



# Epi Data Tables

New York City Department of Health and Mental Hygiene

August 2016, No. 74

## Unintentional Drug Poisoning (Overdose) Deaths Involving Heroin and/or Fentanyl in New York City, 2012-2015

### Data Tables

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### Data Sources

**NYC 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 the Health Department's Bureau of Vital Statistics and the Office of the Chief Medical Examiner for 2000-2015. Data for 2015 are provisional and subject to change.

**Rate Calculation:** NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates 2000-2014, updated October 2015. 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.

**Neighborhood poverty** is based on ZIP code and is defined as the percentage of residents with incomes below 100% of the Federal Poverty Level, per American Community Survey 2007-2011, in four groups: low (<10%), medium (10 %-< 20%), high (20 %-< 30%), and very high (>=30%).

To access the related Epi Data Brief, go to [www1.nyc.gov/assets/doh/downloads/pdf/epi/databrief74.pdf](http://www1.nyc.gov/assets/doh/downloads/pdf/epi/databrief74.pdf)



**Table 1. Number and rate of unintentional drug poisoning (overdose) deaths, New York City, 2012-2015\***

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 2000-2014 updated October 2015. 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.

	2012			2013			2014			2015*		
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate
<b>Total Unintentional Drug Poisoning Deaths</b>	<b>730</b>	<b>100%</b>	<b>10.9</b>	<b>788</b>	<b>100%</b>	<b>11.6</b>	<b>800</b>	<b>100%</b>	<b>11.7</b>	<b>937</b>	<b>100%</b>	<b>13.6</b>
<b>Gender</b>												
Male	534	73%	16.6	570	72%	17.7	589	74%	18.1	705	75%	21.5
Female	196	27%	5.7	218	28%	6.1	211	26%	5.8	232	25%	6.5
<b>Race/Ethnicity<sup>†</sup></b>												
Black (non-Hispanic)	180	25%	11.6	172	23%	10.6	170	22%	10.4	178	20%	10.9
Hispanic	192	27%	10.4	222	30%	12.0	208	27%	11.2	310	34%	16.4
White (non-Hispanic)	336	47%	15.6	358	48%	16.4	387	51%	17.5	414	46%	19.1
<b>Age (years)</b>												
15-24	48	7%	4.2	45	6%	4.0	51	6%	4.6	71	8%	6.5
25-34	140	19%	9.6	137	17%	9.2	166	21%	11.0	195	21%	12.9
35-44	158	22%	13.5	159	20%	13.5	165	21%	14.0	182	19%	15.4
45-54	245	34%	22.0	251	32%	22.5	232	29%	20.8	277	30%	24.8
55-64	122	17%	13.0	163	21%	17.1	151	19%	15.5	177	19%	18.2
65-84	17	2%	1.9	33	4%	3.6	35	4%	3.7	35	4%	3.7
<b>Age (years-collapsed)</b>												
15-34	188	26%	7.2	182	23%	7.0	217	27%	8.3	266	28%	10.2
35-54	403	55%	17.6	410	52%	17.9	397	50%	17.3	459	49%	20.0
55-84	139	19%	7.6	196	25%	10.4	186	23%	9.7	212	23%	11.1
<b>Borough of Residence<sup>†</sup></b>												
Bronx	171	26%	16.0	162	24%	14.9	170	24%	15.5	252	30%	22.6
Brooklyn	179	27%	8.9	165	25%	8.2	195	28%	9.6	223	27%	10.8
Manhattan	131	20%	9.8	136	20%	9.7	141	20%	10.4	145	17%	10.8
Queens	105	16%	5.5	145	22%	7.5	131	18%	6.8	144	17%	7.5
Staten Island	74	11%	19.9	64	10%	17.6	74	10%	20.6	69	8%	19.2
<b>Borough of Death</b>												
Bronx	175	24%	16.5	184	23%	17.1	182	23%	16.6	273	29%	24.4
Brooklyn	188	26%	9.4	197	25%	9.8	220	28%	10.8	258	28%	12.5
Manhattan	172	24%	12.8	191	24%	13.8	184	23%	13.4	187	20%	13.9
Queens	120	16%	6.4	152	19%	7.9	141	18%	7.3	150	16%	7.8
Staten Island	75	10%	20.1	64	8%	17.5	73	9%	20.2	69	7%	19.2
<b>Neighborhood Poverty<sup>†0</sup></b>												
Low (wealthiest)	119	18%	8.6	147	22%	10.6	143	20%	10.4	135	16%	9.8
Medium	194	29%	7.5	183	27%	7.1	208	29%	8.1	247	30%	9.4
High	164	25%	10.5	160	24%	10.0	169	24%	10.6	211	25%	13.4
Very High	182	28%	16.1	181	27%	15.8	189	27%	16.3	240	29%	20.1
<b>Drug Type**</b>												
Alcohol	316	43%	4.7	342	43%	5.0	359	45%	5.2	372	40%	5.4
Benzodiazepines	278	38%	4.2	298	38%	4.4	301	38%	4.4	370	39%	5.4
Cocaine	348	48%	5.2	364	46%	5.4	326	41%	4.7	394	42%	5.7
Heroin	382	52%	5.7	424	54%	6.2	460	57%	6.7	556	59%	8.0
Methadone	184	25%	2.7	169	21%	2.5	127	16%	1.8	152	16%	2.2
Opioid Analgesics <sup>††</sup>	192	26%	2.9	213	27%	3.1	200	25%	3.0	214	23%	3.1
<b>Top 5 NYC Neighborhoods<sup>^</sup></b>	<b>2012-2013 Rate</b>						<b>2014-2015* Rate</b>					
	Hunts Point-Mott Haven			28.1			Hunts Point-Mott Haven			30.0		
	South Beach-Tottenville			23.2			South Beach-Tottenville			24.9		
	Willowbrook			21.0			Crotona-Tremont			24.4		
	Highbridge-Morrisania			19.0			East Harlem			23.8		
	Central Harlem			18.8			Highbridge-Morrisania			22.2		

\*Data for 2015 are provisional and are subject to change.

†Percentage of deaths within subgroup are calculated among categories presented.

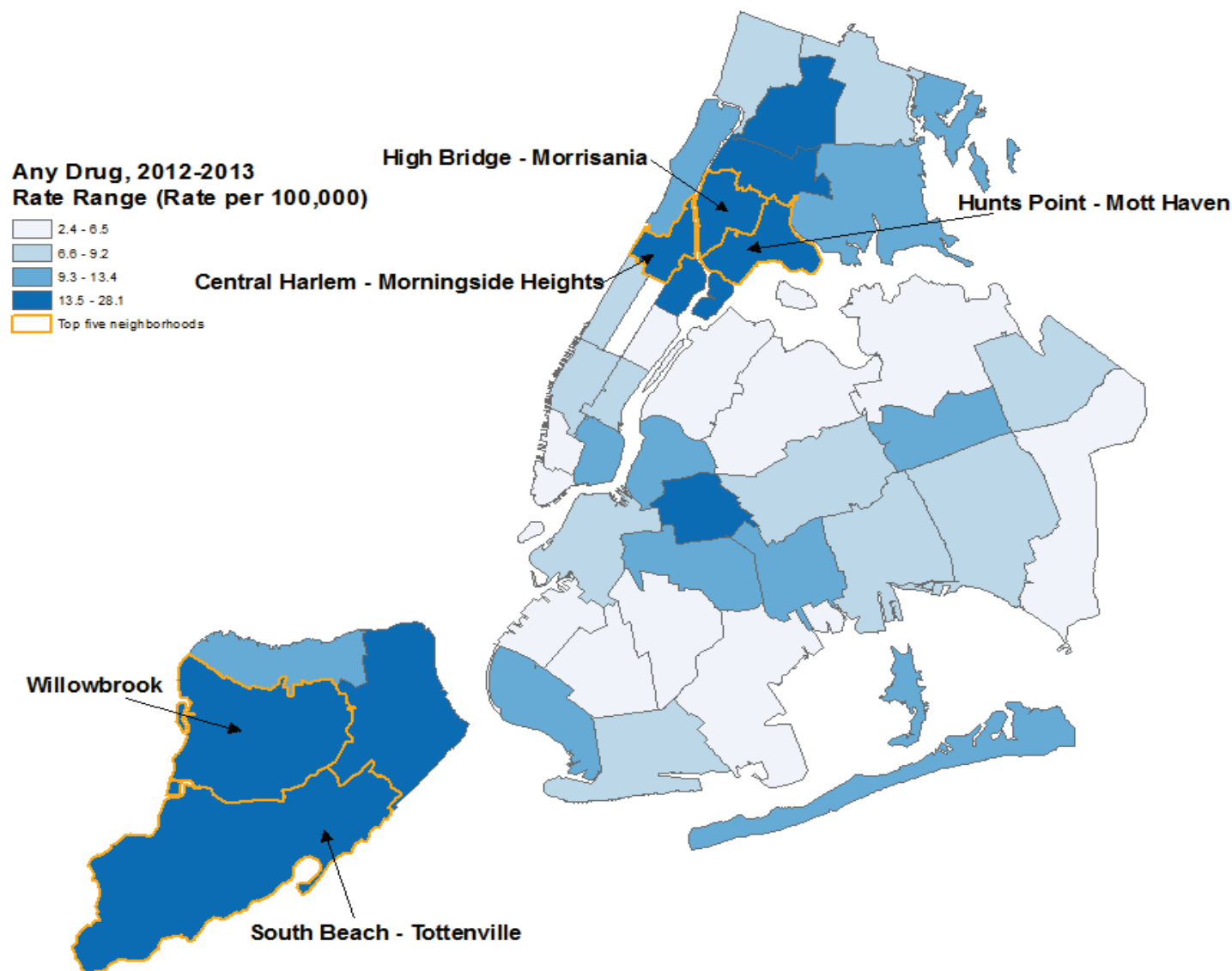
0 Neighborhood poverty (based on ZIP code) was defined as percent of residents with incomes below 100% of the federal poverty level (FPL) (Census 2000), separated into four groups: low (<10% FPL), medium (10%-<20% FPL), high (20%-<30% FPL) and very high (>=30% FPL).

\*\*Drug Type, not mutually exclusive.; percent will not equal 100%. †† For this analysis, opioid analgesics exclude fentanyl.

<sup>^</sup>Top five of 42 NYC Neighborhoods

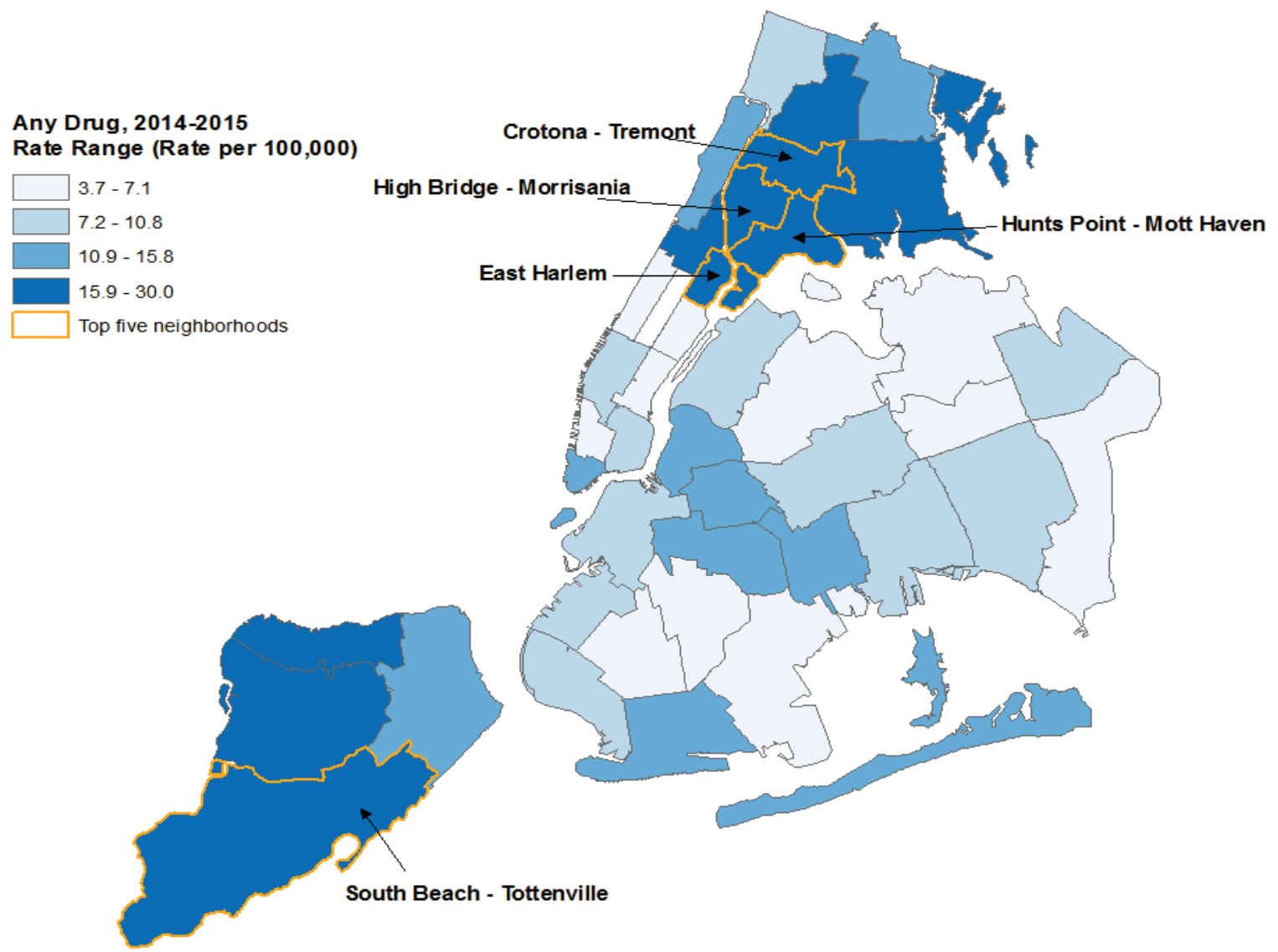
**Map 1. Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) by neighborhood^ of residence, 2012-2013**

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 2000-2014 updated October 2015. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.



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

**Map 2. Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) by neighborhood^ of residence, 2014-2015\***



<sup>^</sup>The United Hospital Fund (UHF) classifies New York City into 42 neighborhoods, comprised of contiguous ZIP codes.

\*Data for 2015 are provisional and are subject to change.

**Table 2. Number and rate of unintentional drug poisoning (overdose) deaths involving heroin, New York City, 2012-2015\***

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 2000-2014 updated October 2015. 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.

	2012			2013			2014			2015		
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate
<b>Total Unintentional Drug Poisoning Deaths</b>	<b>730</b>	<b>100%</b>	<b>10.9</b>	<b>788</b>	<b>100%</b>	<b>11.6</b>	<b>800</b>	<b>100%</b>	<b>11.7</b>	<b>937</b>	<b>100%</b>	<b>13.6</b>
<b>Total Unintentional Drug Poisoning Deaths Involving Heroin</b>	<b>382</b>	<b>52%</b>	<b>5.7</b>	<b>424</b>	<b>54%</b>	<b>6.2</b>	<b>460</b>	<b>58%</b>	<b>6.7</b>	<b>556</b>	<b>59%</b>	<b>8.0</b>
<b>Gender</b>												
Male	297	78%	9.2	326	77%	10.0	350	76%	10.7	434	78%	13.2
Female	85	22%	2.5	98	23%	2.7	110	24%	3.0	122	22%	3.3
<b>Race/Ethnicity<sup>†</sup></b>												
Black (non-Hispanic)	70	19%	4.6	64	16%	3.9	81	18%	4.9	89	17%	5.4
Hispanic	114	30%	6.1	146	36%	7.8	126	29%	6.8	196	36%	10.3
White (non-Hispanic)	191	51%	8.8	195	48%	8.8	229	53%	10.5	252	47%	11.6
<b>Age (years)</b>												
15-24	27	7%	2.4	32	8%	2.9	34	7%	3.1	44	8%	4.0
25-34	88	23%	6.0	92	22%	6.2	105	23%	7.0	146	26%	9.7
35-44	80	21%	6.8	84	20%	7.1	95	21%	8.0	110	20%	9.3
45-54	130	34%	11.6	125	29%	11.2	129	28%	11.5	154	28%	13.8
55-64	50	13%	5.3	78	18%	8.2	80	17%	8.2	90	16%	9.3
65-84	7	2%	0.8	13	3%	1.4	17	4%	1.8	12	2%	1.3
<b>Age (years-collapsed)</b>												
15-34	115	30%	4.4	124	29%	4.8	139	30%	5.3	190	34%	7.3
35-54	210	55%	9.2	209	49%	9.1	224	49%	9.7	264	47%	11.5
55-84	57	15%	3.1	91	21%	4.9	97	21%	5.1	102	18%	5.3
<b>Borough of Residence<sup>†</sup></b>												
Bronx	93	27%	8.8	94	27%	8.7	103	26%	9.5	146	30%	13.0
Brooklyn	84	25%	4.2	84	24%	4.2	116	29%	5.7	136	28%	6.6
Manhattan	73	22%	5.3	61	17%	4.2	69	17%	4.9	78	16%	5.8
Queens	53	16%	2.8	81	23%	4.3	71	18%	3.7	83	17%	4.4
Staten Island	36	11%	10.1	32	9%	8.6	42	11%	11.6	38	8%	10.7
<b>Borough of Death</b>												
Bronx	98	26%	9.3	109	26%	10.1	112	24%	10.3	165	30%	14.7
Brooklyn	96	25%	4.8	102	24%	5.0	138	30%	6.8	164	29%	7.9
Manhattan	96	25%	7.1	89	21%	6.2	90	20%	6.3	103	19%	7.6
Queens	59	15%	3.2	91	21%	4.8	79	17%	4.1	86	15%	4.6
Staten Island	33	9%	9.2	33	8%	9.1	41	9%	11.2	38	7%	10.6
<b>Neighborhood Poverty<sup>†0</sup></b>												
Low (wealthiest)	64	19%	4.6	78	22%	5.7	67	17%	4.9	75	16%	5.5
Medium	86	25%	3.4	90	26%	3.5	120	30%	4.7	143	30%	5.4
High	92	27%	5.9	73	21%	4.5	91	23%	5.7	112	23%	7.1
Very High	96	28%	8.5	110	31%	9.7	121	30%	10.4	151	31%	12.5
<b>Top 5 NYC Neighborhoods<sup>^</sup></b>	<b>2012-2013 Rate</b>						<b>2014-2015 Rate</b>					
	Hunts Point-Mott Haven			16.3			Hunts Point-Mott Haven			20.2		
	South Beach- Tottenville			12.9			Crotona-Tremont			17.6		
	Willowbrook			10.7			South Beach-Tottenville			14.5		
	Fordham-Bronx Park			10.6			East Harlem			13.9		
	Crotona-Tremont			10.3			Highbridge-Morrisania			12.5		

\*Data for 2015 are provisional and are subject to change.

†Percentage of deaths within subgroup are calculated among categories presented.

0Neighborhood poverty (based on ZIP code) was defined as percent of residents with incomes below 100% of the federal poverty level (FPL) (Census 2000), separated into four groups: low (<10% FPL), medium (10%-<20% FPL), high (20%-<30% FPL) and very high (>=30% FPL).

**Table 3. Number and rate of unintentional drug poisoning (overdose) deaths involving fentanyl, New York City, 2015\***

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 2000-2014 updated October 2015. 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.

	Unintentional drug poisoning (overdose) deaths involving fentanyl			Unintentional drug poisoning (overdose) deaths involving fentanyl, no heroin			Unintentional drug poisoning (overdose) deaths involving fentanyl and/or heroin		
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate
<b>Total Unintentional Drug Poisoning Deaths</b>	<b>937</b>	<b>100%</b>	<b>13.6</b>	<b>937</b>	<b>100%</b>	<b>13.6</b>	<b>937</b>	<b>100%</b>	<b>13.6</b>
<b>Total Unintentional Drug Poisoning Deaths by Drug Type</b>	<b>146</b>	<b>16%</b>	<b>2.1</b>	<b>44</b>	<b>5%</b>	<b>0.6</b>	<b>600</b>	<b>64%</b>	<b>8.7</b>
<b>Gender</b>									
Male	115	79%	3.4	35	80%	1.0	469	78%	14.2
Female	31	21%	0.9	9	20%	0.3	131	22%	3.6
<b>Race/Ethnicity<sup>†</sup></b>									
Black (non-Hispanic)	25	18%	1.5	6	14%	0.4	95	16%	5.8
Hispanic	50	35%	2.6	15	35%	0.8	211	36%	11.0
White (non-Hispanic)	67	47%	3.1	22	51%	1.0	274	47%	12.6
<b>Age (years-collapsed)</b>									
15-34	56	38%	2.1	13	30%	0.5	203	34%	7.8
35-54	64	44%	2.8	20	45%	0.9	284	47%	12.4
55-84	26	18%	1.4	11	25%	0.6	113	19%	5.9
<b>Borough of Residence<sup>†</sup></b>									
Bronx	40	30%	3.5	12	29%	1.0	158	30%	14.0
Brooklyn	36	27%	1.7	13	31%	0.6	149	28%	7.2
Manhattan	16	12%	1.1	8	19%	0.6	86	16%	6.4
Queens	33	25%	1.8	X	X	X	89	17%	4.7
Staten Island	7	5%	1.8	X	X	X	41	8%	11.4
<b>Borough of Death</b>									
Bronx	43	29%	3.6	12	27%	1.0	177	30%	15.7
Brooklyn	41	28%	2	15	34%	0.7	179	30%	8.6
Manhattan	25	17%	1.8	9	20%	0.6	112	19%	8.2
Queens	29	20%	1.6	X	X	X	92	15%	4.9
Staten Island	8	5%	2.1	X	X	X	40	7%	11.0
<b>Neighborhood Poverty<sup>*∅</sup></b>									
Low (wealthiest)	21	16%	1.6	6	14%	0.5	81	15%	6.0
Medium	40	30%	1.5	10	24%	0.4	153	29%	5.8
High	32	24%	1.9	16	38%	0.9	128	24%	8.0
Very High	39	30%	3.3	10	24%	0.9	161	31%	13.4

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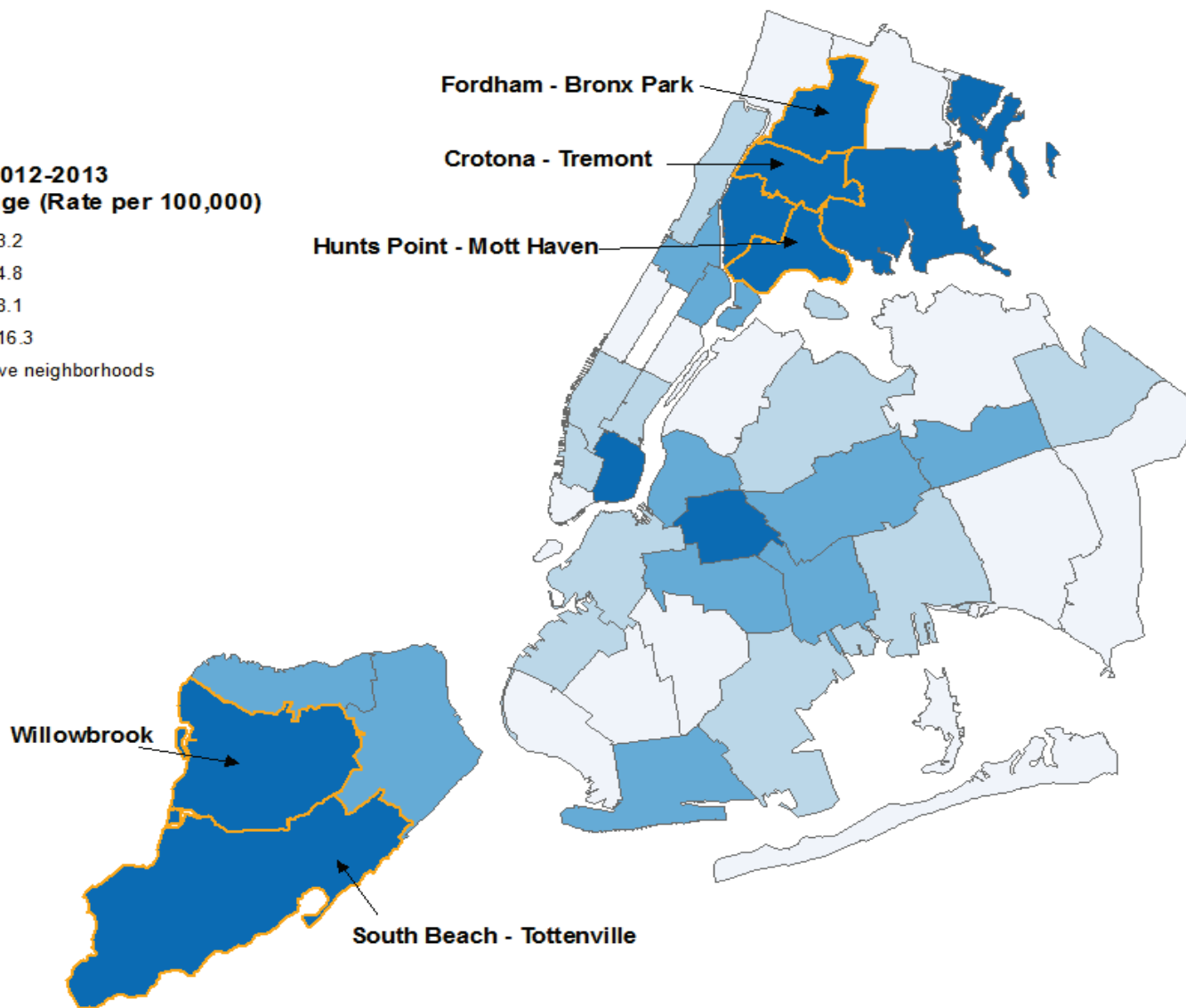
∅Neighborhood poverty (based on ZIP code) was defined as percent of residents with incomes below 100% of the federal poverty level (FPL) (Census 2000), separated into four groups: low (<10% FPL), medium (10%-<20% FPL), high (20%-<30% FPL) and very high (>=30% FPL).

<sup>^</sup>Top five of 42 NYC Neighborhoods

**Map 3. Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) deaths involving heroin 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 2000-2014 updated October 2015. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.

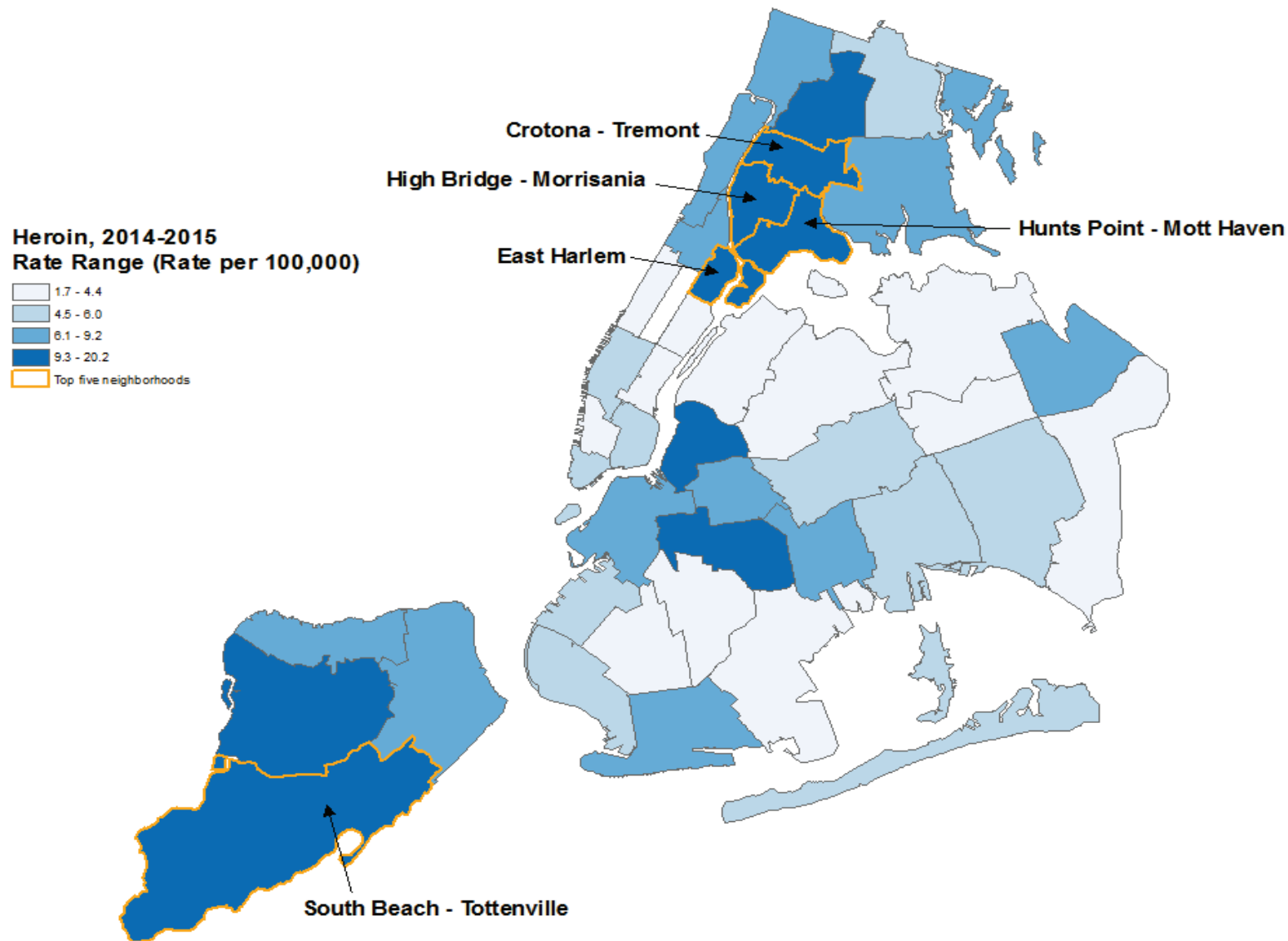
**Heroin, 2012-2013  
Rate Range (Rate per 100,000)**



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

**Map 4. Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) deaths involving heroin by neighborhood^ of residence, 2014-2015\***

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 2000-2014 updated October 2015. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.



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

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