None ❑	g. Under 13 Wks Number ____ None ❑	h. 13 to 19 Wks Number ____ None ❑	i. 20 Wks or more Number ____ None ❑

18. Weight at Delivery
_____lbs _____ ozs (1)
OR
_____ grams (2)
❑ Not Weighed (3)

19. Autopsy performed
1 ❑ Yes 2 ❑ No

20. Clinical Estimate of Gestation
_____Weeks

21. Fetus Died:
Before Labor | During Labor | At Delivery | Unknown
1 ❑ | 2 ❑ | 3 ❑ | 4 ❑

22. This Termination of Pregnancy was caused by

PART 1		Fetal or Maternal
	a. Immediate Cause	
	b. Due to	
	c. Due to	

PART 2. Other significant conditions of conceptus or mother

FOR GESTATION OF 20 WEEKS OR MORE REMAINDER OF CERTIFICATE MUST BE COMPLETED

23. Pregnancy History	Date Month Year-yyyy	24. Prenatal Care a. Date First Visit To Any Provider Month Day Year-yyyy	b. Providers *Check all that apply*	c. Total Number Of Visits to All Providers	25. Mother's Blood Group and Rh	26. Congenital Anomalies *Specify*
a. First Live Birth			1 ❑ Hosp. 4 ❑ SHF 2 ❑ MIC 5 ❑ Pvt Phy 6 ❑ Other 3 ❑ Other Clinic	0 ❑ NONE		27a. Type of Anesthesia *Specify* b. Type of Analgesia *Specify*
b. Last Live Birth						
c. Last Other Termination						

28. Primary Financial Coverage This Pregnancy
1 ❑ Medicaid
2 ❑ HMO
3 ❑ Other 3rd Party
4 ❑ Self

29. During This Pregnancy Did Mother Participate in:
1 ❑ WIC 4 ❑ AFDC
2 ❑ PCAP 5 ❑ Other
3 ❑ MOMS Specify _____
0 ❑ None

30. Mother Was
1 ❑ Private Physician's Patient
2 ❑ General Services Patient

31. Was Hospital Of This Delivery a:
1 ❑ Prelabor Referral for High Risk
2 ❑ Emergency Transfer Prior To Delivery
Specify Transfer From _____
0 ❑ Neither

32. MEDICAL RISK FACTORS FOR THIS PREGNANCY *(Check all that apply)*
01 ❑ Anemia (Hct. < 30/Hgb. < 10)
02 ❑ Cardiac disease
03 ❑ Acute or chronic lung disease
Diabetes
04 ❑ Gestational
05 ❑ Chronic
06 ❑ Genital herpes
07 ❑ Other STD
08 ❑ Hydramnios/Oligohydramnios
09 ❑ Hemoglobinopathy
10 ❑ Hepatitis
Hypertension
11 ❑ Chronic
12 ❑ Pregnancy-associated
13 ❑ Preeclampsia
14 ❑ Eclampsia
15 ❑ Incompetent cervix
16 ❑ Previous infant 4000 + grams
17 ❑ Previous preterm or small-for-gestational-age infant
18 ❑ Renal disease
19 ❑ Rh sensitization
Uterine bleeding
21 ❑ Trimester – 1
22 ❑ Trimester – 2
23 ❑ Trimester – 3
00 ❑ None
24 ❑ Other _____

33. OTHER RISK FACTORS FOR THIS PREGNANCY *(Check all that apply)*
a. Tobacco use during pregnancy 1 ❑ Yes ❑ No
Average number of cigarettes per day _____
Alcohol use during pregnancy 2 ❑ Yes ❑ No
Average number of drinks per week _____
Heroin 3 ❑ Yes ❑ No
Cocaine 4 ❑ Yes ❑ No
Methadone 5 ❑ Yes ❑ No
Marijuana 6 ❑ Yes ❑ No
Sedatives, Tranquilizers, Anticonvulsants
Specify _____ 7
Other Drugs
Specify _____ 8
0 ❑ None of the above

b. Weight
Prepregnancy Weight _____
Weight gained during pregnancy _____

c. Radiation exposure during pregnancy?
0 ❑ No 1 ❑ Yes
If yes specify Trimester and Type

34. Prior C-section
0 ❑ No 1 ❑ Yes

35. COMPLICATIONS OF LABOR AND/OR DELIVERY *(Check all that apply)*
01 ❑ Anesthetic complications
02 ❑ Abruptio placenta
03 ❑ Placenta previa
04 ❑ Other excessive bleeding
05 ❑ Cord Prolapse
06 ❑ Conditions of Cord
07 ❑ Fetal distress
08 ❑ Cephalopelvic disproportion
09 ❑ Chorioamnionitis
10 ❑ Meconium staining
11 ❑ Premature rupture of membranes (> 12 hours)
12 ❑ Seizures during labor
13 ❑ Precipitous labor (< 3 hours)
14 ❑ Prolonged labor (> 20 hours)
15 ❑ Failure to Progress
16 ❑ Breech/Malpresentation
17 ❑ Febrile (> 100°F. or > 38°C)
00 ❑ None
18 ❑ Other _____
Specify

36. METHOD OF DELIVERY *(Check all that apply)*
01 ❑ Vaginal
02 ❑ Vaginal after any prior C-section
03 ❑ Primary C-section
04 ❑ Repeat C-section
05 ❑ Breech Extraction
06 ❑ Mid Forceps
07 ❑ Low Forceps
08 ❑ Vacuum
09 ❑ Other, *Specify*

37. Indication for C-section
Specify

38. OBSTETRIC PROCEDURES *(Check all that apply)*
a. Amniocentesis
01 ❑ Genetic
02 ❑ Maturity
03 ❑ Stress Test
04 ❑ Non Stress Test
Electronic Fetal Monitoring
05 ❑ Internal
06 ❑ External
07 ❑ Scalp Sampling
08 ❑ Tocolysis
09 ❑ Other
Specify _____
00 ❑ None

01 ❑ b. Induction
02 ❑ Stimulation
03 ❑ Both
00 ❑ Neither
Indication for Induction or Stimulation
Specify _____

c. Ultrasonography exams
Number _____
0 ❑ None

39 Other Procedures Performed at Delivery
Specify _____
0 ❑ None

DATE FILED
(For Health Dept. Use Only)

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 of Health and Mental Hygiene: not open to inspection or subject to subpoena

1. PLACE OF TERMINATION (Name and address of doctor's office, hospital, or other facility)

1 ❑ In-Patient 2 ❑ Out-Patient

CERTIFICATE NO.
(For Health Dept. Use Only)
156 —

2. DATE OF PROCEDURE FOR TERMINATION
Month _____ Day _____ Year–yyyy _____

INST.

3a. LAST NAME First Two Letters | b. FIRST NAME First Two Letters | 4. PATIENT'S DATE OF BIRTH Month | Day | Year–yyyy | 5. MARRIED 1 ❑ Yes 2 ❑ No

6. PATIENT'S USUAL RESIDENCE *(Check only one)*

B

a. NEW YORK CITY (*Check one*)
1 ❑ Manhattan
2 ❑ Bronx
3 ❑ Brooklyn
4 ❑ Queens
5 ❑ Staten Island
Patient's Zip Code _____

b. NEW YORK STATE OUTSIDE NEW YORK CITY (Including Nassau, Suffolk, Westchester)
6 ❑ Specify County _____
Specify City, Town, or Location _____

c. OUTSIDE NEW YORK STATE US City and State *(Specify)*
8 ❑ _____
OR
Foreign Country *(Specify)*
8 ❑ _____

R

7. PATIENT'S BIRTHPLACE (City & State OR Foreign Country)

A

8. PATIENT'S RACE ❑ White ❑ Black ❑ Asian ❑ Other _____

9. ANCESTRY (African-American, Chinese, Cuban, German, Italian, Puerto Rican, etc.)

E

10. EDUCATION (Record ONLY highest year completed)

Elem/Secondary 0–12	College 1–4 or 5+

11. PREVIOUS PREGNANCIES *(Complete all sections)*

Previous Pregnancies	BORN ALIVE		OTHER TERMINATIONS	
	NOW LIVING	NOW DEAD	SPONTANEOUS	INDUCED
a. None ❑	b. Number _____ None ❑	c. Number _____ None ❑	d. Number _____ None ❑	e. Number _____ None ❑

PRESENT TERMINATION

12. DATE LAST NORMAL MENSES BEGAN
Month _____ Day _____ Year–yyyy _____

13. CLINICAL ESTIMATE OF GESTATION
Weeks _____

14. SONOGRAM PERFORMED
1 ❑ Yes 2 ❑ No

15. PRIMARY FINANCIAL COVERAGE THIS TERMINATION *(Check only one)*
1 ❑ Medicaid 2 ❑ Other Insurance 3 ❑ Patient Pay

16. TYPE OF TERMINATION PROCEDURES *(Check only one)*

10 ❑ Suction Curettage
20 ❑ Sharp Curettage (D&C)
30 ❑ Dilation and Evacuation (D&E)
40 ❑ Intra-Uterine Instillation (Saline or Prostaglandin)
50 ❑ Hysterotomy/Hysterectomy
65 ❑ Medical (Nonsurgical)
Specify Medication(s) _____
80 ❑ Other *(Specify)* _____

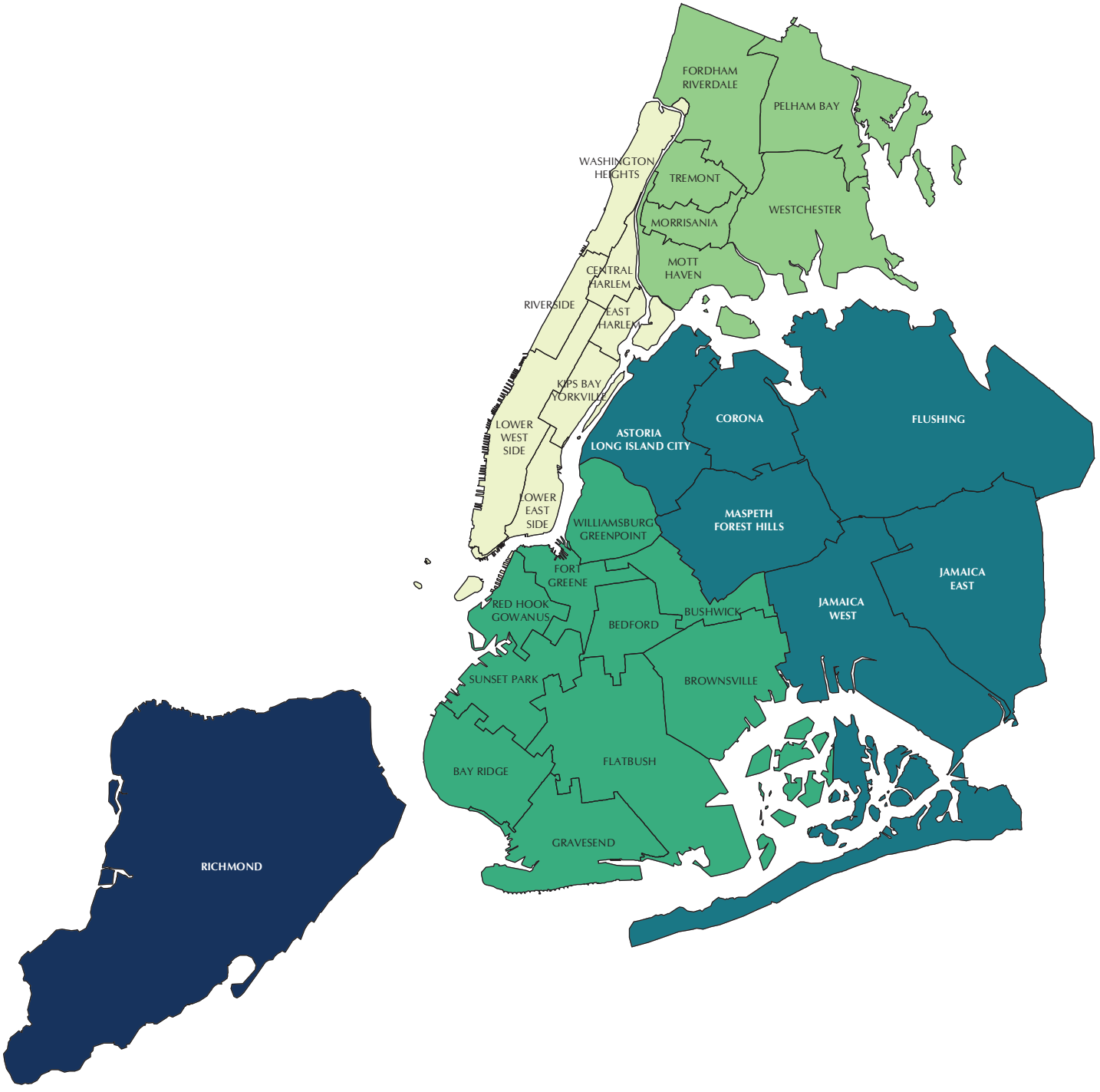
I HEREBY CERTIFY THAT I ATTENDED THIS PATIENT (AT) (AFTER) THIS TERMINATION AND THAT ALL THE FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

PHYSICIAN'S NAME, ADDRESS (*Type, Print, Stamp*)
❑ M.D.
❑ D.O.

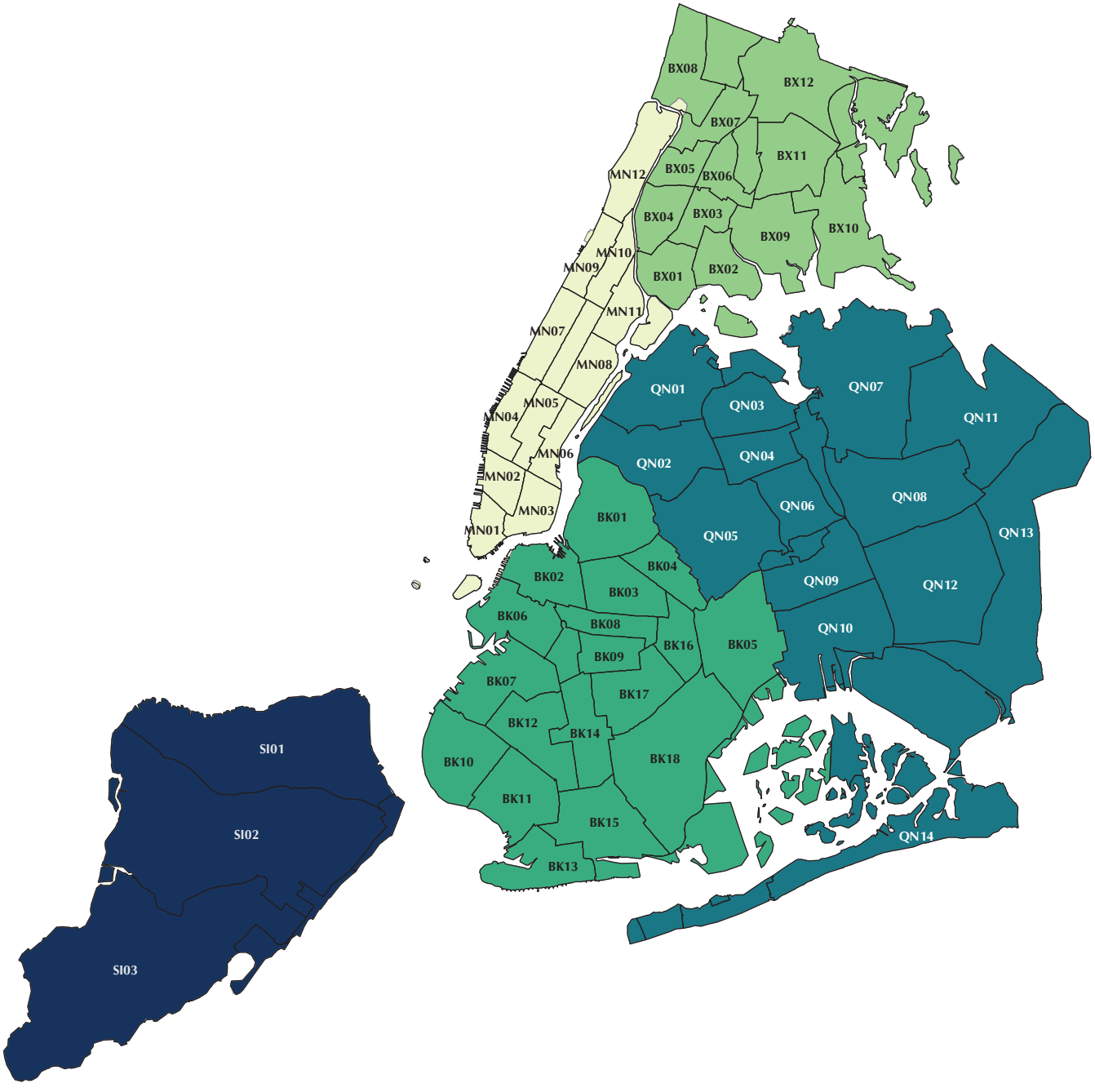
PHYSICIAN'S SIGNATURE

DATE _____
(Month/Day/Year–yyyy)

Map 7. Health Center Districts and Boroughs, New York City



Map 8. Community Districts and Boroughs, New York City



DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Bureau of Vital Statistics

Michael R. Bloomberg, Mayor
Thomas A. Farley, M.D., M.P.H., Commissioner

http://www.nyc.gov/health

January 2010