



Epi Data Brief

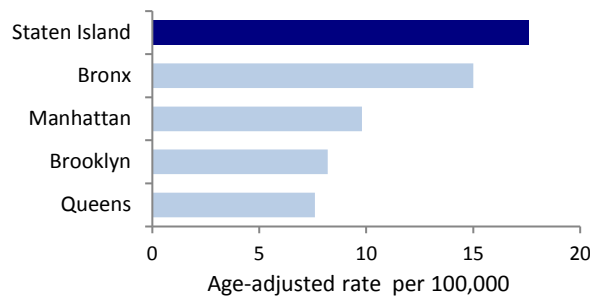
New York City Department of Health and Mental Hygiene

December 2015, No. 65

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

- In 2013, among residents of the five boroughs of New York City (NYC), those in the borough of Staten Island had the highest rate of unintentional drug poisoning (overdose) deaths (17.6 per 100,000 residents).¹
- Rates of unintentional overdoses deaths in Staten Island increased by 138% from 7.4 per 100,000 residents in 2000 to 17.6 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, 2013

Data Source

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

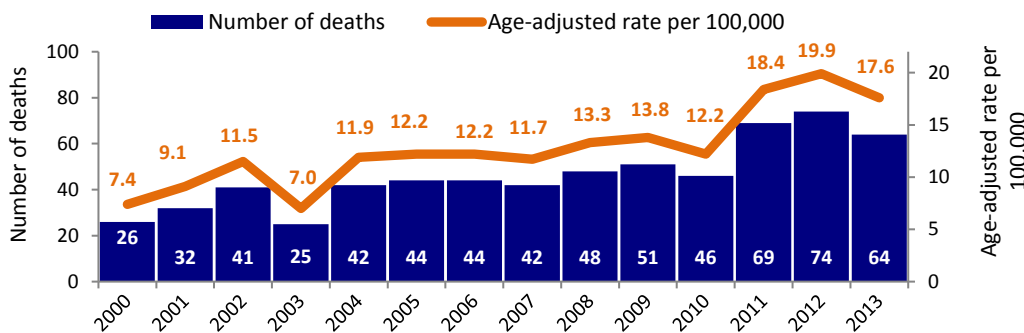
Mortality data were collected through an in-depth review of data and charts from DOHMH's Bureau of Vital Statistics and the Office of the Chief Medical Examiner for 2000-2013.

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.

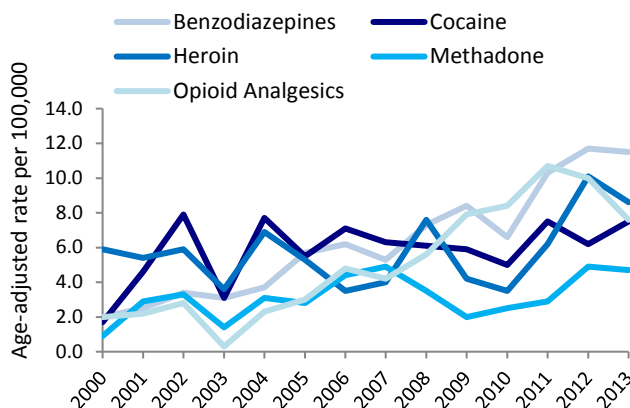
Unintentional drug poisoning deaths referred to as overdose deaths: Derived from death certificates and includes deaths from both illicit drugs and licit drugs. Excludes drug poisonings where the manner of death was intentional (suicide), undetermined, or homicide. Toxicology findings were abstracted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

Unintentional overdose deaths among Staten Island residents, 2000–2013



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

Unintentional overdose deaths among Staten Island residents, by drug-involved, 2000–2013



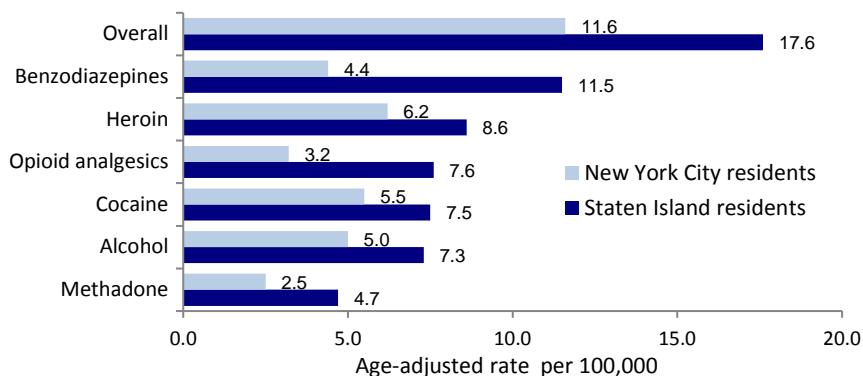
Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2000–2013

- The benzodiazepine-involved overdose death rate among Staten Island residents increased 475% from 2.0 in 2000 to 11.5 per 100,000 in 2013.
- Rates of overdose deaths involving opioid analgesics increased 280% from 2.0 in 2000 to 7.6 per 100,000 residents in 2013.
- Heroin-involved overdose death rates among Staten Islanders increased 155% from 3.5 per 100,000 in 2010 to 8.6 per 100,000 residents in 2013.

Unintentional drug overdose deaths among Staten Island residents, 2013

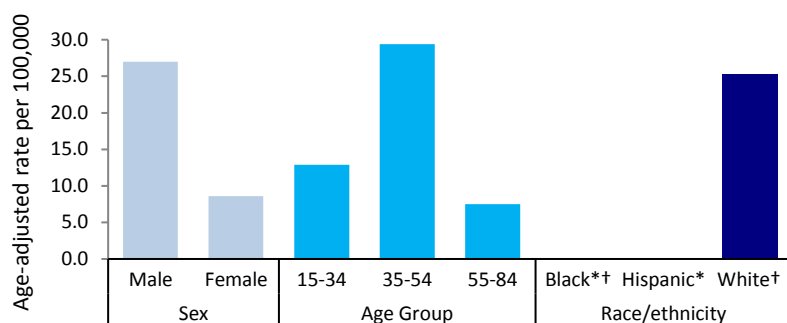
- In 2013, benzodiazepines were the most common drug involved in overdose deaths among Staten Islanders (64%). Other drugs included heroin (50%), or opioid analgesics (44%).
- The rate of benzodiazepine involved overdose death was almost three times higher among Staten Islanders than NYC overall (11.5 per 100,000 residents compared to 4.4 per 100,000 residents).

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 Staten Island residents, by demographic characteristics, 2013

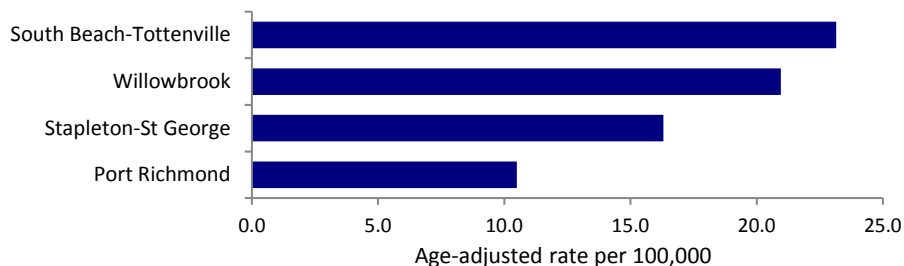


* Data censored due to small number of events †non-Hispanic
Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

- In 2013, the rate of unintentional drug overdose was three times higher for males than females (27.0 per 100,000 in males compared with 8.6 per 100,000 in females) in Staten Island.
- In Staten Island, residents aged 35-54 years had the highest rate of drug overdose deaths (29.4 per 100,000), over two-times the rates in residents aged 15-34 years (12.9 per 100,000).
- Among Staten Island residents, almost all overdose deaths occurred among White residents. The rate of unintentional drug overdose deaths among White residents was 25.2 per 100,000.

- In 2012-2013, residents of South Beach-Tottenville had the highest rates of drug overdose in Staten Island (23.2 per 100,000), followed by Willowbrook (21.0 per 100,000).
- Residents of all four Staten Island neighborhoods had higher rates of drug overdose than NYC residents overall (9.9 per 100,000 residents in 2012-2013).

Unintentional overdose deaths among Staten Island 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, Staten Island 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 Statistics/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, Staten Island 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	46	100%	12.2	69	100%	18.4	74	100%	19.9	64	100%	17.6
Gender												
Male	30	65%	16.5	44	64%	24.7	48	65%	26.8	47	73%	27.0
Female	16	35%	8.0	25	36%	12.3	26	35%	13.2	17	27%	8.6
Race/Ethnicity^{1*}												
Black (non-Hispanic)	X	X	X	6	9%	16.0	8	11%	22.3	X	X	X
Hispanic	X	X	X	8	12%	13.6	9	12%	14.9	X	X	X
White (non-Hispanic)	35	76%	14.7	54	78%	22.8	56	76%	23.9	57	89%	25.2
Age (years)												
15-34	10	22%	8.0	19	28%	15.3	19	26%	15.4	16	25%	12.9
35-54	28	61%	20.4	39	57%	28.7	40	54%	29.9	39	61%	29.4
55-84	8	17%	7.2	11	16%	9.7	15	20%	12.8	9	14%	7.5
Drug Type[†]												
Alcohol	20	43%	5.2	28	41%	7.7	26	35%	6.8	28	44%	7.3
Benzodiazepines	24	52%	6.6	38	55%	10.3	42	57%	11.7	41	64%	11.5
Cocaine	19	41%	5.0	27	39%	7.5	23	31%	6.2	26	41%	7.5
Heroin	14	30%	3.5	22	32%	6.2	36	49%	10.1	32	50%	8.6
Methadone	9	20%	2.5	11	16%	2.9	18	24%	4.9	16	25%	4.7
Opioid Analgesics	31	67%	8.4	40	58%	10.7	37	50%	10	28	44%	7.6
UHF-42 neighborhood[‡]		2010-2011				2012-2013						
		Number		Rate		Number		Rate				
Port Richmond		14		12.4		12		10.5				
Stapleton-St George		40		20.1		33		16.3				
Willowbrook		18		14.8		26		21.0				
South Beach-Tottenville		43		14.5		67		23.2				

1. Data censored with "X" due to small number of events.

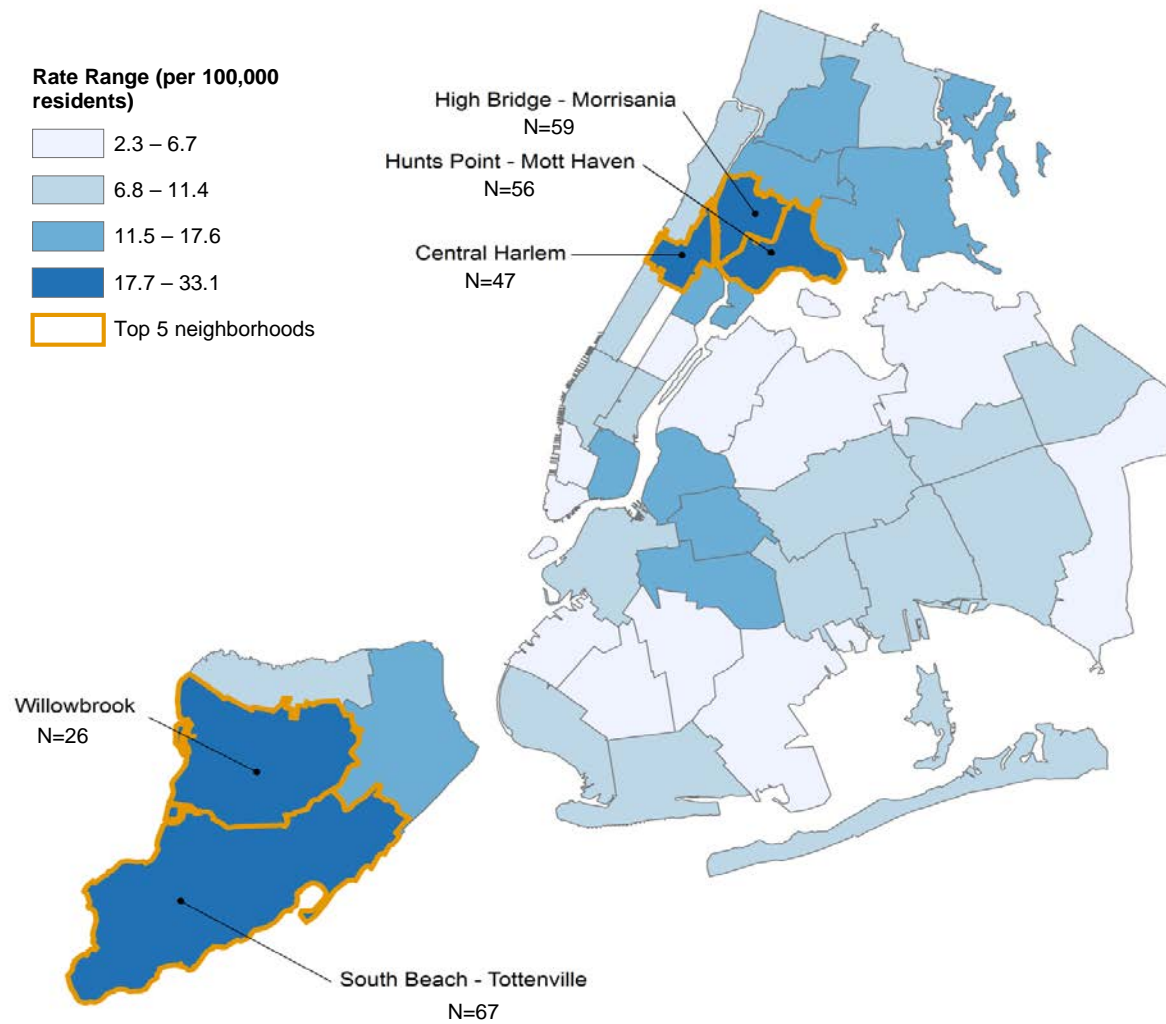
*Percentage of deaths within subgroup calculated among categories presented.

† 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



[*The United Hospital Fund \(UHF\) classifies New York City into 42 neighborhoods, comprised of contiguous ZIP codes.](#)