

ALBANY-RENSSELAER PREVENTION AGENDA PRIORITIZATION WORKGROUP

February, 2016

PREVENT CHRONIC DISEASES

ASTHMA IN THE ALBANY-RENSSELAER

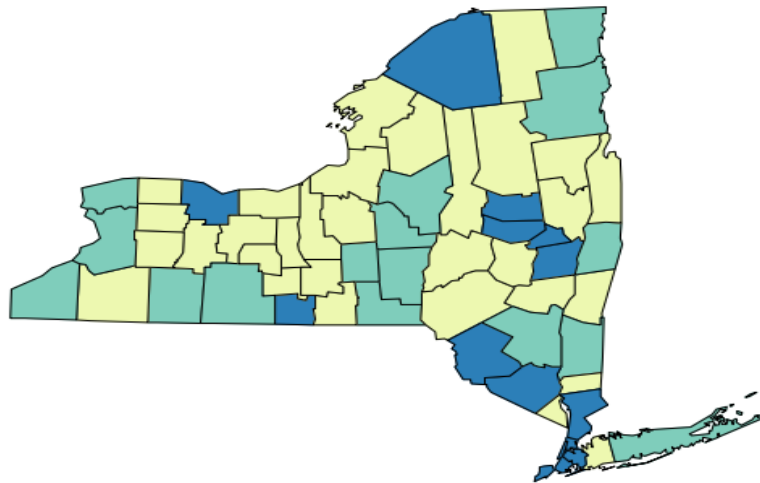
The Effect of Asthma on the Population

	Albany	Rensselaer	Capital Region
Current Number of Adults with Asthma (2013-14)	25,500	17,000	85,800
Number of ED Visits per year (2013)	1,968	978	4,901
Number of Hospitalizations per year (2013)	294	163	785
Number of Deaths per year (2011-2013)	2.33	3	9.33

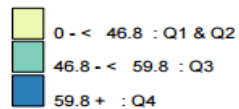
Asthma Indicators and Significance Compared to New York State (excl. NYC)

	Albany		Rensselaer		Capital Region		Upstate
Age-adjusted percentage of adults with current asthma (2013-14)	11.1%	Higher	13.5%	Higher	11.7%	Higher	10.5%
Asthma ED Visits/10,000 (2013)	64.1	Sig. higher	61.2	Sig. higher	51.2	Higher	47.6
Asthma ED Visits ages 0-4/10,000 (2013)	184.3	Sig. higher	199.7	Sig. higher	139.4	Sig. higher	115.2
Asthma Hospitalizations/10,000 (2011-2013)	11.2	Slightly higher	10.5	Slightly lower	9.1	Lower	10.9

Asthma emergency department visit rate per 10,000
 Total
 2011-2013 (Adjusted To 2000 U.S. Population)

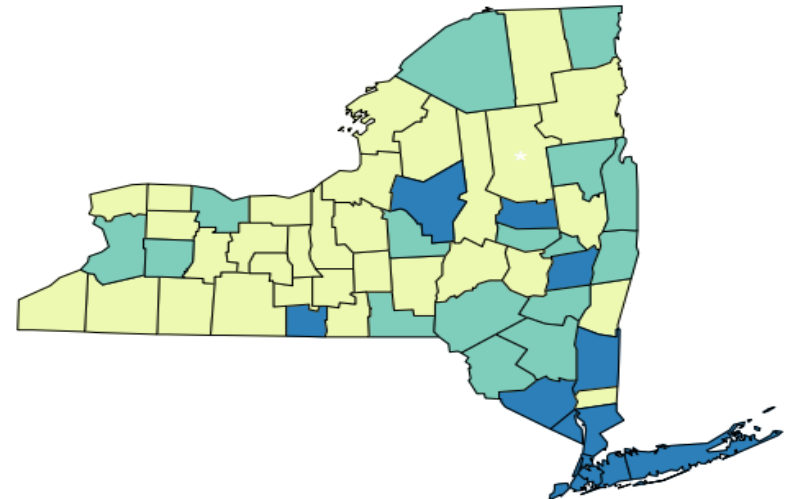


ED Visit Rate
 Counties Are Shaded Based On Quartile Distribution

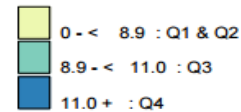


Source: 2011-2013 SPARCS Data as of January 2015

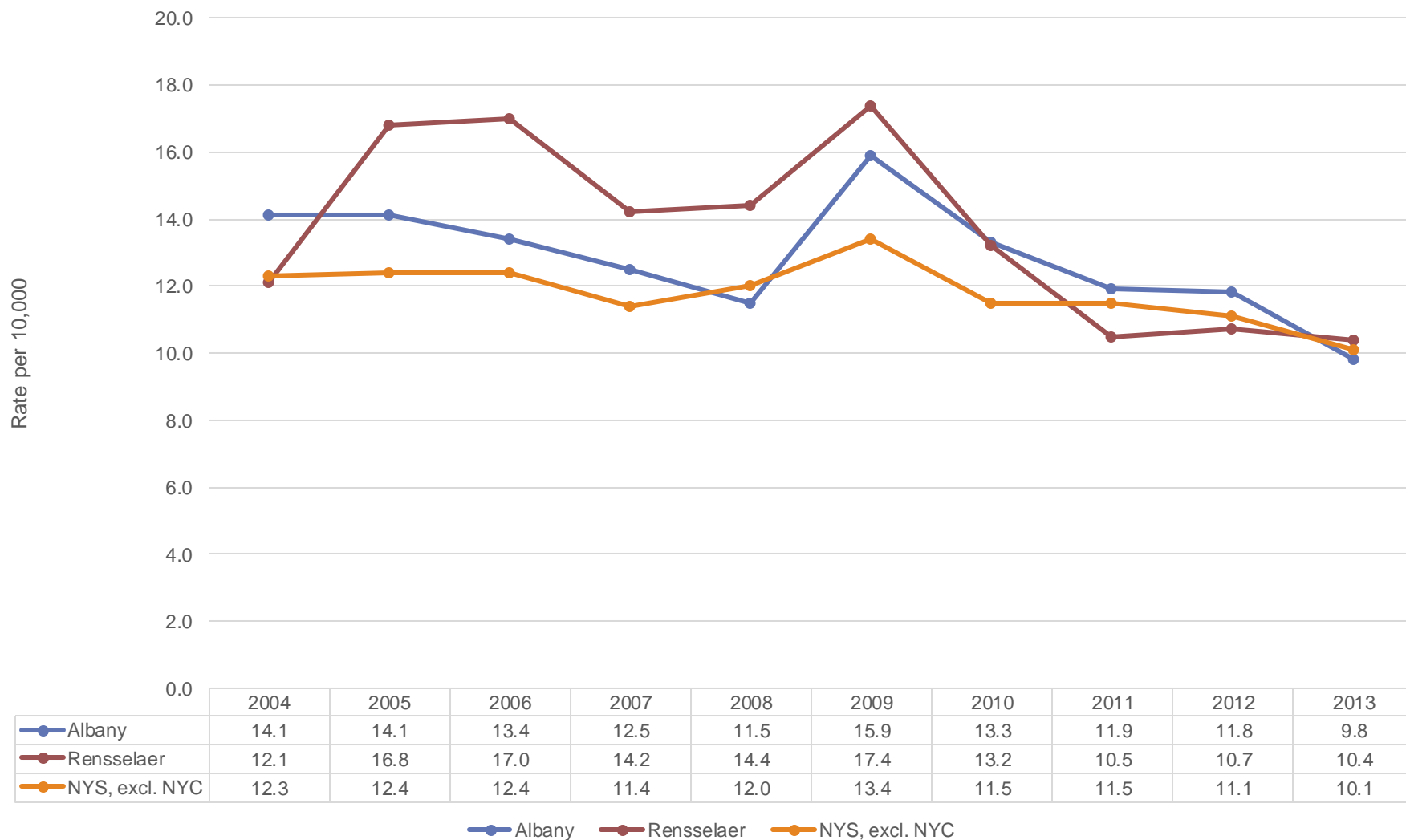
Asthma hospitalization rate per 10,000
 2011-2013 (Adjusted To 2000 United States Population)



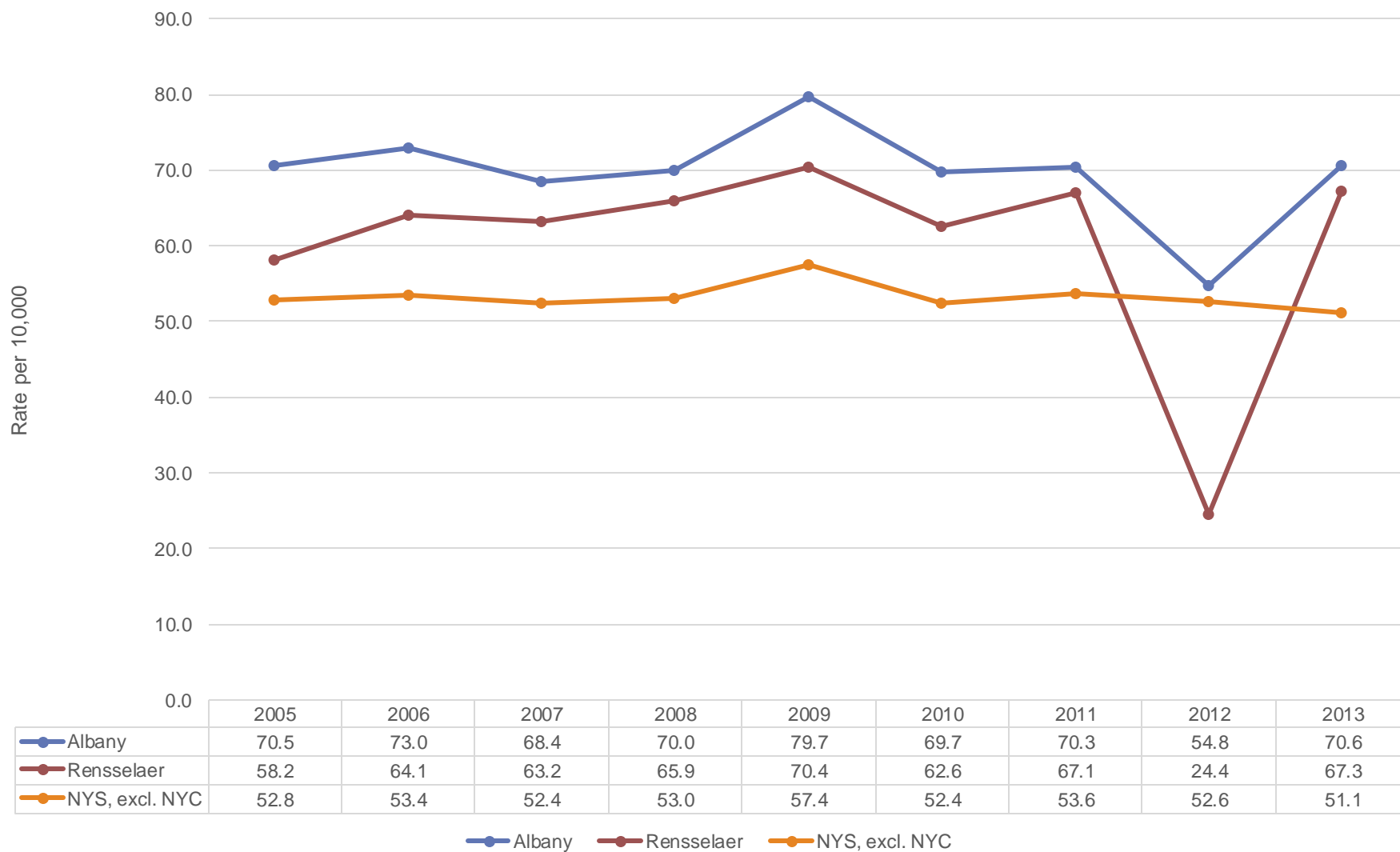
Hospital Discharge Rate
 Counties Are Shaded Based On Quartile Distribution
 (* Fewer than 10 events in the numerator, therefore the rate is unstable)



Age-Adjusted Asthma Hospitalization Rate per 10,000, NYS, excl. NYS, Albany and Rensselaer Counties, 2004-2013



Age-Adjusted Asthma ED Visit Rate per 10,000 population, NYS, excl. NYC, Albany and Rensselaer Counties, 2005-2013



EQUITY

Asthma Hospitalizations and ED Visits per 10,000 by Age, 2011-2013

<u>Hospitalizations</u>	Albany	Rensselaer	Capital Region	Upstate
0-17 years	14.4	13.5	11.4	14.1
18-64 years	8.1	8.2	7.5	8.4
65+ years	18.2	14.8	12.7	17.7

<u>ED Visits</u>	Albany	Rensselaer	Capital Region	Upstate
0-17 years	102.8	84.6	78.1	75.7
18-64 years	55.9	44.1	47.4	46.9
65+ years	16.5	14.9	14.2	19.0

Asthma Hospitalizations and ED Visits (Adjusted) per 10,000 by Gender, 2011-2013

<u>Hospitalizations</u>	Albany	Rensselaer	Capital Region
Male	8.5	6.8	6.8
Female	12.6	11.1	10.3

<u>ED Visits</u>	Albany	Rensselaer	Capital Region
Male	55.3	27.3	42.6
Female	57.1	29.6	46.3

Asthma Hospitalizations (Adjusted) per 10,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	6.9	8.1	7.6
Black non-Hispanic	34.2	27.3	27.3
Hispanic	11.2	32.0	17.6

Top Neighborhood Rates

Asthma ED Visits*

- Albany County (64.1)
 - West Hills/South End- 248.7
 - West End- 232.0
 - Center Sq.- 176.7
- Rensselaer County (61.2)
 - Troy/Lansing- 108.4
 - Rensselaer- 48.4
 - Northwest- 32.4
- Upstate- 47.6

Asthma Hospitalizations*

- Albany County (11.2)
 - West Hills/South End- 43.7
 - West Ends- 36.7
 - Center Sq.- 16.8
- Rensselaer County (10.5)
 - Troy/Lansing- 15.9
 - Rensselaer- 11.8
 - Northwest- 8.8
- Upstate- 10.9

*per 10,000 population

Asthma Summary

- Albany and Rensselaer Counties annually have:
 - 42,500 asthmatics
 - 2,950 ED Visits
 - 460 hospitalizations
 - 5 deaths

Asthma Summary

- For most asthma indicators, Albany and Rensselaer have sig. higher or higher rates than ROS;
- Albany falls in the 4th risk quartile and Rensselaer the 3rd risk quartile for asthma ED visits and hospitalization rates;
- Since 2009, trends decreasing for Albany and Rensselaer, but still higher than the ROS rate for ED visits;
- The BNH/WNH ratio for hospitalizations vary between 3 and 5 to 1 for both counties;
- High risk neighborhoods are 3 to 5 times higher than ROS rates for both ED visits and hospitalizations.

RESPIRATORY DISEASE IN ALBANY-RENSSELAER

The Effect of Respiratory Disease on the Population

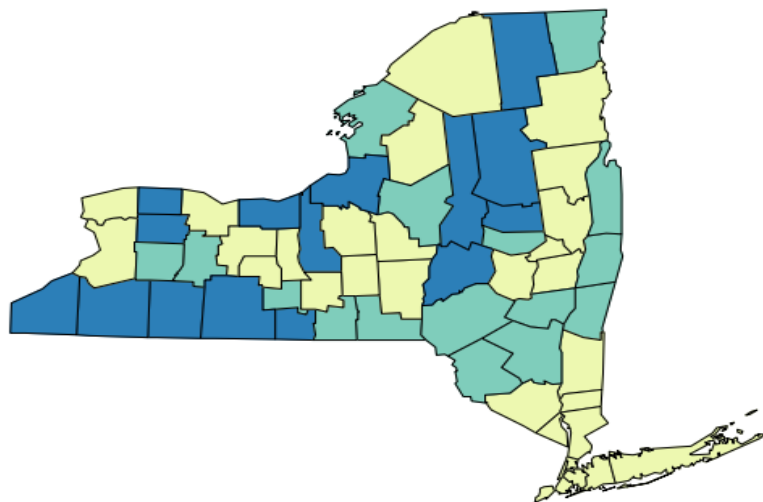
	Albany	Rensselaer	Capital Region
Number of Current Smokers (2013-14)	39,000	29,400	141,000
Number of COPD/CLRD ED Visits per year (2013)	2,299	770	6,390
Number of COPD/CLRD Hospitalizations per year (2013)	882	576	2,922
Number of COPD/CLRD Deaths per year (2013)	136	89	477
Number of Lung Cancer cases per year (2012)	265	169	902
Number of Lung Cancer deaths per year (2012)	185	94	582

Respiratory Disease Indicators and Significance Compared to New York State (excl. NYC)

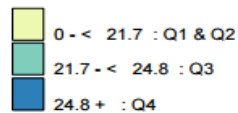
	Albany		Rensselaer		Capital Region		Upstate
Adjusted % Cigarette Smoking among Adults (2013-14)	16.2	Lower	24.8	Higher	19.7	Higher	18.0
Adjusted Lung Cancer Incidence/ 100,000 (2010-2012)	72.6	Higher	83.7	Sig. higher	73.5	Higher	68.6
Adjusted Lung Cancer Mortality/100,000 (2010-2012)	51.6	Sig. higher	59.6	Sig. higher	52.9	Sig. higher	46.1
Adjusted COPD/CLRD ED visits/10,000	73.0	Same	43.0	Lower	67.7	Lower	73.3
Adjusted COPD/CLRD Hospitalizations/ 10,000 (2011-2013)	28.3	Slightly lower	33.7	Sig. higher	27.6	Lower	28.6
Adjusted COPD/CLRD Mortality/100,000 (2011-2013)	37.6	Higher	50.0	Sig. higher	41.5	Sig. higher	36.8

Age-adjusted percentage of adults who smoke cigarettes

2013-2014

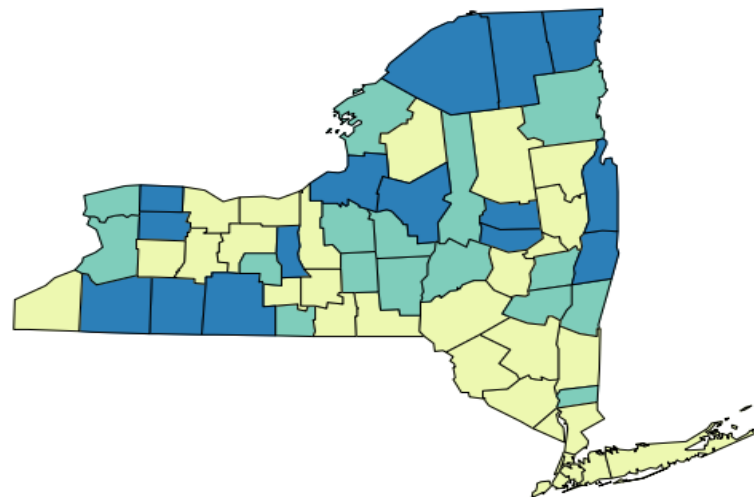


Age-adjusted percentage of adults
Counties Are Shaded Based On Quartile Distribution

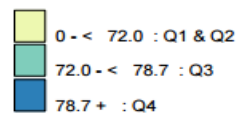


Lung and bronchus cancer incidence rate per 100,000

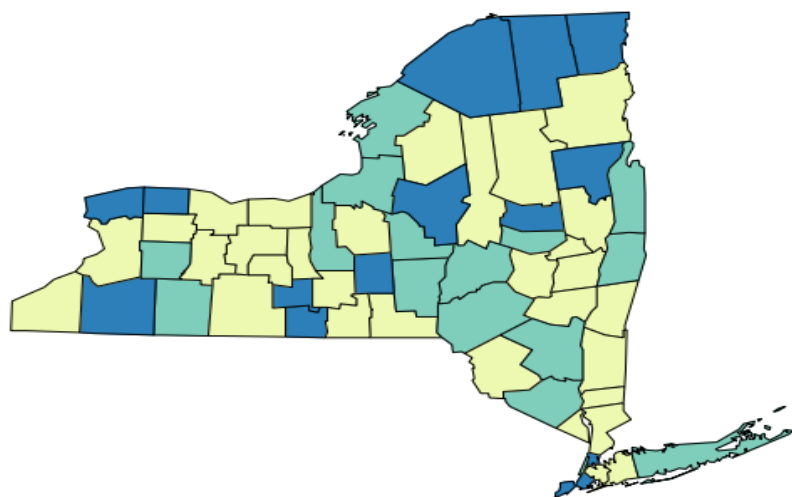
2010-2012 (Adjusted To 2000 United States Population)



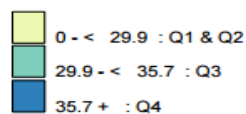
Incidence rate
Counties Are Shaded Based On Quartile Distribution



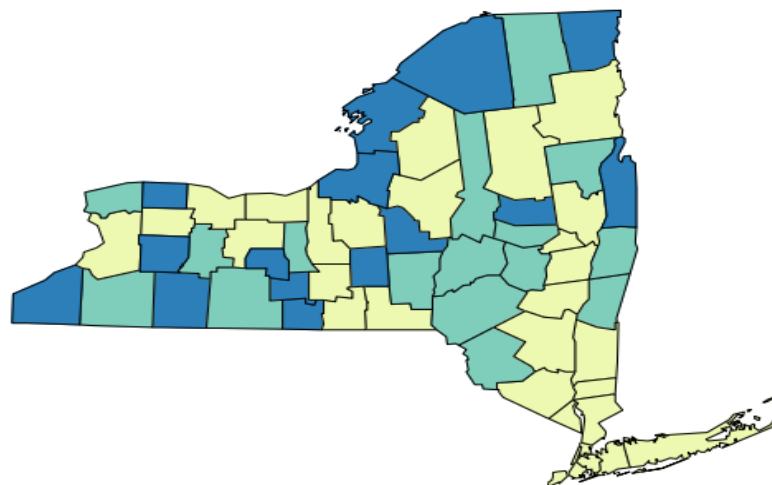
**Chronic lower respiratory disease hospitalization
rate per 10,000
2011-2013 (Adjusted To 2000 United States Population)**



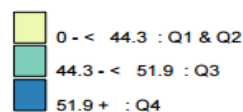
Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution



**Chronic lower respiratory disease mortality
Rate per 100,000
2011-2013 (Adjusted To 2000 United States Population)**



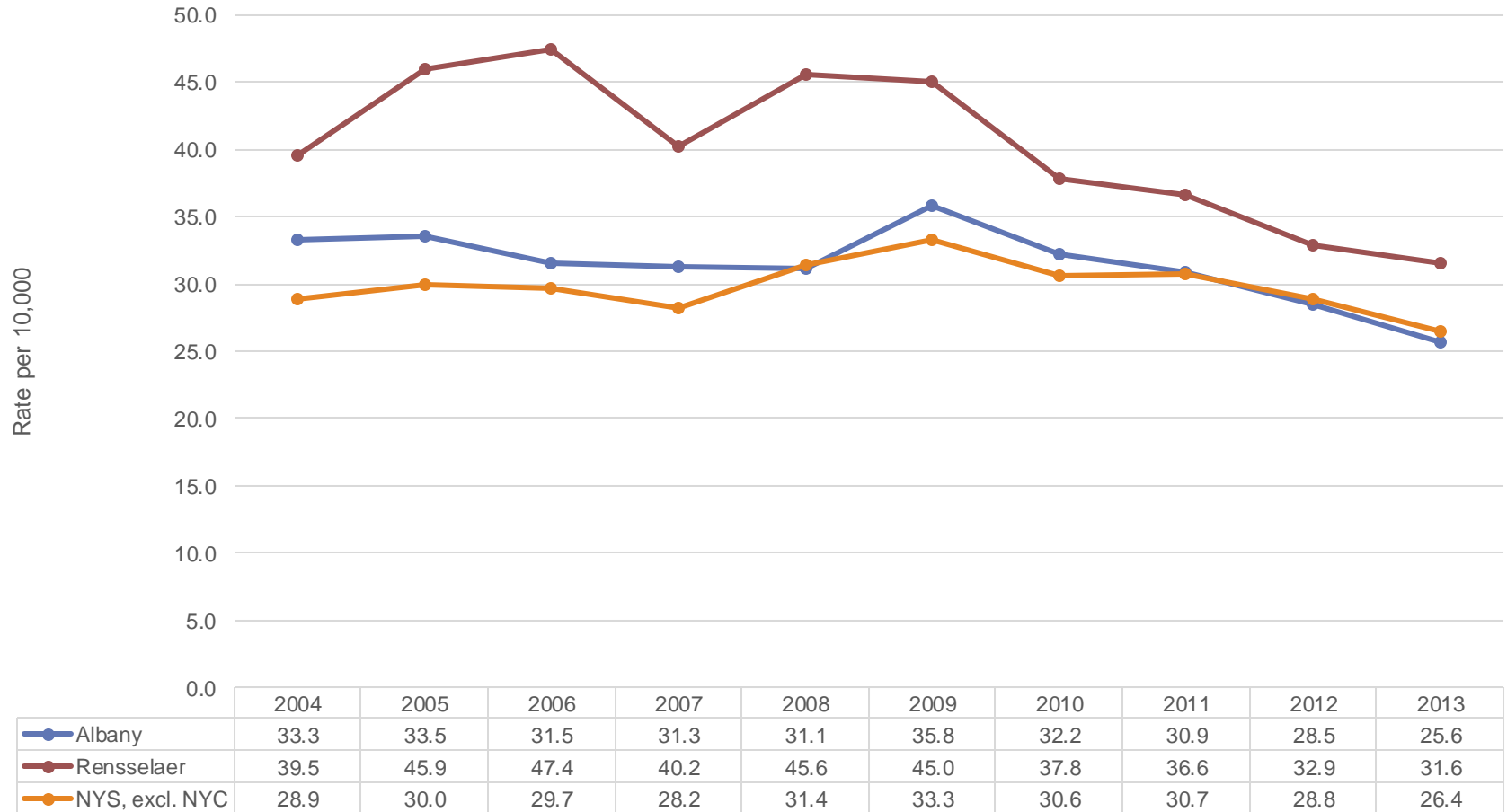
Death Rate
Counties Are Shaded Based On Quartile Distribution



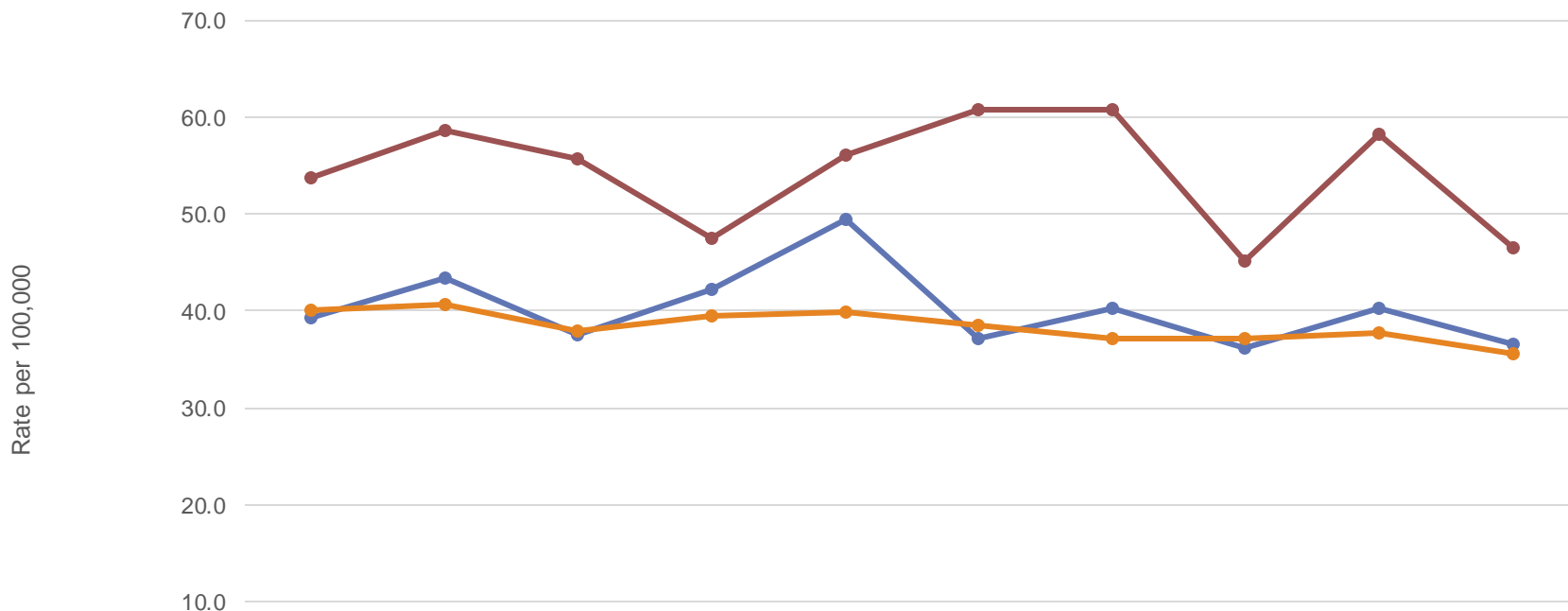
Adjusted Percent of Adults Who are Current Smokers for New York State (excl. NYC), Capital Region, Albany, and Rensselaer Counties; 2003, 2008-2009, 2013-14

	2003	2008-09	2013-14
Albany	16.8	17.0	16.2
Rensselaer	24.3	18.7	24.8
Capital Region	NA	NA	19.7
Upstate	22.1	18.9	18.0

Age-adjusted Chronic Lower Respiratory Disease (CLRD) Hospitalization Rate per 10,000, NYS, excl. NYC, Albany and Rensselaer Counties, 2004-2013

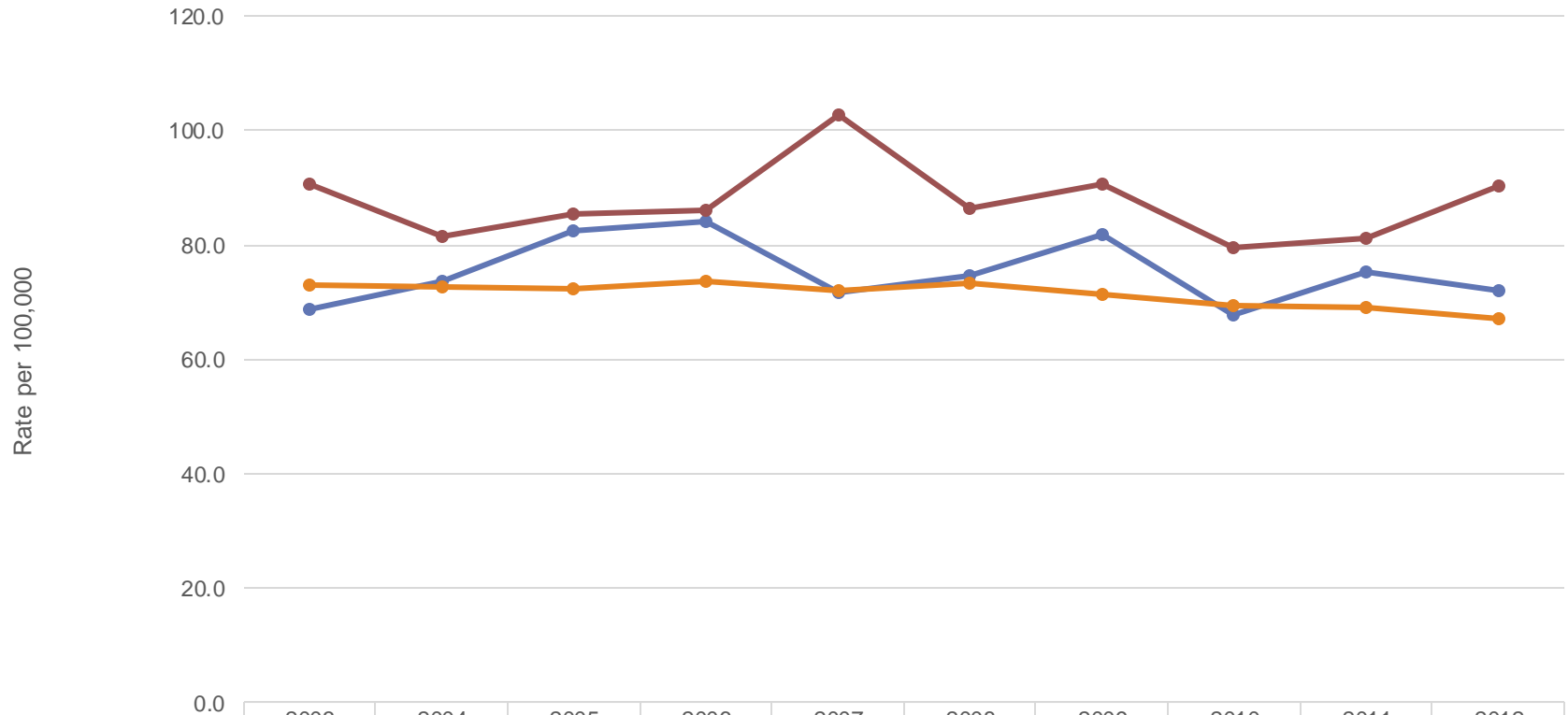


Age-adjusted Chronic Lower Respiratory Disease (CLRD) Mortality Rate per 100,000, NYS, excl. NYC, Albany and Rensselaer Counties, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	39.3	43.4	37.5	42.2	49.5	37.2	40.2	36.2	40.2	36.6
Rensselaer	53.7	58.6	55.7	47.4	56.1	60.8	60.7	45.1	58.3	46.5
NYS, excl. NYC	40.0	40.7	38.0	39.4	39.8	38.6	37.2	37.1	37.7	35.6

Age-adjusted Lung Cancer Incidence Rate per 100,000, NYS, excl. NYC, Albany and Rensselaer Counties, 2003-2012



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Albany	68.6	73.6	82.5	84.1	71.7	74.5	81.8	67.9	75.2	72.1
Rensselaer	90.8	81.6	85.4	86.2	102.7	86.5	90.6	79.4	81.2	90.4
NYS, excl. NYC	73.0	72.5	72.2	73.5	72.1	73.3	71.4	69.5	69.0	67.2

EQUITY

Adjusted Percent of Adults who are Current Smokers by Gender, 2013-2014

	Albany	Rensselaer	Capital Region	Upstate
Males	19.5	27.5	21.1	18.8
Females	13.3	20.4	17.2	12.7

Adjusted Lung Cancer Incidence per 100,000 by Gender, 2008-2012

	Albany	Rensselaer	Capital Region	Upstate
Males	87.3	96.7	NA	79.8
Females	66.1	78.6	NA	63.5

Adjusted COPD/CLRD Hospitalizations and ED Visits per 10,000 by Gender, 2011-2013

<u>Hospitalizations</u>	Albany	Rensselaer	Capital Region	Upstate
Male	23.9	23.6	23.1	26.1
Female	28.9	32.2	28.5	30.0

<u>ED Visits</u>	Albany	Rensselaer	Capital Region	Upstate
Male	71.8	40.0	64.5	67.0
Female	73.9	45.8	70.6	79.5

Adjusted COPD/CLRD Hospitalizations per 10,000 by Race/Ethnicity, Age 18+, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	23.9	30.7	24.3
Black non-Hispanic	55.7	56.3	45.1
Hispanic	17.1	58.2	40.0

Adjusted COPD/CLRD Mortality per 100,000 by Race/Ethnicity, Age 18+, 2010-2012

	Albany	Rensselaer	Upstate
White non-Hispanic	39.6	50.0	38.9
Black non-Hispanic	26.0	45.0	24.2
Hispanic	8.2*	13.5*	14.2

*Fewer than 10 events in numerator; rate is unstable

Top Neighborhood Rates

COPD/CLRD ED Visits*

- Albany County (73.0)
 - West Hills/South End- 306.3
 - West End- 288.7
 - Center Sq.- 216.4
- Rensselaer County (43.0)
 - Troy/Lansing- 192.2
 - Rensselaer- 69.6
 - East- 40.7
- Upstate- 73.3

COPD/CLRD Hospitalizations *

- Albany County (28.3)
 - West End- 77.9
 - West Hills/South End- 74.6
 - Cohoes- 43.9
- Rensselaer County (33.7)
 - Troy/Lansing- 48.6
 - Rensselaer- 29.9
 - W. Sand Lake/Wynant.- 27.6
- Upstate- 28.6

*per 10,000 population

Respiratory Disease Summary

- Albany and Rensselaer counties annually have:
 - 68,400 current smokers (18+yrs)
 - 434 new lung cancer cases
 - 279 lung cancer deaths

- 2,069 ED Visits for COPD/CLRD
- 1,458 hospitalizations for COPD/CLRD
- 225 deaths due to COPD/CLRD

Respiratory Disease Summary

- Current Smoking prevalence is lower for Albany but higher for Rensselaer compared to ROS;
- Males have a prevalence rate 1.2 to 1.5 higher than females;
- Rensselaer's Current Smoking prevalence increased from 2008-09 to 2012-13;
- Lung cancer incidence and mortality rates for both counties are sig. higher or higher than ROS;
- Except for ED visits, most county COPD/CLRD rates are sig. higher or higher than ROS;

Respiratory Disease Summary

- Lung cancer trends have been stable; COPD/CLRD hospitalization trends seem to be decreasing since 2009;
- Black non-Hispanics have higher COPD/CLRD hospitalization rates but lower mortality rates compared to their White non-Hispanic counterparts;
- High risk neighborhoods have over 2.5 to 4.2 times the COPD/CLRD ED rates and 1.5 to 3.0 times hospitalization rates;

DIABETES IN ALBANY- RENSSELAER

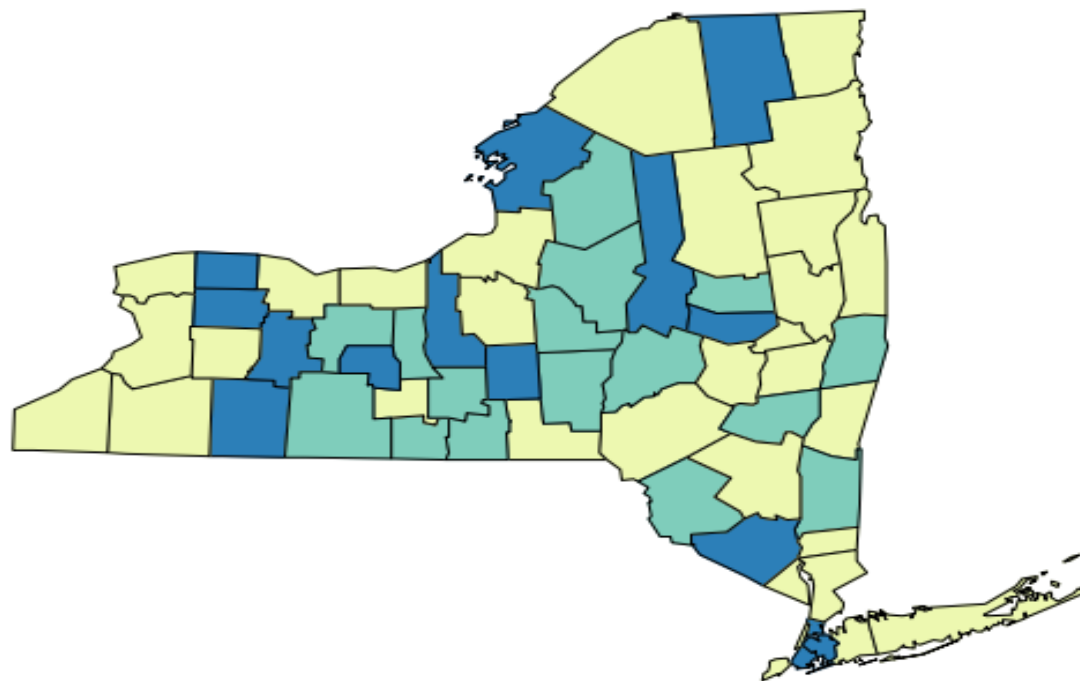
The Effect of Diabetes on the Population

	Albany	Rensselaer	Capital Region
Current Number of Adults with Diabetes (2013-14)	23,300	12,400	70,730
Number of ED Visits per year (2013)	558	140	1,423
Number of Hospitalizations per year (primary diagnosis) (2013)	454	249	1,317
Number of Hospitalizations per year (any diagnosis) (2013)	5,977	3,511	19,411
Number of short-term complications per year – 18+ years (2013)	162	95	470
Number of Diabetes Deaths per year (2013)	59	38	179

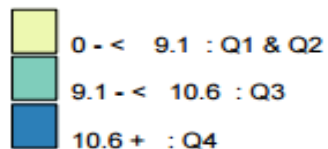
Diabetes Indicators and Significance Compared to New York State (excl. NYC), 2011-2013

	Albany		Rensselaer		Capital Region		Upstate
Adjusted % of Adults with Diabetes*	8.8	Similar	10.0	Higher	8.7	Similar	8.9
Adjusted Diabetes (primary diagnosis) Hospitalizations/10,000	14.0	Slightly Lower	15.4	Higher	12.6	Lower	14.2
Adjusted Diabetes Mortality/100,000	15.2	Lower	19.8	Sig. higher	16.0	Higher	15.6
Hospitalizations for Short-term Complications of Diabetes/10,000 - Ages 18+ years	6.6	Sig. higher	7.5	Sig. higher	6.2	Higher	5.8

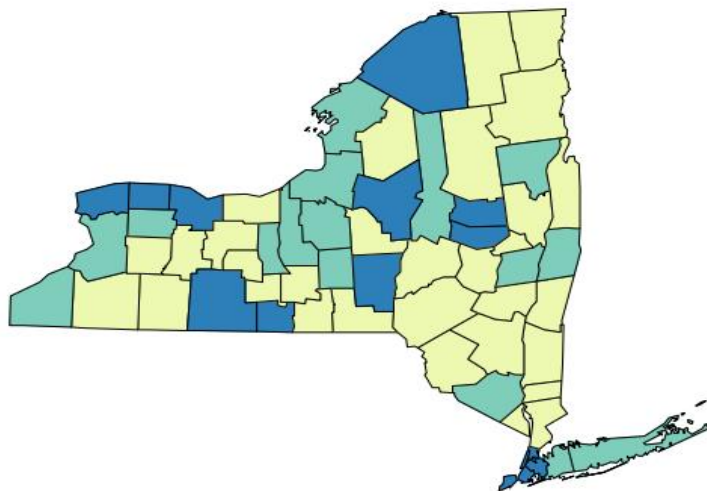
Age-adjusted Prevalence of Adults with Physician Diagnosed Diabetes, 2013-2014



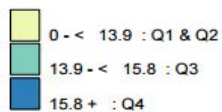
Age-adjusted percentage of adults
Counties Are Shaded Based On Quartile Distribution



Age-adjusted Diabetes Hospitalizations per 10,000, 2011-2013

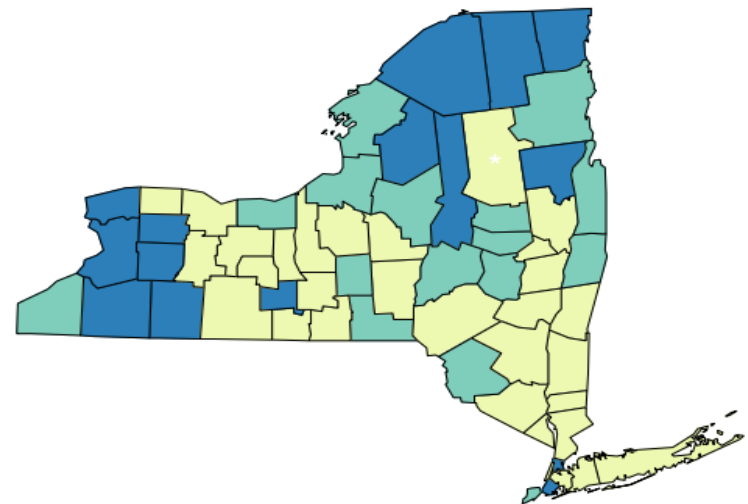


Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution

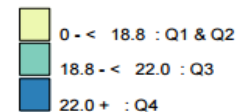


Source: 2011-2013 SPARCS Data as of December, 2014

Age-adjusted Diabetes Mortality per 100,000, 2011-2013

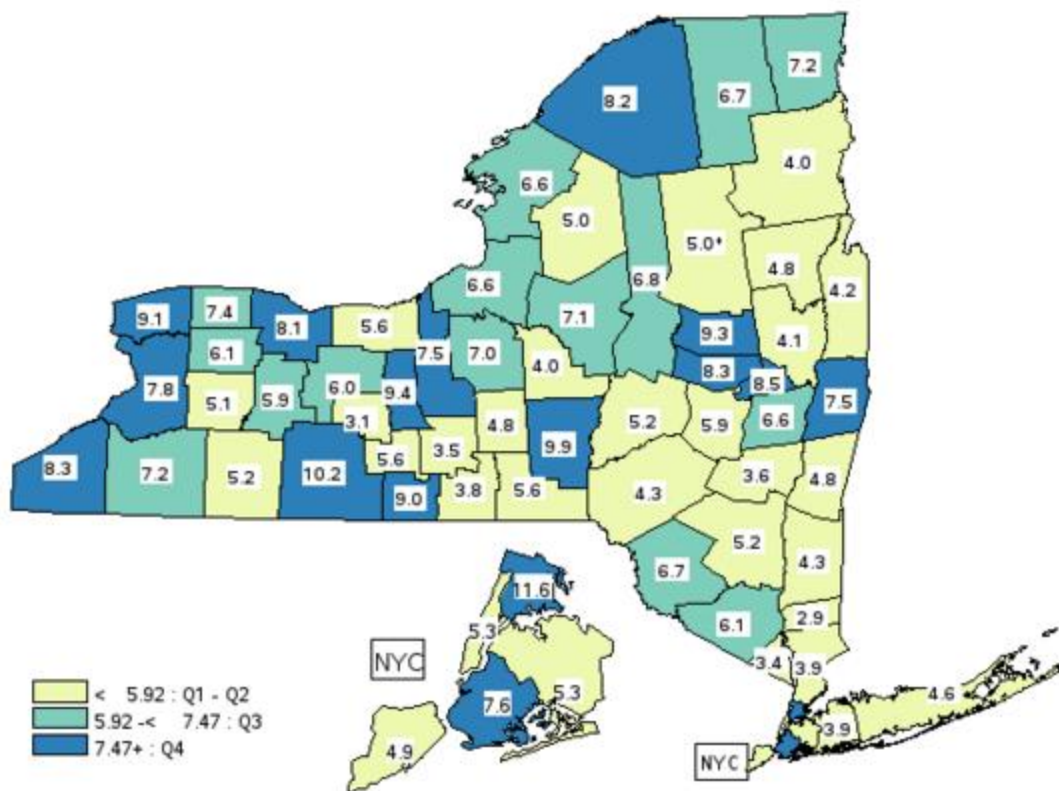


Death Rate
Counties Are Shaded Based On Quartile Distribution
(* Fewer than 10 events in the numerator, therefore the rate is unstable)



Source: 2011-2013 Vital Statistics Data as of February, 2015

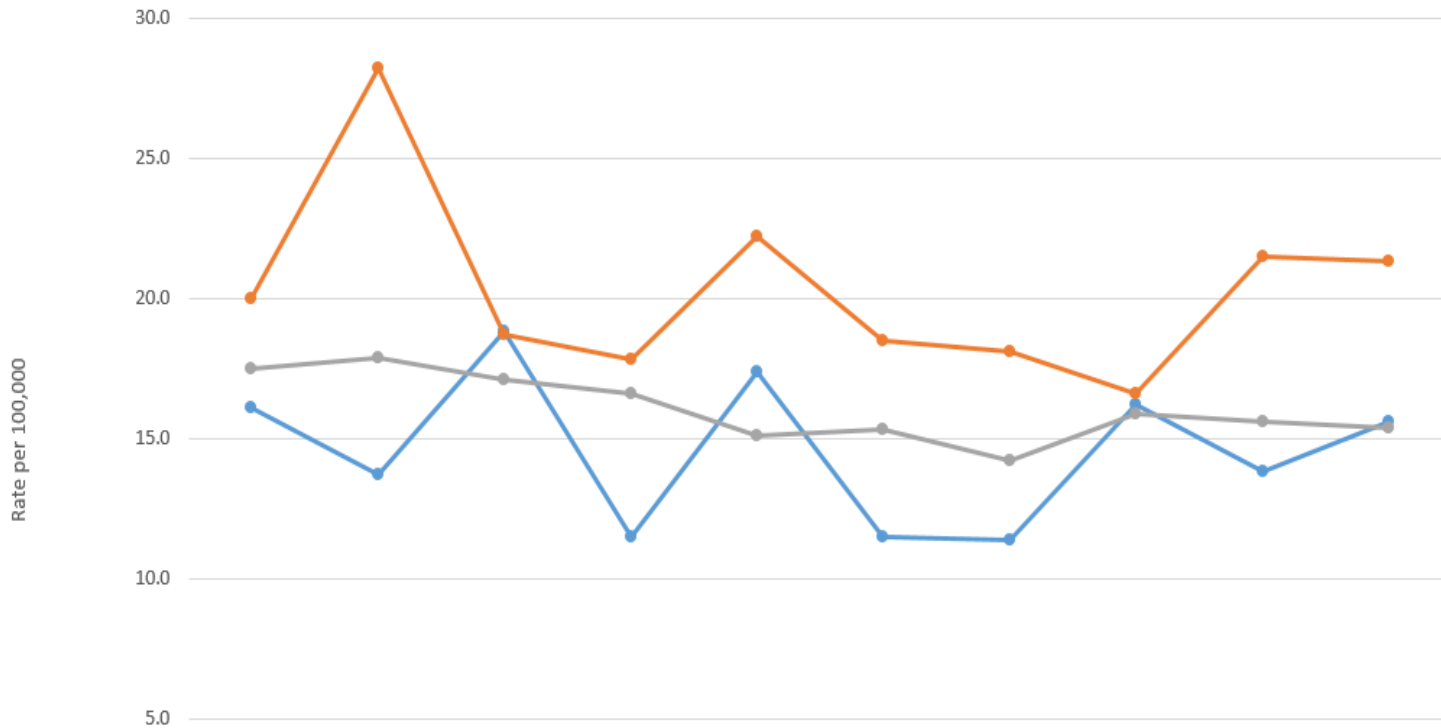
Hospitalization for Short-Term Complications of Diabetes 18+ years per 10,000, 2011-2013



Adjusted Percent of Adults Ever Diagnosed with Diabetes for New York State (excl. NYC), Capital Region, Albany, and Rensselaer Counties; 2003, 2008-2009, 2013-14

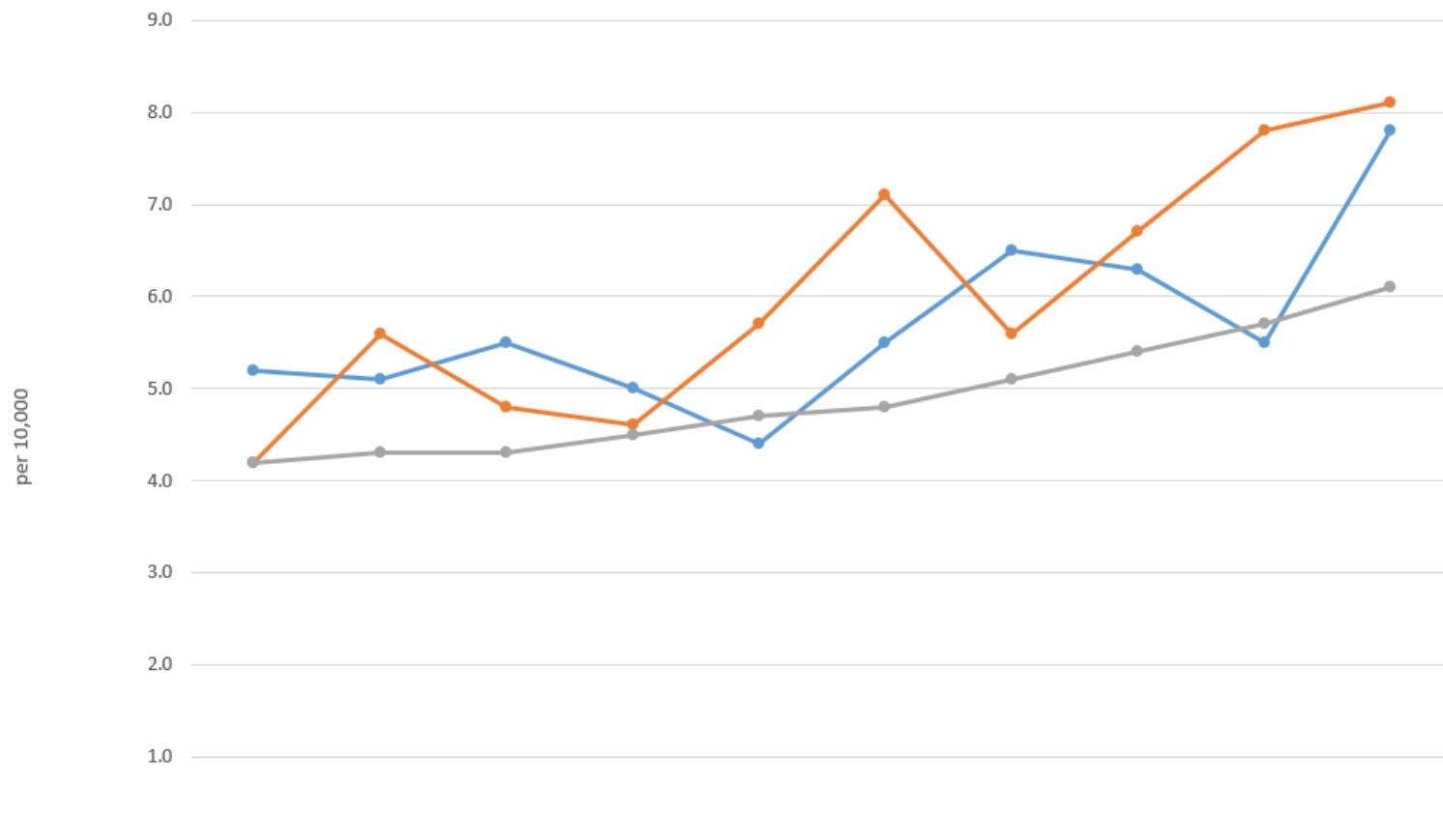
	2003	2008-09	2013-14
Albany	6.3	8.6	8.8
Rensselaer	8.2	9.3	10.0
Capital Region	NA	NA	8.7
Upstate	7.2	8.5	8.9

Age-adjusted Diabetes Mortality Rate per 100,000, Albany, Rensselaer and NYS, excl. NYC, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	16.1	13.7	18.8	11.5	17.4	11.5	11.4	16.2	13.8	15.6
Rensselaer	20.0	28.2	18.7	17.8	22.2	18.5	18.1	16.6	21.5	21.3
NYS, excl. NYC	17.5	17.9	17.1	16.6	15.1	15.3	14.2	15.9	15.6	15.4

Diabetes Short-Term Complications Hospitalization Rate per 10,000 – Aged 18+ Years, Albany, Rensselaer and NYS, excl. NYC, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	5.2	5.1	5.5	5.0	4.4	5.5	6.5	6.3	5.5	7.8
Rensselaer	4.2	5.6	4.8	4.6	5.7	7.1	5.6	6.7	7.8	8.1
NYS, excl. NYC	4.2	4.3	4.3	4.5	4.7	4.8	5.1	5.4	5.7	6.1

EQUITY

**Adjusted Diabetes Hospitalizations per 10,000 by Race/Ethnicity,
2011-2013**

	Albany	Rensselaer	Upstate
White non-Hispanic	10.1	13.1	11.0
Black non-Hispanic	40.8	48.7	37.5
Hispanic	10.5	10.6	17.9

**Diabetes Short Term Complications Hospitalizations Aged 18+ Years per 10,000 by
Race/Ethnicity, 2011-2013**

	Albany	Rensselaer	Upstate
White non-Hispanic	4.5	5.4	4.5
Black non-Hispanic	19.4	37.6	15.7
Hispanic	7.2	11.3	5.3

Adjusted Diabetes Mortality per 100,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	14.3	18.7	14.8
Black non-Hispanic	26.3	56.3	30.8
Hispanic	10.8	0.0*	14.3

Adjusted Adult Diabetes Prevalence per 100, 2013-14 and Diabetes Hospitalizations per 10,000 by Gender, 2011-2013

<u>Phy. Diagnosed Diabetes</u>	Albany	Rensselaer	Capital Region	Upstate
Male	11.2	11.5	10.9	10.9 (NYS)
Female	7.8	8.1	7.9	8.3

<u>Hospitalizations</u>	Albany	Rensselaer	Capital Region	Upstate
Male	14.9	13.8	13.2	16.2
Female	11.5	12.7	10.6	12.0

Top Neighborhood Rates

Diabetes ED Visits*

- Albany County (15.8)
 - West End- 68.1
 - West Hills/South End- 63.6
 - Center Sq.- 47.5
- Rensselaer County (9.0)
 - Troy/Lansing- 27.7
 - Rensselaer- 16.9
 - South West- 10.5
- Upstate- 14.0

Diabetes Hospitalizations*

- Albany County (14.0)
 - West End- 41.8
 - West Hills/ South End- 35.9
 - N. Albany/Menands- 26.8
- Rensselaer County (15.4)
 - Troy/Lansing- 23.7
 - North West- 16.6
 - Rensselaer-12.5
- Upstate- 14.2

*per 10,000 population

Diabetes Summary

- Albany and Rensselaer counties annually have:
 - 35,700 diabetics
 - 700 ED Visits (primary diagnosis)
 - 700 hospitalizations (primary diagnosis)
 - 260 short-term complication hospitalizations (18+yrs)
 - 100 deaths

Diabetes Summary

- Diabetes prevalence is similar for Albany, but higher for Rensselaer compared to ROS;
- Rensselaer had higher or sig. higher rates for diabetes hospitalizations and diabetes mortality;
- Both counties are sig. higher than ROS for short term complication (18+yrs) hospitalizations, Rensselaer fell into the 4th risk quartile;
- The diabetes short term complication hospitalization trend has been increasing since 2008.

Diabetes Summary

- BNH have 4 to 7 times the prevalence, 3 to 4 times the rate of hospitalizations, and 2 to 3 times the mortality than WNH;
- Males had 1.4 times the diabetes prevalence rate and 1.1 to 1.3 the hospitalization rate compared to females;
- The high risk neighborhoods have up to 5 times the ED rates and 3 times the hospitalization rates compared to ROS.

CHRONIC KIDNEY DISEASE IN ALBANY-RENSSELAER

The Effect of Chronic Kidney Disease on the Population

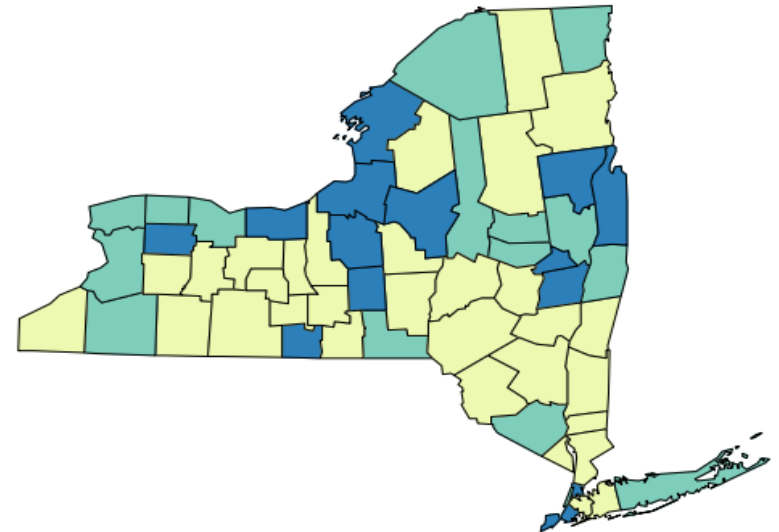
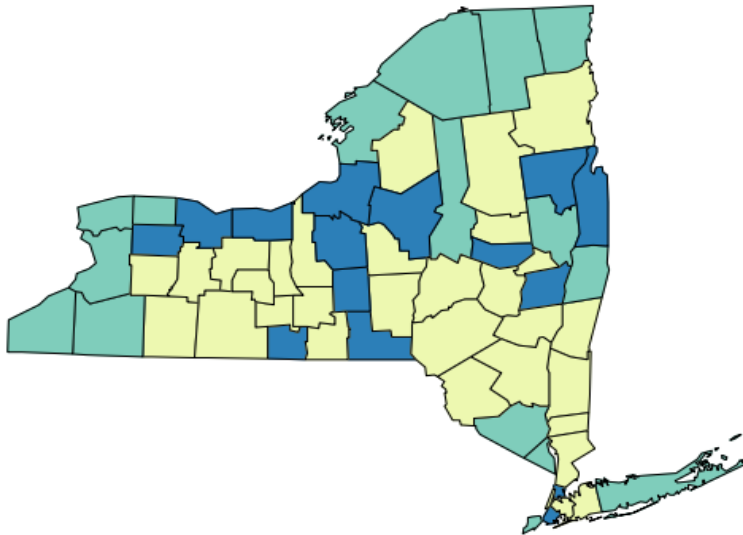
	Albany	Rensselaer	Capital Region
Number of ED Visits per year-any diagnosis (2013)	4,578	2,170	11,855
Number of Hospitalizations per year-any diagnosis (2013)	3,889	1,903	11,848

Chronic Kidney Disease Indicators and Significance Compared to New York State (excl. NYC)

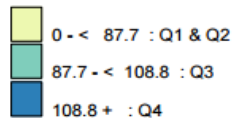
	Albany		Rensselaer		Capital Region		Upstate
Chronic Kidney Disease ED Visits/10,000-any diagnosis (2011-2013)	120.7	Sig. Higher	107.3	Sig. Higher	97.2	Higher	95.0
Chronic Kidney Disease Hospitalizations/10,000-any diagnosis (2011-2013)	109.5	Sig. Higher	103.1	Sig. Higher	102.5	Higher	95.3

**Chronic kidney disease emergency department visit rate
per 10,000 (any diagnosis)
2011-2013 (Adjusted To 2000 United States Population)**

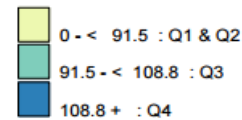
**Chronic kidney disease hospitalization rate
per 10,000 (any diagnosis)
2011-2013 (Adjusted To 2000 United States Population)**



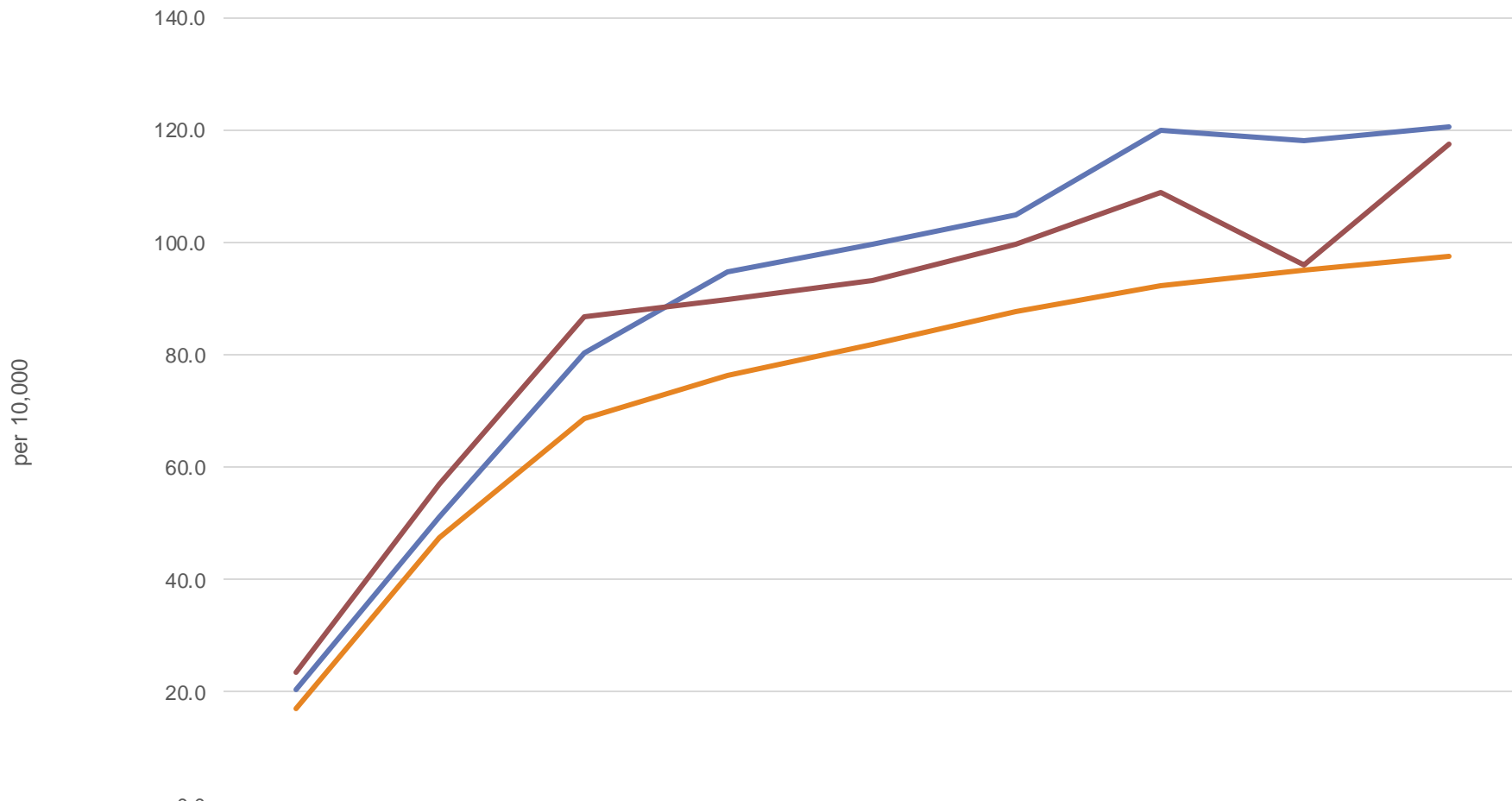
**Emergency department visits rate
Counties Are Shaded Based On Quartile Distribution**



**Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution**

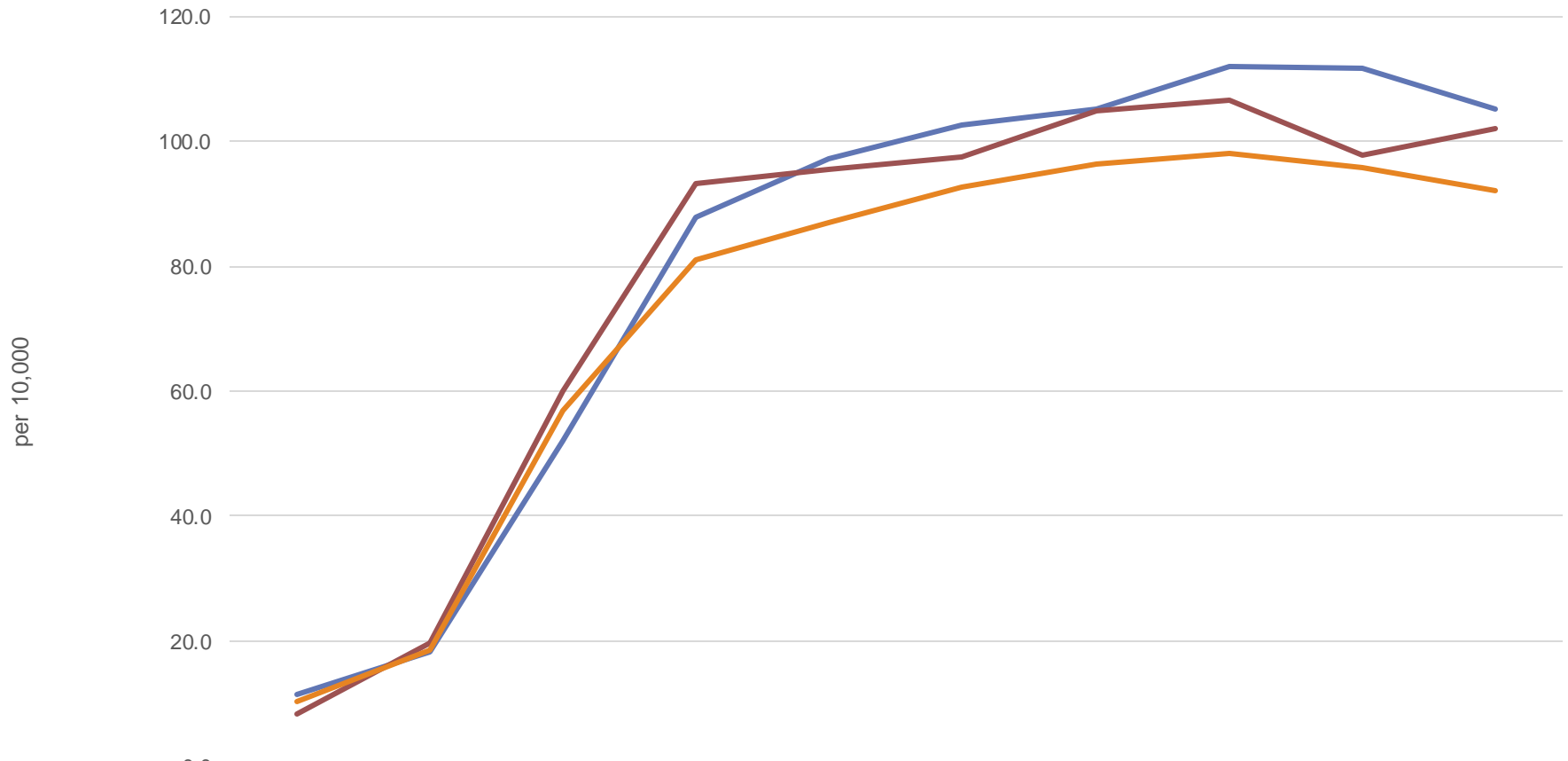


Age-adjusted Chronic Kidney Disease Emergency Department Visit Rate per 10,000 (any diagnosis), Albany, Rensselaer, and NYS excl. NYC, 2005-2013



	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	20.4	51.1	80.4	94.9	99.8	104.8	120.1	118.1	120.7
Rensselaer	23.4	57.0	86.9	89.9	93.3	99.6	108.8	95.9	117.4
NYS, excl. NYC	16.9	47.5	68.8	76.4	81.8	87.8	92.3	95.2	97.5

Age-adjusted Chronic Kidney Disease Hospitalization Rate (any diagnosis) per 10,000, Albany, Rensselaer, and NYS excl. NYC, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	11.4	18.2	51.9	87.7	97.2	102.5	105.3	112.1	111.6	105.2
Rensselaer	8.3	19.7	60.1	93.1	95.4	97.5	104.8	106.6	97.8	102.0
NYS, excl. NYC	10.3	18.5	56.8	81.0	87.0	92.7	96.4	98.0	95.8	92.0

EQUITY

**Adjusted Kidney Disease (any diagnosis) Hospitalizations per 10,000 by
Race/Ethnicity, 2011-2013**

	Albany	Rensselaer	Upstate
White non-Hispanic	130.4	120.7	120.4
Black non-Hispanic	329.2	325.2	276.0
Hispanic	50.7	109.4	181.4

Adjusted Kidney Disease (any diagnosis) Hospitalizations per 10,000 by Gender, 2011-2013

<u>Hospitalizations</u>			
Male	177.2	157.4	171.9
Female	132.7	113.0	113.1

Top Neighborhood Rates

Kidney Disease Hospitalizations*

- Albany County (154.9)
 - West Hills/South End- 318.4
 - West End- 281.6
 - N. Albany/Menands- 278.8
- Rensselaer County (135.2)
 - Troy/Lansing- 168.9
 - East Greenbush- 164.2
 - Rensselaer-137.8
- Upstate-142.5

*per 10,000 population

Chronic Kidney Disease Summary

- Albany and Rensselaer Counties annually have:
 - 6,748 ED Visits (any diagnosis)
 - 5,792 hospitalizations (any diagnosis)

Chronic Kidney Disease Summary

- Both counties are sig. higher than ROS for chronic kidney ED Visits and hospitalizations; Albany fell into the 4th risk quartile while Rensselaer the 3rd risk quartile;
- The chronic kidney disease (any diagnosis) rates have seen a marked increase in the past decade;
- BNH have 2.5 times the rate of kidney disease hospitalizations than WNH;
- Males have 1.4 the kidney disease hospitalization rates compared to females;
- The high risk neighborhoods have up to 2.2 times the hospitalization rates compared to ROS.

CARDIOVASCULAR DISEASE IN ALBANY- RENSSELAER

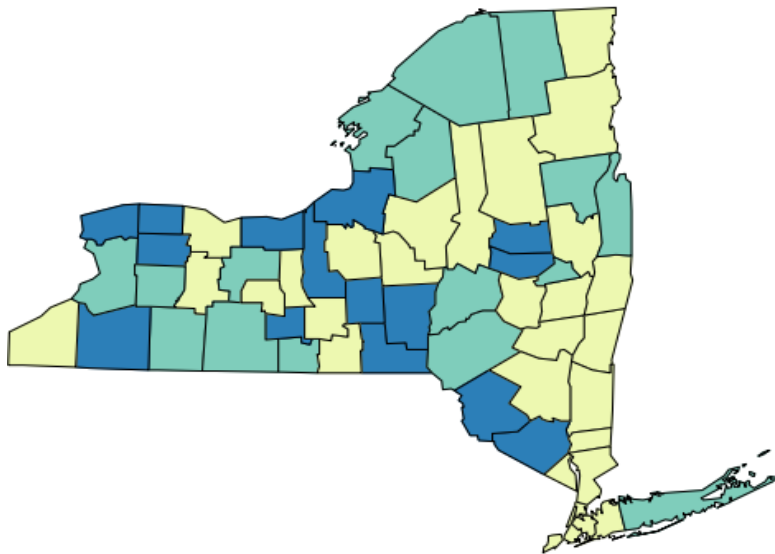
The Effect of Cardiovascular Disease on the Population, 2013

	Albany	Rensselaer	Capital Region
Number of Heart Attack Hospitalizations per year	405	239	1,570
Number of Heart attack Deaths per year	87	53	288
Number of CHD Hospitalizations per year	679	376	2,531
Number of CHD Deaths per year	420	232	1,440
Number of CHF Hospitalizations per year	760	366	2,422
Number of CHF Deaths per year	79	40	228
Number of Stroke Hospitalizations per year	713	410	2,355
Number of Stroke Deaths per year	107	49	340

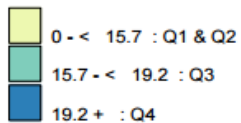
Cardiovascular Disease Indicators and Significance Compared to New York State (excl. NYC), 2011-2013

	Albany		Rensselaer		Capital Region		Upstate
Adjusted Heart Attack Hospitalization/10,000	11.0	Lower	12.4	Lower	13.2	Lower	15.7
Adjusted Heart Attack Mortality/100,000	25.6	Lower	30.2	Lower	26.8	Lower	34.8
Adjusted Coronary Heart Disease Hospitalization/10,000	19.0	Lower	24.6	Lower	22.8	Lower	32.6
Adjusted Coronary Heart Disease Mortality/100,000	113.0	Lower	124.8	Lower	120.8	Lower	131.6
Adjusted Congestive Heart Failure Hospitalization/10,000	20.4	Lower	21.4	Lower	20.8	Lower	23.4
Adjusted Congestive Heart Failure Mortality/100,000	19.0	Sig. Higher	22.0	Sig. Higher	17.7	Higher	16.1
Adjusted Cerebrovascular Disease (Stroke) Hospitalization/10,000	21.0	Lower	22.0	Slightly higher	21.4	Higher	23.6
Adjusted Cerebrovascular Disease (Stroke) Mortality/100,000	29.2	Slightly lower	30.5	Slightly higher	30.0	Slightly lower	29.8

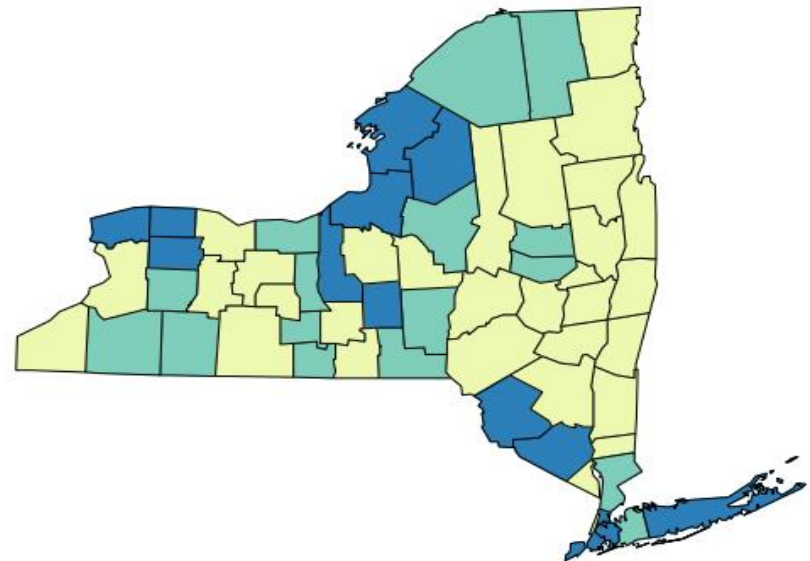
Adjusted Heart Attack Hospitalization Rate per 10,000, NYS, 2011-2013



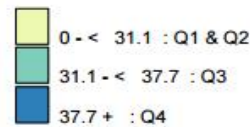
Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution



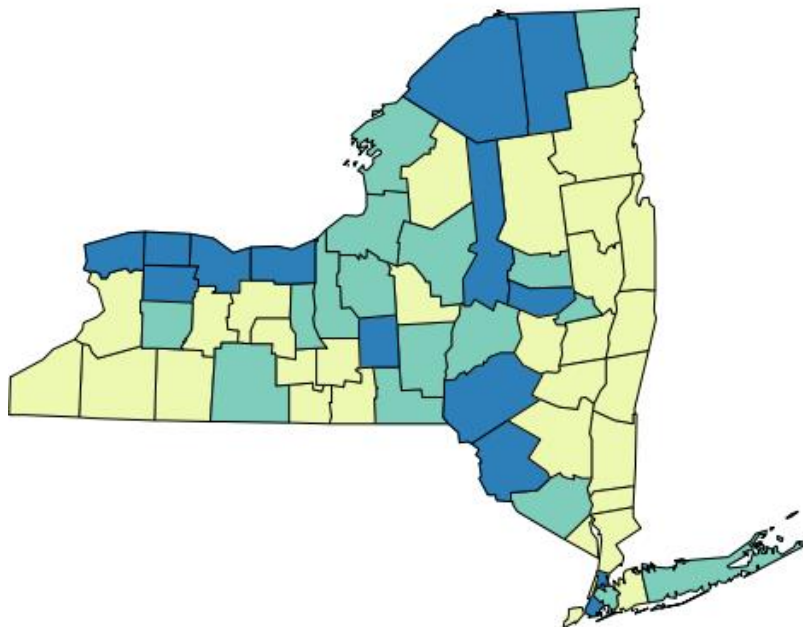
Adjusted CHD Hospitalization Rate per 10,000, NYS, 2011-2013



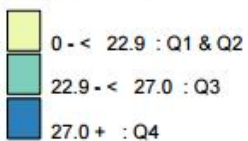
Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution



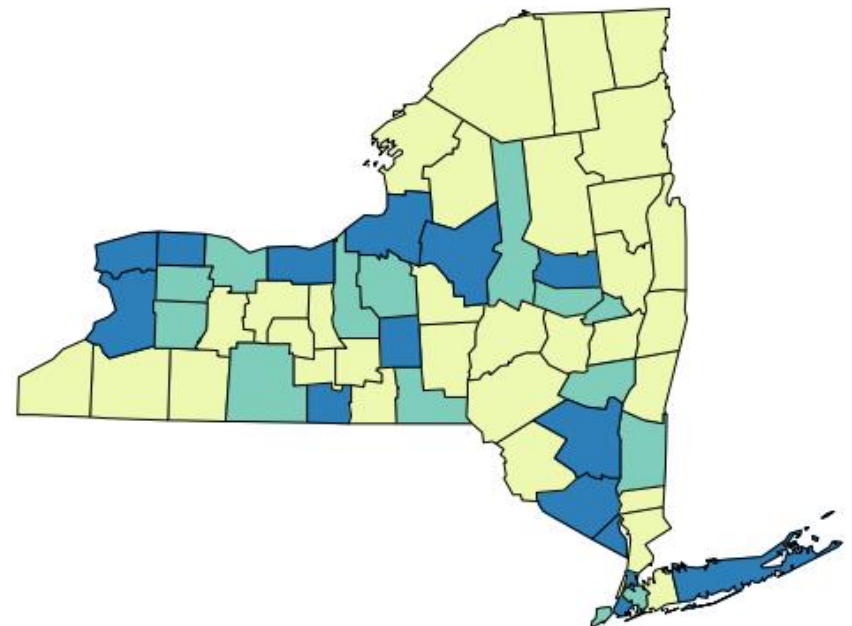
Adjusted CHF Hospitalization rate per 10,000, NYS, 2011-2013



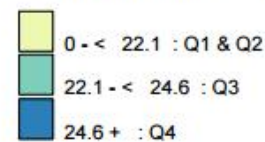
Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution



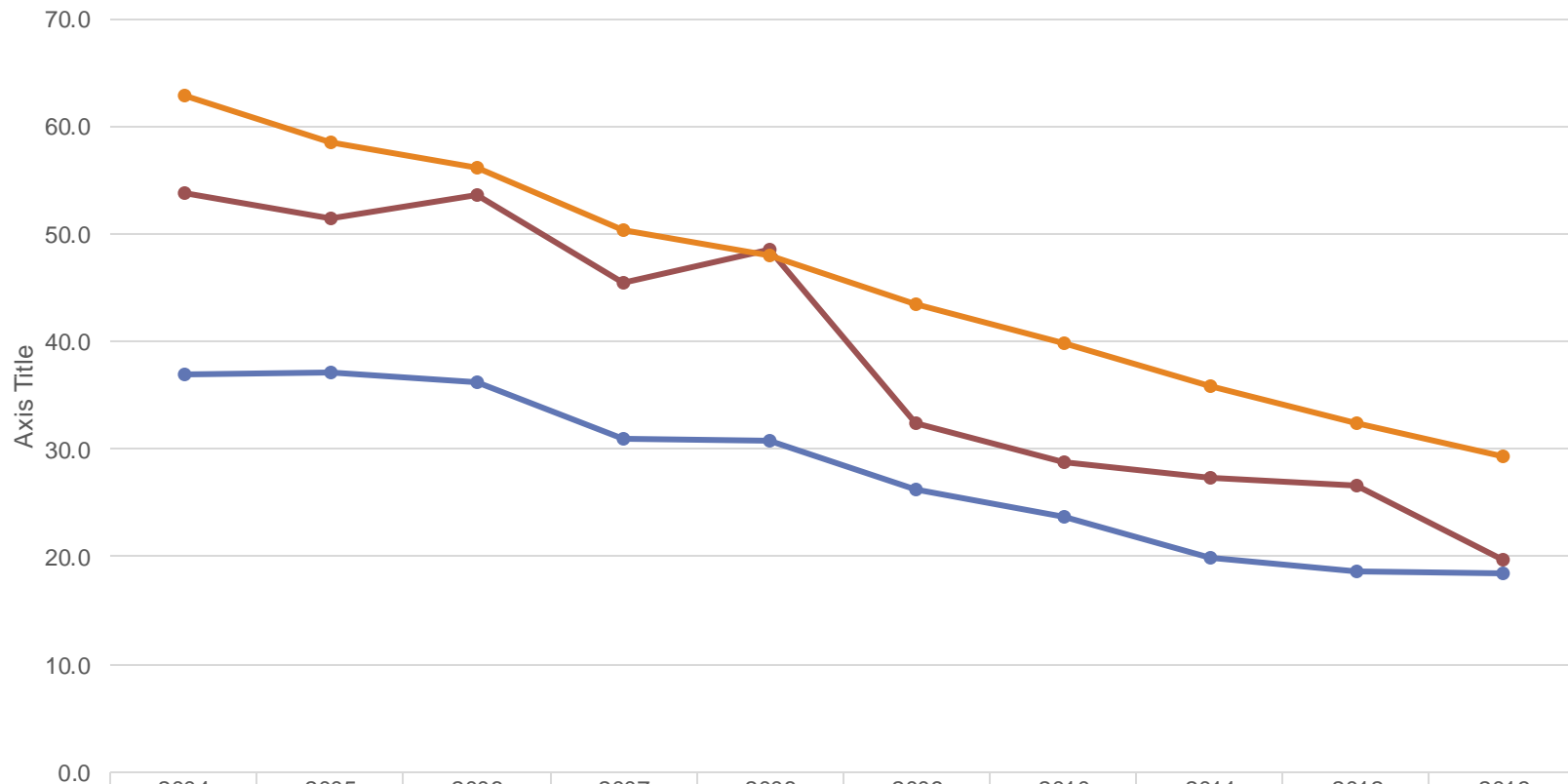
Adjusted Stroke Hospitalization rate per 10,000, NYS, 2011-2013



Hospital Discharge Rate
Counties Are Shaded Based On Quartile Distribution

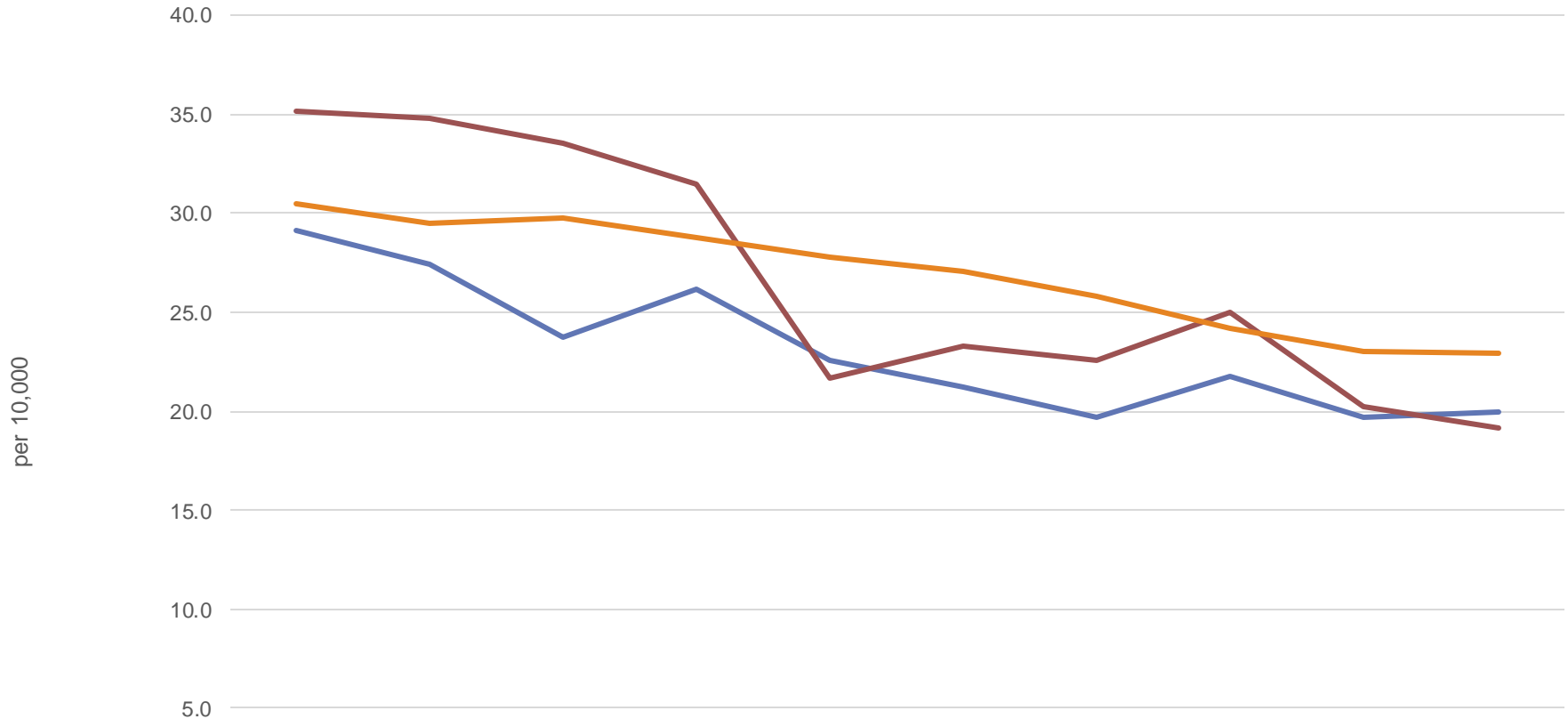


Age-adjusted Coronary Heart Disease Hospitalization rate per 10,000, Albany, Rensselaer and NYS, excl. NYC, 2004-2013



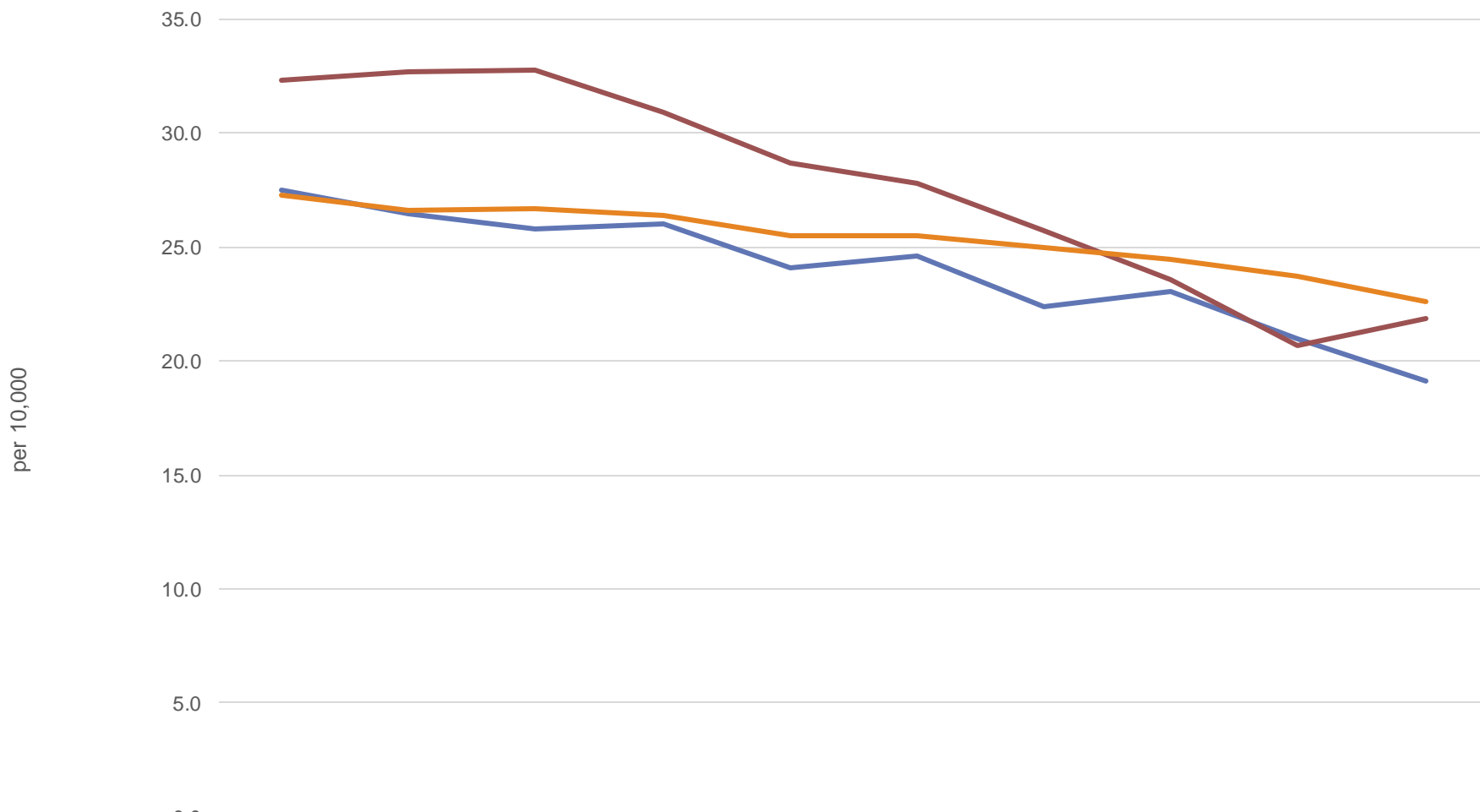
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	36.9	37.1	36.3	31.0	30.8	26.2	23.7	19.9	18.6	18.5
Rensselaer	53.8	51.4	53.6	45.5	48.5	32.5	28.8	27.4	26.6	19.8
NYS, excl. NYC	62.9	58.5	56.2	50.4	48.0	43.5	39.8	35.9	32.4	29.4

Age-adjusted Congestive Heart Failure Hospitalization rate per 10,000, Albany, Rensselaer and NYS, excl. NYC, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	29.1	27.4	23.7	26.2	22.6	21.2	19.7	21.8	19.7	20.0
Rensselaer	35.2	34.8	33.5	31.5	21.7	23.3	22.6	25.0	20.2	19.2
NYS, excl. NYC	30.5	29.5	29.8	28.8	27.8	27.1	25.8	24.2	23.0	22.9

Age-adjusted Cerebrovascular Hospitalization Rate per 10,000, Albany, Rensselaer, and NYS, excl. NYC, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Albany	27.5	26.5	25.8	26.0	24.1	24.6	22.4	23.1	21.0	19.1
Rensselaer	32.3	32.7	32.8	30.9	28.7	27.8	25.7	23.6	20.7	21.9
NYS, excl. NYC	27.3	26.6	26.7	26.4	25.5	25.5	25.0	24.5	23.7	22.6

EQUITY

Adjusted CVD Hospitalizations per 10,000 by Gender, 2011-2013

<u>Heart Disease</u>	Albany	Rensselaer	Upstate
Male	81.3	53.9	113.0
Female	53.9	27.1	71.3

<u>CHF</u>	Albany	Rensselaer	Upstate
Male	22.6	23.6	27.8
Female	16.4	14.4	19.3

<u>Stroke</u>	Albany	Rensselaer	Upstate
Male	21.5	22.3	25.4
Female	18.9	17.7	21.7

Adjusted Coronary Heart Disease Hospitalizations per 10,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	17.7	23.6	29.5
Black non-Hispanic	25.4	28.0	33.0
Hispanic	9.5	19.7	34.0

Adjusted Coronary Heart Disease Mortality per 100,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	112.0	130.3	132.0
Black non-Hispanic	132.5	142.4	158.2
Hispanic	56.0	82.6*	89.7

*Fewer than 10 events in numerator; rate is unstable

Adjusted Congestive Heart Failure Hospitalizations per 10,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	20.1	19.7	21.0
Black non-Hispanic	40.7	40.9	40.7
Hispanic	34.5	7.6	34.5

Adjusted Congestive Heart Failure Mortality per 100,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	16.5	19.1	16.5
Black non-Hispanic	13.8	11.1*	13.8
Hispanic	8.1	33.3*	8.1

*Fewer than 10 events in numerator; rate is unstable

Adjusted Stroke Hospitalizations per 10,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	19.5	20.7	20.9
Black non-Hispanic	33.7	33.8	36.4
Hispanic	9.8	18.0*	29.8

Adjusted Stroke Mortality per 100,000 by Race/Ethnicity, 2011-2013

	Albany	Rensselaer	Upstate
White non-Hispanic	27.6	30.7	29.2
Black non-Hispanic	43.5	25.2*	38.1
Hispanic	26.2*	39.5*	24.9

*Fewer than 10 events in numerator; rate is unstable

Top Neighborhood Rates

Heart Disease Hospitalization*

- Albany County (67.6)
 - West Hills/South End- 103.6
 - West End- 101.8
 - N. Albany/Menands- 94.7
- Rensselaer County (71.8)
 - Troy/Lansingburgh- 84.7
 - East Greenbush- 69.9
 - Rensselaer- 62.6
- Upstate- 92.2

CHF Hospitalization*

- Albany County (20.4)
 - West Hills/South End- 36.3
 - West End- 34.4
 - N. Albany/Menands- 32.0
- Rensselaer County (21.4)
 - Troy/Lansingburgh- 24.0
 - East Greenbush- 20.3
 - Rensselaer- 13.4
- Upstate- 23.4

*per 10,000 population

Top Neighborhood Rates

Stroke Hospitalizations*

- Albany County (21.1)
- West Hills/South End- 30.0
 - Center Square- 28.4
 - Delaware/2nd Ave.- 27.7
- Rensselaer County (22.0)
 - North West- 25.4
 - Troy/Lansingburgh- 21.7
 - East Greenbush- 21.6
 - Upstate- 21.4

*per 10,000 population

Cardiovascular Disease Summary

- **Albany and Rensselaer Counties annually have:**
 - 1,055 coronary heart disease hospitalizations;
 - 652 deaths due to coronary heart disease;
 - 1,126 hospitalizations for CHF;
 - 119 deaths due to CHF;
 - 644 heart attack hospitalizations;
 - 140 heart attack deaths;
 - 1,123 stroke hospitalizations;
 - 156 deaths due to stroke

Cardiovascular Disease Summary

- The counties were higher than ROS for CHF mortality, and Rensselaer higher for stroke hospitalization and mortality, otherwise rates were favorable compared to ROS;
- Coronary heart disease CHF and stroke show decreasing trends in past decade;
- Males have higher rates compared to females for CVD indicators;
- BNH's have higher CDH and Stroke rates compared to WNH's; for CHF, BNH's have higher hospitalization rates but lower mortality rates compared to WNH's;
- High risk neighborhoods show little difference than ROS for heart disease hospitalizations; 1.2-1.5 times higher for CHF.

CANCER IN ALBANY- RENSSELAER

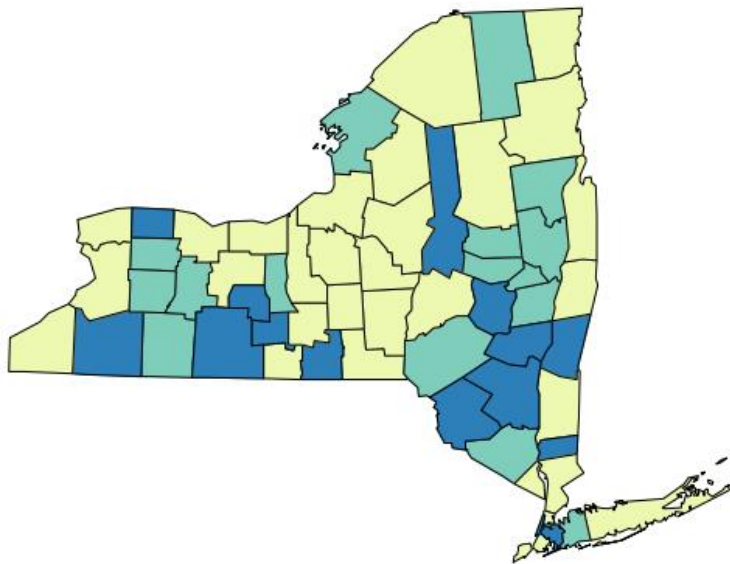
The Effect of Cancer on the Population

	Albany	Rensselaer	Capital Region
Number of Adults (ages 50-75) who did not Receive Colorectal Cancer Screening in the past year(2013-14)	21,900	14,000	82,500
Number of New Colorectal Cancer Cases per year (2012)	145	89	477
Colorectal Cancer Deaths per year (2012)	45	28	157
Number of Women 40+ who did not have a mammogram in the past 2 years (2013-14)	19,500	9,800	65,500
Number of New Female Breast Cancer Cases per year (2012)	257	115	804
Number Female Breast Cancer Cases diagnosed in late stage (2012)	78	37	245
Female Breast Cancer Deaths per year (2012)	42	26	130

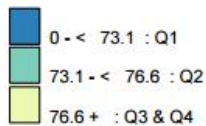
Cancer Indicators and Significance Compared to New York State (excl. NYC), 2010-2012

	Albany		Rensselaer		Capital Region		Upstate
% Receiving Colorectal Cancer Screening (ages 50-75) (2013-14)	72.8	Higher	68.8	Lower	69.4	Slightly lower	70.0
Adjusted Colorectal cancer Incidence/100,000	43.5	Higher	45.0	Higher	43.5	Higher	41.2
Adjusted Colorectal Cancer Mortality/100,000	14.2	Higher	14.5	Higher	14.3	Higher	13.9
% Women 40+ years with mammogram in past 2 years (2013-14)	75.2	Lower	76.7	Lower	74.3	Lower	77.8 (NYS)
Adjusted female Breast Cancer Incidence/100,000	141.6	Higher	126.0	Lower	132.9	Slightly lower	133.2
Adjusted Late Stage Female Breast Cancer Incidence/100,000	48.8	Sig. Higher	40.0	Lower	44.4	Higher	42.7
Adjusted Female Breast Cancer Mortality/100,000	21.9	Higher	20.9	Same	21.2	Slightly higher	20.9

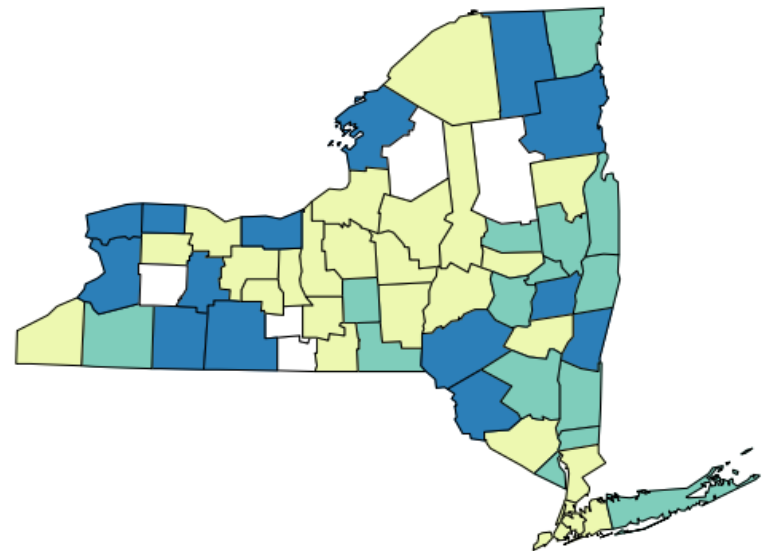
% Females 40+ Years with Breast Cancer Screening in Past 2 Years, 2013-14



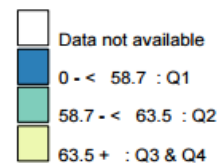
Percentage of women (40+)
Counties Are Shaded Based On Quartile Distribution



% of Medicaid Women 50-74 Years Who Had a Mammogram between Oct 1, 2011 and Dec 31, 2013, 2013

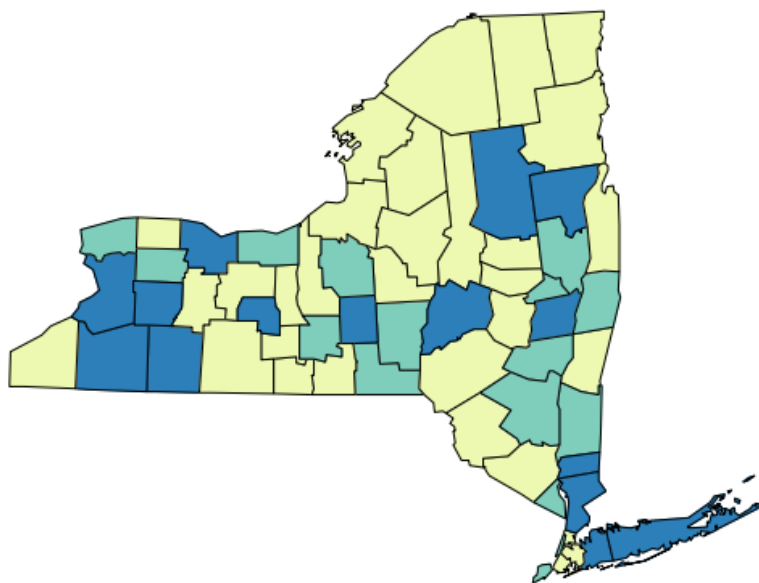


Percentage of women in program
Counties Are Shaded Based On Quartile Distribution

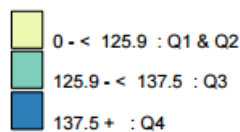


Source: 2013 NYS Medicaid Program Data as of July, 2015

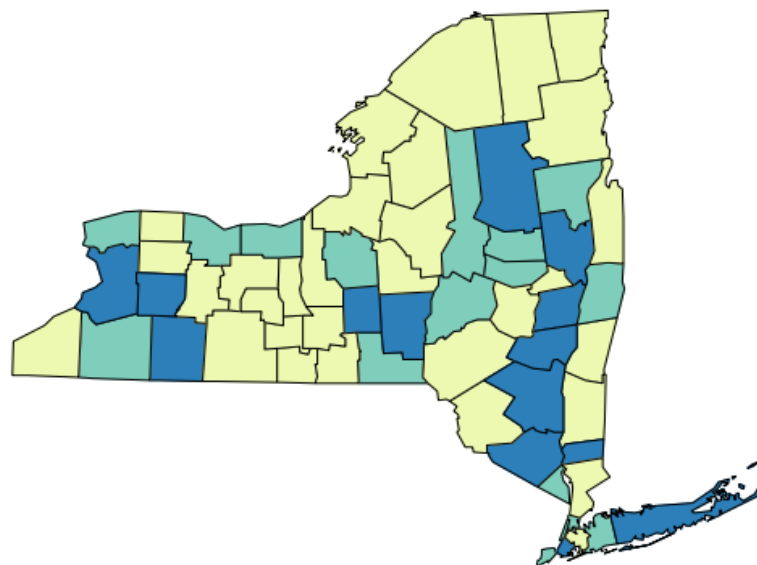
Adjusted Female Breast Cancer Incidence per 100,000, 2010-2012



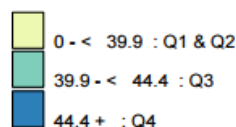
Incidence rate
Counties Are Shaded Based On Quartile Distribution



Adjusted Female Breast Cancer Late Stage Incidence Rate per 100,000, 2010-2012

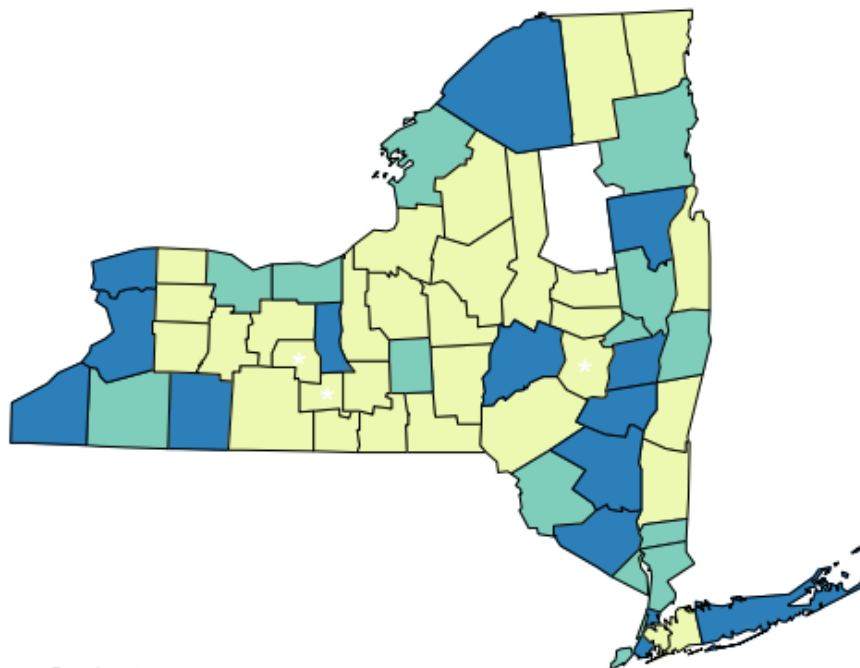


Incidence rate
Counties Are Shaded Based On Quartile Distribution

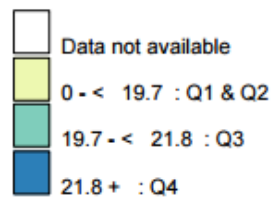


"late stage" is defined as all cancers that have spread beyond the organ of origin at the time of diagnosis.
Source: 2010-2012 Cancer Registry Data as of April, 2015

Adjusted Female Breast Cancer Mortality Rate per 100,000, 2010-2012

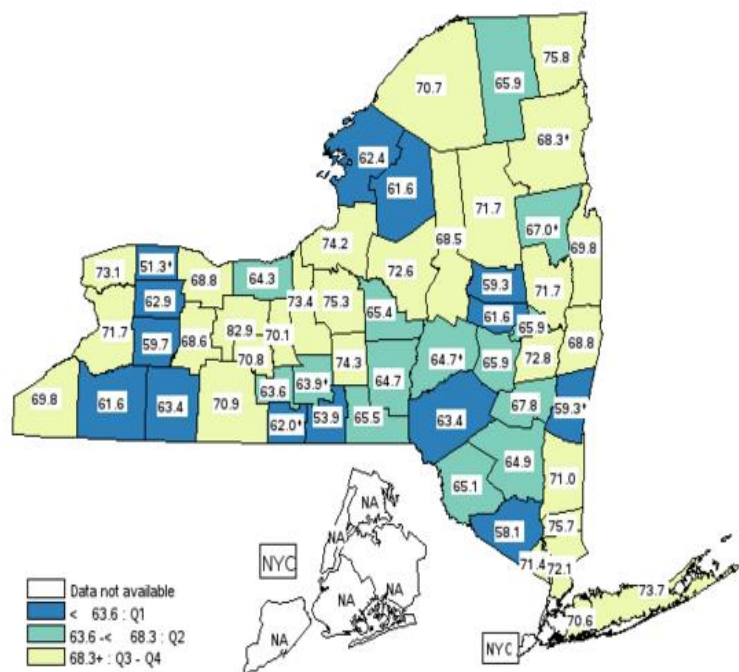


Death rate
Counties Are Shaded Based On Quartile Distribution
(* Fewer than 10 events in the numerator, therefore the rate is unstable)

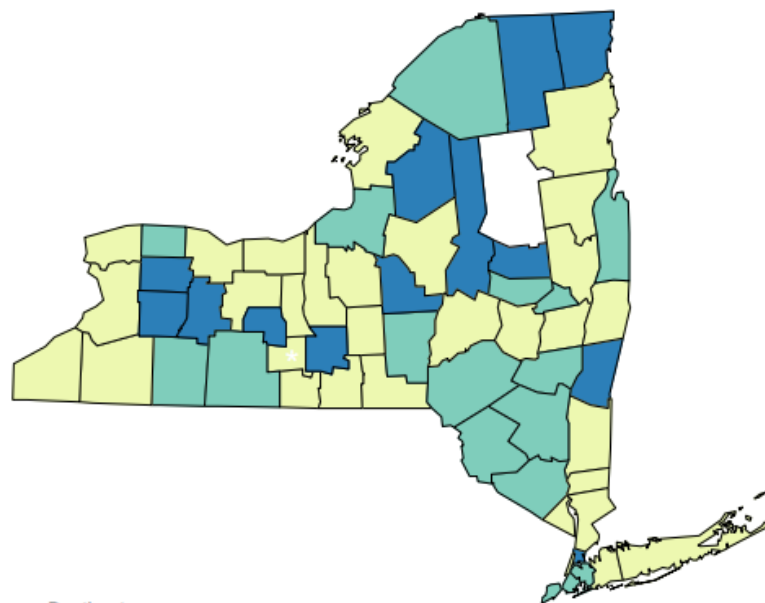


% Adults 50-75 Years Who Received Colorectal Screening based on most recent guidelines, 2013-14

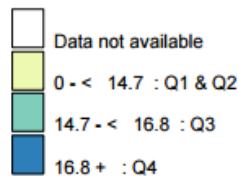
Data Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System data as of September 2014



Adjusted Colorectal Cancer Mortality per 100,000, 2010-2012



Death rate
Counties Are Shaded Based On Quartile Distribution
(* Fewer than 10 events in the numerator, therefore the rate is unstable)

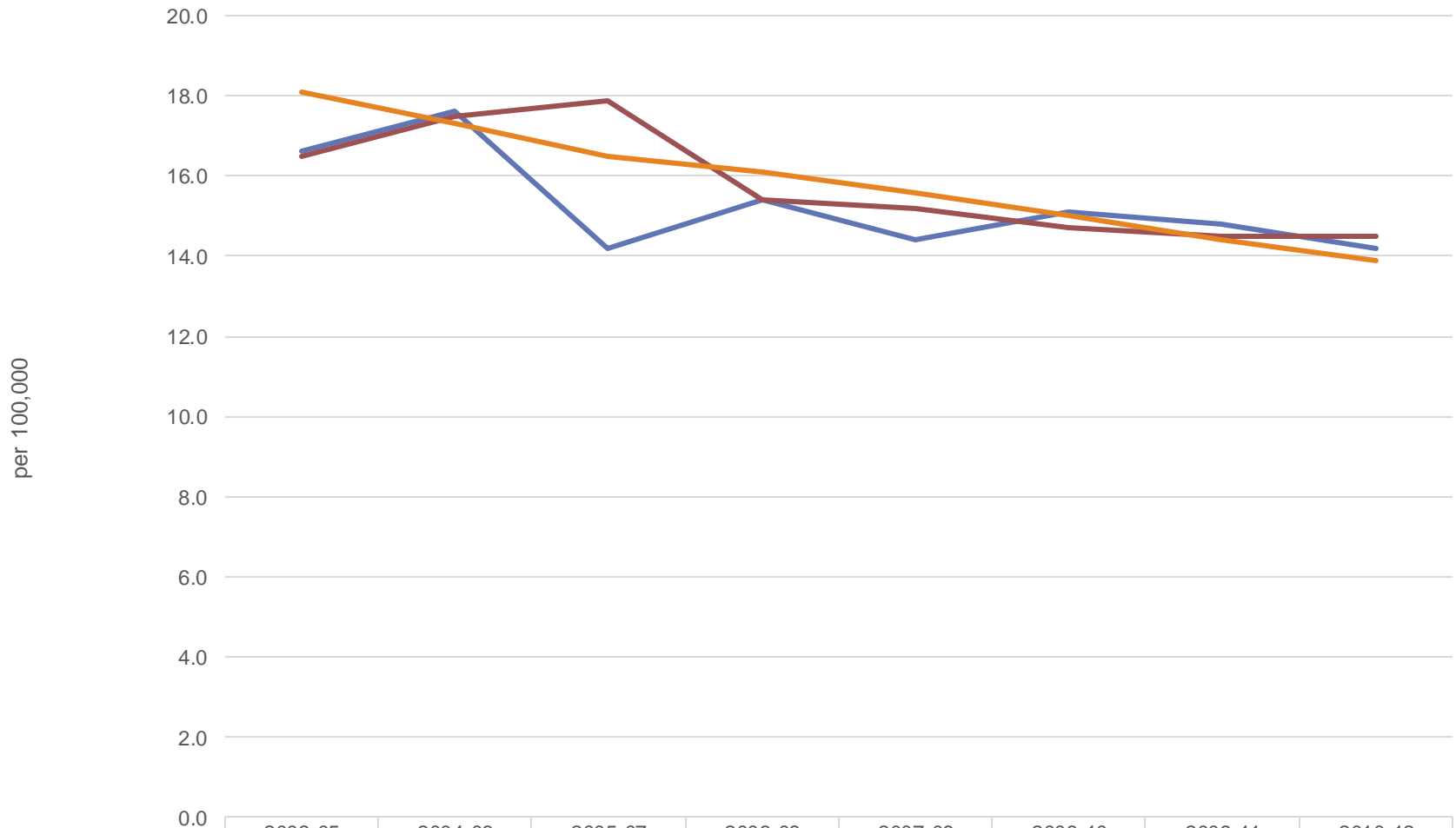


Source: 2010-2012 Cancer Registry Data as of April, 2015

**Percent Receiving CRC Screening ages 50-75 for NYS (excl. NYC),
Albany, and Rensselaer Counties; 2003, 2008-09, 2013-14**

	2003	2008-09	2013-14
Albany	66.9	67.9	72.8
Rensselaer	57.7	66.0	68.8
Capital Region	NA	NA	69.4
Upstate	57.6	68.4	70.0

Age-adjusted Colorectal Cancer Mortality Rate per 100,000 Albany, Rensselaer and NYS excl. NYC, 2003-2012

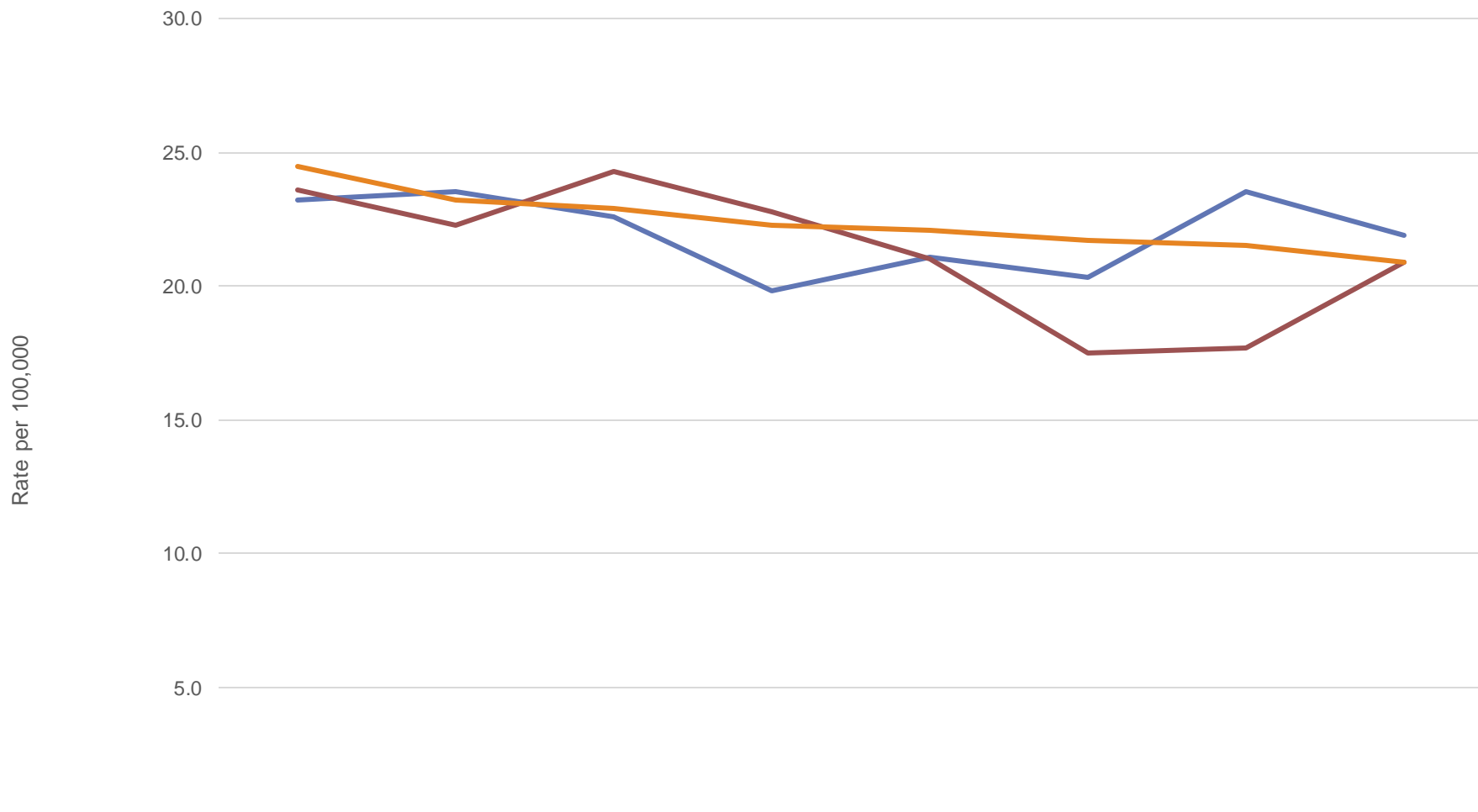


— Albany
— Rensselaer
— NYS, excl. NYC

**Percent of Mammography Screening among Women ages 40+ for
New York State (excl. NYC), Capital Region, Albany, and Rensselaer
Counties; 2003, 2008-09, 2013-14**

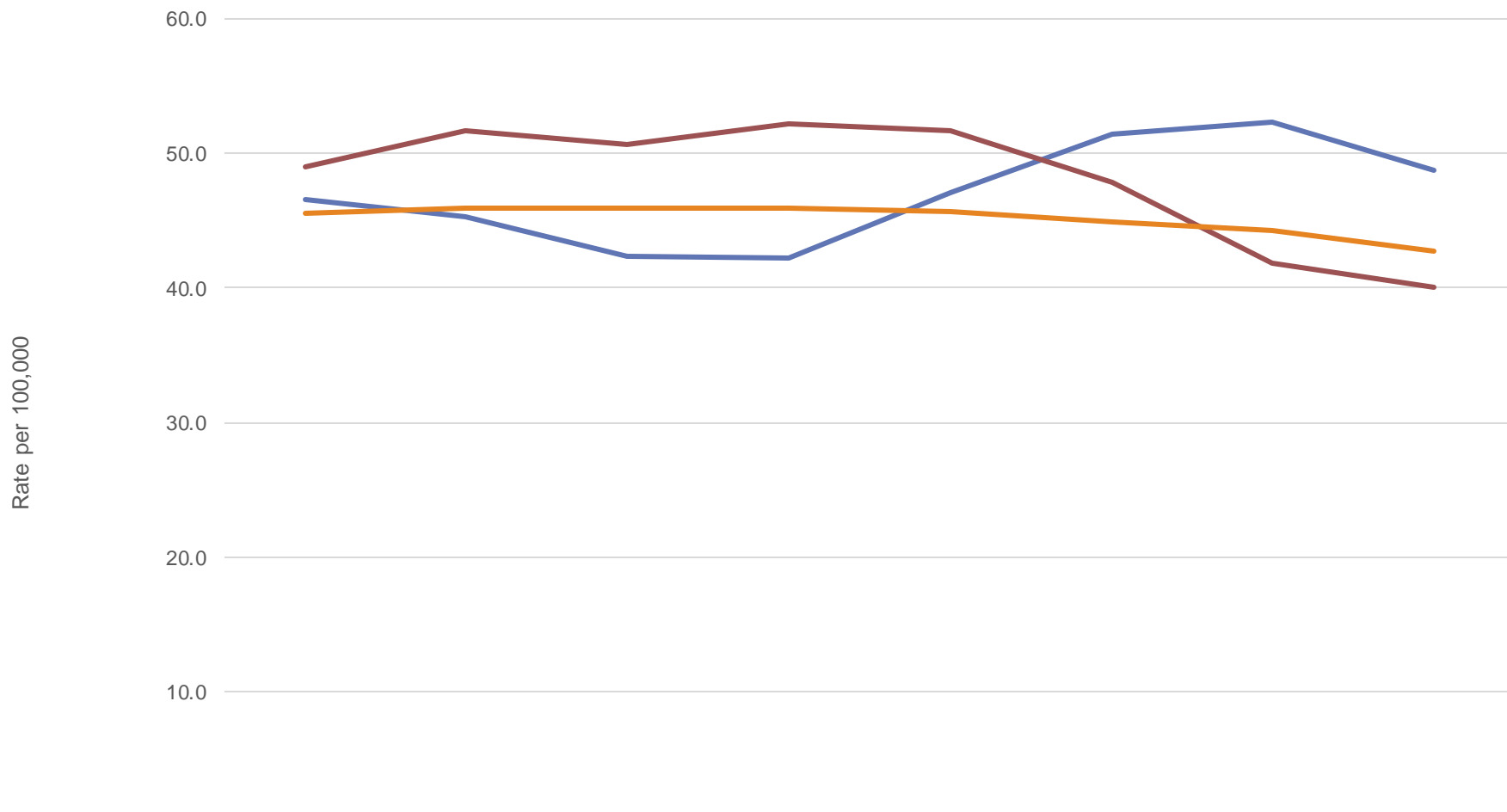
	2003	2008-09	2013-14
Albany	84.9	78.6	75.2
Rensselaer	80.6	80.2	76.7
Capital Region	NA	NA	74.3
Upstate	78.2	81.9	NA

Age-adjusted Female Breast Cancer Mortality Rate per 100,000, Albany, Rensselaer, and NYS excl. NYC, 2003-2012



	2003-05	2004-06	2005-07	2006-08	2007-09	2008-10	2009-11	2010-12
Albany	23.2	23.5	22.6	19.8	21.1	20.3	23.5	21.9
Rensselaer	23.6	22.3	24.3	22.8	21.0	17.5	17.7	20.9
NYS, excl. NYC	24.5	23.2	22.9	22.3	22.1	21.7	21.5	20.9

Age-adjusted Female Breast Cancer Late Stage Incidence Rate per 100,000, Albany, Rensselaer, and NYS excl. NYC, 2003-2012



	2003-05	2004-06	2005-07	2006-08	2007-09	2008-10	2009-11	2010-12
Albany	46.6	45.3	42.4	42.2	47.1	51.5	52.4	48.8
Rensselaer	49.0	51.7	50.7	52.2	51.7	47.9	41.8	40.0
NYS, excl. NYC	45.6	45.9	46.0	45.9	45.7	44.9	44.3	42.7

EQUITY

Colorectal Cancer Incidence and Mortality Rates by Gender, 2008-2012

<u>CRC Incidence per 100,000</u>	Albany	Rensselaer	Upstate
Male	51.0	54.9	48.4
Female	37.4	41.0	38.2

<u>CRC Mortality per 100,000</u>	Albany	Rensselaer	Upstate
Male	17.5	17.8	16.9
Female	12.6	11.4	12.5

Adjusted Colorectal Cancer Mortality Rates per 100,000 by Race/Ethnicity, 2010-2012

	Albany	Rensselaer	Upstate
White non-Hispanic	13.2	14.4	14.0
Black non-Hispanic	25.0	s	16.0
Hispanic	27.3*	s	9.6

Adjusted Colorectal Cancer Incidence Rates per 100,000 by Race/Ethnicity, 2010-2012

	Albany	Rensselaer	Upstate
White non-Hispanic	43.7	45.1	41.7
Black non-Hispanic	52.9	48.1	44.4
Hispanic	42.6*	s	33.4

*Fewer than 10 events in numerator; rate is unstable; s=suppressed

Adjusted Female Breast Cancer Mortality Rates per 100,000 by Race/Ethnicity, 2010-2012

	Albany	Rensselaer	Upstate
White non-Hispanic	22.3	20.0	21.0
Black non-Hispanic	21.1	48.5*	26.7
Hispanic	0.0*	s	14.2

Adjusted Female Late Stage Breast Cancer Incidence Rates per 100,000 by Race/Ethnicity, 2010-2012

	Albany	Rensselaer	Upstate
White non-Hispanic	49.3	40.6	43.2
Black non-Hispanic	55.0	s	49.9
Hispanic	s	s	30.8

*Fewer than 10 events in numerator; rate is unstable; s=suppressed

Selected Cancers Summary

- Albany and Rensselaer Counties annually have:
 - 35,900 adults 50-75 years with no colorectal screening;
 - 234 new cases of colorectal cancer (CRC);
 - 73 deaths due to colorectal cancer;

- 29,300 women 40+ years of age without mammography in past two years;
- 372 new cases of female breast cancer;
- 115 new cases of female breast cancer with late stage diagnosis;
- 68 deaths due to female breast cancer.

Selected Cancers Summary

- Neither county had colorectal screening rates in the top two Risk Quartiles; both had screening rates improve from 2003;
- CRC mortality rates were slightly higher than ROS for both counties, but did not fall into the top two Risk Quartiles; mortality rates showed a general decrease over the last decade;
- CRC incidence and mortality rates were 35-50% higher in males compared to females in both Albany and Rensselaer Counties.

Selected Cancers Summary

- Mammography screening decreased in both Albany and Rensselaer between 2003 and 2013-14; Albany fell in the 3rd Risk Quartile for the general population and 4th risk quartile for the Medicaid population;
- Albany fell into the 4th Risk Quartile for both breast cancer incidence, late stage diagnosis, and mortality while Rensselaer fell into the 3rd Risk Quartile for these indicators; Albany's rate for late stage diagnosis was significantly higher than ROS;
- Since 2007, Albany showed an increasing trend in Late Stage Diagnosis, while Rensselaer showed a decreasing one;
- Albany showed an increase in trend for breast cancer mortality over since 2008, while Rensselaer show an increase since 2010.

OBESITY IN ALBANY- RENSSELAER

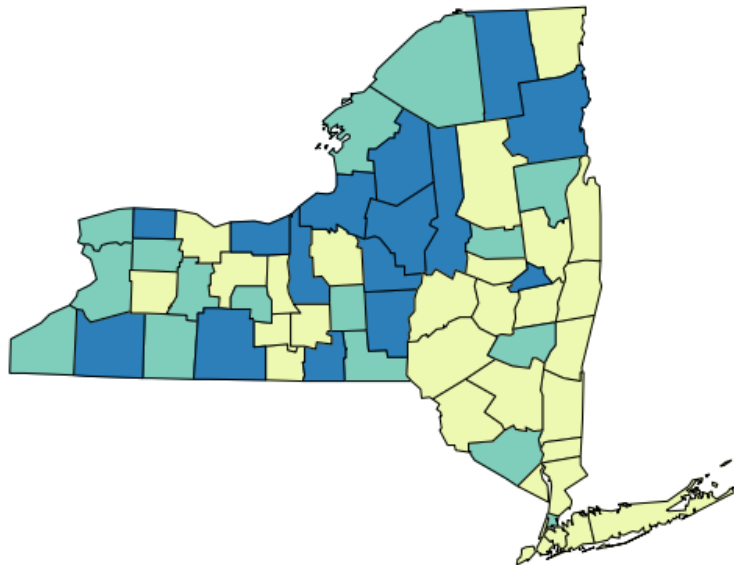
The Effect of Obesity on the Population

	Albany	Rensselaer	Capital Region
Number of Obese Adults (2013-14)	58,000	24,100	196,000
Number of Obese Children and Adolescents (2012-14)	7,375	4,325	24,900
Number of Obese Children (2-4 yrs.) in WIC (2012)	348	214	1,041
Number of Adults not engaged in Leisure Time Physical Activity in past 30 days (2013-14)	50,650	33,300	174,500

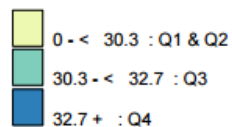
Obesity Indicators and Significance Compared to New York State (excl. NYC)

	Albany		Rensselaer		Capital Region		Upstate
Age-adjusted percentage of adults who are obese (30+ BMI) (2013-14)	26.0	Lower	26.8	Slightly Lower	27.8	Slightly higher	27.0
% of Children and Adolescents who are Obese (2012-14)	17.0	Slightly Lower	18.0	Higher	17.2	Similar	17.3
% WIC Children (2-4 years) who are Obese (2010-2012)	15.1	Slightly Lower	14.7	Lower	14.8	Lower	15.2
Age-adjusted percentage of adults not engaged in some type of leisure time physical activity in the last 30 days (2013-14)	21.7	Lower	26.1	Similar	23.4	Lower	26.2

Age-adjusted % of Adults who are Obese (BMI 30+), 2013-14

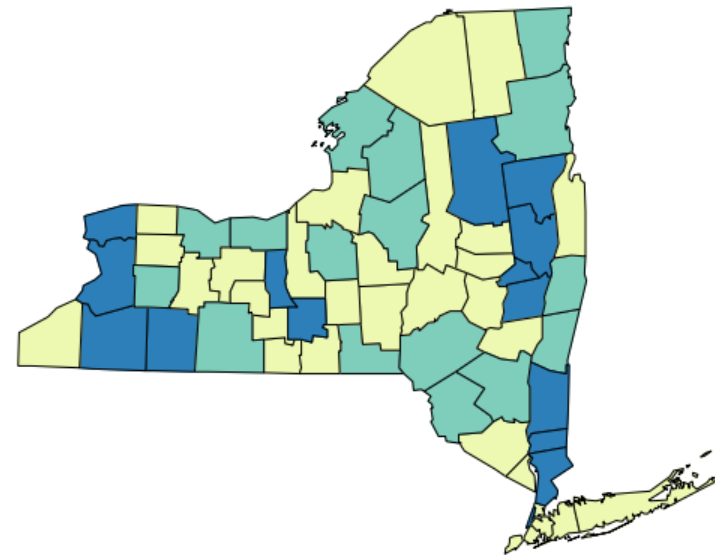


Age-adjusted percentage of adults
Counties Are Shaded Based On Quartile Distribution

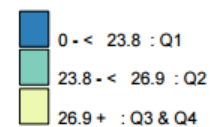


Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System (NYS Counties outside NYC); 2013 NYS Behavioral Risk Factor Surveillance System (NYC counties), data as of 2015

Age-adjusted % of Adults not engaged in Leisure Physical Activity in the past Month, 2013-14



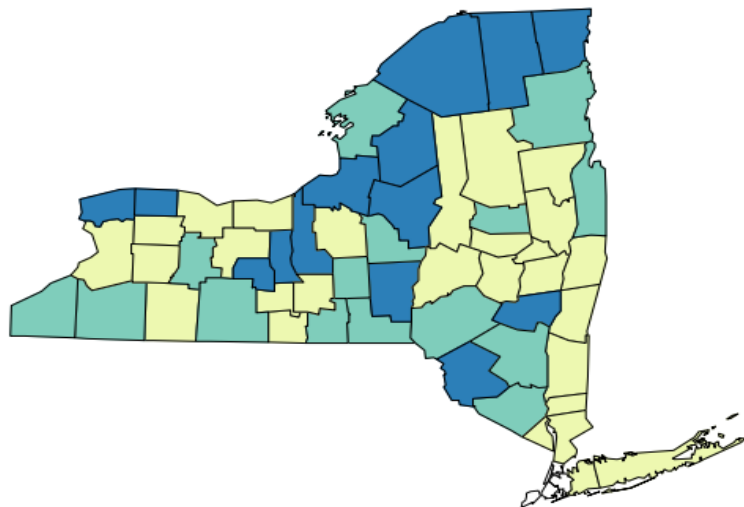
Age-adjusted percentage of adults
Counties Are Shaded Based On Quartile Distribution



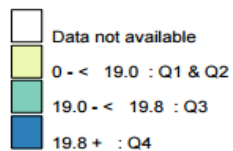
Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System (NYS Counties outside NYC); 2013 NYS Behavioral Risk Factor Surveillance System (NYC counties), data as of 2015

Percentage obese (95th percentile or higher)

Students (with weight status information in SWSCRS) in elementary, middle and high school
2012-2014



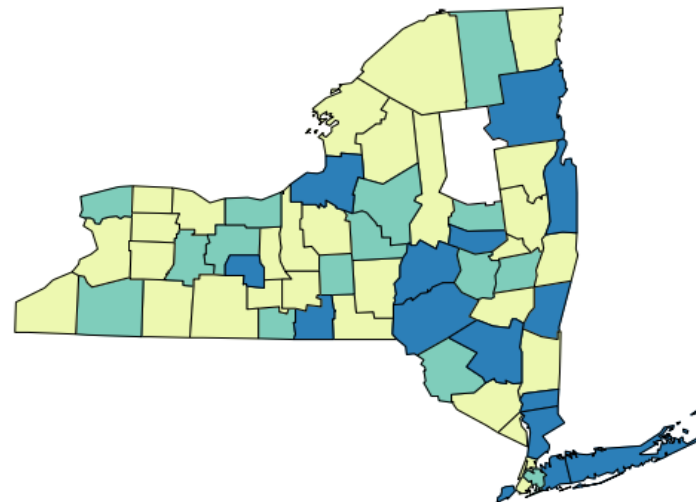
Percentage of students (all students)
Counties Are Shaded Based On Quartile Distribution



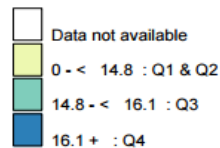
Source: 2012-2014 Student Weight Status Category Reporting System (SWSCRS) Data as of July, 2015

Percentage obese (95th percentile or higher)

children (aged 2-4 years) enrolled in WIC
2010-2012

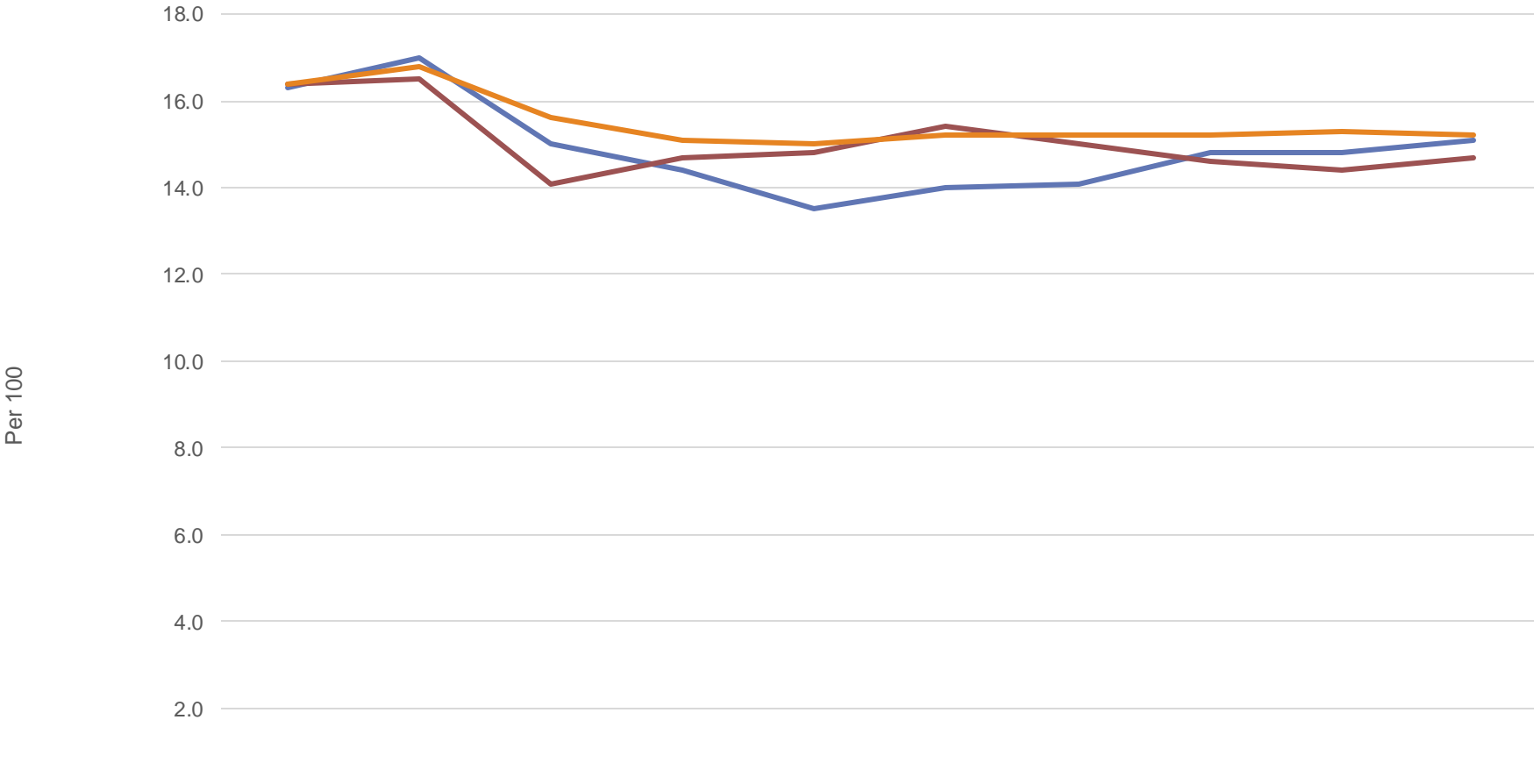


Percentage of WIC children
Counties Are Shaded Based On Quartile Distribution



Source: 2010-2012 NYS Pediatric Nutrition Surveillance System Data as of September, 2013

Percent of Children (2-4 yrs.) in WIC who are Obese, Albany, Rensselaer and NYS excl. NYC, 2001-03 to 2010-12



	2001-03	2002-04	2003-05	2004-06	2005-07	2006-08	2007-09	2008-10	2009-11	2010-12
Albany	16.3	17.0	15.0	14.4	13.5	14.0	14.1	14.8	14.8	15.1
Rensselaer	16.4	16.5	14.1	14.7	14.8	15.4	15.0	14.6	14.4	14.7
NYS, excl. NYC	16.4	16.8	15.6	15.1	15.0	15.2	15.2	15.2	15.3	15.2

**Percent of Children and Adolescents who are Obese for New York State
(excl. NYC), Capital Region, Albany, and Rensselaer Counties;
2010-12, 2012-14**

	2010-12	2012-14
Albany	17.9	17.0
Rensselaer	17.4	18.0
Capital Region	NA	17.2
Upstate	17.6	17.3

Percent of Obese Adults for New York State (excl. NYC), Capital Region, Albany, and Rensselaer Counties; 2003, 2008-09, 2013-14

	2003	2008-09	2013-14
Albany	19.2	21.7	26.0
Rensselaer	23.7	26.1	26.8
Capital Region	NA	NA	27.8
Upstate	20.8	24.2	27.0

Percent of Adults engaged in some type of leisure time physical activity for New York State (excl. NYC), Capital Region, Albany, and Rensselaer Counties; 2003, 2008-09, 2013-14

	2003	2008-09	2013-14
Albany	80.6	80.7	78.3
Rensselaer	78.7	76.4	73.9
Capital Region	NA	NA	76.6
Upstate	77.6	78.9	73.8

EQUITY

Obesity Indicators by Age

	Albany	Rensselaer	Capital Region
WIC Children (2-4 years)	15.1%	14.7 %	14.8%
Children and Adolescents (5-17 years)	17.0%	18.0%	17.2%
Adults (18+ years)	26.0%	26.8%	27.8%

Obesity Summary

- Albany and Rensselaer annually have:
 - 83,000 adults 18+ years who are obese;
 - 11,700 children/adolescents who are obese;
 - 560 WIC children (2-4 years) who are obese;
- 84,000 adults 18+ years with no leisure time physical activity

Obesity Summary

- Albany and Rensselaer had a lower prevalence of obesity in adults than ROS;
- Albany showed a 35% increase in adult obesity between 2003 and 2013-14, while Rensselaer showed a 13% increase;
- Albany and Rensselaer showed lower or similar rates of adults “not engaged” in some type of leisure time physical activity than ROS;
- Albany’s “no leisure time physical activity” rate decreased 3% and Rensselaer’s 6% from 2003 to 2013-14;
- The prevalence of obesity increases with age.

Obesity Summary

- Albany had lower rates of obesity in school age children and WIC children than ROS; Rensselaer had higher rates for school age children, but lower rates for WIC children;
- Albany showed a slight increase in school age children who are obese from 2010-12 to 2012-14 while Rensselaer showed a slight decrease;
- Albany showed a slight increasing trend in obesity in the WIC children since 2005-07, while Rensselaer's trend was stable.