



Epi Data Brief

New York City Department of Health and Mental Hygiene

December 2016, No. 83

Hypertension Hospitalizations and Related Morbidity in New York City

Hypertension (HTN) affects an estimated 1.8 million adults in New York City¹ and is a leading risk factor for heart disease and stroke. Hospitalizations for hypertension are largely preventable and with timely and effective outpatient care, many of these hospitalizations could be avoided.² In addition, uncontrolled blood pressure has been reported in 77% of patients with their first stroke.³ This report describes the rate of hospitalizations for HTN, heart disease, and stroke and disparities in these hospitalizations.

Four in ten hospitalizations for hypertension, heart disease, and stroke are among adults under 65 years of age

- In 2014, there were 7,990 hospitalizations for HTN, 74,551 hospitalizations for heart disease, and 15,386 for stroke in NYC, totaling 97,927 hospitalizations.
 - The cumulative length of stay (LOS) for hospitalizations was 544,529 person days with a median LOS ranging from 3 to 5 days. This figure excludes 239 hospitalizations that exceeded 60 days.
- Men and women had a similar annual HTN hospitalization rate (125 per 100,000 men vs. 113 per 100,000 women).
- Rates of hospitalization among men versus women were 1.5 times higher for heart disease (1,395 per 100,000 men vs. 903 per 100,000 women) and 1.3 times higher for stroke (262 per 100,000 men vs. 208 per 100,000 women).
- A greater proportion of hospitalizations for HTN, heart disease, and stroke among men were in those adults younger than 65 years, compared with women (67% vs. 49% for HTN; 49% vs. 32% for heart disease; 45% vs. 32% for stroke).

Definitions:

Hypertension: Primary diagnosis ICD9 = 401, 403, 405 (ICD10 = I10, I12, I15)

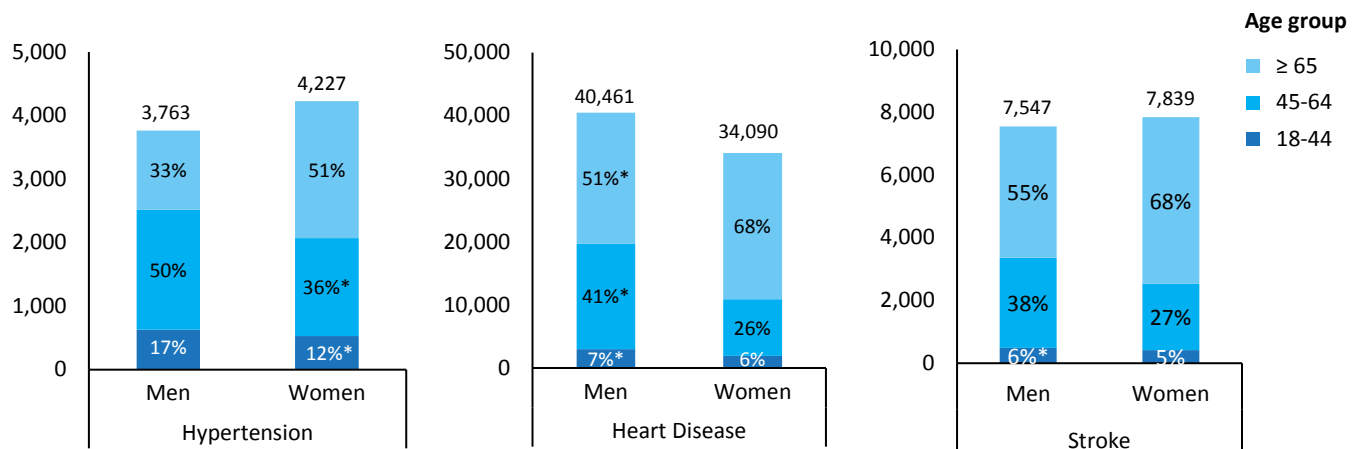
Heart disease: Primary diagnosis ICD9 = 390-398, 402, 404, 410-429 (ICD10 = I00-I09, I11, I13, I20-I51)

Stroke: Primary diagnosis ICD9 = 430-434, 436-438 (ICD10 = I60-69)

Neighborhood poverty (based on ZIP code): the percentage of residents with incomes below 100% of federal poverty level (FPL), per American Community Survey 2010-2014. Categories: low-poverty (<10% FPL), medium-poverty (10-19% FPL), high-poverty (20-29% FPL), very-high-poverty (>=30% FPL)

Neighborhood: the United Hospital Fund classifies New York City into 42 neighborhoods comprised of contiguous ZIP codes.

Hospitalizations for hypertension, heart disease, and stroke among adults, New York City, 2014



Rates are age-adjusted to the 2000 U.S. standard population.

*Percent totals will not equal 100% due to rounding down.

Source: New York Statewide Planning and Research Cooperative System, 2014.

The rate of hypertension hospitalizations is more than three times higher in very high-poverty than low-poverty neighborhoods in New York City

- The highest rates of hospitalizations for hypertension, heart disease, and stroke were seen primarily in the Bronx, Northern Manhattan, and parts of Brooklyn, whereas the lowest rates were observed primarily in other parts of Manhattan and Queens.
- In 2014, very high-poverty neighborhoods had an age-adjusted annual hospitalization rate for HTN that was 3.5 times that of low-poverty neighborhoods (219 per 100,000 vs. 63 per 100,000 adults); comparatively, the prevalence of HTN was 1.4 times higher in very high-poverty neighborhoods compared with low-poverty neighborhoods.¹
- Very high-poverty neighborhoods had an age-adjusted annual hospitalization rate for heart disease that was 1.9 times that of low-poverty neighborhoods (1561 vs. 810 per 100,000 adults) and for stroke, 1.7 times the rate in low-poverty neighborhoods (300 vs. 173 per 100,000 adults).

United Hospital Fund neighborhoods with the highest and lowest hypertension, heart disease and stroke hospitalization rates per 100,000 adults, New York City, 2010-2014

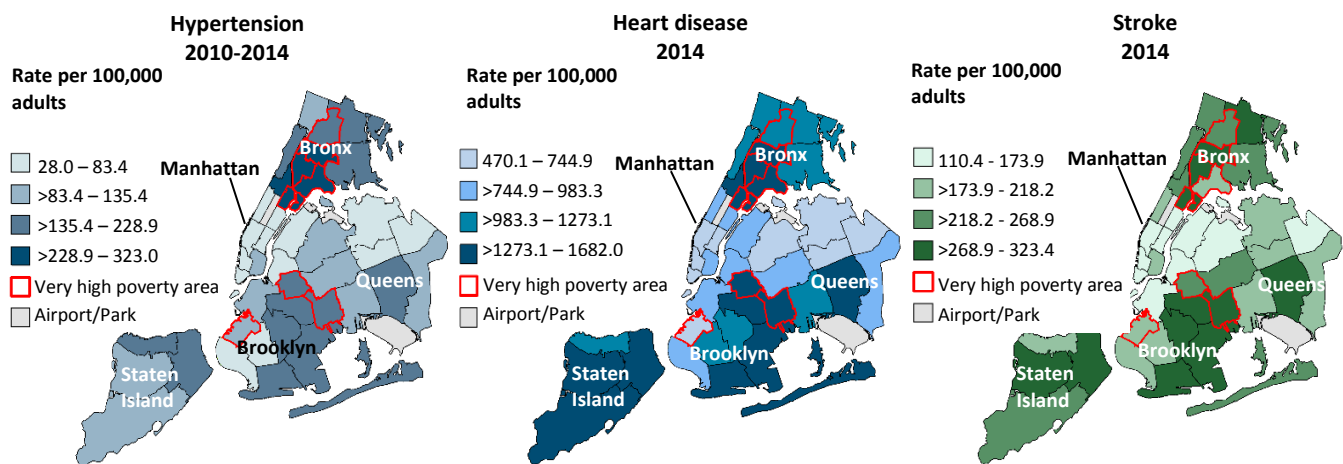
	Hypertension (2010-2014)	Heart disease (2014)	Stroke (2014)
Highest rates	1. Central Bronx	1. East Harlem	1. East Harlem
	2. Highbridge/Morrisania	2. Hunts Point/Mott Haven	2. Flatbush
	3. East Harlem	3. East New York/New Lots	3. Mid-Island
	4. Central Harlem	4. Coney Island	4. Canarsie and Flatlands
	5. Hunts Point/Mott Haven	5. Highbridge/Morrisania	5. Bedford Stuyvesant/Crown Heights
Lowest rates	38. Chelsea/Clinton	38. Fresh Meadows	38. West Queens
	39. Upper East Side	39. Flushing/Clearview	39. Gramercy Park/Murray Hill
	40. Lower Manhattan	40. Lower Manhattan	40. Greenpoint
	41. Greenwich Village/SoHo	41. Bayside/Little Neck	41. Greenwich Village/SoHo
	42. Bayside/Little Neck	42. Greenwich Village/Soho	42. Bayside/Little Neck

The United Hospital Fund classifies New York City into 42 neighborhoods comprised of contiguous ZIP codes.

Rates are not age-adjusted and do not account for neighborhood differences in age distribution.

Source: New York Statewide Planning and Research Cooperative System, Hypertension 2010-2014, Heart disease and Stroke 2014

Hypertension, heart disease, and stroke hospitalization rates among adults, New York City, 2010-2014



The United Hospital Fund (UHF) classifies New York City into 42 neighborhoods, comprised of contiguous ZIP codes. Red boundary indicates UHF neighborhoods where $\geq 30\%$ of residents have incomes below the federal poverty level. Rates are not age-adjusted and do not account for neighborhood differences in age distribution.

Source: Statewide Planning and Research Cooperative System, Hypertension 2010-2014, Heart disease and Stroke 2014

References

1. Gresia V, Chamany S, Lundy De La Cruz N, Jessup J, He F, Bartley K, Di Lonardo S, Deng WQ, Askari M. Hypertension in New York City: Disparities in Prevalence. New York City Department of Health and Mental Hygiene: Epi Data Brief (82); December 2016.
2. Measures of Care Coordination: Potentially Avoidable Hospitalizations. Content last reviewed May 2015. Agency for Healthcare Research and Quality, Rockville, MD. <http://www.ahrq.gov/research/findings/nhqrdr/2014chartbooks/carecoordination/carecoord-measures3.html>
3. Mozaffarian D et al. Heart Disease and Stroke Statistics—2016 Update: A report from the American Heart Association. *Circulation*, 2016; 133(4):e38-360.

Data Source:

New York Statewide Planning and Research Cooperative System (SPARCS) 2014 (2010-2014 for neighborhood-level hypertension hospitalizations)

SPARCS is an administrative database of all hospital discharges reported by New York State (NYS) hospitals to the NYS Department of Health. Diagnoses were coded according to the International Statistical Classification of Diseases and Related Health Problems-9th Revision framework.

Data notes: Data are age-adjusted to the US 2000 standard population, except for age-specific estimates and where crude estimates are noted. Use crude estimates when reporting prevalence for a specific population; use age-adjusted estimates when making comparisons between groups that may have varying age distribution.

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30%, or the 95% Confidence Interval's half-width is greater than 10, or the sample size is too small, making the estimate potentially unreliable.

Authored By: Victoria Gresia, Jillian Jessup, Fangtao He, Katherine Bartley, Steve Di Lonardo, Wen Qin Deng, Melanie Askari, Shadi Chamany

Acknowledgements: John Jasek, Shannon Farley

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Epi Data Tables

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Data Tables

- Table 1.** Hospitalizations for hypertension among New York City adults, 2014
- Table 2.** Hospitalizations for heart disease among New York City adults, 2014
- Table 3.** Hospitalizations for stroke among New York City adults, 2014
- Table 4.** Hospitalization rate for hypertension among New York City adults by United Hospital Fund neighborhoods, 2010-2014
- Table 5.** Hospitalization rates for heart disease or stroke among New York City adults by United Hospital Fund neighborhoods, 2014

Data Source

Statewide Planning and Research Cooperative System (SPARCS) 2014. SPARCS is an administrative database of all hospital discharges reported by New York State (NYS) hospitals to the NYS Department of Health. Diagnoses are coded according to the International Statistical Classification of Diseases and Related Health Problems-9th Revision framework. Rates are calculated using NYC Department of Health and Mental Hygiene population estimates, modified from US Census Bureau interpolated intercensal population estimates, 2000-2014. Updated October 2015.

Definitions

Household income is annual income from all sources. Categories: Lowest (<100% FPL), Low (100 - <200% FPL), Medium (200 - <400% FPL), High (400 - <600% FPL), Highest (>=600% FPL)

Hypertension: Primary diagnosis ICD9 = 401, 403, 405 (ICD10 = I10, I12, I15)

Heart disease: Primary diagnosis ICD9 = 390-398, 402, 404, 410-429 (ICD10 = I00-I09, I11, I13, I20-I51)

Stroke: Primary diagnosis ICD9 = 430-434, 436-438 (ICD10 = I60-69)

Hypertension, heart disease and stroke ICD9/10 inclusion codes obtained from: Centers for Disease Control and Prevention (CDC), Interactive Atlas for Heart Disease and Stroke Prevention, Division for Heart Disease and Stroke Prevention. <http://nccd.cdc.gov/DHDSPAtlas>. Hypertension inclusion codes were modified from CDC definition.



Table 1: Hospitalizations for hypertension among New York City adults, 2014

Source: Statewide Planning and Research Cooperative System (SPARCS) 2014.

Primary diagnosis ICD9 = 401, 403, 405 (ICD10 = I10, I12, I15).

Rates are calculated using NYC Department of Health and Mental Hygiene population estimates, modified from US Census Bureau interpolated intercensal population estimates, 2000-2014. Updated October 2015.

Data are age-adjusted to the US 2000 standard population where indicated.

	Overall			Men			Women		
	N	Crude rate	Age-adjusted rate	N	Crude rate	Age-adjusted rate	N	Crude Rate	Age-adjusted rate
Overall	7,990	119.2	119.2	3,763	120.0	124.6	4,227	118.5 ^U	113.3
Age group (years)									
18-44	1,159	33.0	N/A	631	36.9	N/A	528	29.2	N/A
45-64	3,428	164.1	N/A	1,887	192.2	N/A	1,541	139.3	N/A
65+	3,403	309.7	N/A	1,245	279.3	N/A	2,158	330.4	N/A
Borough									
Bronx	2,200	205.2	211.1	988	201.1	215.9	1,212	208.7	204.8
Brooklyn	2,447	121.5 ^D	124.5 ^D	1,114	119.4	127.6	1,333	123.3	120.7
Manhattan	1,370	98.1	100.2	671	103.1	109.4	699	93.8	91.0
Queens	1,511	81.6	78.8	760	85.8	86.0	751	77.8	71.2
Staten Island	462	125.3	113.9	230	131.2	122.8	232	120.0	105.4
Length of stay¹									
Mean	4.4	N/A	N/A	4.7	N/A	N/A	4.2	N/A	N/A
Median (IQR)	3 (3)	N/A	N/A	3 (4)	N/A	N/A	3 (3)	N/A	N/A
Range	58	N/A	N/A	58	N/A	N/A	57	N/A	N/A
Cumulative number of days	35,349	N/A	N/A	17,614	N/A	N/A	17,735	N/A	N/A

All rates are per 100,000 population.

IQR = Interquartile range

Use crude estimates when reporting prevalence for a specific population; use age-adjusted estimates when making comparisons between groups that may have varying age distribution.

¹ Length of stay calculated among 7,971 hospitalizations, the subset of 7,990 hospitalizations with a length of stay ≤60 days.

^D When rounding to the nearest whole number, round down.

^U When rounding to the nearest whole number, round up.

Table 2: Hospitalizations for heart disease among New York City adults, 2014

Source: Statewide Planning and Research Cooperative System (SPARCS) 2014.

Primary diagnosis ICD9 = 390-398, 402, 404, 410-429 (ICD10 = I00-I09, I11, I13, I20-I51).

Rates are calculated using NYC Department of Health and Mental Hygiene population estimates, modified from US Census Bureau interpolated intercensal population estimates, 2000-2014. Updated October 2015.

Data are age-adjusted to the US 2000 standard population where indicated.

	Overall			Men			Women		
	N	Crude rate	Age-adjusted rate	N	Crude rate	Age-adjusted rate	N	Crude rate	Age-adjusted rate
Overall	74,551	1,112.4	1,122.7	40,461	1,290.3	1,394.6	34,090	956.0	903.3
Age group (years)									
18-44	4,933	140.4	N/A	3,011	176.3	N/A	1,922	106.4	N/A
44-64	25,675	1,229.4	N/A	16,709	1,701.7	N/A	8,966	810.3	N/A
65+	43,943	3,998.9	N/A	20,741	4,653.3	N/A	23,202	3,552.4	N/A
Borough									
Bronx	14,043	1,309.9	1,372.6	7,249	1,475.2	1,667.9	6,794	1,170.0	1,149.1
Brooklyn	24,829	1,232.8	1,284.8	13,117	1,406.1	1,572.2	11,712	1,083.3	1,057.4
Manhattan	13,207	946.1	967.8	7,234	1,111.8	1,219.2	5,973	801.4	764.0
Queens	17,460	943.3	913.0	9,934	1,121.7	1,160.7	7,526	779.7	703.8
Staten Island	5,012	1,359.5 ^D	1,222.5 ^U	2,927	1,669.4	1,592.9	2,085	1,078.5 ^D	914.0
Length of stay¹									
Mean	5.4	N/A	N/A	5.2	N/A	N/A	5.6	N/A	N/A
Median (IQR)	4 (5)	N/A	N/A	3 (5)	N/A	N/A	4 (5)	N/A	N/A
Range	59	N/A	N/A	59	N/A	N/A	59	N/A	N/A
Cumulative number of days	400,775	N/A	N/A	211,609	N/A	N/A	189,166	N/A	N/A

All rates are per 100,000 population

IQR = Interquartile range

Use crude estimates when reporting prevalence for a specific population; use age-adjusted estimates when making comparisons between groups that may have varying age distribution.

¹ Length of stay calculated among 7,971 hospitalizations, the subset of 7,990 hospitalizations with a length of stay ≤60 days.

^D When rounding to the nearest whole number, round down.

^U When rounding to the nearest whole number, round up.

Table 3: Hospitalizations for stroke among New York City adults, 2014

Source: Statewide Planning and Research Cooperative System (SPARCS) 2014.

Primary diagnosis ICD9 = 430-434, 436-438 (ICD10 = I60-69).

Rates are calculated using NYC Department of Health and Mental Hygiene population estimates, modified from US Census Bureau interpolated intercensal population estimates, 2000-2014. Updated October 2015.

Data are age-adjusted to the US 2000 Standard Population where indicated.

	Overall			Men			Women		
	N	Crude rate	Age-adjusted rate	N	Crude rate	Age-adjusted rate	N	Crude rate	Age-adjusted rate
Overall	15,386	229.6	232.1	7,547	240.7	262.5 ^D	7,839	219.8	207.7
Age group (years)									
18-44	908	25.8	N/A	490	28.7	N/A	418	23.1	N/A
44-64	4,997	239.3	N/A	2,880	293.3	N/A	2,117	191.3	N/A
65+	9,481	862.8	N/A	4,177	937.1	N/A	5,304	812.1	N/A
Borough									
Bronx	2,729	254.5 ^U	267.8	1,286	261.7	300.9	1,443	248.5 ^D	243.8
Brooklyn	5,112	253.8	264.8	2,407	258.0	290.4	2,705	250.2	244.3
Manhattan	2,862	205.0	209.6	1,409	216.6	238.1	1,453	195.0	185.3
Queens	3,701	200.0	194.3	1,941	219.2	230.4	1,760	182.3	164.7
Staten Island	982	266.4	238.7	504	287.5 ^D	275.6	478	247.2	208.4
Length of stay¹									
Mean	7.1	N/A	N/A	7.1	N/A	N/A	7.1	N/A	N/A
Median (IQR)	5 (5)	N/A	N/A	5 (5)	N/A	N/A	5 (5)	N/A	N/A
Range	59	N/A	N/A	59	N/A	N/A	59	N/A	N/A
Cumulative number of days	108,405	N/A	N/A	52,971	N/A	N/A	55,434	N/A	N/A

All rates are per 100,000 population

IQR = Interquartile range

Use crude estimates when reporting prevalence for a specific population; use age-adjusted estimates when making comparisons between groups that may have varying age distribution.

¹ Length of stay calculated among 7,971 hospitalizations, the subset of 7,990 hospitalizations with a length of stay ≤60 days.^D When rounding to the nearest whole number, round down.^U When rounding to the nearest whole number, round up.

Table 4: Hospitalization rate for hypertension among New York City adults by United Hospital Fund neighborhoods, 2010-2014

Source: Statewide Planning and Research Cooperative System (SPARCS) 2010-2014.

Primary diagnosis ICD9 = 401, 403, 405 (ICD10 = I10, I12, I15).

Total population denominator: NYC Department of Health and Mental Hygiene Bureau of Epidemiology Services population estimate created June 2015.

Rates are calculated using NYC Department of Health and Mental Hygiene population estimates, modified from US Census Bureau interpolated intercensal population estimates, 2000-2014. Updated October 2015.

Data are age-adjusted to the US 2000 Standard Population where indicated.

		Hypertension			
	United Hospital Fund Neighborhood	Total Population (N)	N (5 year)	Crude rate	Age-adjusted rate
Bronx					
101	Kingsbridge/Riverdale	369,973	501	135.4	117.0
102	Northeast Bronx	745,523	1,625	218.0	200.0
103	Fordham/Bronx Park	946,700	2,167	228.9	257.6
104	Pelham/Throgs Neck	1,153,526	1,800	156.0	155.1
105	Central Bronx	743,078	2,400	323.0	372.4
106	Highbridge/Morrisania	755,475	2,419	320.2	355.8
107	Hunts Point/Mott Haven	495,031	1,256	253.7	285.3
Brooklyn					
201	Greenpoint	504,766	387	76.7	103.9
202	Downtown Brooklyn/Heights/Slope	934,132	949	101.6	128.5 ^U
203	Bedford Stuyvesant/Crown Heights	1,226,310	2,715	221.4	237.1
204	East New York/New Lots	680,135	1,239	182.2	196.4
205	Sunset Park	509,244	505	99.2	122.0
206	Borough Park	1,230,982	1,027	83.4	85.3
207	Flatbush	1,162,805	2,012	173.0	169.8
208	Canarsie and Flatlands	764,905	1,263	165.1	155.3
209	Bay Ridge/Bensonhurst	877,082	713	81.3	75.2
210	Coney Island	1,204,859	1,836	152.4	126.7
211	Williamsburg/Bushwick	788,750	1,485	188.3	224.5 ^U
Manhattan					
301	Washington Heights/Inwood	1,026,255	1,851	180.4	192.3
302	Central Harlem	658,204	1,702	258.6	290.6
303	East Harlem	438,314	1,171	267.2	279.5 ^D
304	Upper West Side	957,766	652	68.1	61.1
305	Upper East Side	968,403	537	55.5 ^D	50.6
306	Chelsea/Clinton	679,201	399	58.7	66.7
307	Gramercy Park/Murray Hill	629,468	395	62.8	67.2
308	Greenwich Village/SoHo	381,291	127	33.3	37.6
309	Lower East Side	890,974	873	98.0	104.0
310	Lower Manhattan	237,122	94	39.6	61.8
Queens					
401	Long Island City/Astoria	908,301	684	75.3	87.6
402	West Queens	1,985,315	1,918	96.6	107.0
403	Flushing/Clearview	1,102,606	721	65.4	56.5 ^U
404	Bayside/Little Neck	361,004	101	28.0	23.1
405	Ridgewood/Forest Hills	997,827	924	92.6	85.9
406	Fresh Meadows	385,994	280	72.5	68.0
407	Southwest Queens	1,043,683	1,102	105.6	106.8
408	Jamaica	1,143,330	1,834	160.4	157.7
409	Southeast Queens	786,945	918	116.7	105.6
410	The Rockaways	425,022	834	196.2	185.7
Staten Island					
501	Port Richmond	257,266	448	174.1	181.9
502	Stapleton/St. George	484,667	910	187.8	178.7
503	Mid-Island	340,799	433	127.1	112.2
504	South Beach	740,593	819	110.6	99.7

All rates are per 100,000 population.

Weighted N population estimates are rounded to the nearest 1,000.

Use crude estimates when reporting prevalence for a specific population; use age-adjusted estimates when making comparisons between groups that may have varying age distribution.

The United Hospital Fund (UHF) classifies New York City into 42 neighborhoods comprised of contiguous ZIP codes.

^D When rounding to the nearest whole number, round down.^U When rounding to the nearest whole number, round up.

Table 5: Hospitalization rates for heart disease or stroke among New York City adults by United Hospital Fund neighborhoods, 2014

Source: Statewide Planning and Research Cooperative System (SPARCS) 2014.

Primary diagnosis heart disease ICD9 = 390-398, 402, 404, 410-429 (ICD10 = I00-I09, I11, I13, I20-I51); stroke ICD9 = 430-434, 436-438 (ICD10 = I60-69).

Total population denominator: NYC Department of Health and Mental Hygiene Bureau of Epidemiology Services population estimate created June 2015.

Rates are calculated using NYC Department of Health and Mental Hygiene population estimates, modified from US Census Bureau interpolated intercensal population estimates, 2000-2014. Updated October 2015.

Data are age-adjusted to the US 2000 Standard Population where indicated.

United Hospital Fund Neighborhood	Total Population (N)	Heart disease			Stroke			
		N (5 year)	Crude rate	Age-adjusted rate	N (5 year)	Crude rate	Age-adjusted rate	
Bronx								
101	Kingsbridge/Riverdale	74,330	899	1,209.5 ^D	966.8	195	262.3	208.3
102	Northeast Bronx	152,040	1,929	1,268.7	1,112.2	426	280.2	244.5 ^D
103	Fordham/Bronx Park	194,552	2,149	1,104.6	1,295.3	469	241.1	286.5 ^D
104	Pelham/Throgs Neck	235,336	2,996	1,273.1	1,259.3	540	229.5 ^D	227.7
105	Central Bronx	153,301	2,125	1,386.2	1,663.9	443	289.0	349.4
106	Highbridge/Morrisania	155,825	2,319	1,488.2	1,661.2	433	277.9	315.3
107	Hunts Point/Mott Haven	102,455	1,623	1,584.1	1,815.1	221	215.7	248.1
Brooklyn								
201	Greenpoint	103,072	927	899.4	1,316.3	148	143.6	203.7
202	Downtown Brooklyn/Heights/Slope	192,086	1,793	933.4	1,217.9	334	173.9	225.8
203	Bedford Stuyvesant/Crown Heights	248,586	3,630	1,460.3	1,590.2	753	302.9	329.8
204	East New York/New Lots	137,735	2,149	1,560.2	1,709.8	388	281.7	310.9
205	Sunset Park	105,457	783	742.5 ^D	971.4	209	198.2	258.8
206	Borough Park	251,604	2,758	1,096.2	1,125.5 ^U	549	218.2	224.4
207	Flatbush	235,961	2,895	1,226.9	1,201.6	751	318.3	312.1
208	Canarsie and Flatlands	154,638	2,149	1,389.7	1,275.8	469	303.3	280.8
209	Bay Ridge/Bensonhurst	179,877	1,738	966.2	886.0	391	217.4	199.4
210	Coney Island	244,766	3,757	1,534.9	1,239.2	713	291.3	235.7
211	Williamsburg/Bushwick	160,244	2,201	1,373.5 ^U	1,698.0	374	233.4	290.9
Manhattan								
301	Washington Heights/Inwood	208,715	2,366	1,133.6	1,216.3	538	257.8	276.6
302	Central Harlem	132,756	1,827	1,376.2	1,579.9	357	268.9	316.2
303	East Harlem	89,063	1,498	1,682.0	1,761.3	288	323.4	339.4
304	Upper West Side	193,477	1,748	903.5 ^D	781.5 ^U	398	205.7	177.5 ^D
305	Upper East Side	195,650	1,571	803.0	675.8	331	169.2	144.3
306	Chelsea/Clinton	137,074	1,021	744.9	861.5 ^D	219	159.8	186.0
307	Gramercy Park/Murray Hill	126,624	888	701.3	715.4	197	155.6	157.2
308	Greenwich Village/SoHo	77,009	362	470.1	534.5 ^D	90	116.9	133.5 ^D
309	Lower East Side	180,857	1,590	879.1	911.3	354	195.7	202.6
310	Lower Manhattan	47,867	301	628.8	992.2	80	167.1	265.6
Queens								
401	Long Island City/Astoria	183,452	1,548	843.8	992.5 ^U	304	165.7	196.5 ^D
402	West Queens	406,522	2,874	707.0	792.4	642	157.9	177.8
403	Flushing/Clearview	226,798	1,537	677.7	565.6	452	199.3	165.8
404	Bayside/Little Neck	73,356	346	471.7	380.0	81	110.4	90.2
405	Ridgewood/Forest Hills	200,753	1,974	983.3	898.5	456	227.1	208.2
406	Fresh Meadows	78,519	550	700.5 ^D	633.2	158	201.2	182.9
407	Southwest Queens	212,827	2,597	1,220.2	1,243.8	447	210.0	217.6
408	Jamaica	233,763	3,203	1,370.2	1,316.1	653	279.3	271.3
409	Southeast Queens	160,509	1,556	969.4	853.1	296	184.4	161.6
410	The Rockaways	85,476	1,194	1,396.9	1,277.7	201	235.2	214.4
Staten Island								
501	Port Richmond	52,446	608	1,159.3	1,252.8	108	205.9	214.9
502	Stapleton/St. George	98,566	1,420	1,440.7	1,325.4	286	290.2	265.0
503	Mid-Island	69,111	980	1,418.0	1,177.6	214	309.6	258.0
504	South Beach	148,543	2,003	1,348.4	1,166.6	373	251.1	216.4

All rates are per 100,000 population.

Weighted N population estimates are rounded to the nearest 1,000.

Use crude estimates when reporting prevalence for a specific population; use age-adjusted estimates when making comparisons between groups that may have varying age distribution.

^D When rounding to the nearest whole number, round down.

^U When rounding to the nearest whole number, round up.