



# HEALTH EQUITY REPORT

## Appendices I & II

Opioid Overdose

Healthy Capital District Initiative  
175 Central Avenue  
Albany, NY 12206

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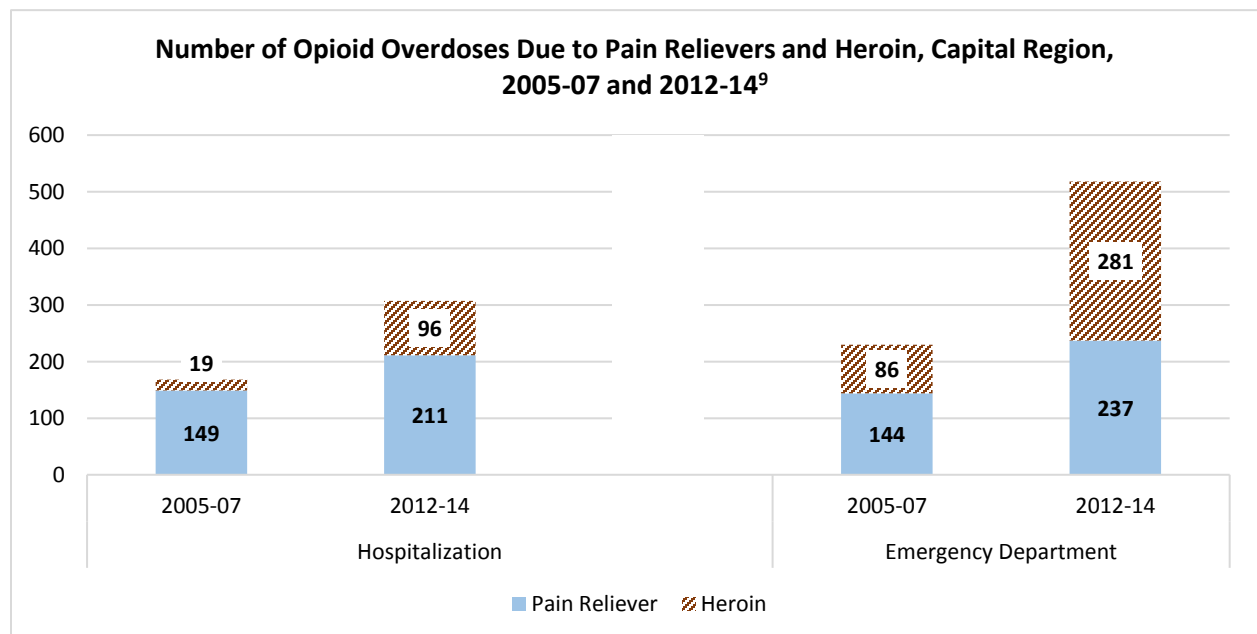
## Appendices I: Capital Region

The New York State Department of Health recently published County Opioid Quarterly Reports which presented the numbers and rates for all opioid overdoses, heroin overdoses and overdoses involving opioid pain relievers. Data were presented for deaths, ED visits and hospitalizations.<sup>7,8</sup>

### Opioid Overdose—Heroin vs Pain Medication

#### Highlights

- Of the 82 opioid overdose deaths in the Capital Region during 2014-15, 55% were due to heroin overdose; much higher than comparable Upstate percentage of 41%.<sup>7,8</sup>
- Capital Region heroin overdose hospitalizations rose from 11% of the total in 2005-07 to 31% in 2012-14, while heroin overdose ED visits rose from 37% to 54% during the same time periods.

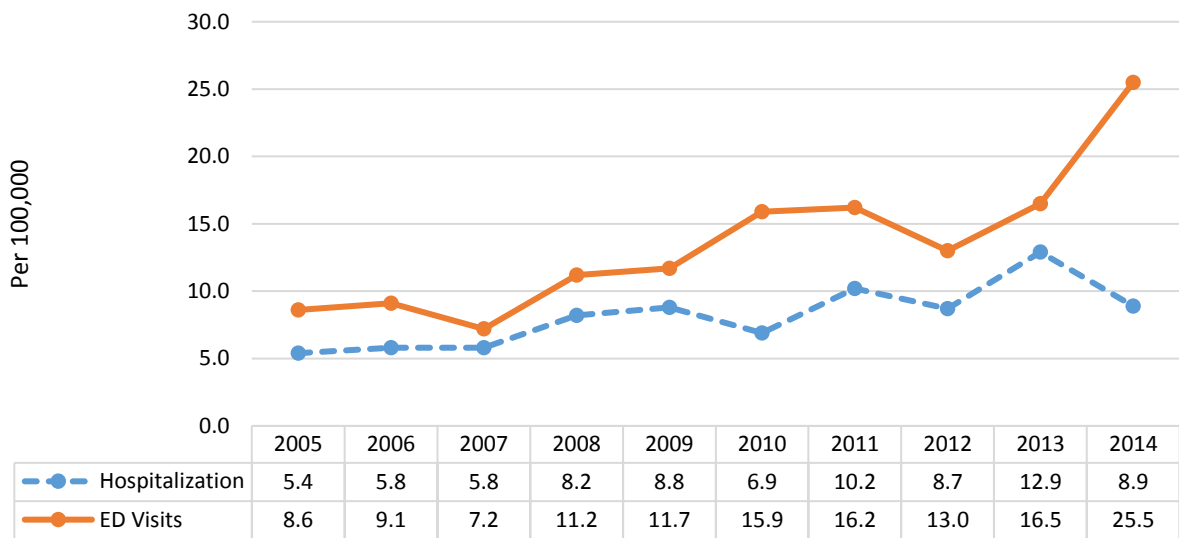


## Opioid Overdose Hospitalizations vs ED Visits

### Highlights

- Between 2005 and 2014, the age-adjusted opioid overdose hospitalization rate increased 65% while the ED visit rate increased 200%.

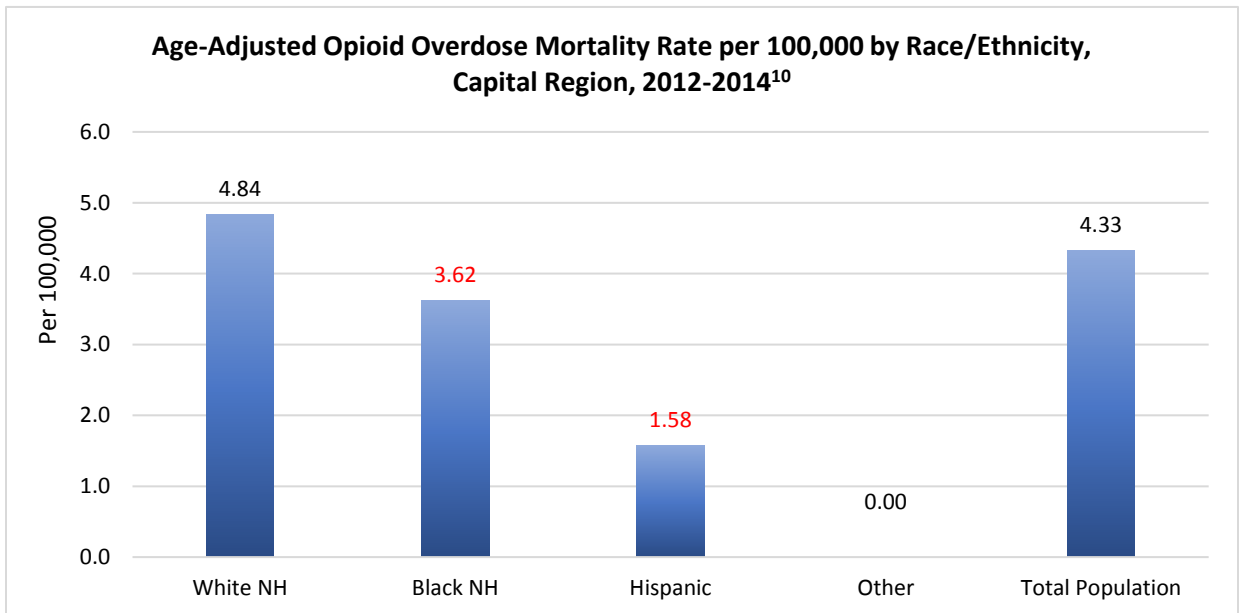
**Age-adjusted Opioid Overdose Hospitalization vs ED Visit Rates per 100,000, Capital Region, 2005 to 2014<sup>9</sup>**



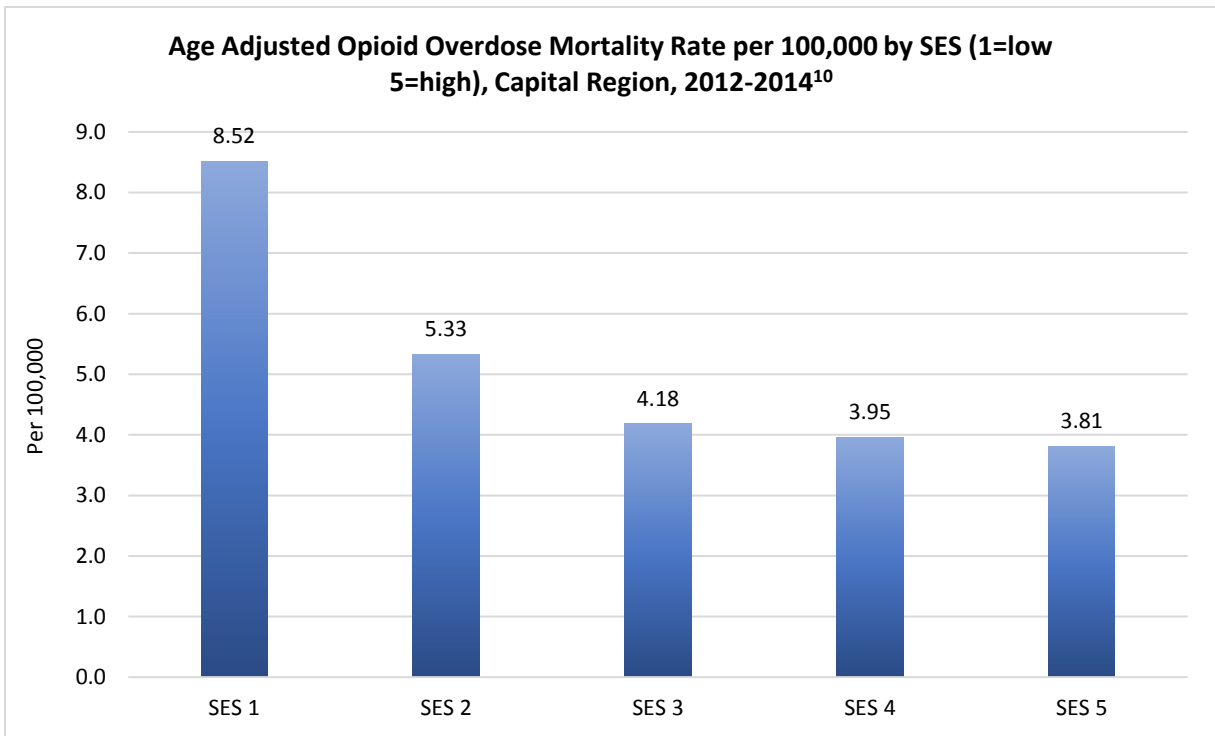
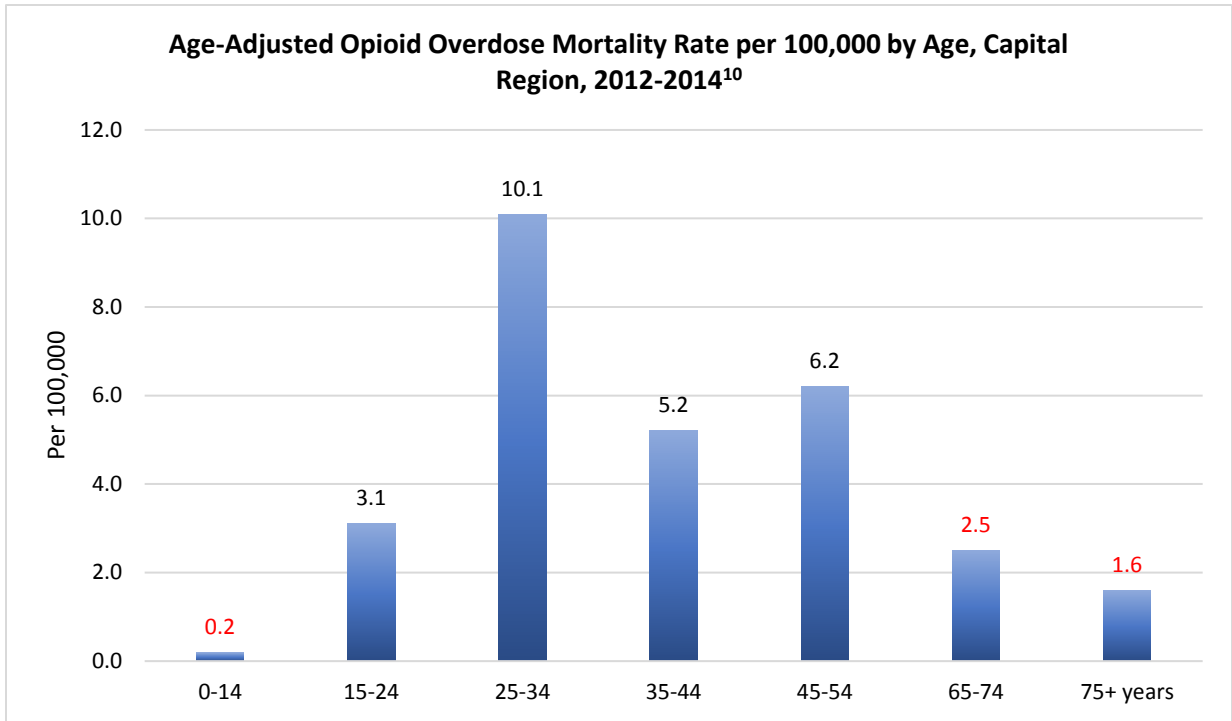
## Opioid Overdose Mortality<sup>1</sup>

### Highlights:

- White-non-Hispanic Capital Region residents had the highest age-adjusted opioid overdose mortality rate, 34% higher than the Black-non-Hispanics, and 3 times higher than the Hispanic rate.
- Adults 25-34 years of age had the highest mortality rate, followed by the 45-54 year and 35-44 year age groups.
- Capital Region males had an 80% higher age-adjusted opioid overdose mortality rate compared to their female counterparts.
- The lowest socioeconomic group's (SES 1) age-adjusted opioid overdose mortality rate was about 225% higher than that of the highest, SES 5 group.

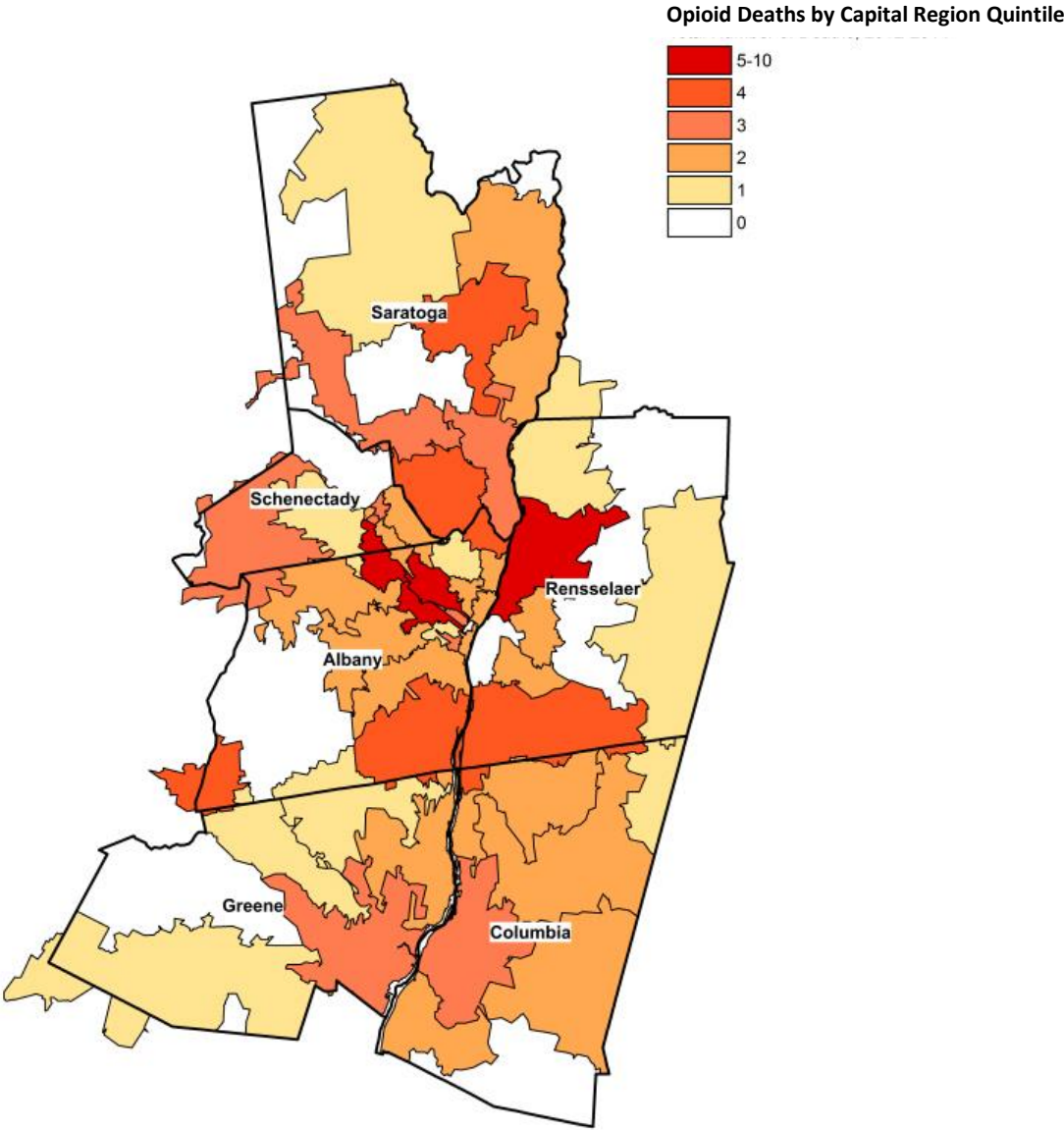


<sup>1</sup> Red = Unstable (less than 10 events in numerator)



<sup>1</sup> Red = Unstable (less than 10 events in numerator)

Opioid Overdose Deaths by Capital Region Neighborhood, Total Number of Deaths, 2012-2014<sup>10</sup>



*Highlights:*

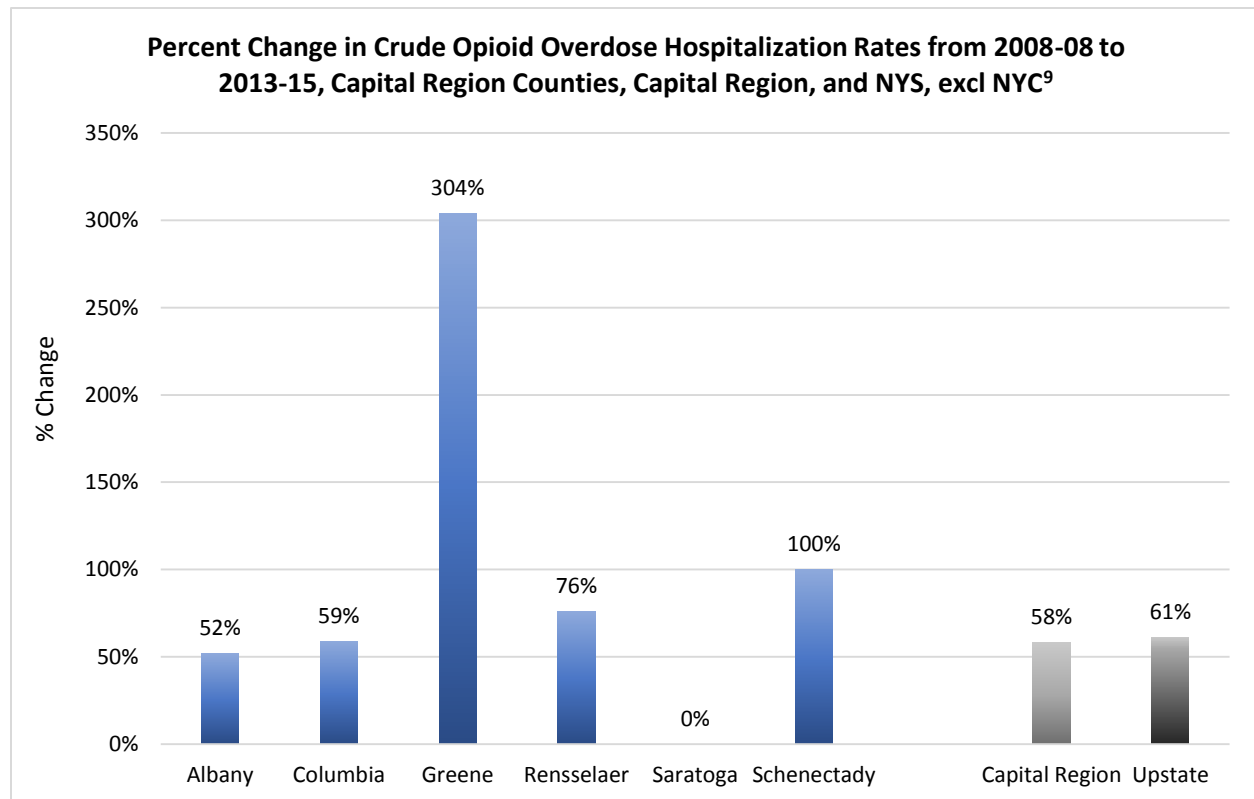
- Deaths are found in urban areas, of Albany, Troy, Schenectady, Saratoga Springs, Hudson and Catskill, as well as in the suburban/rural areas of RCS in Albany, Rural West in Schenectady, Southwest in Rensselaer, and Clifton Park West in Saratoga.
- Very few Capital Region neighborhoods did not experience an opioid overdose death.
- For neighborhood definitions, see pages 177-189 in the [2016 Community Health Needs Assessment](#).

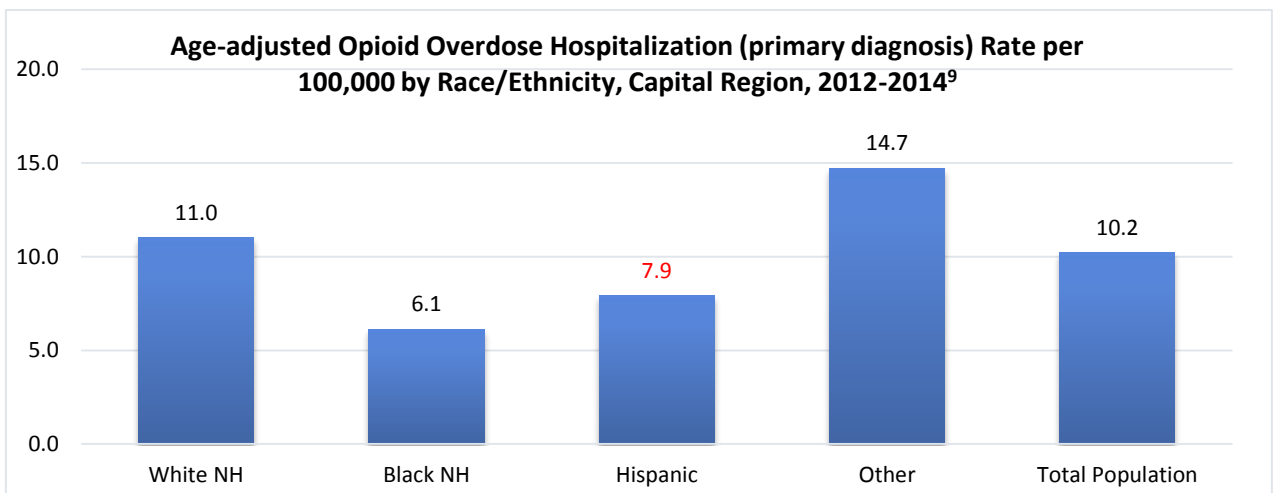
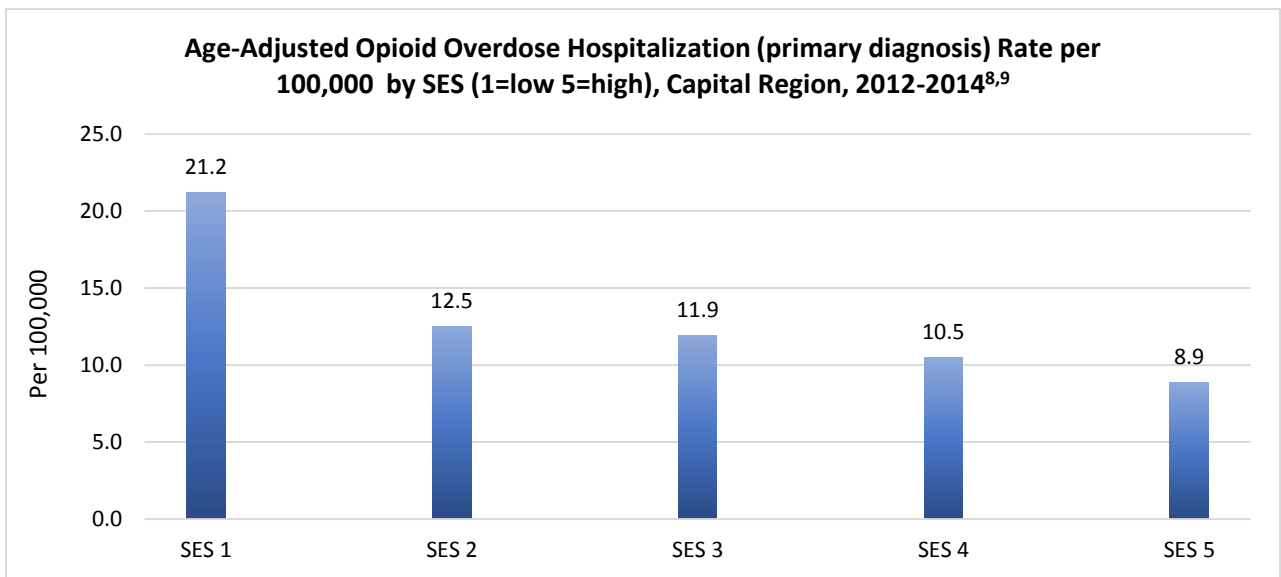
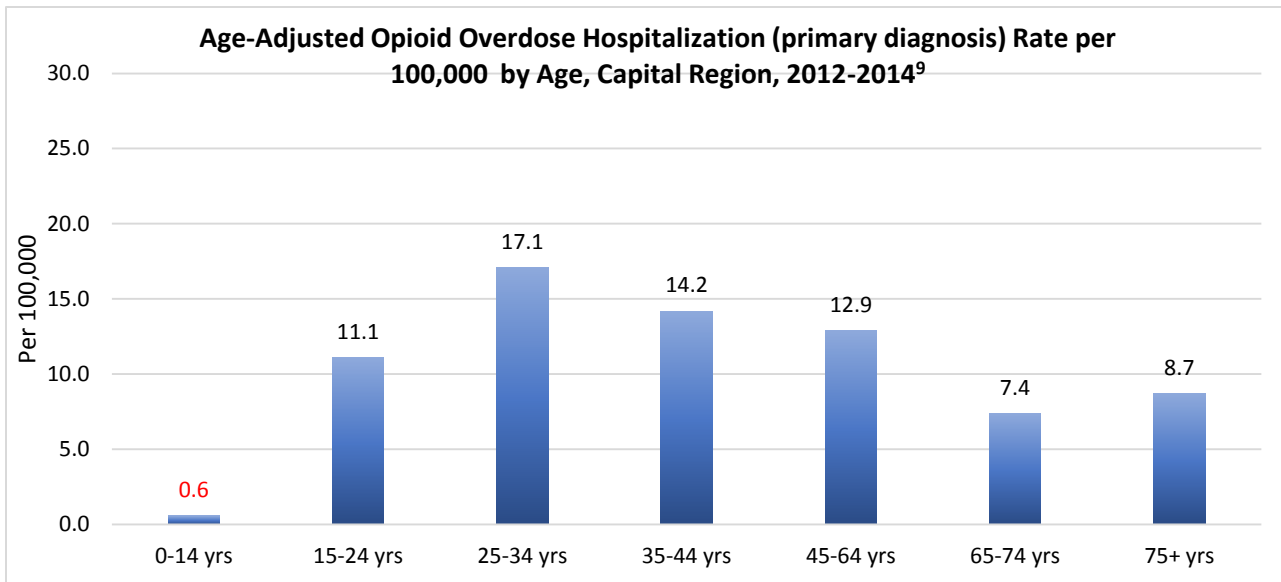


## Opioid Overdose Hospitalizations

### Highlights:

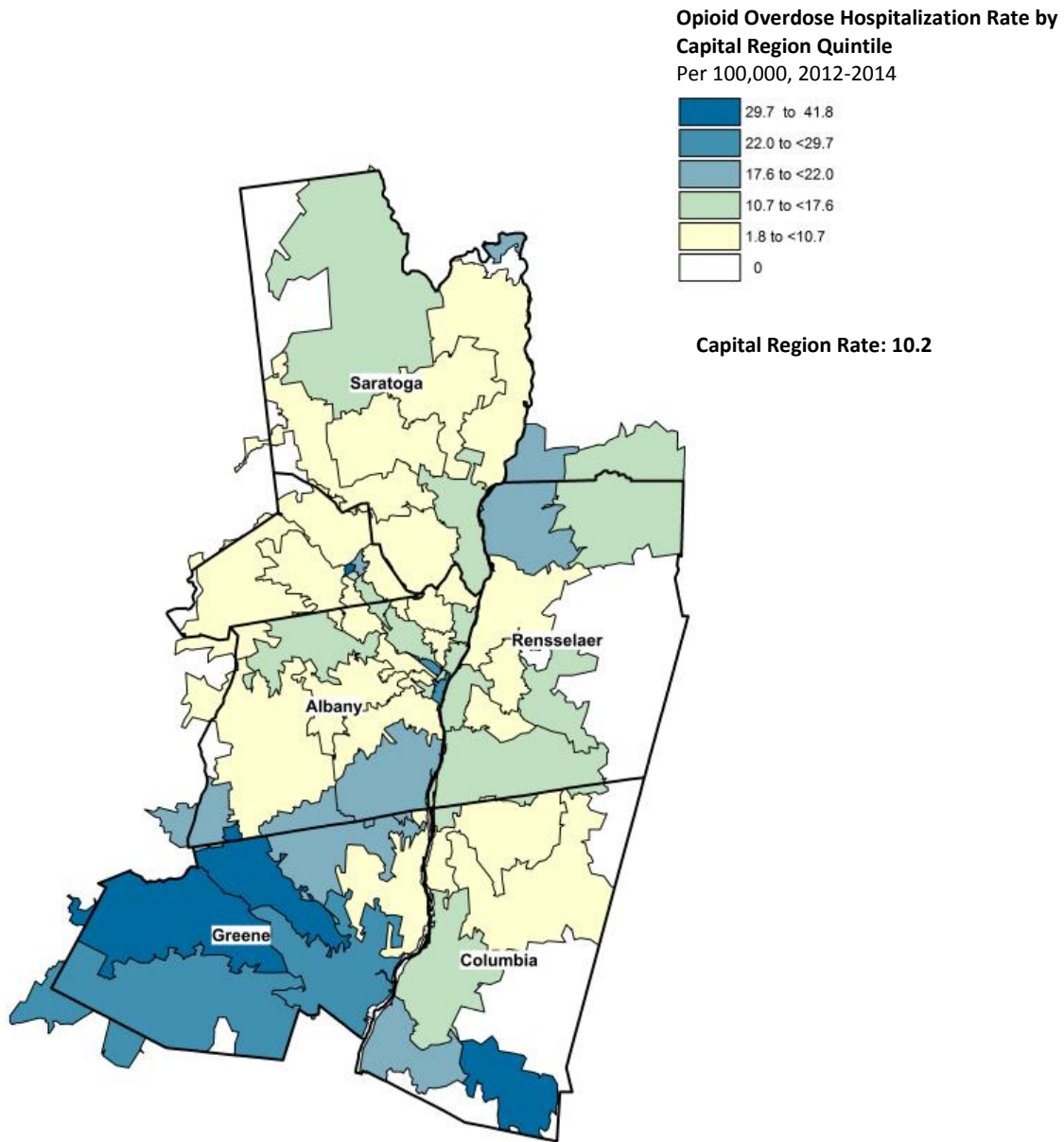
- From 2006-08 to 2013-15, the Capital Region experienced a 58% increase in the opioid overdose hospitalization rate, similar to the Upstate increase of 61%.<sup>7,9</sup>
- Greene County had the highest opioid overdose hospitalization rate of the Capital Region counties as well as the highest rate of change.
- Adults aged 25-34 years had the highest opioid overdose hospitalization rates for the Capital Region, followed by the 35-44 year and 45-64 year age groups.
- White-non-Hispanic Capital Region residents had an age-adjusted opioid overdose rate 80% higher than the Black-non-Hispanics, and 40% higher than the Hispanic rate.
- The lowest socioeconomic group's opioid overdose hospitalization rate was 240% higher than the highest socioeconomic group.





<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Age-Adjusted Opioid Overdose Hospitalization Rate by Capital Region Neighborhood,  
2012-2014**



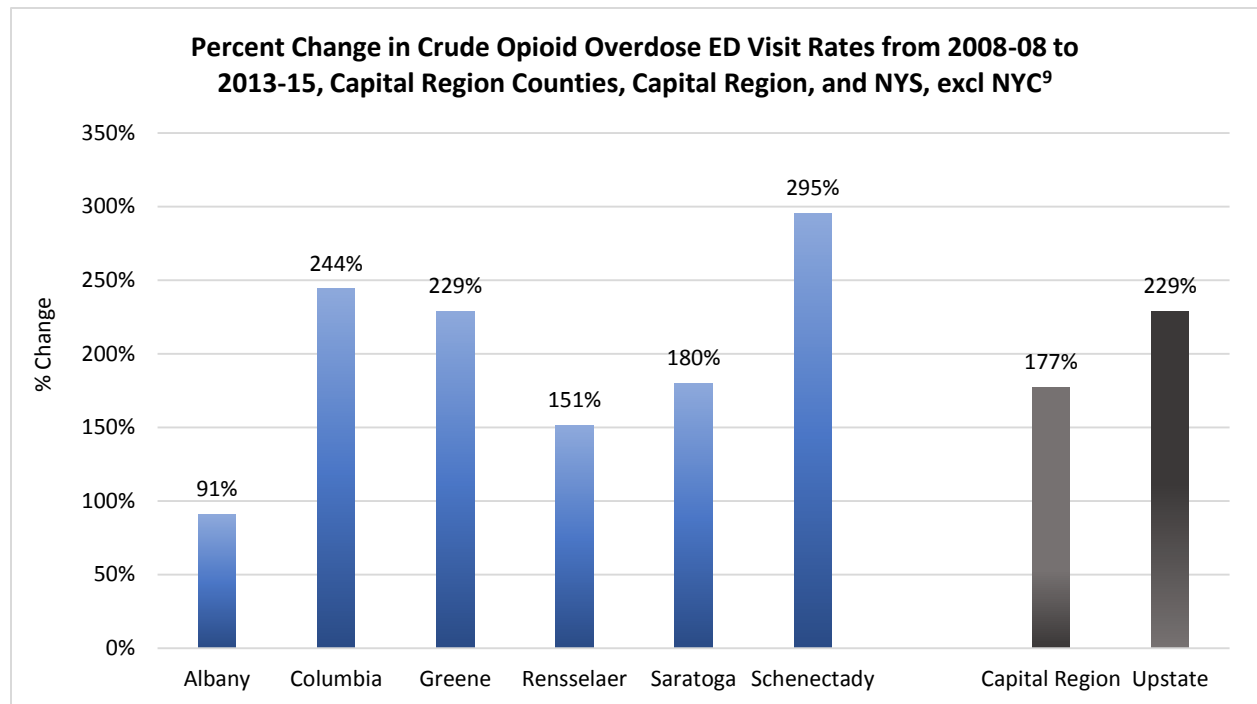
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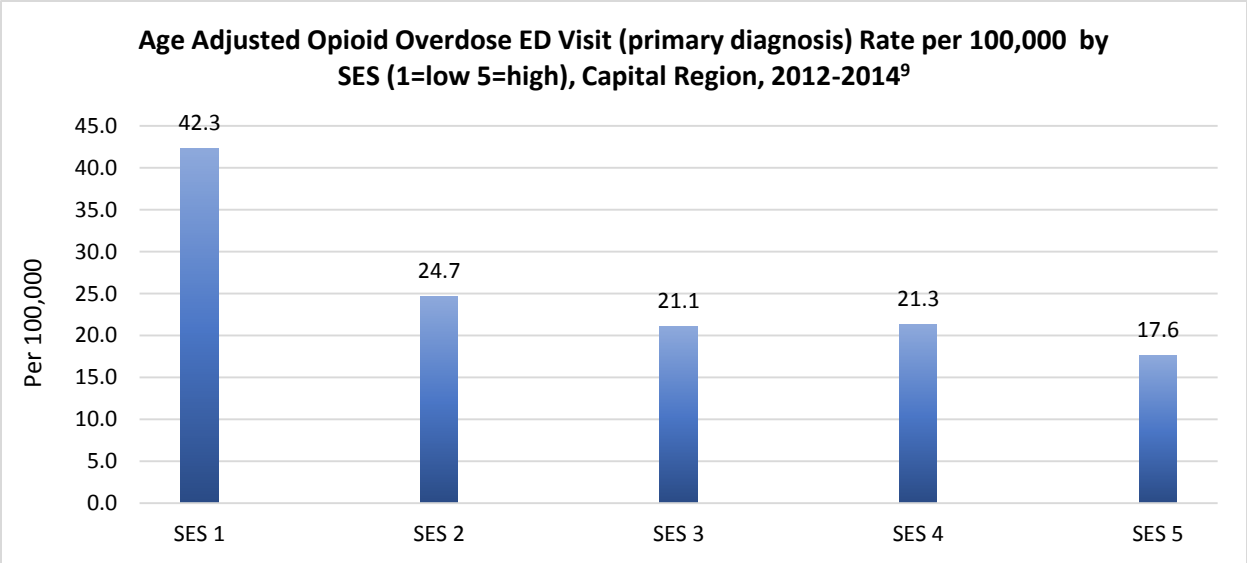
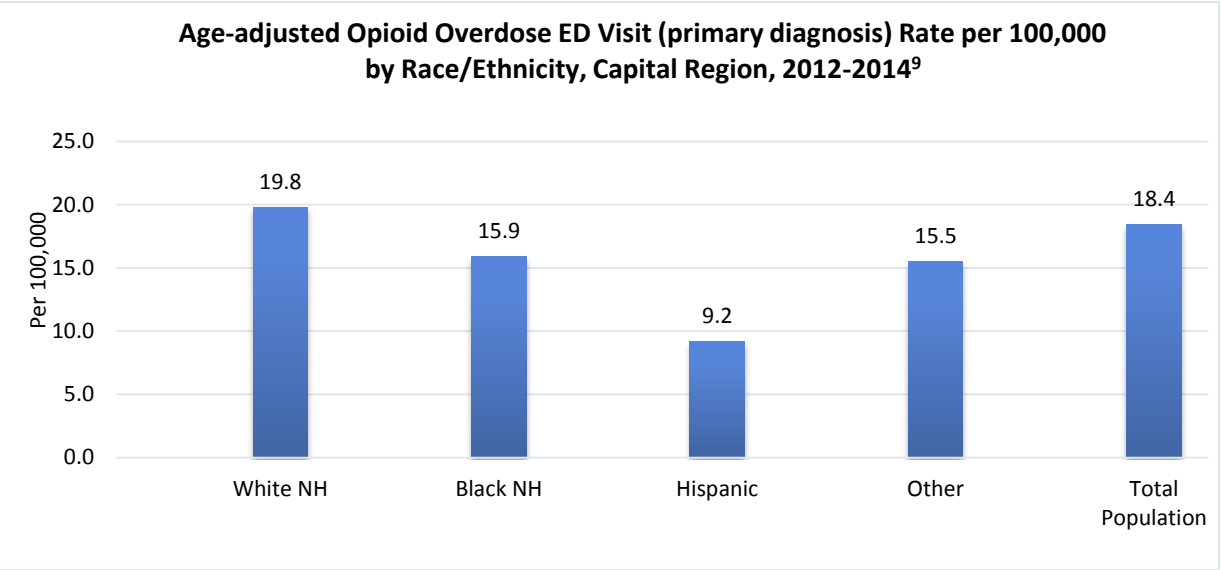
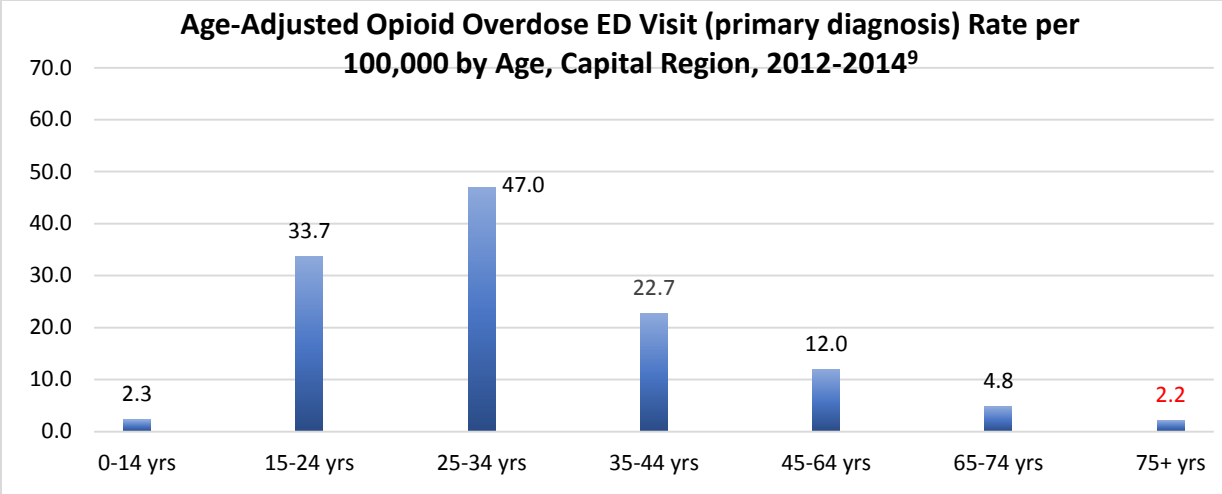
- The top two risk quintile neighborhoods for the Capital Region include: West Hills/South End and West End in Albany; Hamilton Hill in Schenectady; North West in Rensselaer; South Glens Falls in Saratoga; Pine Plains and Germantown in Columbia; and Cairo/Durham, Windham/Ashland/Jewett, Hunter/Tannersville and Catskill in Greene.
- For neighborhood definitions, see pages 177-189 in the [2016 Community Health Needs Assessment](#)

## Opioid Overdose ED Visits

### Highlights:

- From 2006-08 to 2013-15, the Capital Region experienced a 177% increase in the opioid overdose ED visit rate.
- Greene County had the highest 2013-15 opioid overdose ED visit rate followed by Schenectady and Columbia counties.
- Adults aged 25-34 years had the highest opioid overdose ED visit rates for the Capital Region. The 15-24 year age group had the next highest rate, followed by the 35-44 year age group.
- Capital Region males had a 78% higher age-adjusted opioid overdose ED Visit rate compared to their female counterparts.
- The lowest socioeconomic group (SES 1) had an age-adjusted opioid overdose rate of over 70% higher than the next highest group (SES 2), and almost 2.5 times higher than the highest socioeconomic group.

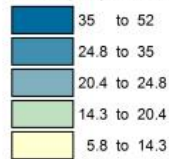




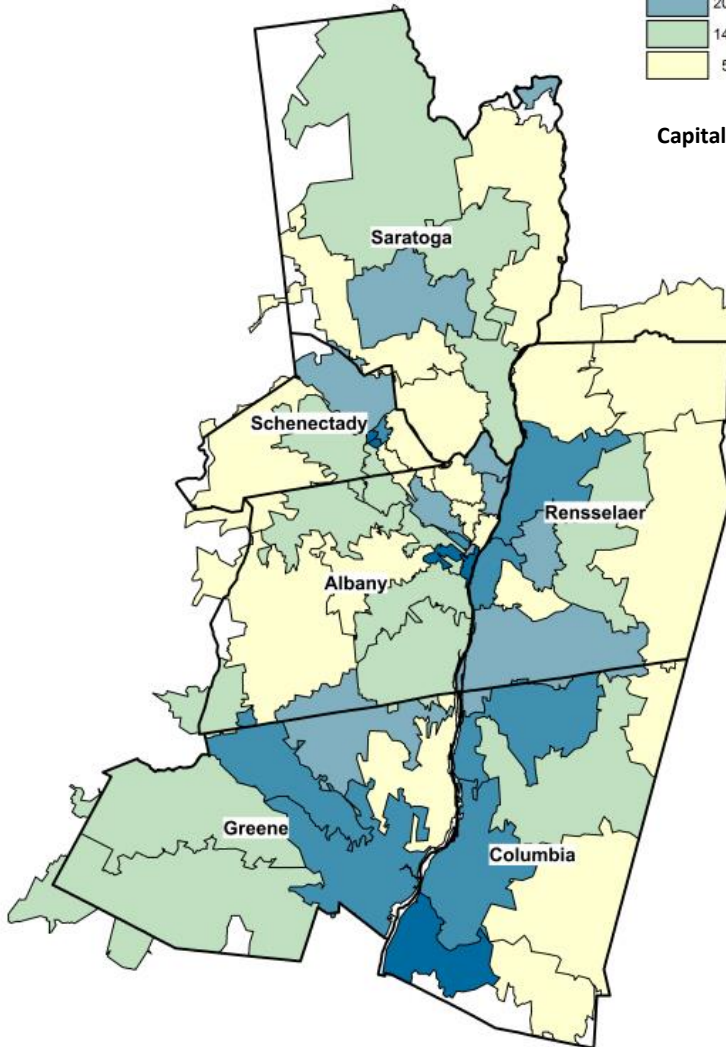
<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Age-Adjusted Opioid Overdose Emergency Department Rate by Capital Region Neighborhood,  
2012-2014**

**Opioid ED Overdose Rate by  
Capital Region Quintile  
Per 100,000, 2012-2014**



**Capital Region Rate: 18.4**



*Highlights:*

- The top two risk quintile neighborhoods for the Capital Region include: West Hill/South End, West End and Rt. 20/New Scotland in Albany; Hamilton Hill and Goose Hill/Union in Schenectady; Troy/Lansingburgh and Rensselaer in Rensselaer; Germantown, Ichabod, and Hudson in Columbia; and Cairo/Durham and Catskill in Greene.
- For neighborhood definitions, see pages 177-189 in the [2016 Community Health Needs Assessment](#).

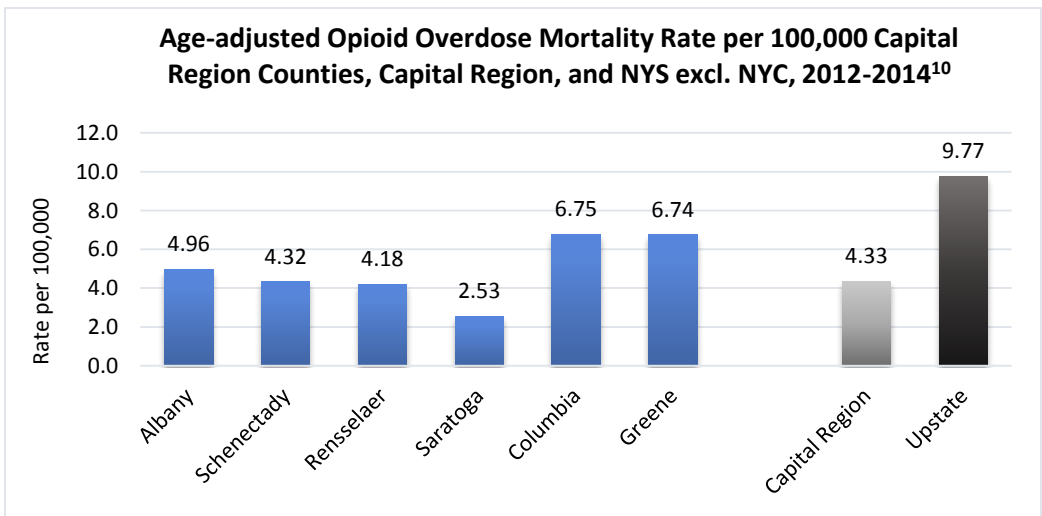
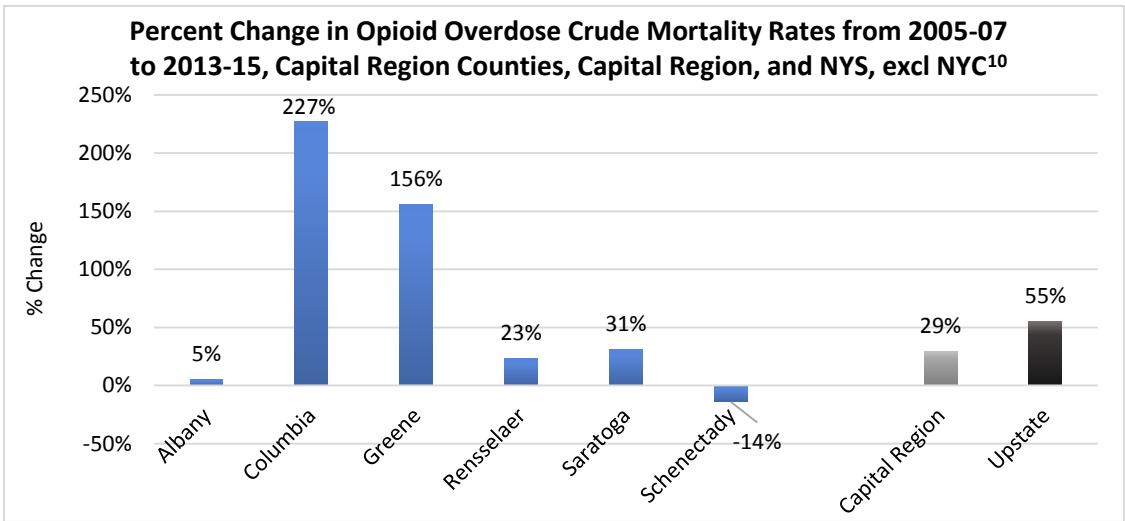
## Appendices II: County Comparisons and County-Specific Data

### County and Regional Comparisons

#### Mortality

##### Highlights

- The Capital Region experienced a 30% increase in the rate of opioid overdose mortality from 2005-07 to 2013-15. This was lower than the Upstate 55% increase in the opioid overdose mortality rate.
- Columbia (227%) and Greene (156%) experienced the largest increases, while Schenectady had a 14% decrease during these time periods.



## Hospitalizations

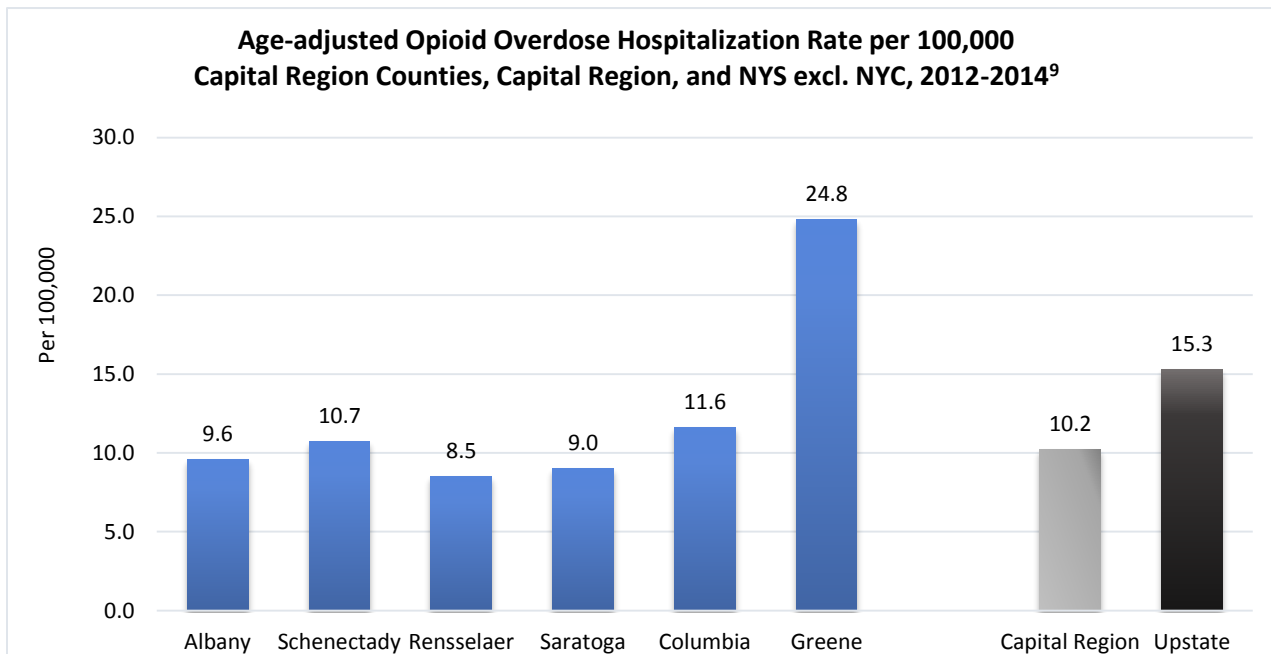
### Highlights

- The Capital Region experienced a 58% increase in the opioid overdose hospitalization rates from 2006-08 to 2013-15.
- Greene had the highest rate of change between 2006-08 and 2013-15 with a 302% increase. Saratoga was the only county without a hospitalization increase during this time period.

### Opioid Overdose Hospitalization Rate per 100,000, Capital Region Counties, Capital Region and NYS, excl. NYC, 2006-08 and 2013-15<sup>7,9</sup>

Region	2006-2008	2013-2015	% Change
Albany	6.9	10.5	52%
Columbia	7.4	11.8	59%
Greene	6.7	27.1	304%
Rensselaer	5.9	10.4	76%
Saratoga	7.1	7.0	0%
Schenectady	7.2	14.4	100%
Capital Region	7.1	11.2	58%
Upstate	10.1	16.3	61%

### Age-adjusted Opioid Overdose Hospitalization Rate per 100,000 Capital Region Counties, Capital Region, and NYS excl. NYC, 2012-2014<sup>9</sup>



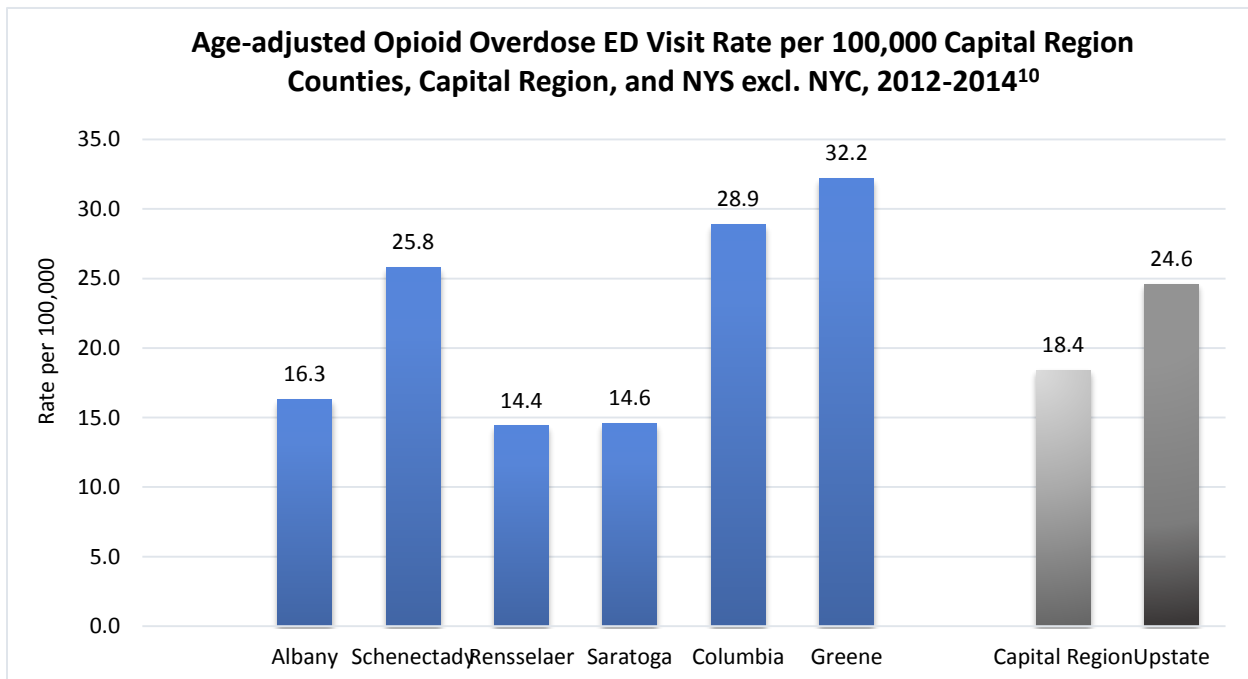


## Emergency Department

### Highlights

- Between 2006-08 and 2013-15, the Capital Region experienced a 177% increase in the opioid overdose ED visit rate.
- All Capital Region counties showed large increases in the opioid overdose ED visit rates, ranging from 91% for Albany to 295% for Schenectady.

Opioid Overdose ED Visit Rate per 100,000, Capital Region Counties, Capital Region and NYS, excl. NYC, 2006-08 and 2013-15 <sup>7,9</sup>			
Region	2006-2008	2013-2015	% Change
Albany	10.3	19.7	91%
Columbia	8.4	28.9	244%
Greene	11.4	37.5	229%
Rensselaer	9.3	23.3	151%
Saratoga	7.4	20.7	180%
Schenectady	7.8	30.8	295%
Capital Region	9.0	24.9	177%
Upstate	9.5	31.3	229%

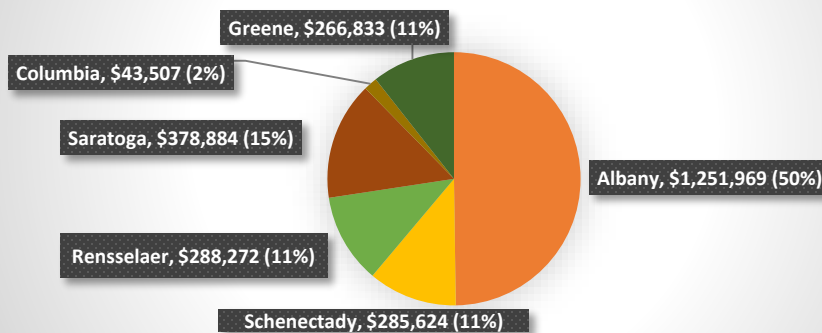


## Opioid Hospitalization and ED Visit Costs<sup>2</sup>

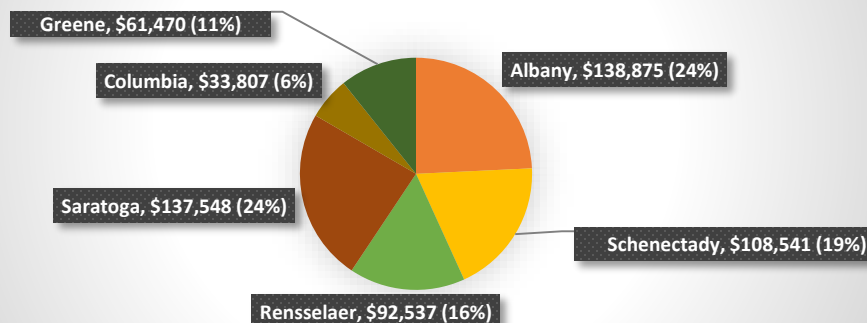
### Highlights

- The 2014 opioid overdose hospitalization (primary diagnosis) cost for the Capital Region was \$2.52 million per year.
- Albany county residents (32% of population) contributed \$1.25 million, or 50% of the opioid overdose hospitalization cost. Greene County residents (5% of population) contributed \$267,000 or 11% of the cost.
- The 2014 opioid overdose ED visit (primary diagnosis) cost for the Capital Region was \$573,000.
- Albany and Saratoga residents each contributed almost 25% of the total opioid overdose ED visit cost, \$139,000 and \$138,000 respectively.

**Opioid Overdose Hospitalization Costs, Capital Region County Residents, 2014,  
(Total \$2,515,089)<sup>9</sup>**



**Opioid Overdose ED Visit Costs, Capital Region County Residents, 2014  
(Total \$572,788)<sup>9</sup>**



<sup>2</sup> Cost information was generated from the SPARCS database. The cost information from SPARCS represents billing data that were submitted by hospitals in New York State. Total opioid overdose hospitalization costs included the accommodation charge and the ancillary charge for all patients hospitalized within a given year. The ED visit costs include only ancillary charges.

## Albany County

### Mortality

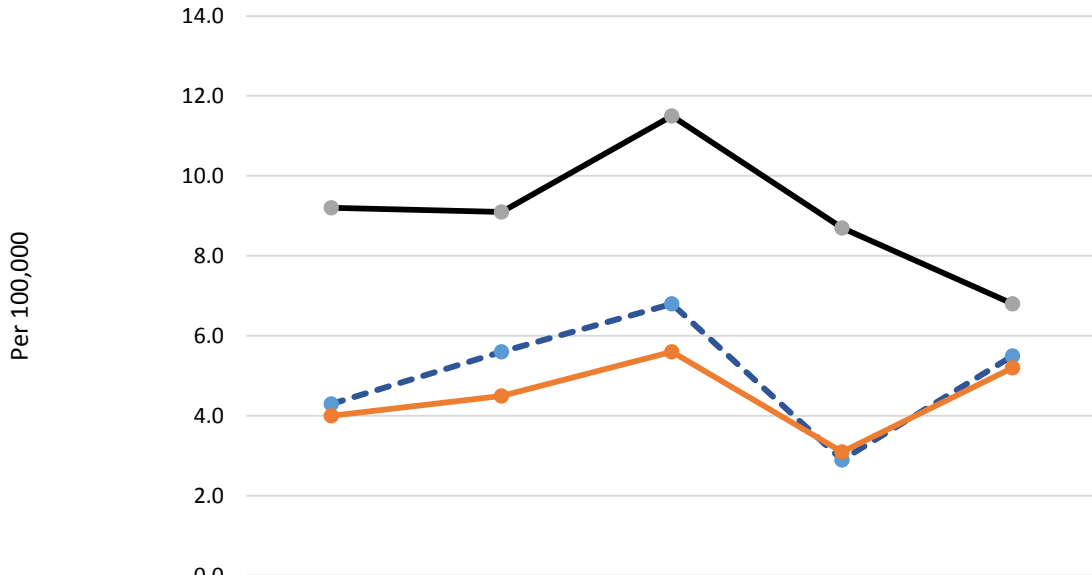
#### *Albany County Mortality Highlights*

- Those in the 25-34 age group had the highest mortality rate, at almost 3 times the overall rate.
- Albany County males had a mortality rate twice the rate of Albany County females.
- Between 2011 and 2015, Albany County had lower opioid mortality rates than New York State excl. NYC, and rates similar to those of the Capital Region.

<b>Age-Adjusted Opioid Overdose Mortality Rate per 100,000, Albany County, Capital Region and NYS excl. NYC, 2012-2014<sup>10</sup></b>					
	<b>Albany County</b>		<b>Capital Region</b>		<b>Upstate NY</b>
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	16	5.0	42	4.3	9.8
<b>Age</b>					
0-14 years	0	0.0	<1	0.2	0.1
15-24 years	2	2.6	5	3.1	7.6
25-34 years	5	13.8	12	10.1	19.0
35-44 years	2	5.9	6	5.2	15.1
45-64 years	5	6.4	16	6.2	14.5
65-74 years	1	2.2	2	2.5	3.9
75+ years	1	3.7	1	1.6	3.0
<b>Gender</b>					
Male	10	6.7	26	5.5	13.1
Female	6	3.2	17	3.1	6.4
<b>Race/Ethnicity</b>					
White non-Hispanic	15	6.2	39	4.8	11.4
Black non-Hispanic	1	1.7	3	3.6	6.7
Hispanic	<1	1.8	1	1.6	5.9
Other	0	0.0	0	0.0	2.4
<b>Socioeconomic Status</b>					
SES 1 (low)	2	6.5	4	8.5	na
SES 2	1	3.9	9	5.3	na
SES 3	7	5.6	10	4.2	na
SES 4	3	5.3	9	4.0	na
SES 5 (high)	3	5.6	8	3.8	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Opioid Overdose Mortality Rate per 100,000, Albany, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>10</sup>**



	2011	2012	2013	2014	2015
Albany	4.3	5.6	6.8	2.9	5.5
Capital Region	4.0	4.5	5.6	3.1	5.2
Upstate	9.2	9.1	11.5	8.7	6.8

## Hospitalizations

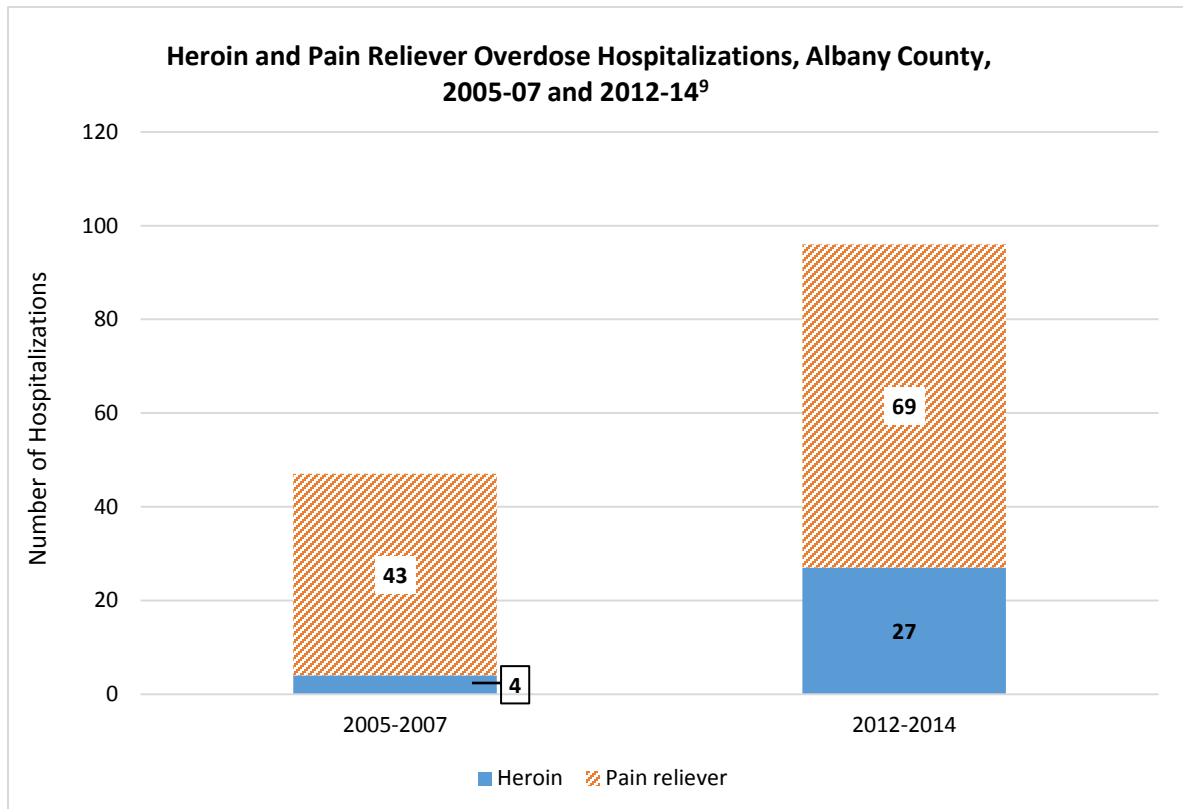
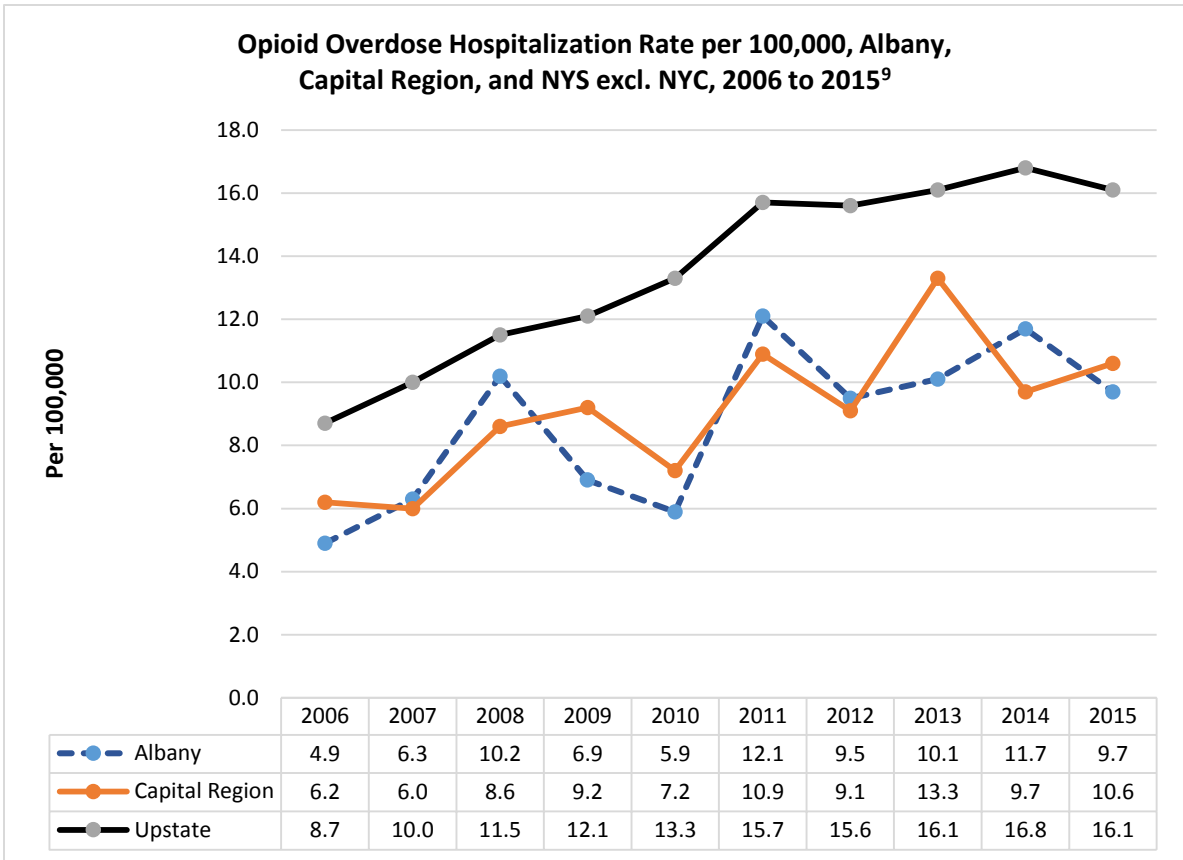
### *Albany County Hospitalization Highlights*

- Those in the lowest socioeconomic group (SES 1) had opioid overdose hospitalization rates 4 times higher than those in the highest socioeconomic group (SES 5), and two times higher than the overall rate.
- Between 2005-07 and 2012-14, heroin grew from 9% of hospitalizations due to opioid overdose to 28%.

### Age-Adjusted Opioid Overdose Hospitalization Rate per 100,000, Albany County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

	Albany County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	32	9.6	102	10.2	15.3
<b>Age</b>					
0-14 years	<1	0.7	1	0.6	1.1
15-24 years	6	11.0	17	11.1	15.3
25-34 years	4	10.9	20	17.1	24.8
35-44 years	4	10.4	17	14.2	17.4
45-64 years	14	17.2	36	12.9	21.7
65-74 years	1	3.7	7	7.4	17.4
75+ years	2	11.7	5	8.7	13.5
<b>Gender</b>					
Male	16	9.6	55	10.9	16.9
Female	16	9.5	48	9.3	13.7
<b>Race/Ethnicity</b>					
White non-Hispanic	27	10.8	90	11.0	16.8
Black non-Hispanic	3	6.4	5	6.1	11.3
Hispanic	1	16.7	2	7.9	10.8
Other	1	9.5	3	14.7	17.9
<b>Socioeconomic Status</b>					
SES 1 (low)	6	19.7	13	21.2	na
SES 2	3	8.3	22	12.5	na
SES 3	14	11.5	30	11.9	na
SES 4	7	11.8	25	10.5	na
SES 5 (high)	4	5.8	19	8.9	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)



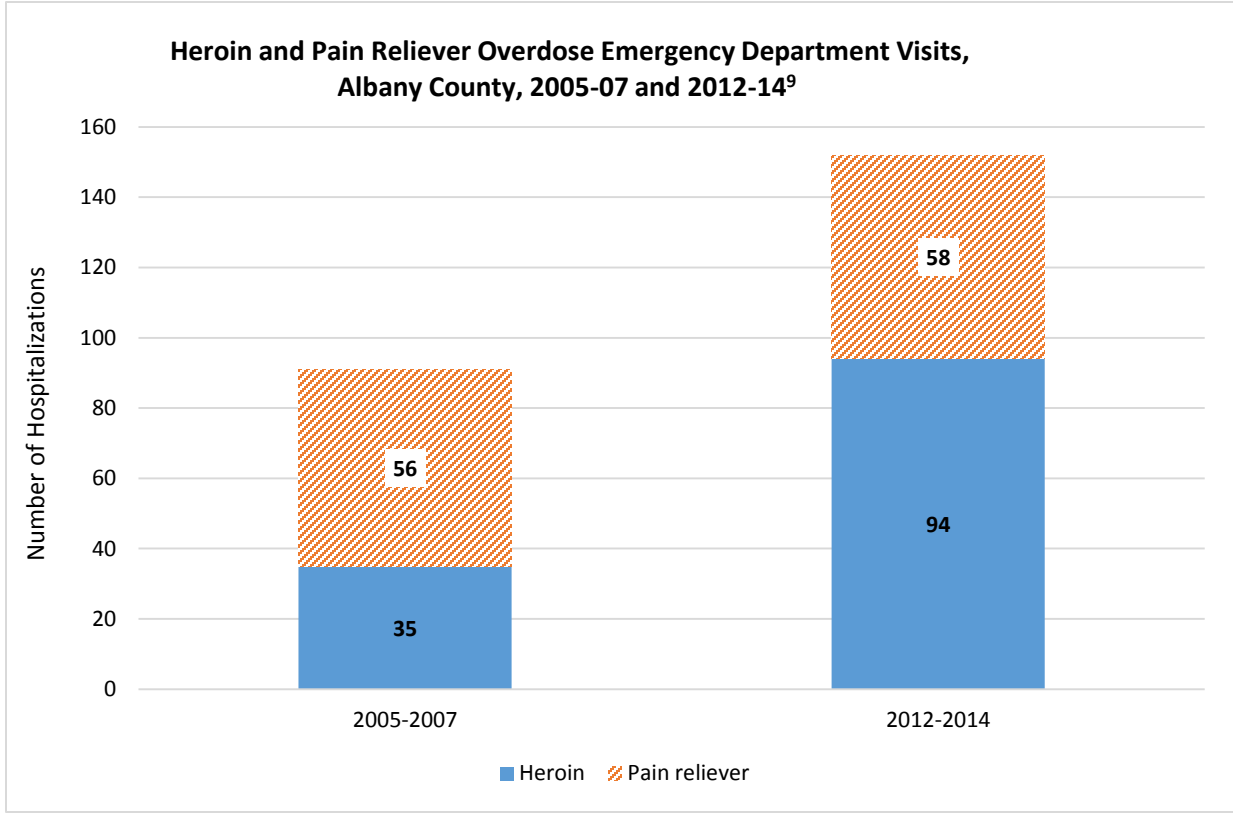
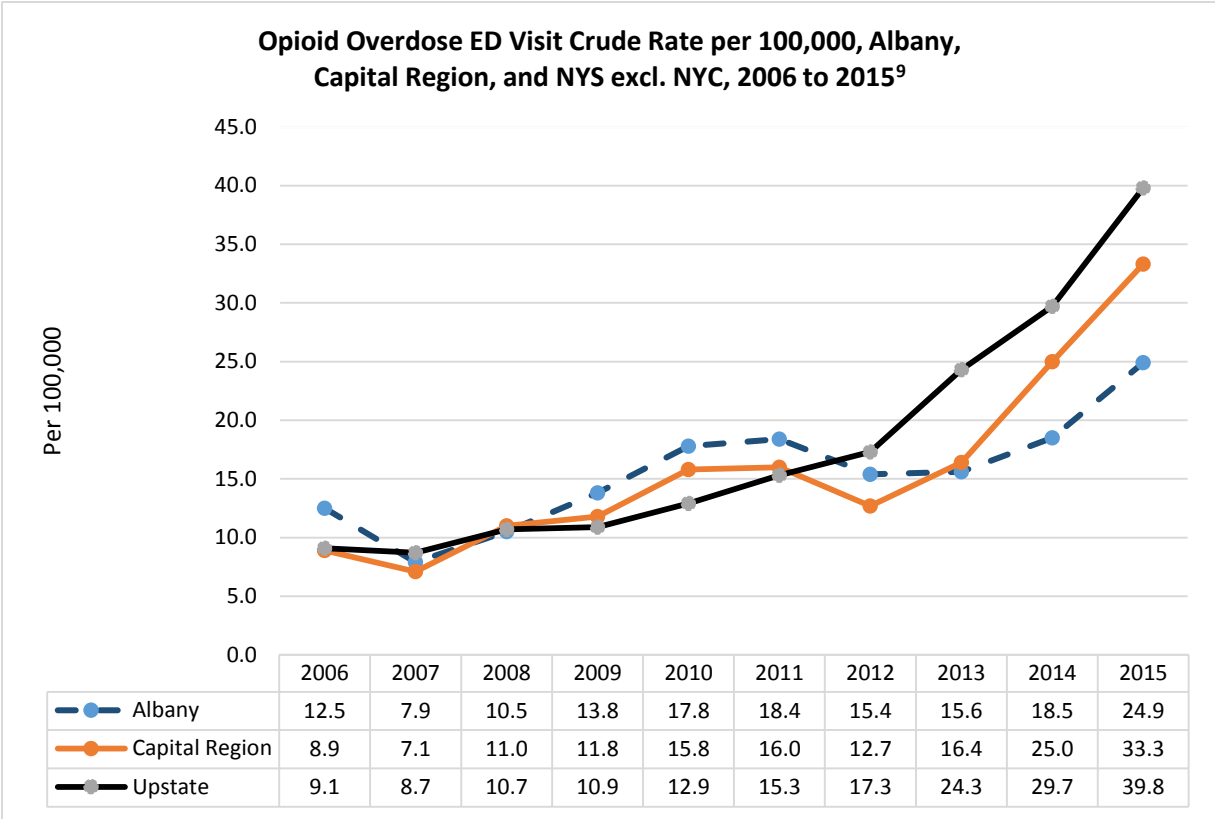
## Emergency Department

### Albany County Emergency Department Highlights

- Those in the 25-34 age group and those in the lowest socioeconomic status group (SES 1) had the highest ED visit rates, each over twice as high as the overall rate.
- Between 2005-07 and 2012-14, heroin grew from 38% of ED visits due to opioid overdose to 62%.

Age-Adjusted Opioid Overdose ED Visit Rate per 100,000, Albany County, Capital Region and NYS excl. NYC, 2012-2014 <sup>9</sup>					
	Albany County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	51	16.3	173	18.4	24.6
<b>Age</b>					
0-14 years	1	1.4	4	2.3	2.8
15-24 years	16	28.4	50	33.7	51.4
25-34 years	16	40.4	56	47.1	63.6
35-44 years	8	23.7	26	22.7	26.5
45-64 years	9	12.0	32	12.0	14.5
65-74 years	<1	1.1	4	4.8	6.1
75+ years	0	0.0	1	2.2	4.7
<b>Gender</b>					
Male	33	21.4	110	23.5	31.1
Female	18	11.3	63	13.2	17.7
<b>Race/Ethnicity</b>					
White non-Hispanic	40	18.0	149	19.8	28.0
Black non-Hispanic	6	14.2	13	15.9	13.2
Hispanic	2	12.3	4	9.2	16.9
Other	3	10.9	7	15.5	26.8
<b>Socioeconomic Status</b>					
SES 1 (low)	13	41.3	27	43.2	na
SES 2	7	22.9	42	24.7	na
SES 3	22	18.5	50	21.1	na
SES 4	13	24.8	48	21.3	na
SES 5 (high)	7	14.2	33	17.6	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)





## Columbia County

### Mortality

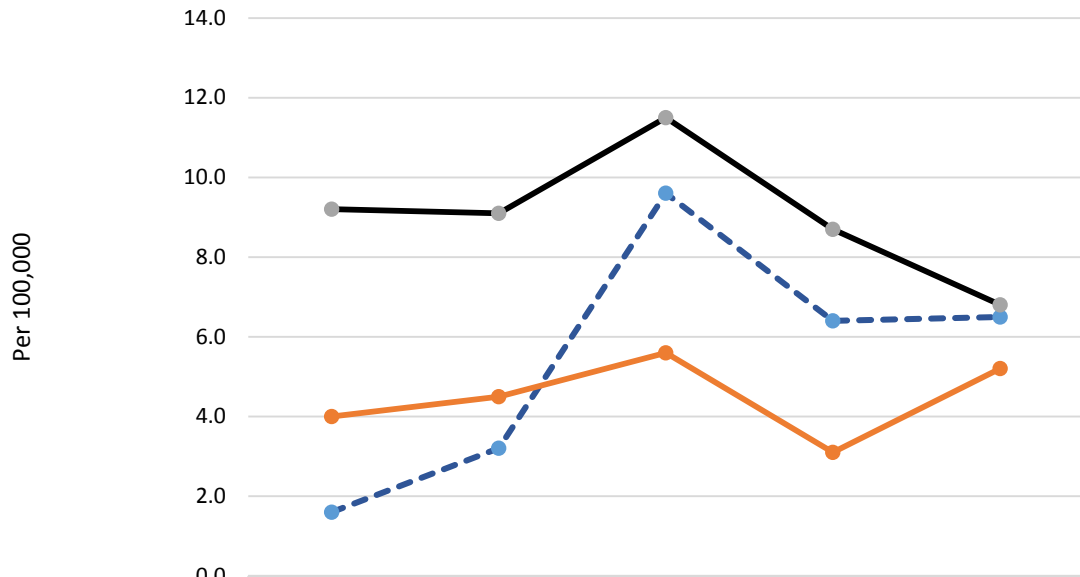
#### *Columbia County Mortality Highlights*

- Columbia averaged 4 opioid overdose deaths a year.
- The mortality rate increased over 300% in the past five years.
- Male mortality was had almost 2.5 times that of female residents.

<b>Age-Adjusted Opioid Overdose Mortality Rate per 100,000, Columbia County, Capital Region and NYS excl. NYC, 2012-2014<sup>10</sup></b>					
	Columbia County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	4	6.7	42	4.3	9.8
<b>Age</b>					
0-14 years	0	0.0	<1	0.2	0.1
15-24 years	<1	2.6	5	3.1	7.6
25-34 years	1	11.9	12	10.1	19.0
35-44 years	1	9.3	6	5.2	15.1
45-64 years	2	13.3	16	6.2	14.5
65-74 years	0	0.0	2	2.5	3.9
75+ years	0	0.0	1	1.6	3.0
<b>Gender</b>					
Male	3	9.6	26	5.5	13.1
Female	1	3.9	17	3.1	6.4
<b>Race/Ethnicity</b>					
White non-Hispanic	4	6.7	39	4.8	11.4
Black non-Hispanic	<1	13.0	3	3.6	6.7
Hispanic	0	0.0	1	1.6	5.9
Other	0	0.0	0	0.0	2.4
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	4	8.5	na
SES 2	1	5.6	9	5.3	na
SES 3	1	13.8	10	4.2	na
SES 4	1	7.0	9	4.0	na
SES 5 (high)	<1	3.4	8	3.8	na

<sup>1</sup>Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose Mortality Rate per 100,000, Columbia, Capital Region , and NYS excl. NYC, 2006 to 2015<sup>10</sup>**



	2011	2012	2013	2014	2015
—●— Columbia	1.6	3.2	9.6	6.4	6.5
—●— Capital Region	4.0	4.5	5.6	3.1	5.2
—●— Upstate	9.2	9.1	11.5	8.7	6.8

## Hospitalizations

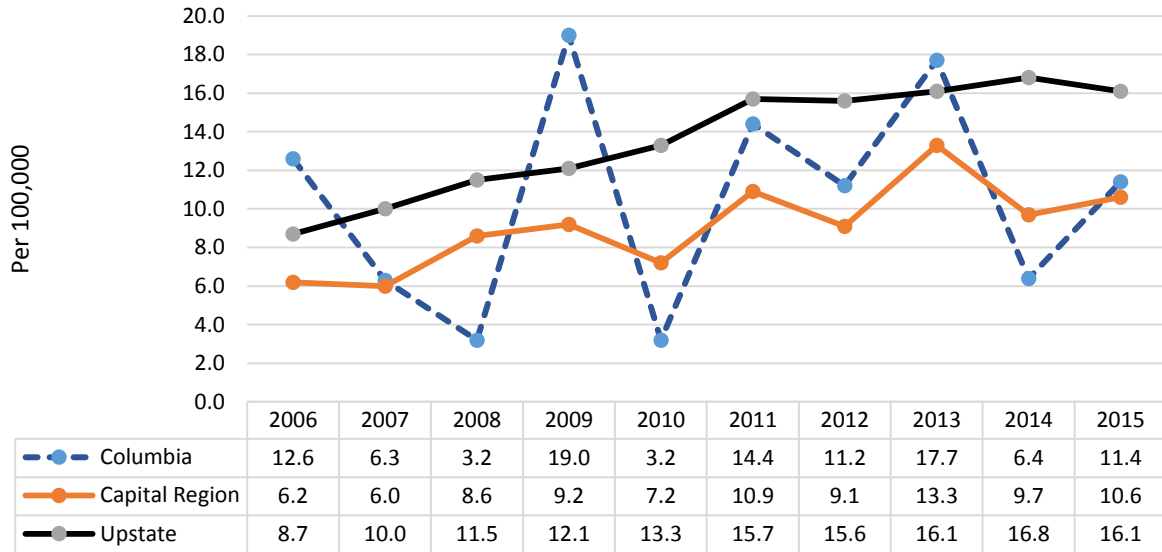
### *Columbia County Hospitalization Highlights*

- Columbia averaged 7 opioid overdose hospitalizations a year.
- The hospitalization rate fluctuated over the past decade due to small numbers.
- Males had an 18% higher hospitalization rate than female residents.
- Between 2005-07 and 2012-14, heroin grew from 11% of hospitalizations due to opioid overdose to 23%.

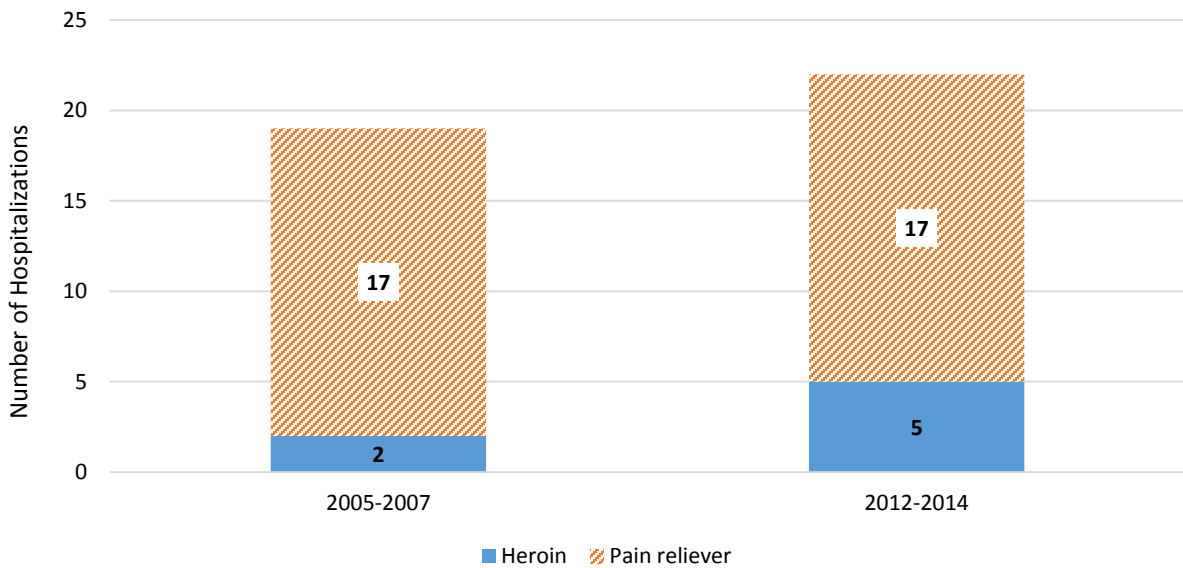
<b>Age-Adjusted Opioid Overdose Hospitalization Rate per 100,000, Columbia County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup></b>					
	<b>Columbia County</b>		<b>Capital Region</b>		<b>Upstate NY</b>
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	7	11.6	102	10.2	15.3
<b>Age</b>					
0-14 years	0	0.0	1	0.6	1.1
15-24 years	1	19.0	17	11.1	15.3
25-34 years	1	17.3	20	17.1	24.8
35-44 years	1	9.4	17	14.2	17.4
45-64 years	4	17.2	36	12.9	21.7
65-74 years	<1	3.7	7	7.4	17.4
75+ years	0	0.0	5	8.7	13.5
<b>Gender</b>					
Male	4	12.6	55	10.9	16.9
Female	3	10.7	48	9.3	13.7
<b>Race/Ethnicity</b>					
White non-Hispanic	7	12.3	90	11.0	16.8
Black non-Hispanic	0	0.0	5	6.1	11.3
Hispanic	0	0.0	2	7.9	10.8
Other	<1	40.0	3	14.7	17.9
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	13	21.2	na
SES 2	5	23.7	22	12.5	na
SES 3	1	7.4	30	11.9	na
SES 4	1	9.9	25	10.5	na
SES 5 (high)	<1	3.4	19	8.9	na

<sup>1</sup>Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose Hospitalization Rate per 100,000, Columbia, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>9</sup>**



**Heroin and Pain Reliever Overdose Hospitalizations, Columbia County, 2005-07 and 2012-14<sup>9</sup>**



## Emergency Department

### *Columbia County Emergency Department Highlights*

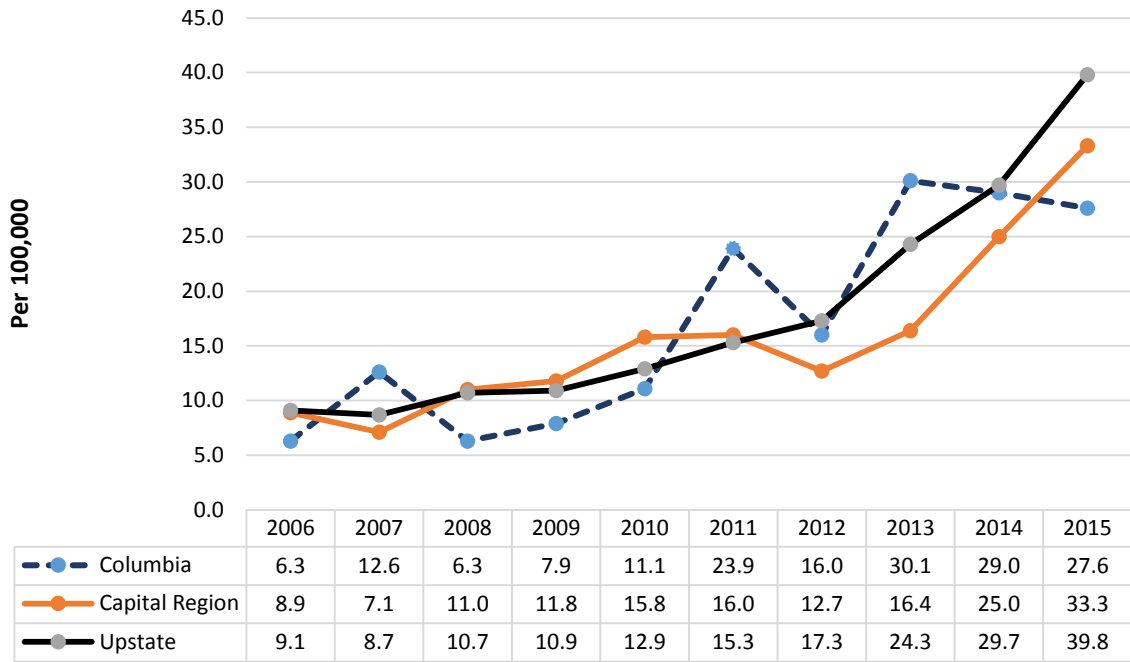
- Columbia averaged 16 opioid overdose ED Visits a year.
- The ED visit rate increased almost 340% over the past decade.
- Male residents had over 2.6 times the ED visit rate compared to female residents.
- Between 2005-07 and 2012-14, heroin grew from 11% of hospitalizations due to opioid overdose to 23%.

### Age-Adjusted Opioid Overdose ED Visit Rate per 100,000, Columbia County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

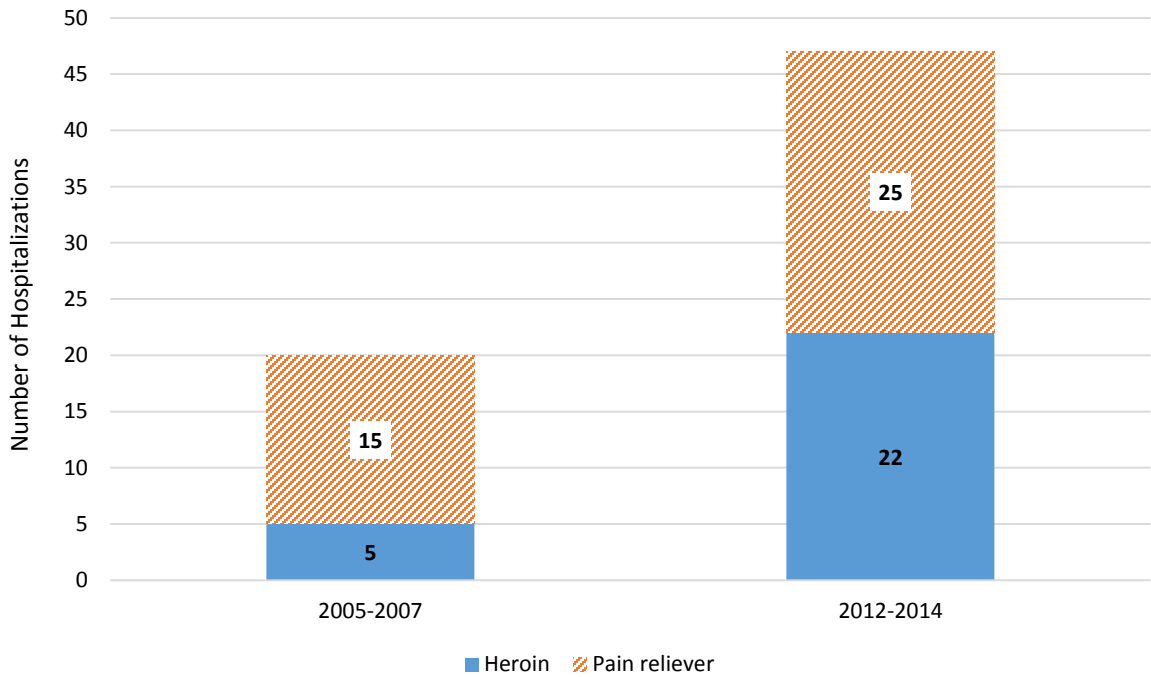
	Columbia County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	16	28.9	173	18.4	24.6
<b>Age</b>					
0-14 years	0	0.0	4	2.3	2.8
15-24 years	5	75.1	50	33.7	51.4
25-34 years	5	81.9	56	47.1	63.6
35-44 years	2	24.9	26	22.7	26.5
45-64 years	2	9.0	32	12.0	14.5
65-74 years	2	21.1	4	4.8	6.1
75+ years	0	0.0	1	2.2	4.7
<b>Gender</b>					
Male	11	42.0	110	23.5	31.1
Female	4	16.0	63	13.2	17.7
<b>Race/Ethnicity</b>					
White non-Hispanic	15	34.2	149	19.8	28.0
Black non-Hispanic	0	0.0	13	15.9	13.2
Hispanic	1	28.0	4	9.2	16.9
Other	<1	26.4	7	15.5	26.8
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	27	43.2	na
SES 2	6	31.9	42	24.7	na
SES 3	3	40.7	50	21.1	na
SES 4	2	21.8	48	21.3	na
SES 5 (high)	4	28.0	33	17.6	na

<sup>1</sup>Red = Unstable (less than 10 events in numerator)

**Opioid Overdose ED Visit Rate per 100,000, Columbia, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>9</sup>**



**Heroin and Pain Reliever Overdose Emergency Department Visits, Columbia County, 2005-07 and 2012-14<sup>9</sup>**



## Greene County

### Mortality

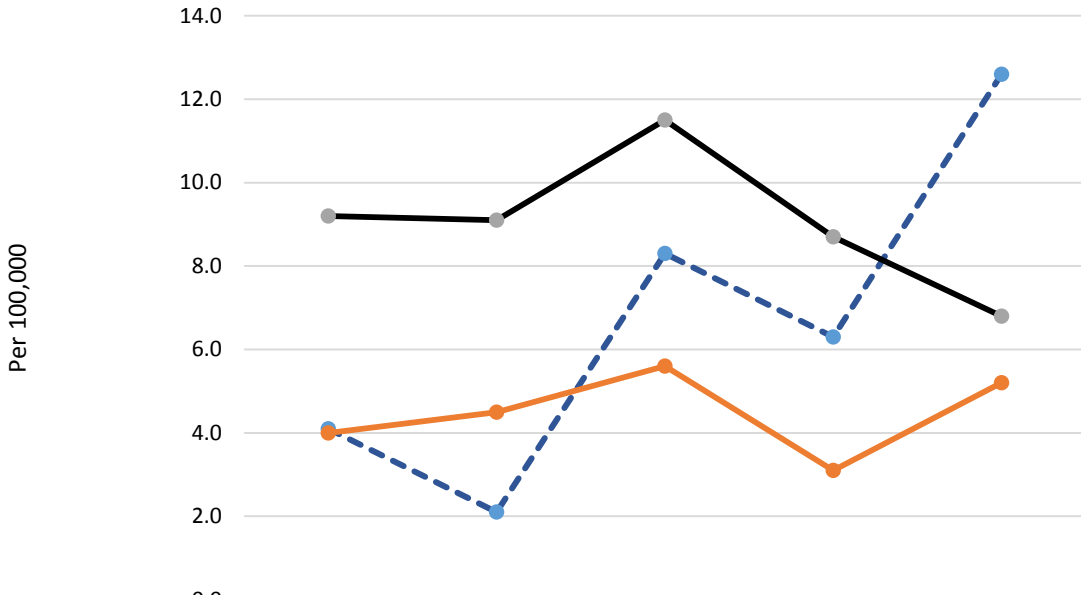
#### *Greene County Mortality Highlights*

- Greene averaged 3 opioid overdose deaths year.
- The mortality rate increased over the 200% from 2011 to 2015; rates higher than both the Capital Region and Upstate.
- Males had almost 4 times the mortality rate than female residents.

<b>Age-Adjusted Opioid Overdose Mortality Rate per 100,000, Greene County, Capital Region and NYS excl. NYC, 2012-2014<sup>10</sup></b>					
	<b>Greene County</b>		<b>Capital Region</b>		<b>Upstate NY</b>
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	3	6.7	42	4.3	9.8
<b>Age</b>					
0-14 years	0	0.0	<1	0.2	0.1
15-24 years	0	0.0	5	3.1	7.6
25-34 years	1	20.3	12	10.1	19.0
35-44 years	1	17.9	6	5.2	15.1
45-64 years	1	4.8	16	6.2	14.5
65-74 years	0	0.0	2	2.5	3.9
75+ years	0	0.0	1	1.6	3.0
<b>Gender</b>					
Male	2	10.1	26	5.5	13.1
Female	1	2.6	17	3.1	6.4
<b>Race/Ethnicity</b>					
White non-Hispanic	3	8.1	39	4.8	11.4
Black non-Hispanic	0	0.0	3	3.6	6.7
Hispanic	0	0.0	1	1.6	5.9
Other	0	0.0	0	0.0	2.4
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	4	8.5	na
SES 2	2	10.1	9	5.3	na
SES 3	1	4.2	10	4.2	na
SES 4	<1	5.7	9	4.0	na
SES 5 (high)	0	0.0	8	3.8	na

<sup>1</sup>Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose Mortality Rate per 100,000, Greene, Capital Region , and NYS excl. NYC, 2006 to 2015<sup>10</sup>**



	2011	2012	2013	2014	2015
Greene	4.1	2.1	8.3	6.3	12.6
Capital Region	4.0	4.5	5.6	3.1	5.2
Upstate	9.2	9.1	11.5	8.7	6.8



## Hospitalizations

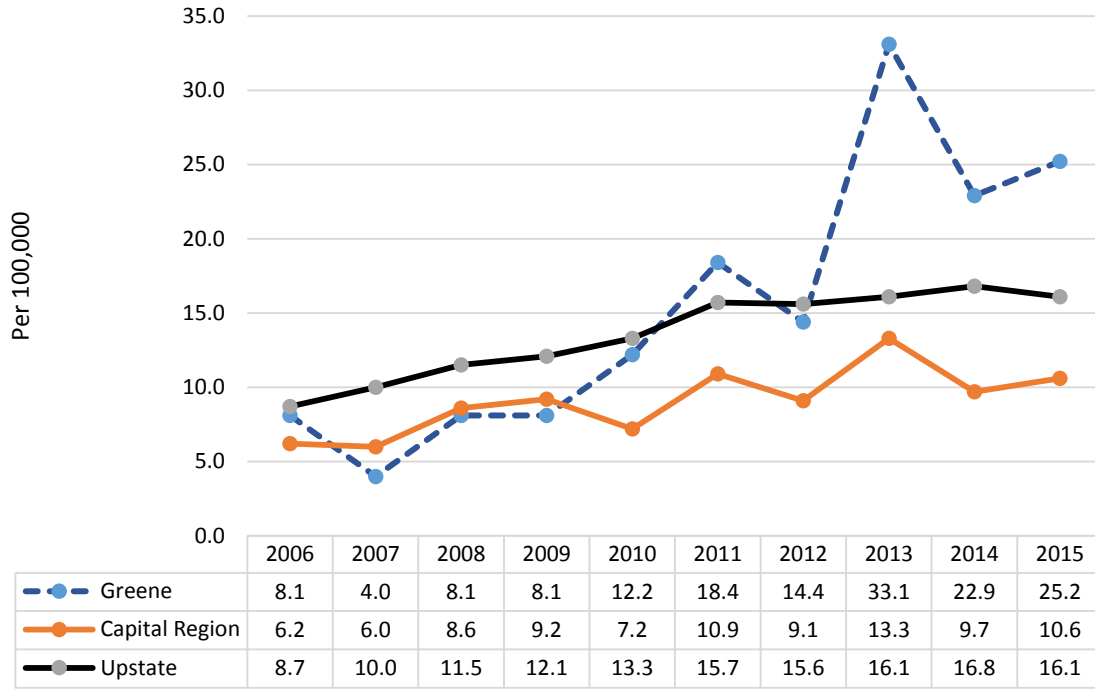
### Greene County Hospitalization Highlights

- Columbia averaged 11 opioid overdose hospitalizations a year.
- The hospitalization rate increased over 200% over the last decade; the rate higher than both the Capital Region and Upstate.
- Males had a 22% higher hospitalization rates than female residents.
- Between 2005-07 and 2012-14, heroin grew from 17% of hospitalizations due to opioid overdose to 38%.

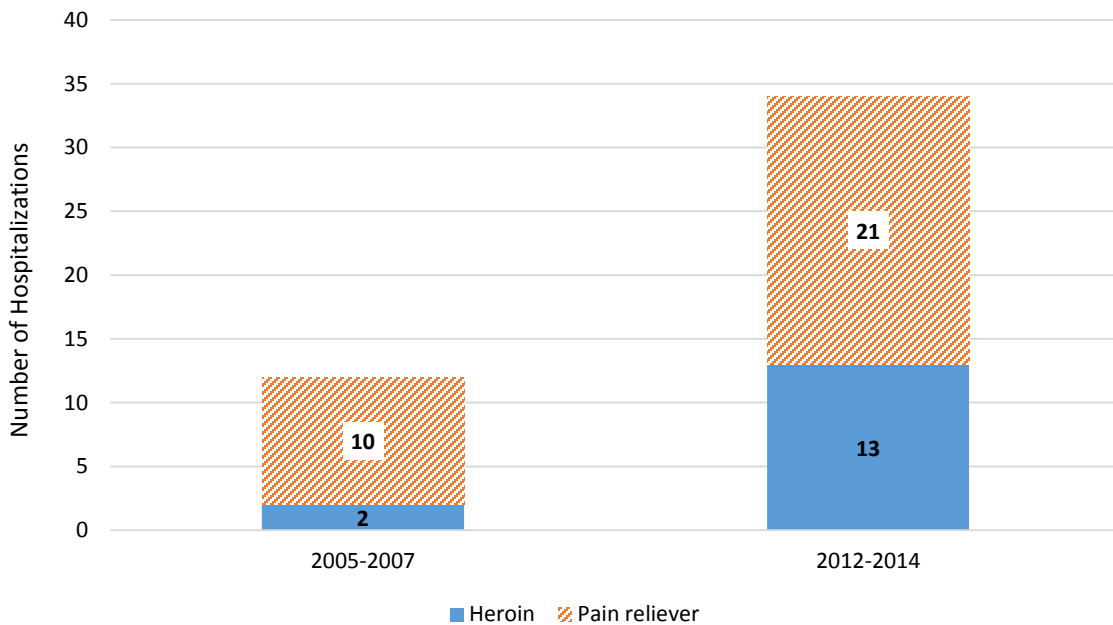
Age-Adjusted Opioid Overdose Hospitalization Rate per 100,000, Greene County, Capital Region and NYS excl. NYC, 2012-2014 <sup>9</sup>					
	Greene County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	11	24.8	102	10.2	15.3
<b>Age</b>					
0-14 years	0	0.0	1	0.6	1.1
15-24 years	1	18.2	17	11.1	15.3
25-34 years	3	55.0	20	17.1	24.8
35-44 years	3	61.2	17	14.2	17.4
45-64 years	2	12.9	36	12.9	21.7
65-74 years	1	22.8	7	7.4	17.4
75+ years	<1	8.4	5	8.7	13.5
<b>Gender</b>					
Male	7	27.2	55	10.9	16.9
Female	4	22.3	48	9.3	13.7
<b>Race/Ethnicity</b>					
White non-Hispanic	10	25.4	90	11.0	16.8
Black non-Hispanic	0	0.0	5	6.1	11.3
Hispanic	0	0.0	2	7.9	10.8
Other	2	264.4	3	14.7	17.9
<b>Socioeconomic Status</b>					
SES 1 (low)	1	62.3	13	21.2	na
SES 2	5	24.8	22	12.5	na
SES 3	4	23.8	30	11.9	na
SES 4	1	21.5	25	10.5	na
SES 5 (high)	0	0.0	19	8.9	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose Hospitalization Rate per 100,000, Greene, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>9</sup>**



**Heroin and Pain Reliever Overdose Hospitalizations, Greene County, 2005-07 and 2012-14<sup>9</sup>**



## Emergency Department

### Greene County Emergency Department Highlights

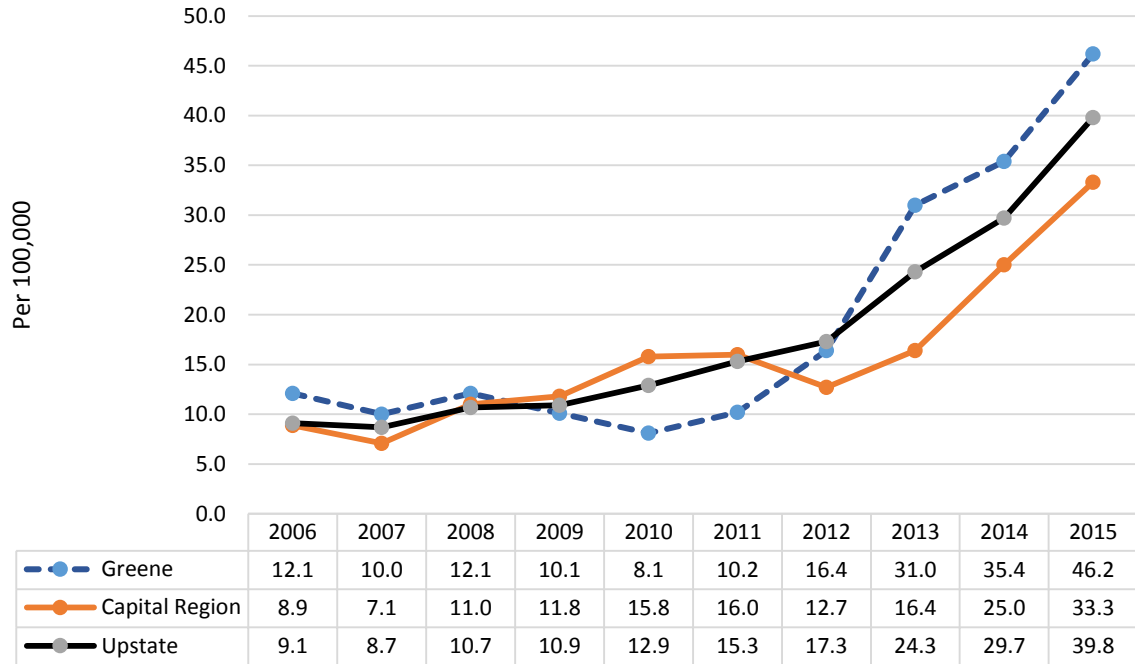
- Greene averaged 13 opioid overdose ED Visits a year.
- The ED visit rate increased over 280% over the past decade; rates were higher than both the Capital Region and Upstate.
- Male residents had over 1.6 times the ED visit rate compared to female residents.
- Between 2005-07 and 2012-14, heroin grew from 25% of hospitalizations due to opioid overdose to 43%.

### Age-Adjusted Opioid Overdose ED Visit Rate per 100,000, Greene County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

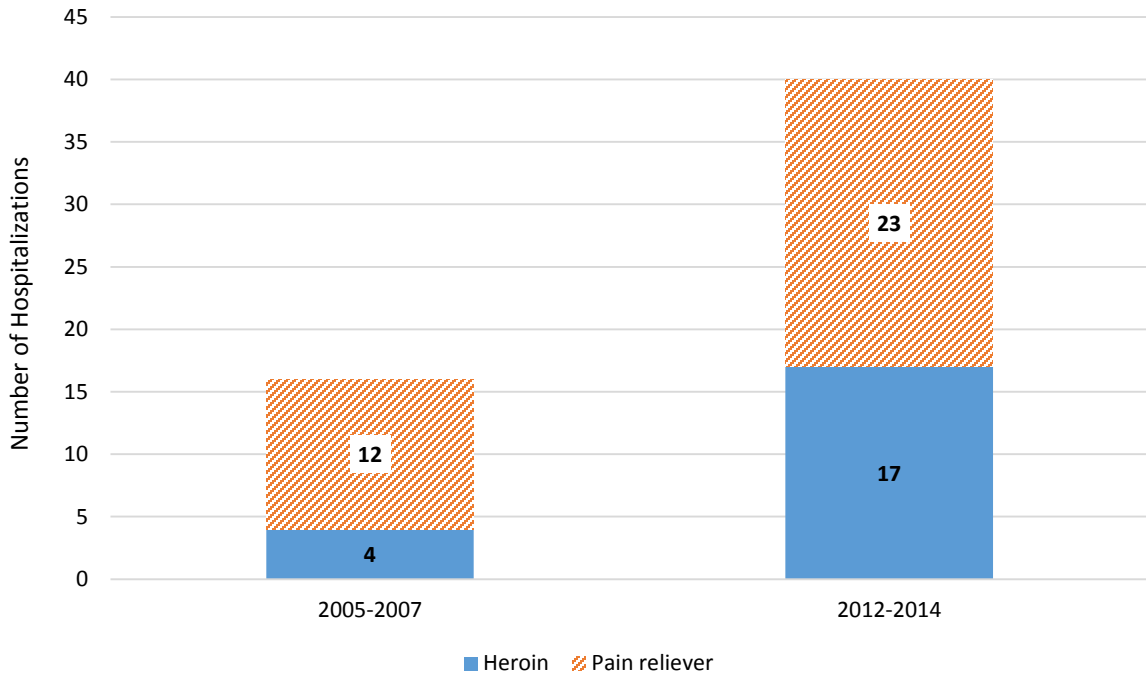
	Greene County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	13	32.2	173	18.4	24.6
<b>Age</b>					
0-14 years	1	13.7	4	2.3	2.8
15-24 years	3	39.5	50	33.7	51.4
25-34 years	5	102.6	56	47.1	63.6
35-44 years	2	42.2	26	22.7	26.5
45-64 years	1	9.6	32	12.0	14.5
65-74 years	1	14.0	4	4.8	6.1
75+ years	0	0.0	1	2.2	4.7
<b>Gender</b>					
Male	9	38.9	110	23.5	31.1
Female	5	24.3	63	13.2	17.7
<b>Race/Ethnicity</b>					
White non-Hispanic	12	34.2	149	19.8	28.0
Black non-Hispanic	0	0.0	13	15.9	13.2
Hispanic	1	23.1	4	9.2	16.9
Other	1	146.1	7	15.5	26.8
<b>Socioeconomic Status</b>					
SES 1 (low)	1	117.9	27	43.2	na
SES 2	7	41.4	42	24.7	na
SES 3	5	24.7	50	21.1	na
SES 4	1	16.7	48	21.3	na
SES 5 (high)	0	0.0	33	17.6	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose ED Visit Rate per 100,000, Greene, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>9</sup>**



**Heroin and Pain Reliever Overdose Emergency Department Visits, Greene County, 2005-07 and 2012-14<sup>9</sup>**



## Rensselaer County

### Mortality

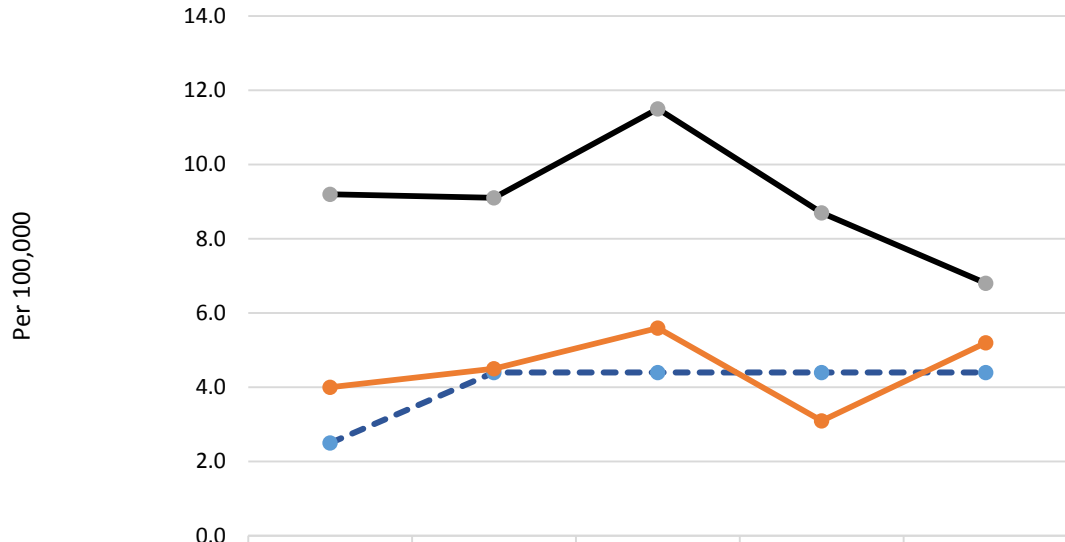
#### *Rensselaer County Mortality Highlights*

- Rensselaer averaged 7 opioid overdose deaths per year.
- Males had a mortality rate almost twice the rate of female residents.
- Between 2012 and 2015, Rensselaer County had static opioid mortality rates, similar to those of the Capital Region.

<b>Age-Adjusted Opioid Overdose Mortality Rate per 100,000, Rensselaer County, Capital Region and NYS excl. NYC, 2012-2014<sup>10</sup></b>					
	Rensselaer County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	7	4.2	42	4.3	9.8
<b>Age</b>					
0-14 years	<1	1.3	<1	0.2	0.1
15-24 years	0	0.0	5	3.1	7.6
25-34 years	2	11.2	12	10.1	19.0
35-44 years	1	5.2	6	5.2	15.1
45-64 years	2	4.9	16	6.2	14.5
65-74 years	1	7.3	2	2.5	3.9
75+ years	0	0.0	1	1.6	3.0
<b>Gender</b>					
Male	4	5.5	26	5.5	13.1
Female	3	2.9	17	3.1	6.4
<b>Race/Ethnicity</b>					
White non-Hispanic	6	4.3	39	4.8	11.4
Black non-Hispanic	1	5.1	3	3.6	6.7
Hispanic	0	0.0	1	1.6	5.9
Other	0	0.0	0	0.0	2.4
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	4	8.5	na
SES 2	3	10.1	9	5.3	na
SES 3	0	0.0	10	4.2	na
SES 4	3	7.7	9	4.0	na
SES 5 (high)	1	4.2	8	3.8	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose Mortality Rate per 100,000, Rensselaer, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>10</sup>**



	2011	2012	2013	2014	2015
—●— Rensselaer	2.5	4.4	4.4	4.4	4.4
—●— Capital Region	4.0	4.5	5.6	3.1	5.2
—●— Upstate	9.2	9.1	11.5	8.7	6.8

## Hospitalizations

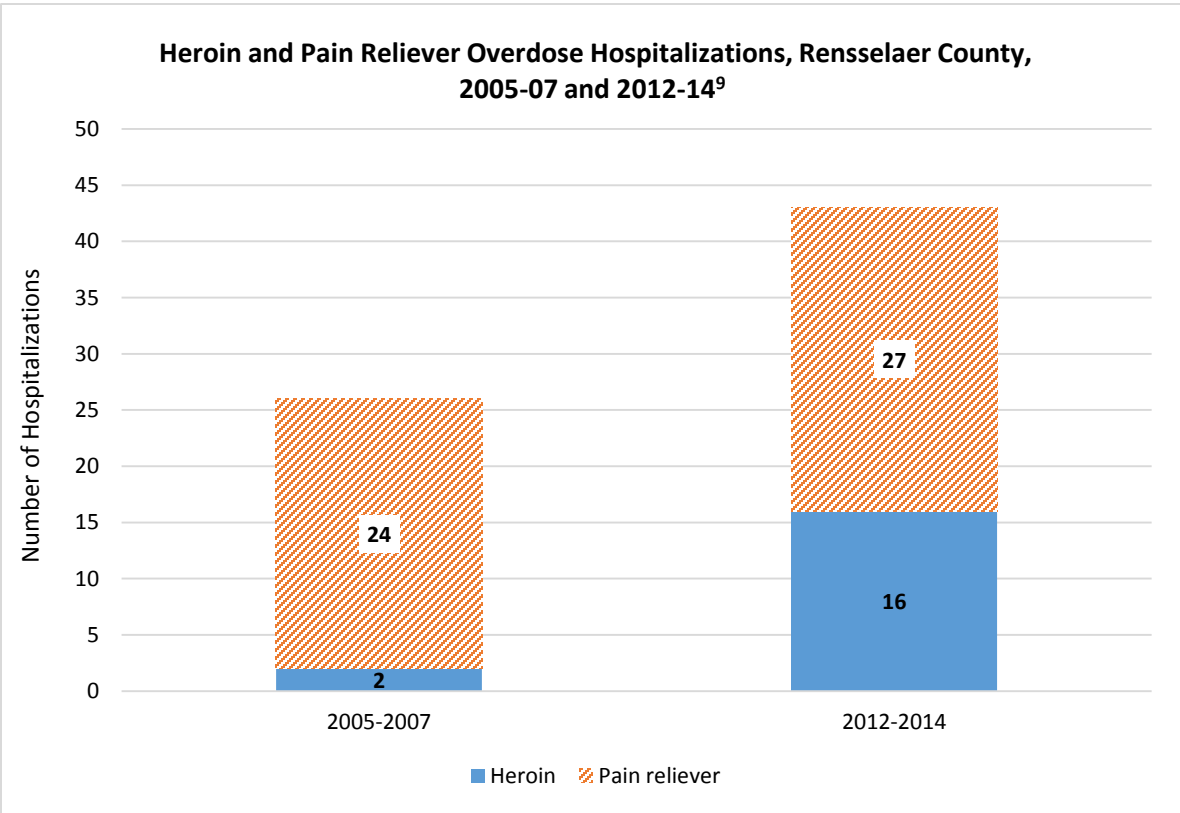
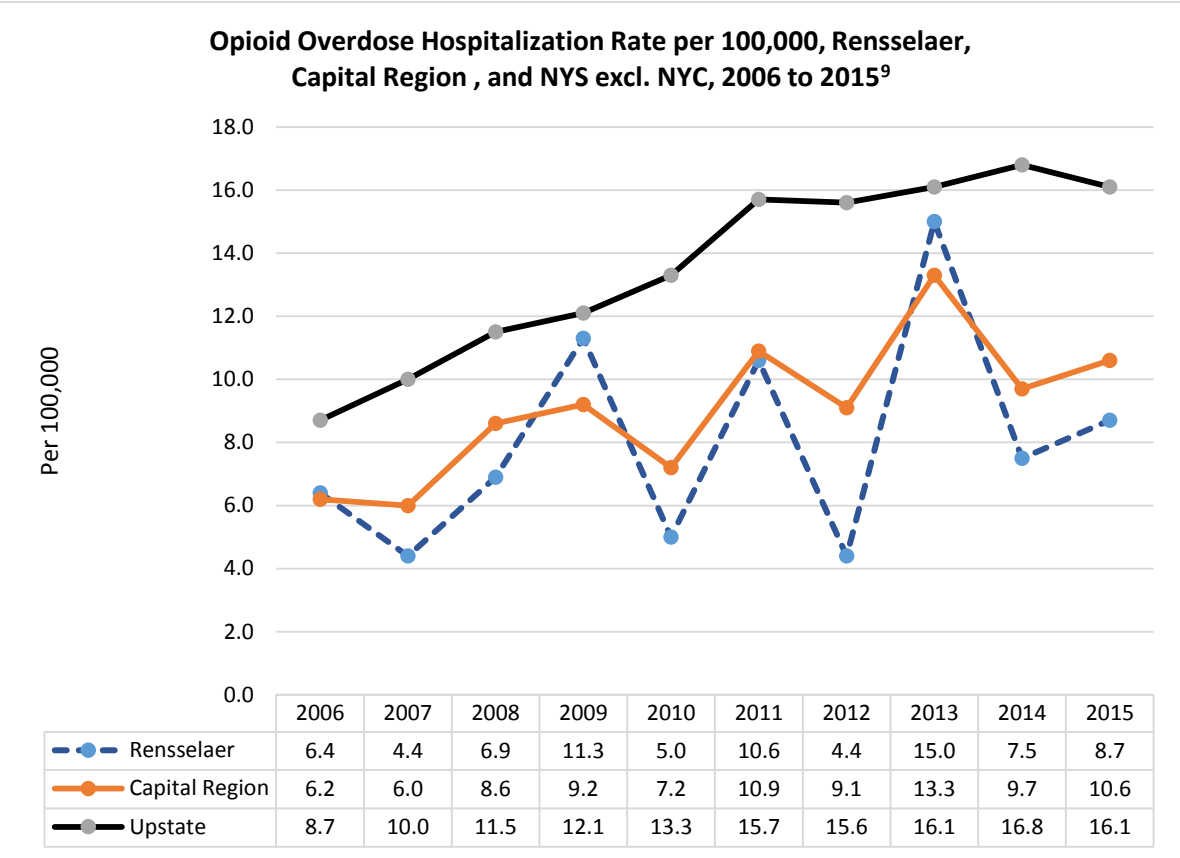
### *Rensselaer County Hospitalization Highlights*

- Rensselaer averaged 14 opioid overdose hospitalizations a year.
- The hospitalization rate fluctuated over the past decade due to small numbers.
- Males had over 60% higher hospitalization rate than female residents.
- Between 2005-07 and 2012-14, heroin grew from 8% of hospitalizations due to opioid overdose to 37%.

### Age-Adjusted Opioid Overdose Hospitalization Rate per 100,000, Rensselaer County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

	Rensselaer County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	14	8.5	102	10.2	15.3
<b>Age</b>					
0-14 years	<1	1.2	1	0.6	1.1
15-24 years	2	6.8	17	11.1	15.3
25-34 years	4	19.0	20	17.1	24.8
35-44 years	2	10.2	17	14.2	17.4
45-64 years	4	8.8	36	12.9	21.7
65-74 years	1	9.9	7	7.4	17.4
75+ years	1	7.4	5	8.7	13.5
<b>Gender</b>					
Male	9	10.6	55	10.9	16.9
Female	6	6.5	48	9.3	13.7
<b>Race/Ethnicity</b>					
White non-Hispanic	13	9.1	90	11.0	16.8
Black non-Hispanic	<1	2.7	5	6.1	11.3
Hispanic	<1	8.6	2	7.9	10.8
Other	1	27.7	3	14.7	17.9
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	13	21.2	na
SES 2	6	7.2	22	12.5	na
SES 3	4	12.0	30	11.9	na
SES 4	3	12.7	25	10.5	na
SES 5 (high)	4	14.9	19	8.9	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)





## Emergency Department

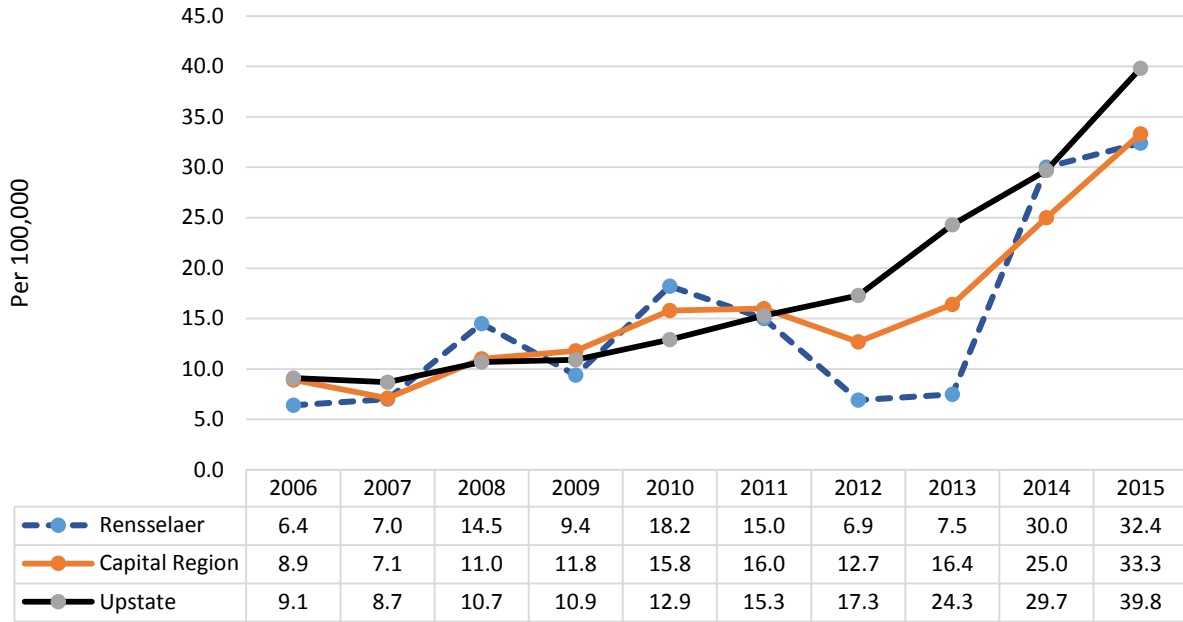
### *Rensselaer County Emergency Department Highlights*

- Rensselaer averaged 24 opioid overdose ED Visits a year.
- The ED visit rate increased 400% over the past decade.
- Male residents had over 1.6 times the ED visit rate compared to female residents.
- The 15-24 and 25-44 year age groups had the highest opioid overdose ED visit rates.

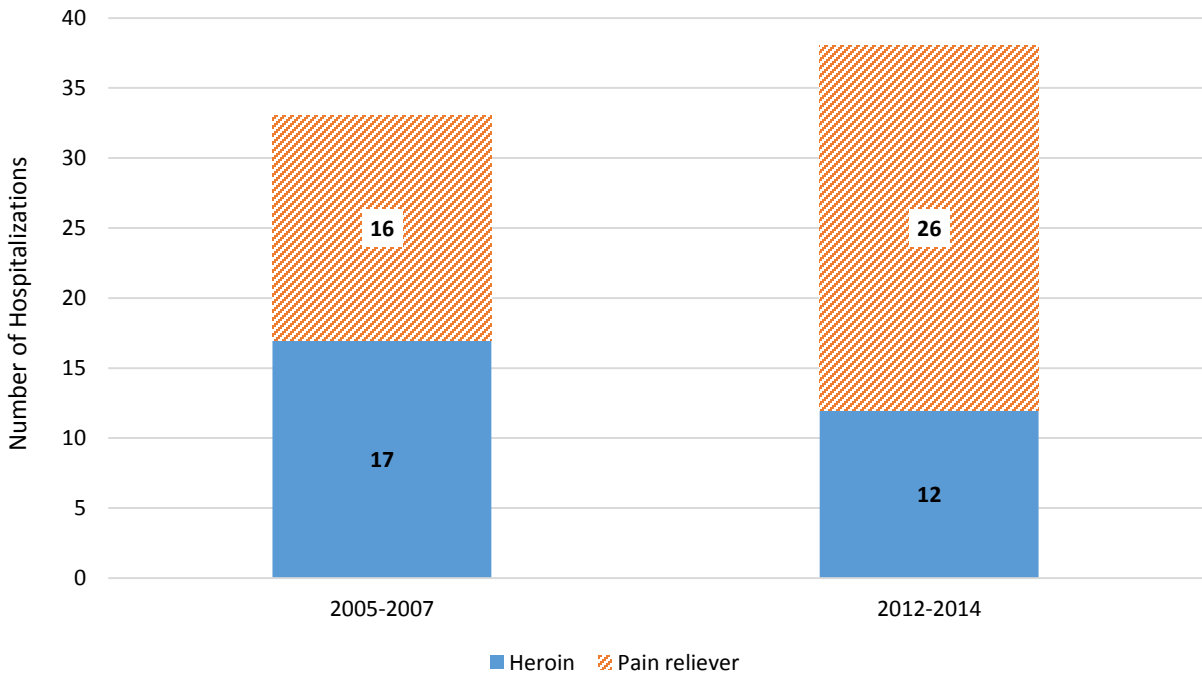
<b>Age-Adjusted Opioid Overdose ED Visit Rate per 100,000, Rensselaer County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup></b>					
	<b>Rensselaer County</b>		<b>Capital Region</b>		<b>Upstate NY</b>
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	24	14.4	173	18.4	24.6
<b>Age</b>					
0-14 years	0	0.0	4	2.3	2.8
15-24 years	9	36.0	50	33.7	51.4
25-34 years	8	36.0	56	47.1	63.6
35-44 years	3	14.5	26	22.7	26.5
45-64 years	4	9.6	32	12.0	14.5
65-74 years	0	0.0	4	4.8	6.1
75+ years	0	0.0	1	2.2	4.7
<b>Gender</b>					
Male	15	18.0	110	23.5	31.1
Female	9	10.4	63	13.2	17.7
<b>Race/Ethnicity</b>					
White non-Hispanic	20	14.1	149	19.8	28.0
Black non-Hispanic	2	20.6	13	15.9	13.2
Hispanic	<1	5.3	4	9.2	16.9
Other	1	24.5	7	15.5	26.8
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	27	43.2	na
SES 2	19	22.5	42	24.7	na
SES 3	8	24.7	50	21.1	na
SES 4	4	22.4	48	21.3	na
SES 5 (high)	7	29.9	33	17.6	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose ED Visit Rate per 100,000, Rensselaer, Capital Region, and NYS excl. NYC, 2006 to 2015<sup>9</sup>**



**Heroin and Pain Reliever Overdose Emergency Department Visits, Rensselaer County, 2005-07 and 2012-14<sup>9</sup>**



## Saratoga County

### Mortality

#### *Saratoga County Mortality Highlights*

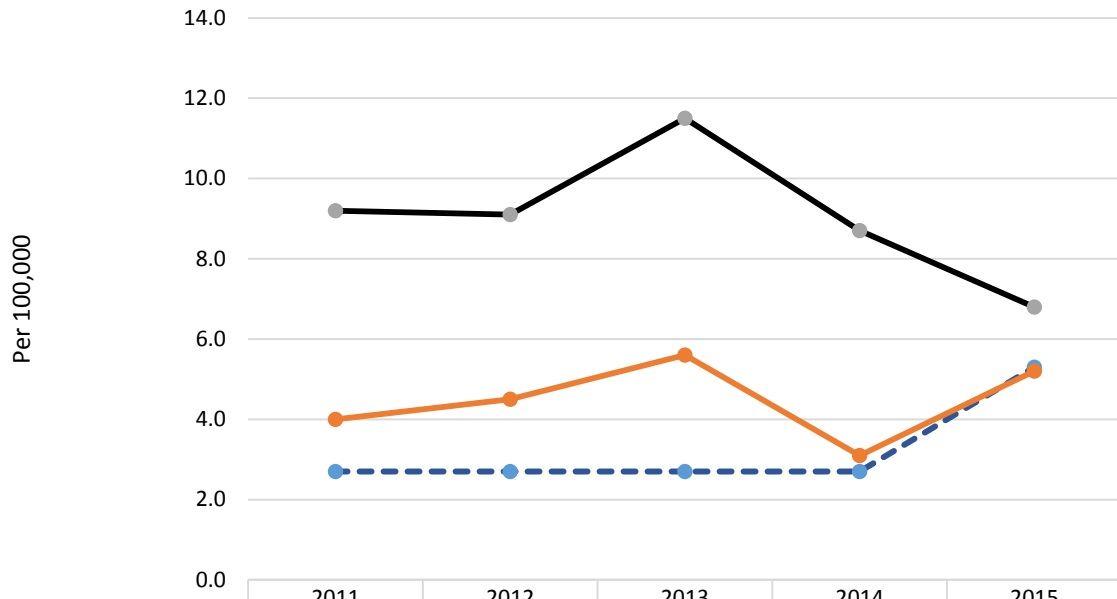
- Saratoga averaged 7 opioid overdose deaths per year.
- Male and female residents had similar mortality rates.
- The 45-64 year age group had the highest mortality rate.
- Between 2014 and 2015, the opioid overdose mortality rate almost doubled in Saratoga County.

#### Age-Adjusted Opioid Overdose Mortality Rate per 100,000, Saratoga County, Capital Region and NYS excl. NYC, 2012-2014<sup>10</sup>

	Saratoga County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	6	2.5	42	4.3	9.8
<b>Age</b>					
0-14 years	0	0.0	<1	0.2	0.1
15-24 years	1	2.6	5	3.1	7.6
25-34 years	1	3.8	12	10.1	19.0
35-44 years	1	5.2	6	5.2	15.1
45-64 years	3	5.3	16	6.2	14.5
65-74 years	0	0.0	2	2.5	3.9
75+ years	0	0.0	1	1.6	3.0
<b>Gender</b>					
Male	3	2.4	26	5.5	13.1
Female	3	2.6	17	3.1	6.4
<b>Race/Ethnicity</b>					
White non-Hispanic	6	2.6	39	4.8	11.4
Black non-Hispanic	0	0.0	3	3.6	6.7
Hispanic	<1	5.3	1	1.6	5.9
Other	0	0.0	0	0.0	2.4
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	4	8.5	na
SES 2	0	0.0	9	5.3	na
SES 3	<1	1.4	10	4.2	na
SES 4	3	2.6	9	4.0	na
SES 5 (high)	2	2.6	8	3.8	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

**Crude Opioid Overdose Mortality Rate per 100,000, Saratoga, Capital Region , and NYS excl. NYC, 2006 to 2015<sup>10</sup>**



	2011	2012	2013	2014	2015
—●— Saratoga	2.7	2.7	2.7	2.7	5.3
—●— Capital Region	4.0	4.5	5.6	3.1	5.2
—●— Upstate	9.2	9.1	11.5	8.7	6.8

## Hospitalizations

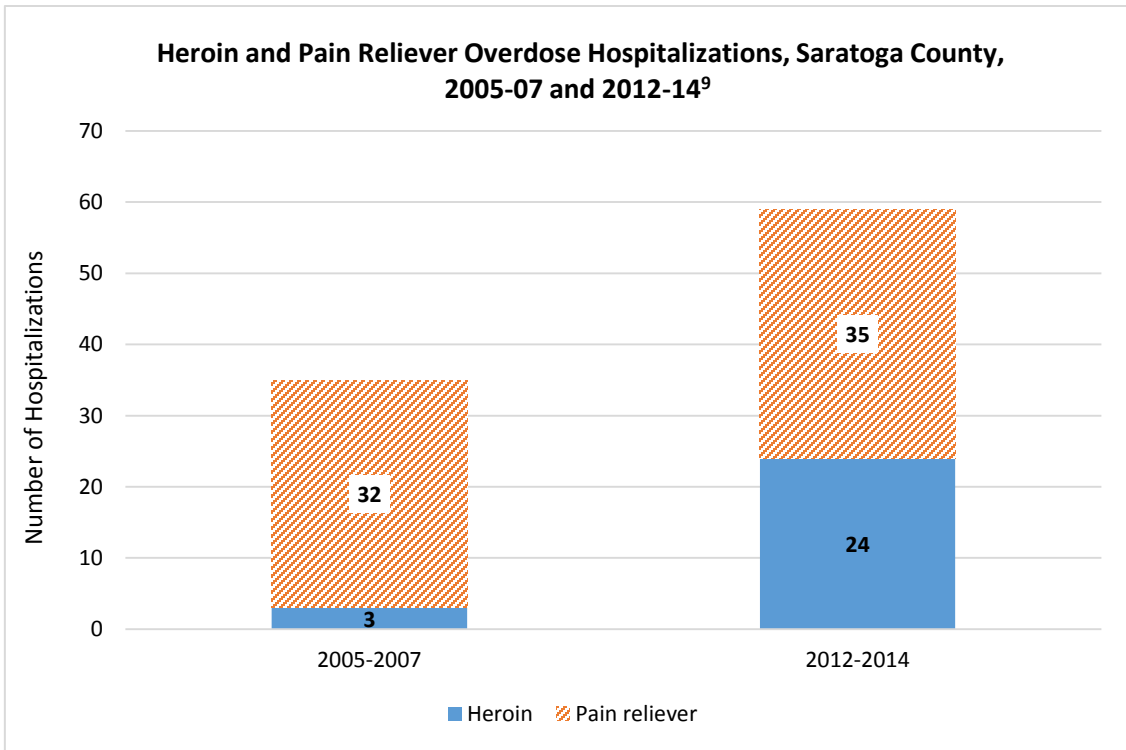
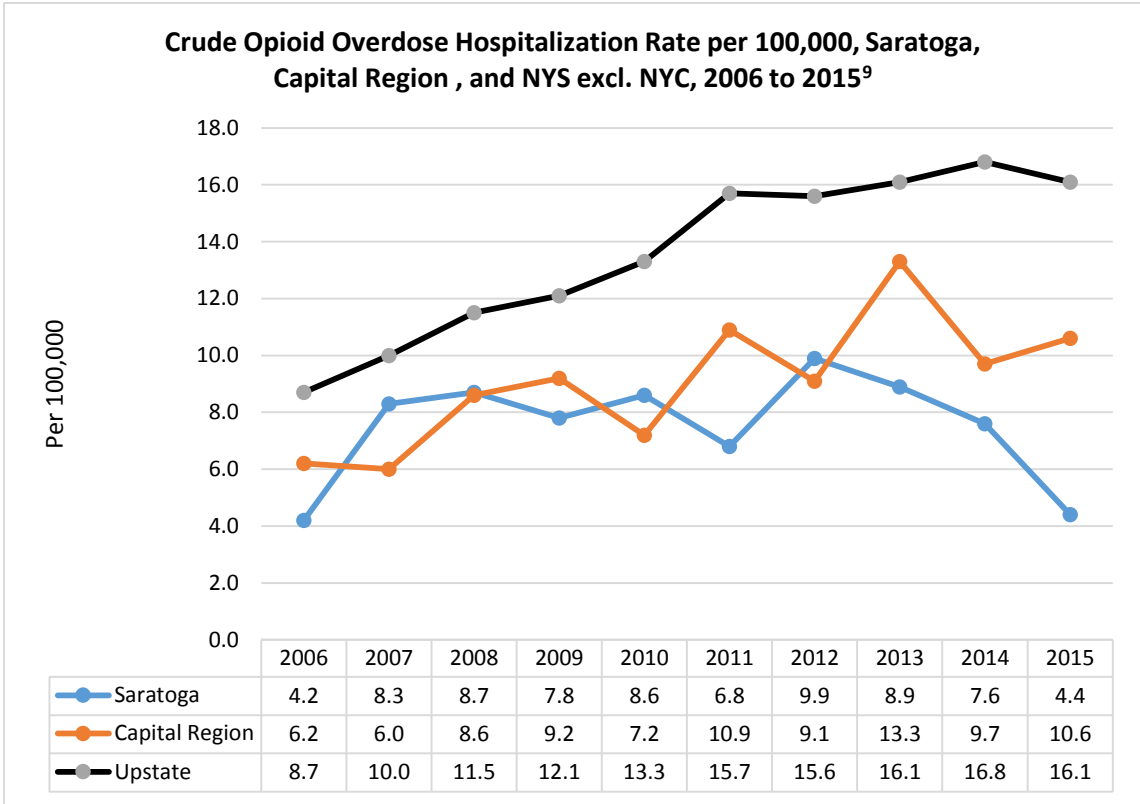
### Saratoga County Hospitalization Highlights

- Saratoga averaged 20 opioid overdose hospitalizations a year.
- The rate decreased since 2012, with rates lower than the Capital Region.
- The 25-35 year age group had the highest opioid overdose hospitalization rate.
- Males had a 30% higher hospitalization rate than female residents.
- Between 2005-07 and 2012-14, heroin grew from 9% of hospitalizations due to opioid overdose to 41%.

### Age-Adjusted Opioid Overdose Hospitalization Rate per 100,000, Saratoga County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

	Saratoga County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	20	9.0	102	10.2	15.3
<b>Age</b>					
0-14 years	0	0.0	1	0.6	1.1
15-24 years	5	19.2	17	11.1	15.3
25-34 years	6	23.0	20	17.1	24.8
35-44 years	3	9.3	17	14.2	17.4
45-64 years	4	5.1	36	12.9	21.7
65-74 years	1	5.0	7	7.4	17.4
75+ years	1	4.3	5	8.7	13.5
<b>Gender</b>					
Male	11	10.2	55	10.9	16.9
Female	9	7.8	48	9.3	13.7
<b>Race/Ethnicity</b>					
White non-Hispanic	19	9.5	90	11.0	16.8
Black non-Hispanic	0	0.0	5	6.1	11.3
Hispanic	<1	5.6	2	7.9	10.8
Other	<1	4.8	3	14.7	17.9
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	13	21.2	na
SES 2	0	0.0	22	12.5	na
SES 3	5	17.7	30	11.9	na
SES 4	10	9.8	25	10.5	na
SES 5 (high)	7	9.3	19	8.9	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)



## Emergency Department

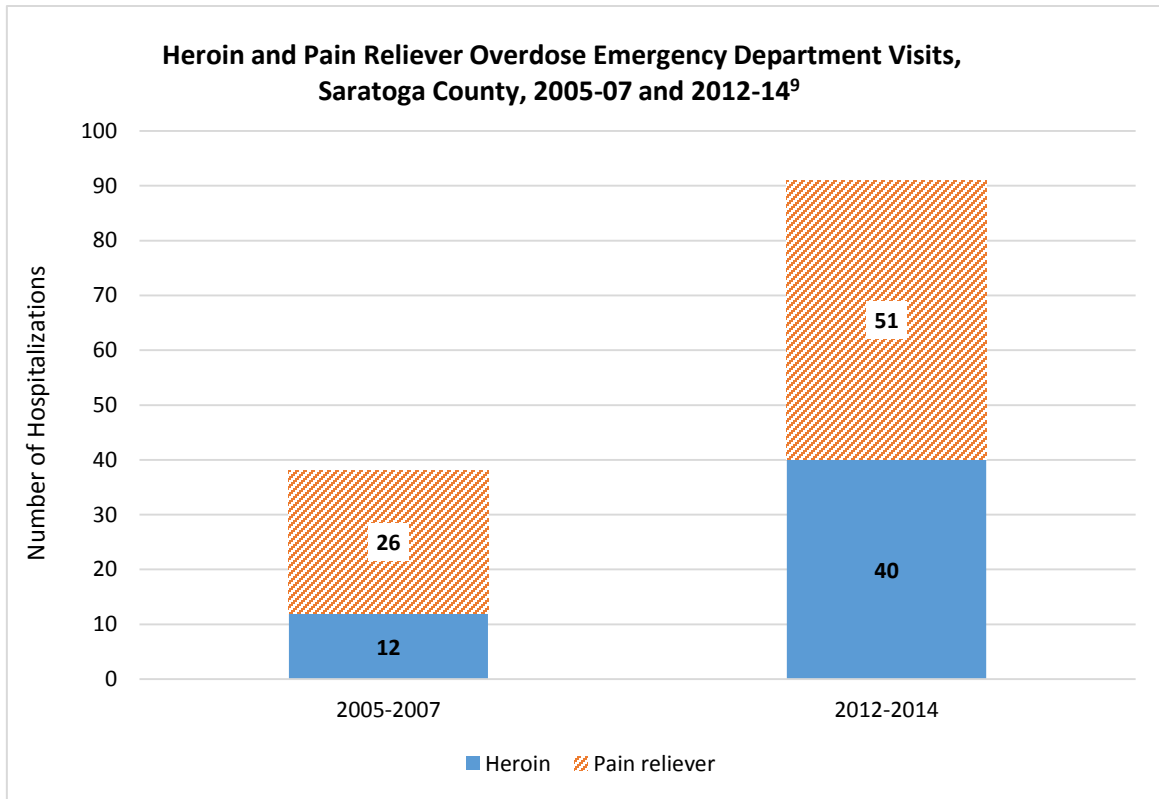
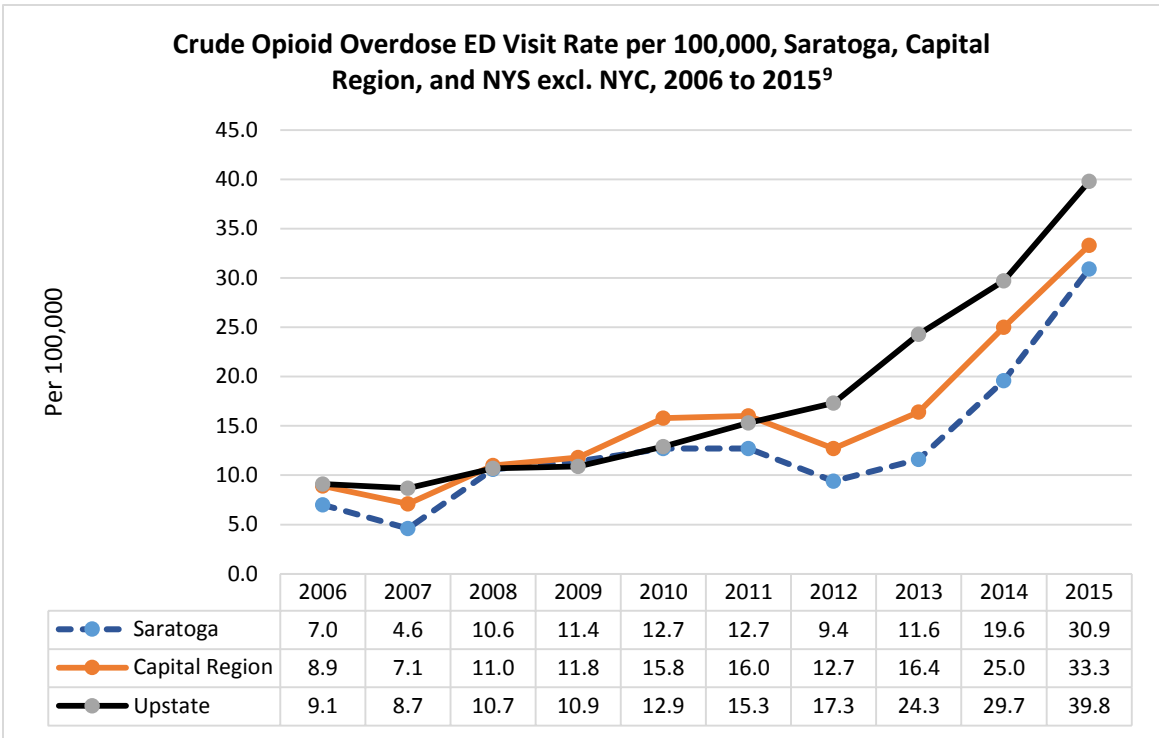
### *Saratoga County Emergency Department Highlights*

- Saratoga averaged 30 opioid overdose ED Visits a year.
- The ED visit rate increased 340% over the past decade.
- Male residents had 1.4 times the ED visit rate compared to female residents.
- The 15-24 and 25-34 year age groups had the highest opioid overdose ED visit rates.
- Between 2005-07 and 2012-14, heroin grew from 30% of ED visits due to opioid overdose to 44%.

### Age-Adjusted Opioid Overdose ED Visit Rate per 100,000, Saratoga County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

	Saratoga County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	30	14.6	173	18.4	24.6
<b>Age</b>					
0-14 years	1	3.3	4	2.3	2.8
15-24 years	9	31.6	50	33.7	51.4
25-34 years	9	32.4	56	47.1	63.6
35-44 years	5	18.0	26	22.7	26.5
45-64 years	4	6.2	32	12.0	14.5
65-74 years	1	4.6	4	4.8	6.1
75+ years	1	8.4	1	2.2	4.7
<b>Gender</b>					
Male	18	16.8	110	23.5	31.1
Female	12	12.1	63	13.2	17.7
<b>Race/Ethnicity</b>					
White non-Hispanic	30	15.9	149	19.8	28.0
Black non-Hispanic	<1	6.3	13	15.9	13.2
Hispanic	0	0.0	4	9.2	16.9
Other	0	0.0	7	15.5	26.8
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	27	43.2	na
SES 2	0	0.0	42	24.7	na
SES 3	5	20.6	50	21.1	na
SES 4	19	18.2	48	21.3	na
SES 5 (high)	10	14.3	33	17.6	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)





## Schenectady County

### Mortality

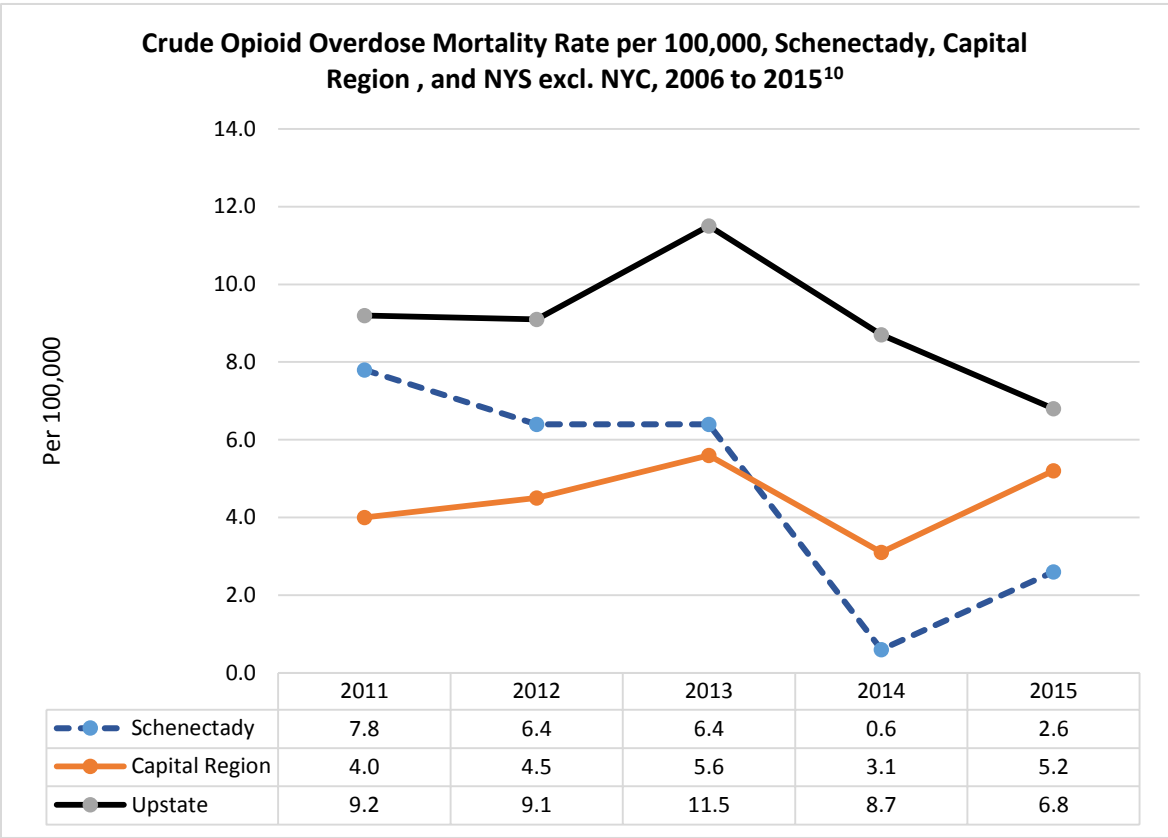
#### *Schenectady County Mortality Highlights*

- Schenectady averaged 6 opioid overdose deaths per year.
- Male and female residents had similar mortality rates.
- The 45-64 year age group had the highest mortality rate.
- Between 2011 and 2015, the opioid overdose mortality rate decreased 57%, with rates lower than the Capital Region.

#### Age-Adjusted Opioid Overdose Mortality Rate per 100,000, Schenectady County, Capital Region and NYS excl. NYC, 2012-2014<sup>10</sup>

	Schenectady County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	6	2.5	42	4.3	9.8
<b>Age</b>					
0-14 years	0	0.0	<1	0.2	0.1
15-24 years	1	2.6	5	3.1	7.6
25-34 years	1	3.8	12	10.1	19.0
35-44 years	1	5.2	6	5.2	15.1
45-64 years	3	5.3	16	6.2	14.5
65-74 years	0	0.0	2	2.5	3.9
75+ years	0	0.0	1	1.6	3.0
<b>Gender</b>					
Male	3	2.4	26	5.5	13.1
Female	3	2.6	17	3.1	6.4
<b>Race/Ethnicity</b>					
White non-Hispanic	6	2.6	39	4.8	11.4
Black non-Hispanic	0	0.0	3	3.6	6.7
Hispanic	<1	5.3	1	1.6	5.9
Other	0	0.0	0	0.0	2.4
<b>Socioeconomic Status</b>					
SES 1 (low)	0	0.0	4	8.5	na
SES 2	0	0.0	9	5.3	na
SES 3	<1	1.4	10	4.2	na
SES 4	3	2.6	9	4.0	na
SES 5 (high)	2	2.6	8	3.8	na

<sup>1</sup>Red = Unstable (less than 10 events in numerator)



## Hospitalizations

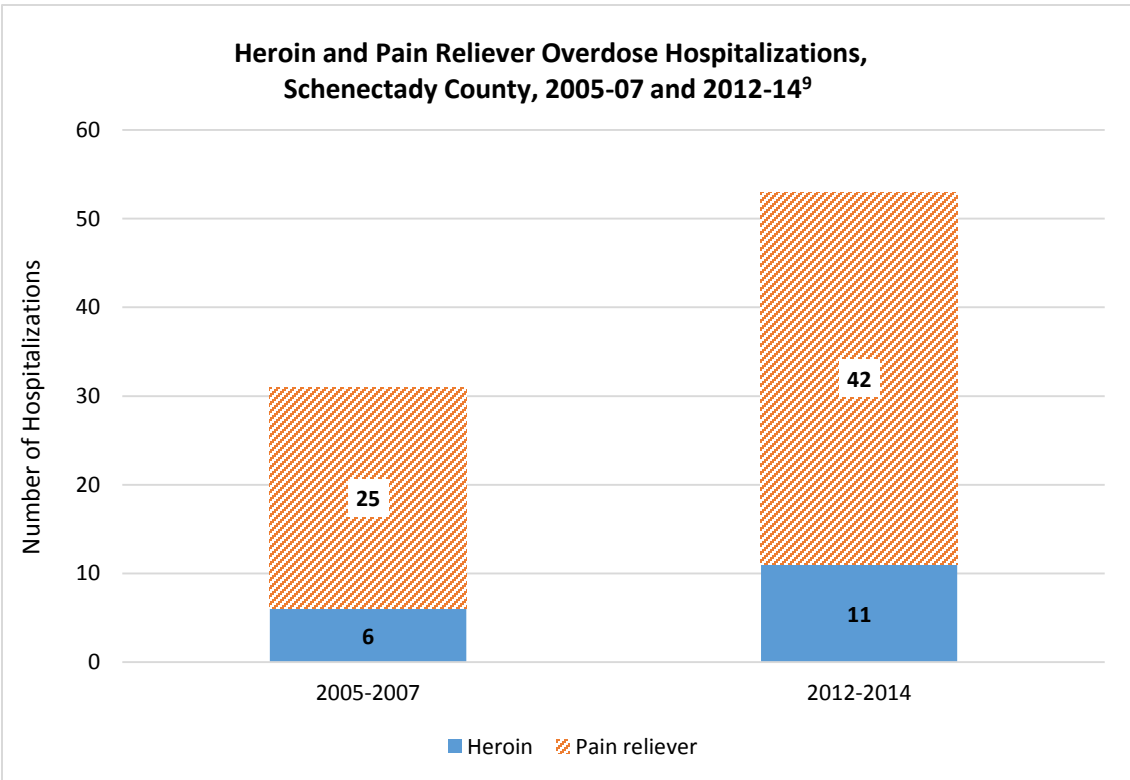
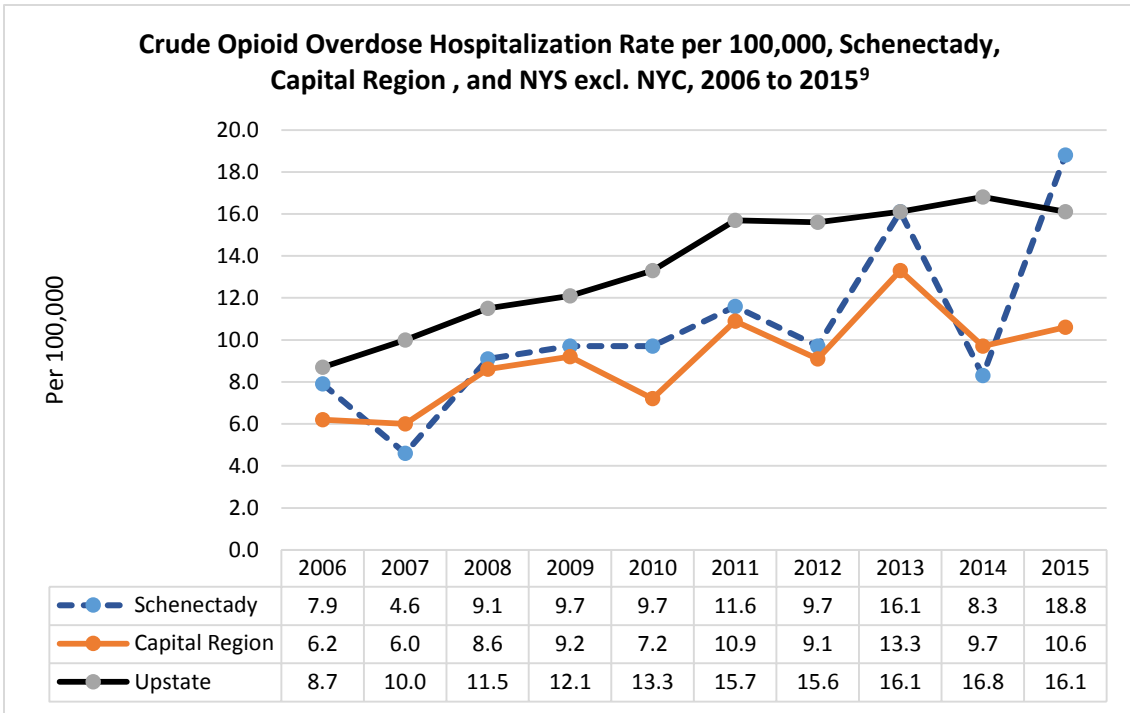
### *Schenectady County Hospitalization Highlights*

- Schenectady averaged 18 opioid overdose hospitalizations a year.
- The rate increased 38% over the past decade, with the 2015 rate higher than the Capital Region and Upstate.
- The 35-44 and 45-64 year age groups had the highest hospitalization rate.
- Males and females had similar hospitalization rates.

### Age-Adjusted Opioid Overdose Hospitalization Rate per 100,000, Schenectady County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

	Schenectady County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	18	10.7	102	10.2	15.3
<b>Age</b>					
0-14 years	<1	1.2	1	0.6	1.1
15-24 years	1	3.0	17	11.1	15.3
25-34 years	2	10.1	20	17.1	24.8
35-44 years	4	20.8	17	14.2	17.4
45-64 years	7	16.8	36	12.9	21.7
65-74 years	2	11.6	7	7.4	17.4
75+ years	2	12.9	5	8.7	13.5
<b>Gender</b>					
Male	8	10.1	55	10.9	16.9
Female	9	11.2	48	9.3	13.7
<b>Race/Ethnicity</b>					
White non-Hispanic	15	11.3	90	11.0	16.8
Black non-Hispanic	2	10.8	5	6.1	11.3
Hispanic	0	0.0	2	7.9	10.8
Other	1	13.6	3	14.7	17.9
<b>Socioeconomic Status</b>					
SES 1 (low)	6	22.2	13	21.2	na
SES 2	3	14.8	22	12.5	na
SES 3	4	7.5	30	11.9	na
SES 4	2	6.9	25	10.5	na
SES 5 (high)	3	9.8	19	8.9	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)



## Emergency Department

### Schenectady County Emergency Department Highlights

- Schenectady averaged 39 opioid overdose ED Visits a year.
- The ED visit rate increased 640% over the past decade.
- Male residents had 1.8 times the ED visit rate compared to female residents.
- The 25-34 year age groups had the highest opioid overdose ED visit rates.
- Between 2005-07 and 2012-14, heroin grew from 40% of ED visits due to opioid overdose to 56%.

### Age-Adjusted Opioid Overdose ED Visit Rate per 100,000, Schenectady County, Capital Region and NYS excl. NYC, 2012-2014<sup>9</sup>

	Schenectady County		Capital Region		Upstate NY
	# (3 yr ave)	Rate	# (3 yr ave)	Rate	Rate
<b>Total</b>	39	25.8	173	18.4	24.6
<b>Age</b>					
0-14 years	1	2.3	4	2.3	2.8
15-24 years	8	36.4	50	33.7	51.4
25-34 years	13	67.6	56	47.1	63.6
35-44 years	6	29.7	26	22.7	26.5
45-64 years	11	26.2	32	12.0	14.5
65-74 years	1	4.2	4	4.8	6.1
75+ years	<1	2.0	1	2.2	4.7
<b>Gender</b>					
Male	24	33.4	110	23.5	31.1
Female	15	18.2	63	13.2	17.7
<b>Race/Ethnicity</b>					
White non-Hispanic	33	29.1	149	19.8	28.0
Black non-Hispanic	4	24.6	13	15.9	13.2
Hispanic	<1	4.6	4	9.2	16.9
Other	2	18.5	7	15.5	26.8
<b>Socioeconomic Status</b>					
SES 1 (low)	12	43.7	27	43.2	na
SES 2	3	17.2	42	24.7	na
SES 3	10	20.2	50	21.1	na
SES 4	9	32.1	48	21.3	na
SES 5 (high)	4	17.4	33	17.6	na

<sup>1</sup> Red = Unstable (less than 10 events in numerator)

