



Epi Data Brief

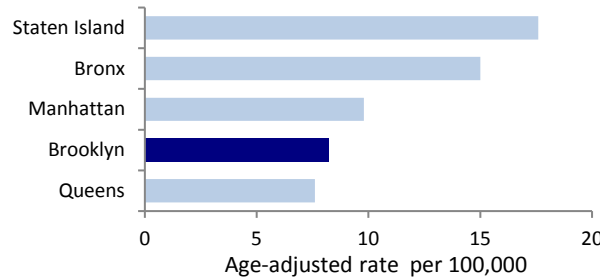
New York City Department of Health and Mental Hygiene

December 2015, No. 62

Unintentional Drug Poisoning (Overdose) Deaths in New York City: Brooklyn, New York

- In 2013, among residents of the five boroughs of New York City (NYC), those in the borough of Brooklyn had the second-lowest rate of unintentional drug poisoning (overdose) deaths (8.2 per 100,000 residents).¹
- The rate of unintentional overdose deaths in Brooklyn decreased by 35% from 11.2 per 100,000 in 2006 to 7.3 per 100,000 residents in 2010. Since 2010, rates increased to 8.2 per 100,000 residents in 2013.

Unintentional overdose deaths by borough of residence, New York City, 2013



Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2000-2013

Data Source

¹NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics:

Mortality data were collected through an in-depth review of data and charts from DOHMH's Bureau of Vital Statistics and the Office of the Chief Medical Examiner for 2000-2013.

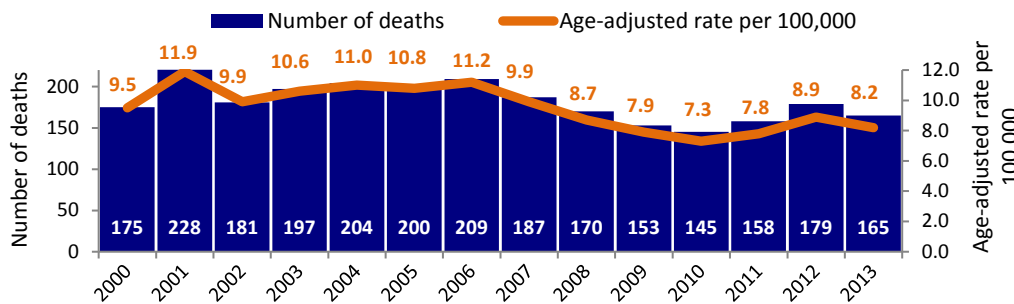
Definitions:

Rate calculation: NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates 2000-2013, updated October 8, 2014. These rates will differ from previously reported rates based on Census counts or previous versions of population estimates. Rates are age-adjusted to Census 2000 US standard population, except those for specific age groups.

Unintentional drug poisoning deaths referred to as overdose deaths:

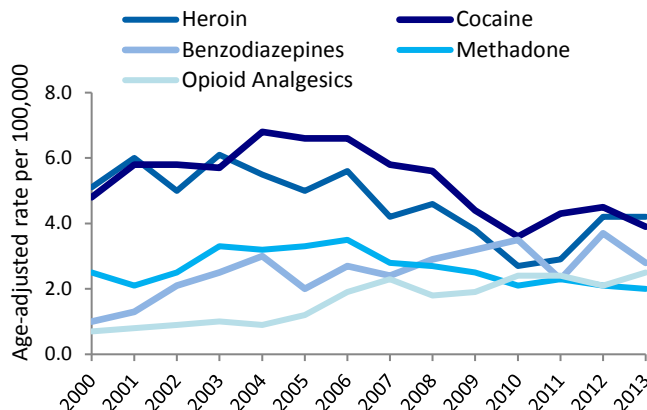
Derived from death certificates and includes deaths from both illicit drugs and licit drugs. Excludes drug poisonings where the manner of death was intentional (suicide), undetermined, or homicide. Toxicology findings were abstracted from OCME files. Drugs are not mutually exclusive.

Unintentional overdose deaths among Brooklyn residents, 2000-2013



Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2000-2013

Unintentional overdose deaths among Brooklyn residents, by drug involved, 2000-2013



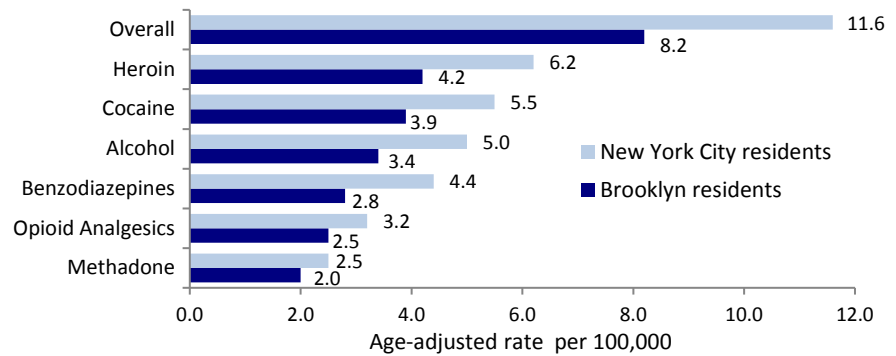
Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2000-2013

- Since 2004, the rate of cocaine-involved overdose deaths among Brooklyn residents decreased by 43% from 6.8 per 100,000 to 3.9 per 100,000 residents in 2013.
- Heroin-involved overdose rates increased by 56% from 2.7 per 100,000 in 2010 to 4.2 per 100,000 in 2013.
- The rate of opioid analgesic-involved overdose deaths increased by 257% from 0.7 per 100,000 in 2000 to 2.5 per 100,000 residents in 2013.

Unintentional drug overdose deaths among Brooklyn residents, 2013

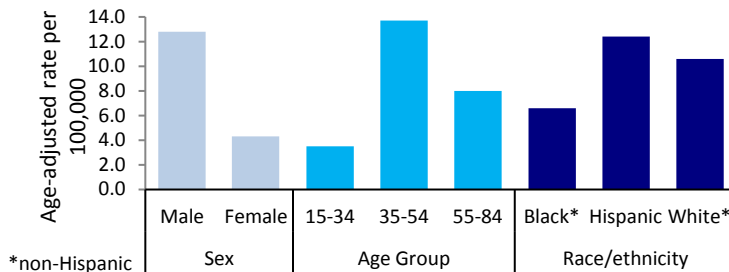
- In 2013, Brooklyn residents had a lower rate of unintentional overdose death compared with NYC overall.
- Heroin was involved in over half (51%) of overdose deaths among Brooklyn residents. Two out of five overdose deaths involved cocaine (45%) or alcohol (41%).
- About one-third of overdose deaths involved a benzodiazepine (35%), or an opioid analgesic (31%).

Unintentional overdose deaths by drug type and residence, 2013



Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

Unintentional overdose deaths among Brooklyn residents, by demographic characteristics, 2013

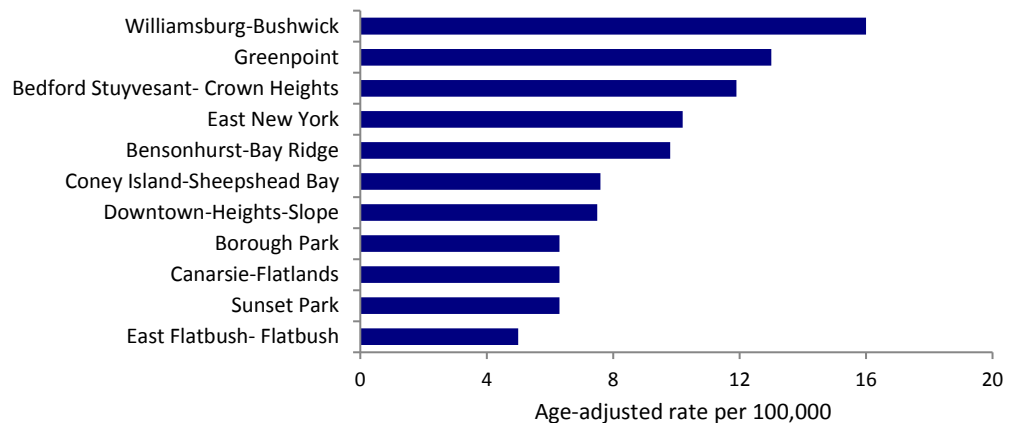


*non-Hispanic
Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

- Male Brooklyn residents had almost three times the rate of unintentional overdose death as female Brooklyn residents (12.8 in males compared with 4.3 per 100,000 in females).
- Brooklyn residents aged 35-54 years had the highest rate of unintentional drug overdose death (13.7 per 100,000), and account for over half of the overdose deaths (56%).
- While the majority of overdose deaths occurred among White Brooklyn residents (44%), Hispanic Brooklyn residents had the highest rate of unintentional drug overdose death (12.4 per 100,000) in 2013.

- In 2012-2013, residents of Williamsburg-Bushwick had the highest rate of drug overdose in Brooklyn (16.0 per 100,000). Residents of four Brooklyn neighborhoods had a higher rate of drug overdose than NYC residents overall (9.9 per 100,000 residents in 2012-2013).

Unintentional overdose deaths among Brooklyn residents by UHF-42* neighborhood, 2012-2013



*The United Hospital Fund (UHF) classifies New York City into 42 neighborhoods comprised of contiguous ZIP codes.
Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2012-2013

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Epi Data Tables

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Data Tables

- Table 1.** Number and rate of unintentional drug poisoning (overdose) deaths, Brooklyn residents, New York City, 2010-2013
- Map 1.** Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) by neighborhood of residence, 2012-2013

Data Sources

Bureau of Vital Stastics/Office of the Chief Medical Examiner: Mortality data were collected through an in-depth review of data and charts from the Health Department's Bureau of Vital Statistics and the Office of the Chief Medical Examiner for 2000-2013. Methadone is reported separately and not included in opioid analgesic analyses.

Rate Calculation: NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates 2000-2013, updated October 8, 2014. These rates will differ from previously reported rates based on Census counts or previous versions of population estimates. Rates are age-adjusted to Census 2000, except those for specific age groups.



Table 1. Number and rate of unintentional drug poisoning (overdose) deaths, Brooklyn residents, New York City, 2010-2013

Source: Bureau of Vital Statistics/Office of the Chief Medical Examiner, New York City; Rates calculated using NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates, 2010-2013. Updated October 8th 2014. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.

Rates per 100,000 New Yorkers are age adjusted, except those for specific age groups.

	2010			2011			2012			2013		
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate
Total Unintentional Drug Poisoning Deaths	145	100%	7.3	158	100%	7.8	179	100%	8.9	165	100%	8.2
Gender												
Male	96	66%	10.4	115	73%	12.2	142	79%	14.8	120	73%	12.8
Female	49	34%	4.6	43	27%	4.0	37	21%	3.7	45	27%	4.3
Race/Ethnicity*												
Black (non-Hispanic)	41	29%	6.2	48	31%	6.9	53	30%	7.9	45	28%	6.6
Hispanic	32	23%	8.9	35	23%	9.6	39	22%	10.1	46	28%	12.4
White (non-Hispanic)	66	47%	9.5	72	46%	10.2	83	47%	12.4	71	44%	10.6
Age (years)												
15-34	37	26%	4.6	43	27%	5.4	50	28%	6.2	28	17%	3.5
35-54	80	55%	11.8	84	53%	12.5	95	53%	14.1	93	56%	13.7
55-84	28	19%	5.3	31	20%	5.9	34	19%	6.3	44	27%	8.0
Drug Type[†]												
Alcohol	69	48%	3.4	70	44%	3.5	81	45%	4.1	68	41%	3.4
Benzodiazepines	69	48%	3.5	47	30%	2.3	71	40%	3.7	57	35%	2.8
Cocaine	73	50%	3.6	87	55%	4.3	90	50%	4.5	75	45%	3.9
Heroin	55	38%	2.7	58	37%	2.9	84	47%	4.2	84	51%	4.2
Methadone	41	28%	2.1	46	29%	2.3	42	23%	2.1	40	24%	2.0
Opioid Analgesics	46	32%	2.4	48	30%	2.4	40	22%	2.1	51	31%	2.5
UHF-42 neighborhood[‡]												
			2010-2011						2012-2013			
		Number			Rate			Number		Rate		
Greenpoint		15			8.1			26		13.0		
Downtown-Heights-Slope		27			7.8			26		7.5		
Bed Stuy-Crown Hgts		53			10.9			69		11.9		
East New York		25			9.1			29		10.2		
Sunset Park		13			6.0			14		6.3		
Borough Park		18			3.7			32		6.3		
East Flatbush-Flatbush		16			3.4			24		5.0		
Canarsie-Flatlands		23			7.2			18		6.3		
Bensonhurst-Bay Ridge		31			9.2			33		9.8		
Coney Island- Sheepshead Bay		38			8.1			33		7.6		
Williamsburg-Bushwick		42			14.0			47		16.0		

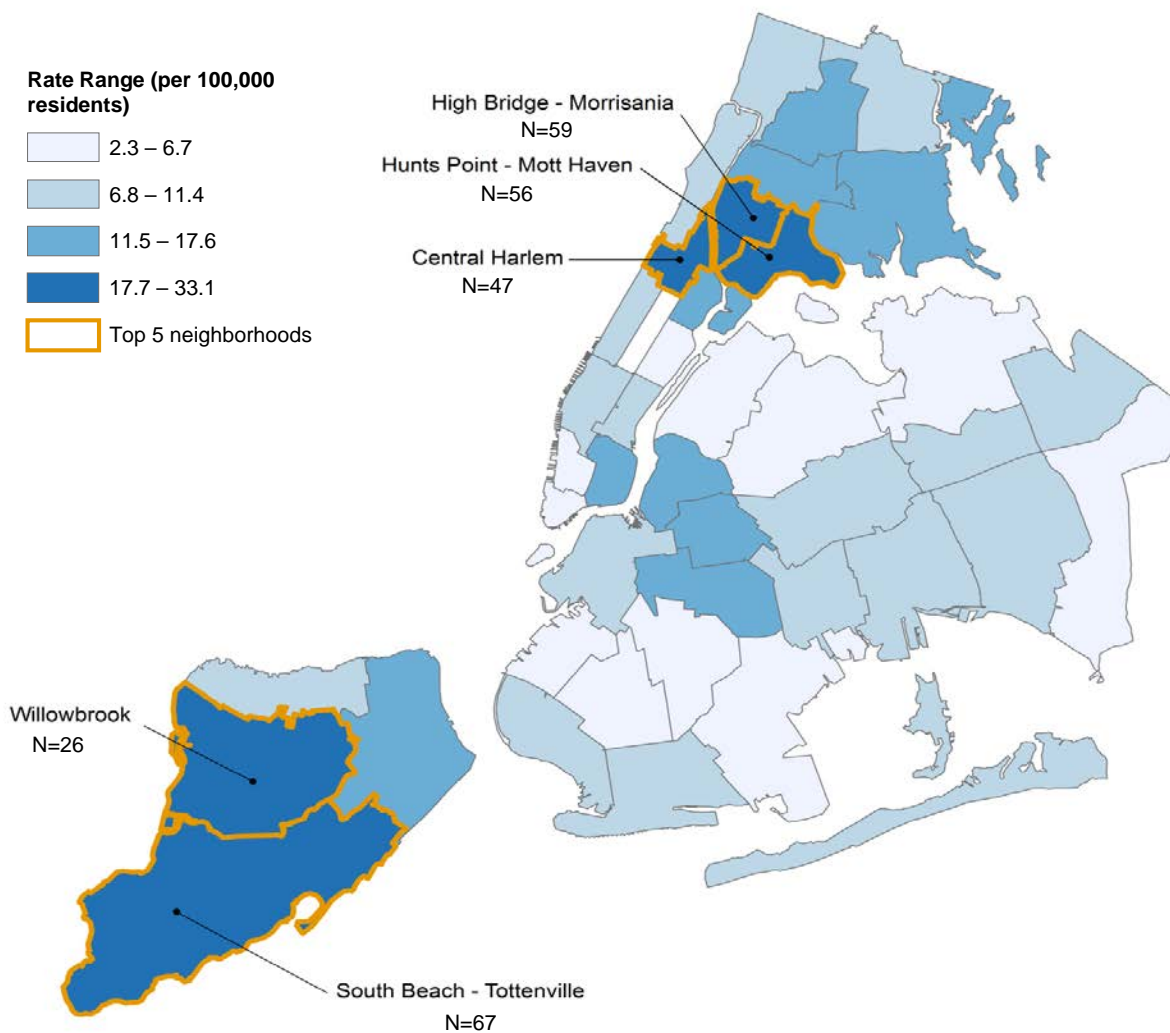
* Percentage of deaths within subgroup calculated among categories presented.

† Drug Type, not mutually exclusive; percent will not equal 100%.

‡ By UHF-42 Neighborhood, number is the total across two years and rate is the average across two years.

Map 1. Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) deaths by neighborhood* of residence, 2012-2013

Source: Bureau of Vital Statistics/Office of the Chief Medical Examiner, New York City; Rates calculated using NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates, 2013. Updated October 8, 2014. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.



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