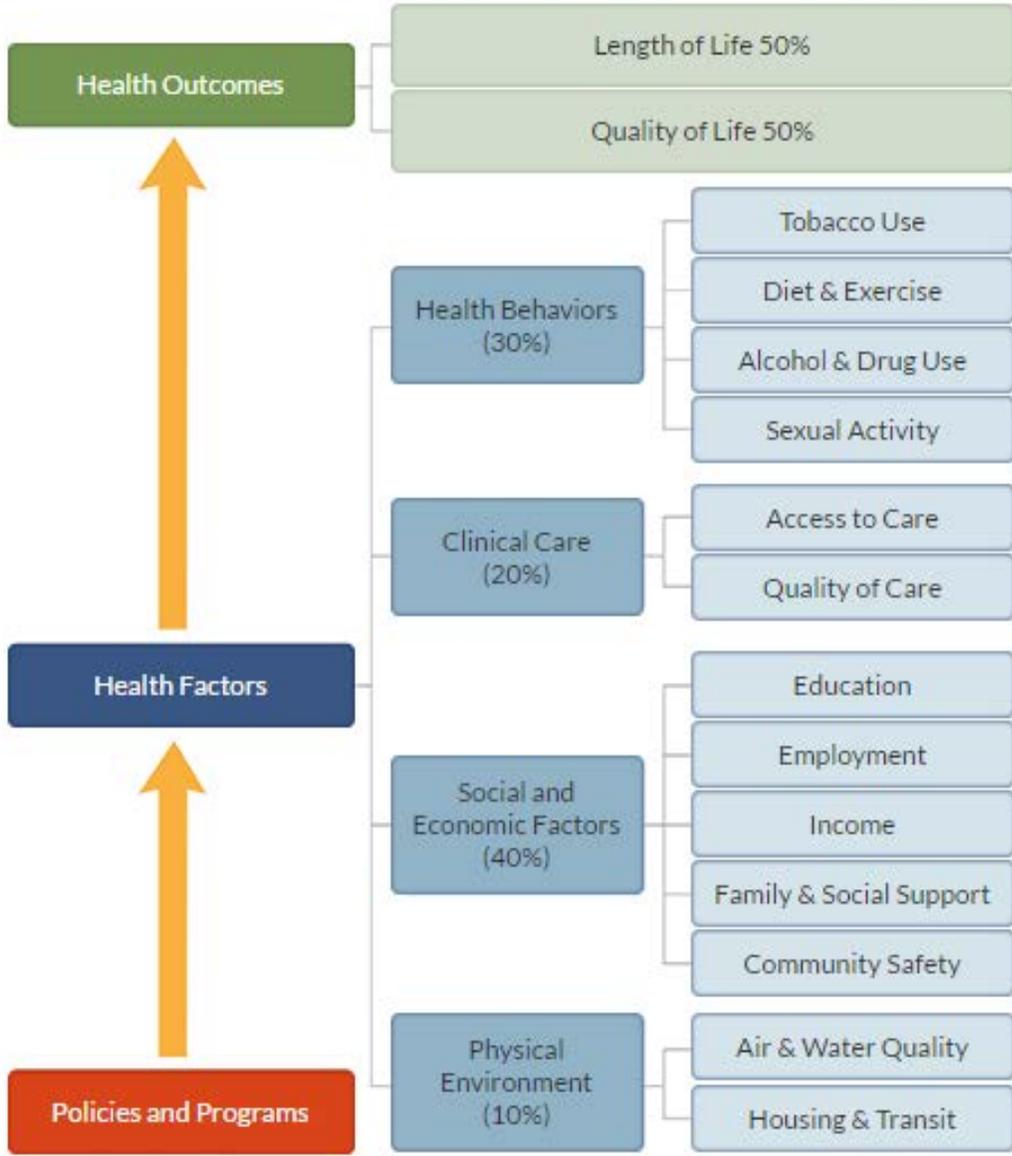


New York State Population, Socio-Demographics and General Health Status

**Ad Hoc Committee to lead the Prevention Agenda
February 15, 2018**

Framework for assessing and describing health status and what influences health



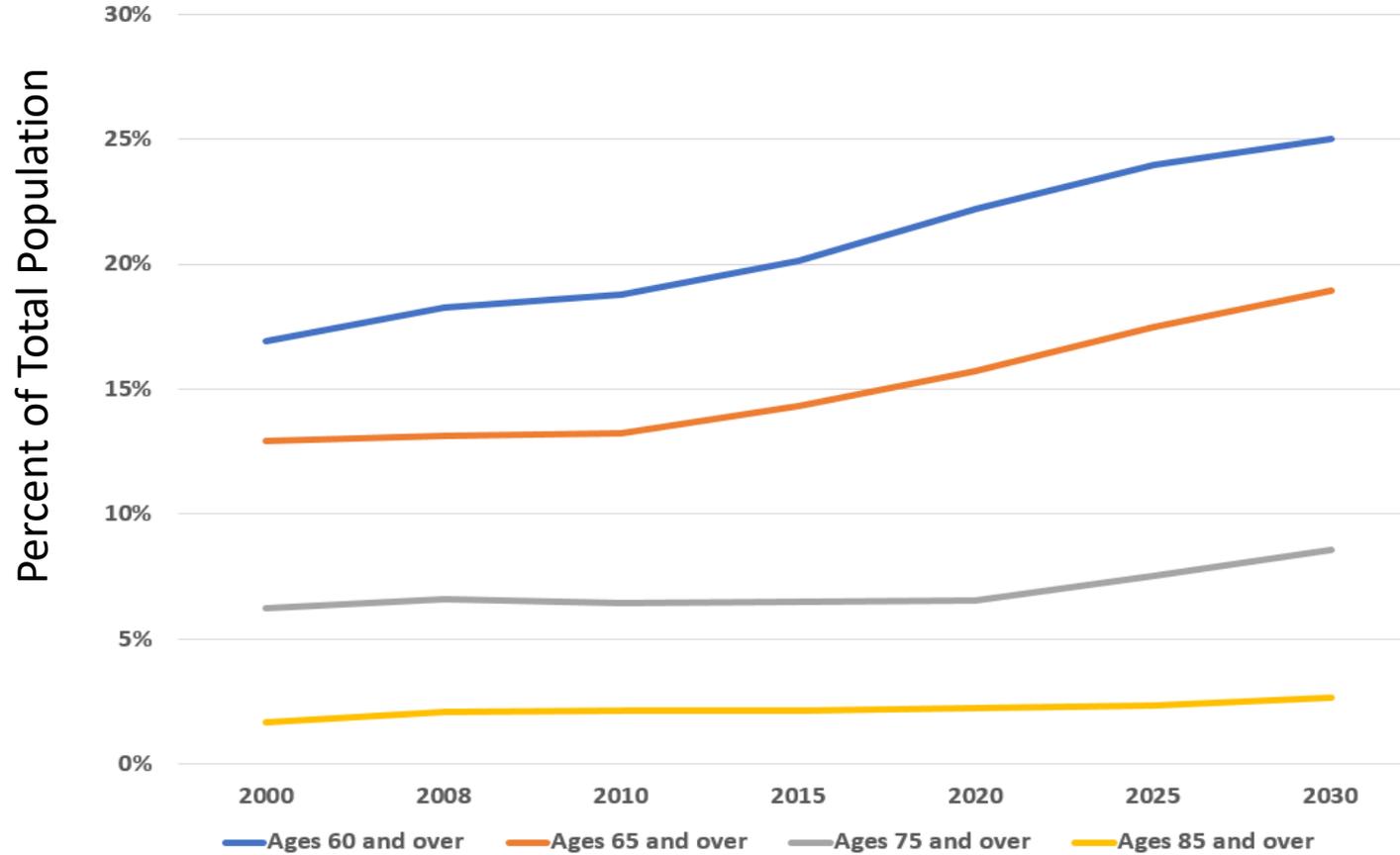
County Health Rankings model © 2014 UWPHH

Summary

- **The NYS population is aging and becoming more diverse**
- **Chronic disease continues to be a major burden including heart diseases, cancers, diabetes, and asthma.**
- **We are making good progress in some maternal and infant health indicators including teen pregnancy and breastfeeding but more work to be done to address the disparities related to infant mortality, preterm birth, and maternal mortality.**
- **We are on the path to end AIDS but have challenges reducing STDs as well as Hep C.**
- **In the past several years, water quality has become a major issue that warrants attention.**
- **Most importantly we have identified opioid overdose as a major issue that is contributing to declining life expectancy.**

General demographics

Trends in aging populations, New York State, 2000-2030*



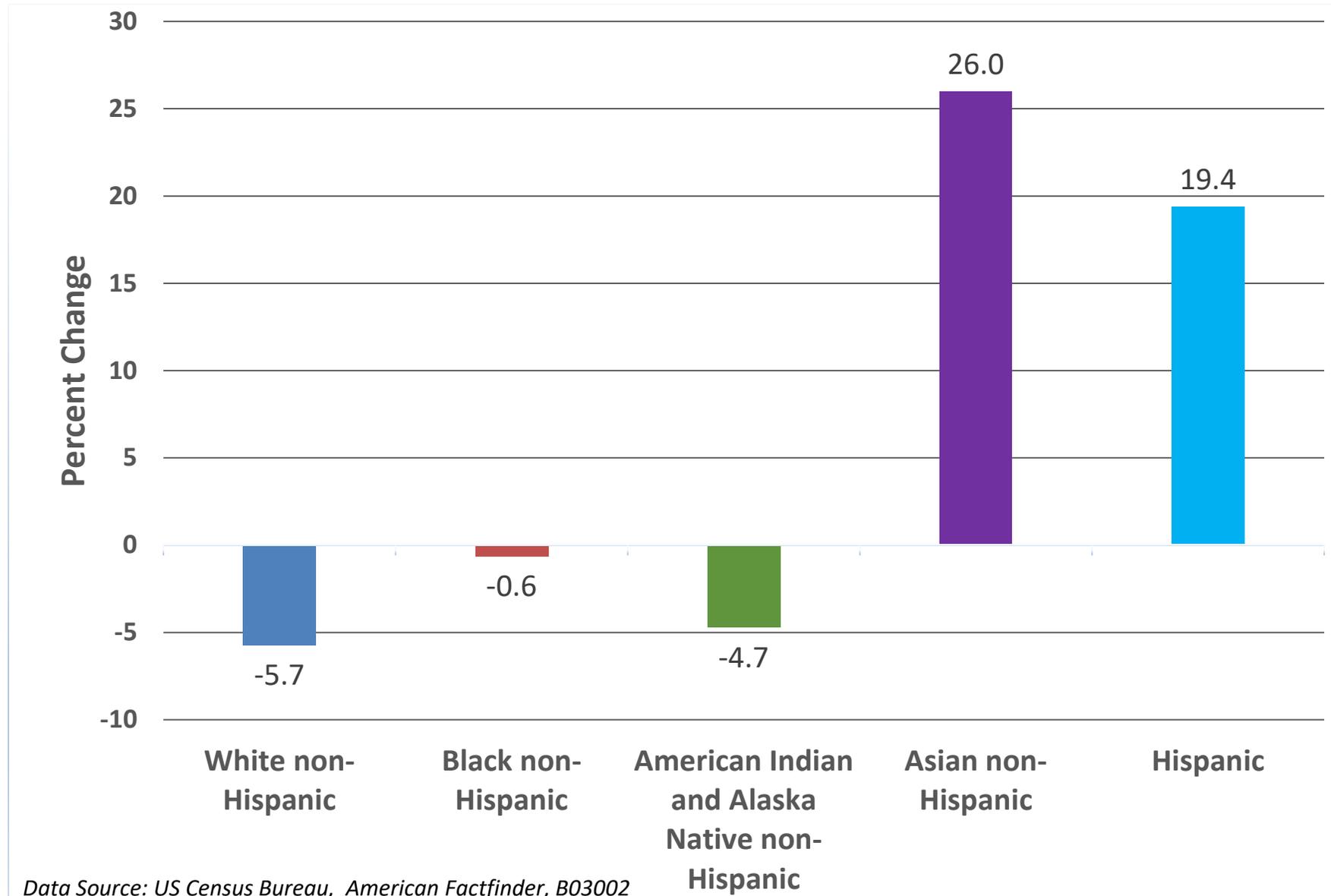
Population Trends	2000	2008	2010	2015	2020	2025	2030
Total Population	19,000,135	19,460,969	19,566,610	19,673,174	20,266,341	20,693,354	21,195,944
Ages 60 and over	3,211,738	3,558,460	3,677,891	3,965,446	4,499,549	4,962,734	5,302,667
Ages 65 and over	2,452,931	2,559,826	2,588,024	2,820,435	3,191,141	3,615,695	4,020,308
Ages 75 and over	1,180,878	1,281,459	1,259,873	1,282,467	1,332,145	1,561,652	1,815,879
Ages 85 and over	314,771	403,129	417,164	422,641	454,298	486,682	566,423
Disabled-----Ages 60 and over	1,201,431	1,331,201	1,375,879	1,506,658	1,683,257	1,856,532	1,983,699

37 percent of those over 60 have/will have a disability



Data Source: NYS Data Book, US Census 2015, *2020, 2025, 2030 date were projected by NYSOFA

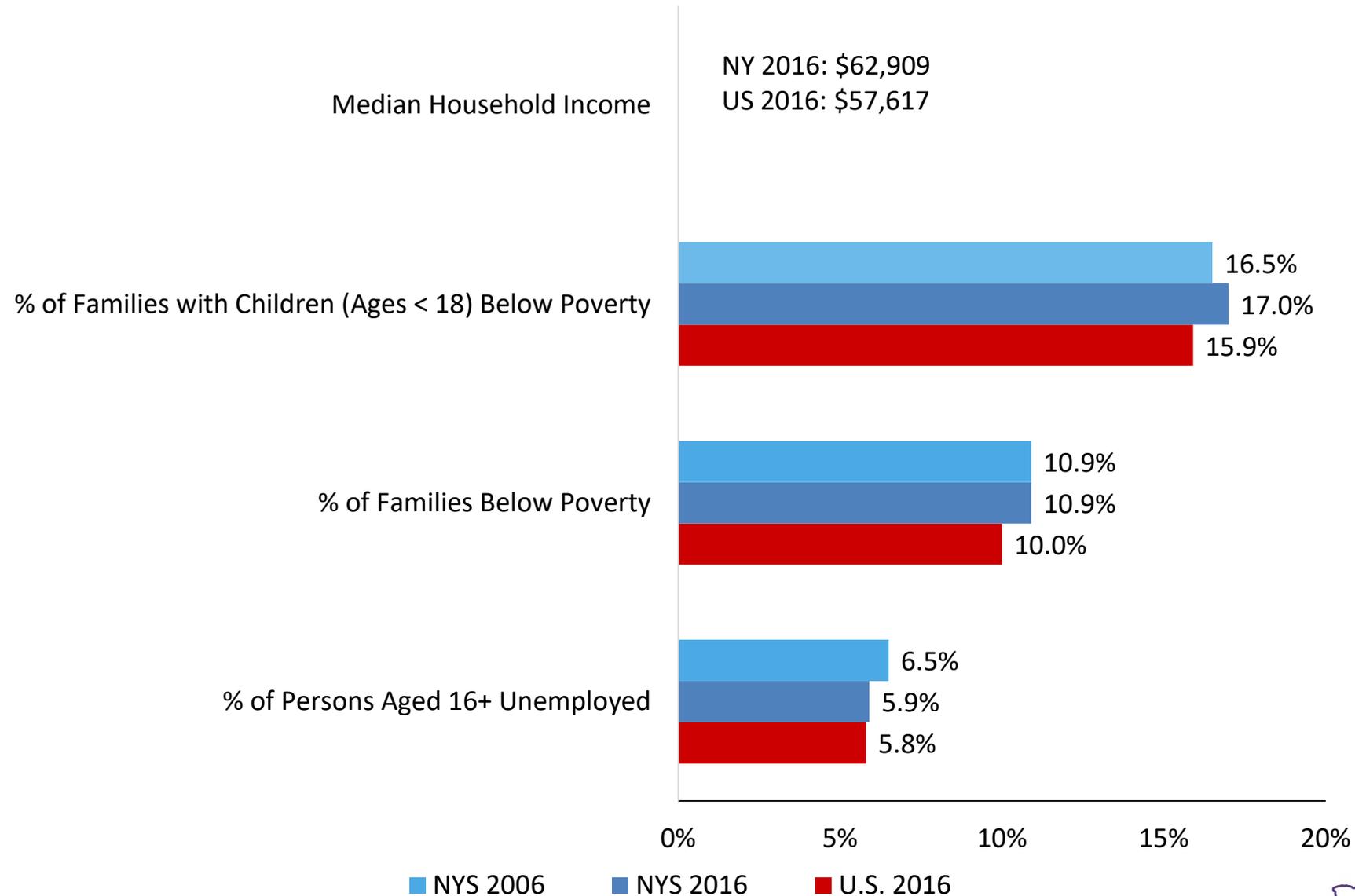
Percentage change in population by race and ethnicity, New York State 2006 and 2016



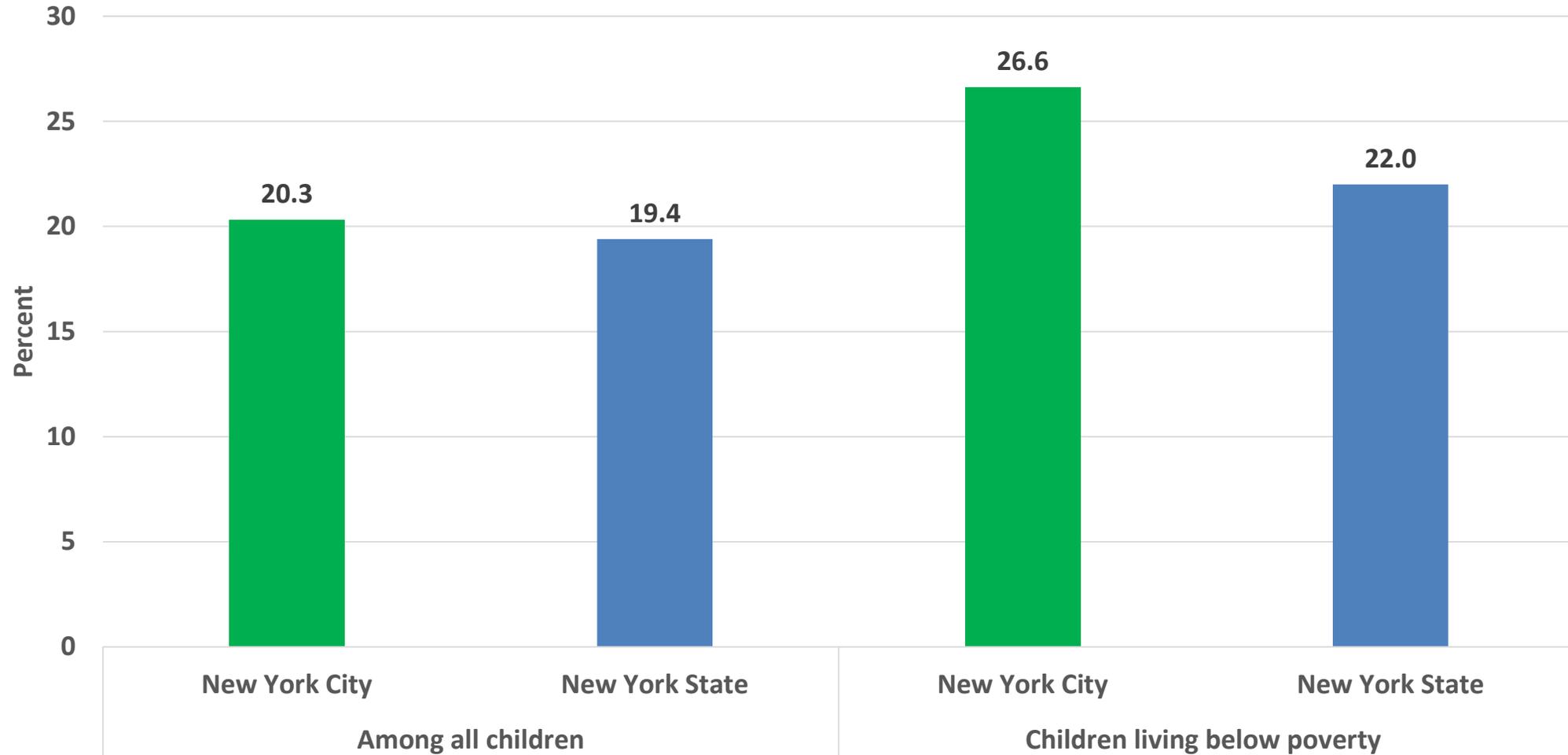
Social and economic factors

- Education
- Employment
- Income*
- Family and social support
- Community safety

Income and poverty, New York State and U.S.



Childhood food insecurity and poverty, New York City, and New York State, 2015



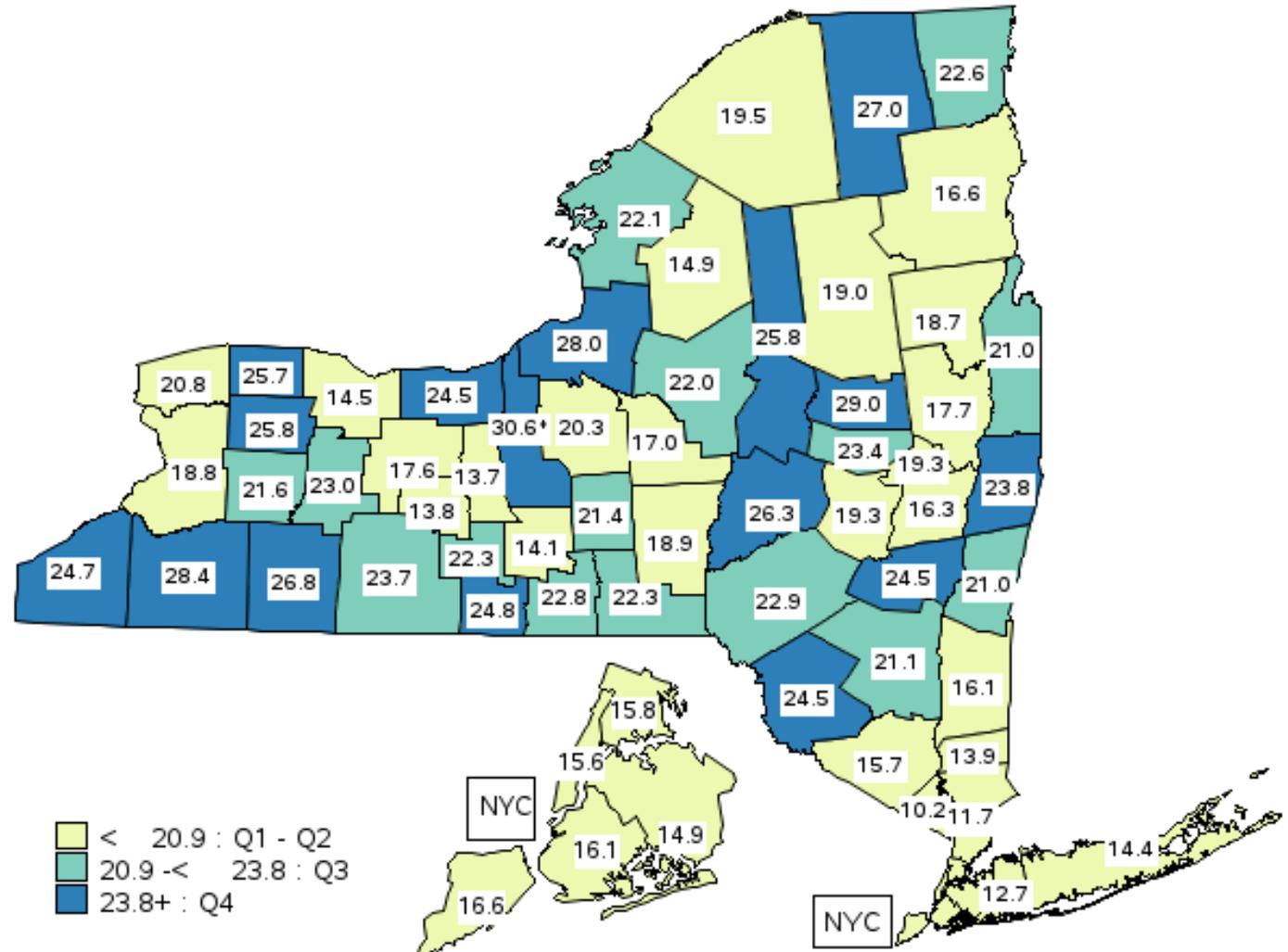
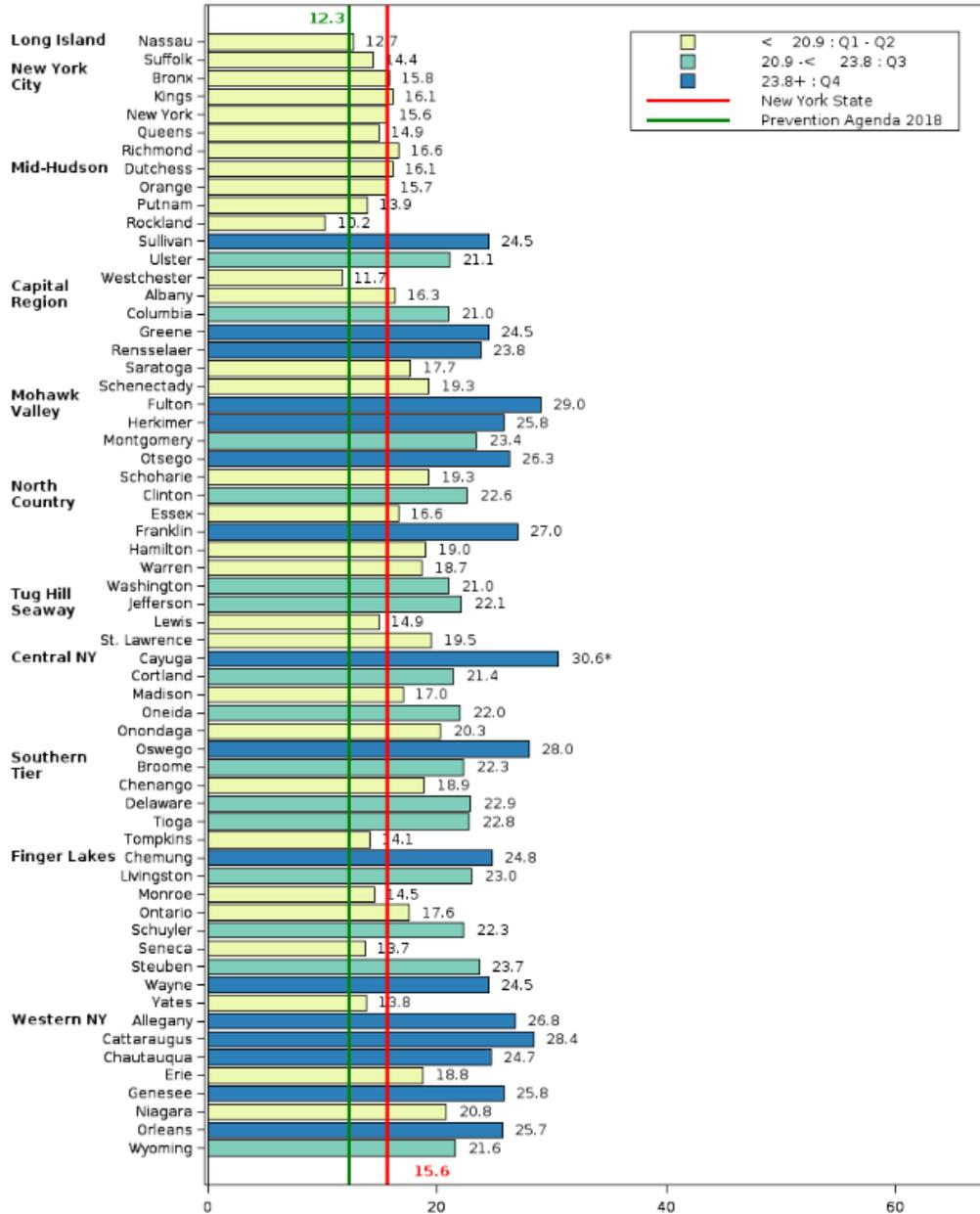
Data Sources:

1. *Food Insecure: Map the Meal Gap 2017 Report, data year 2015*
2. *Poverty under 18 years: American Community Survey, data year 2015*

Health behaviors

- Tobacco use*
- Diet and exercise*
- Alcohol and drug use
- Sexual activity

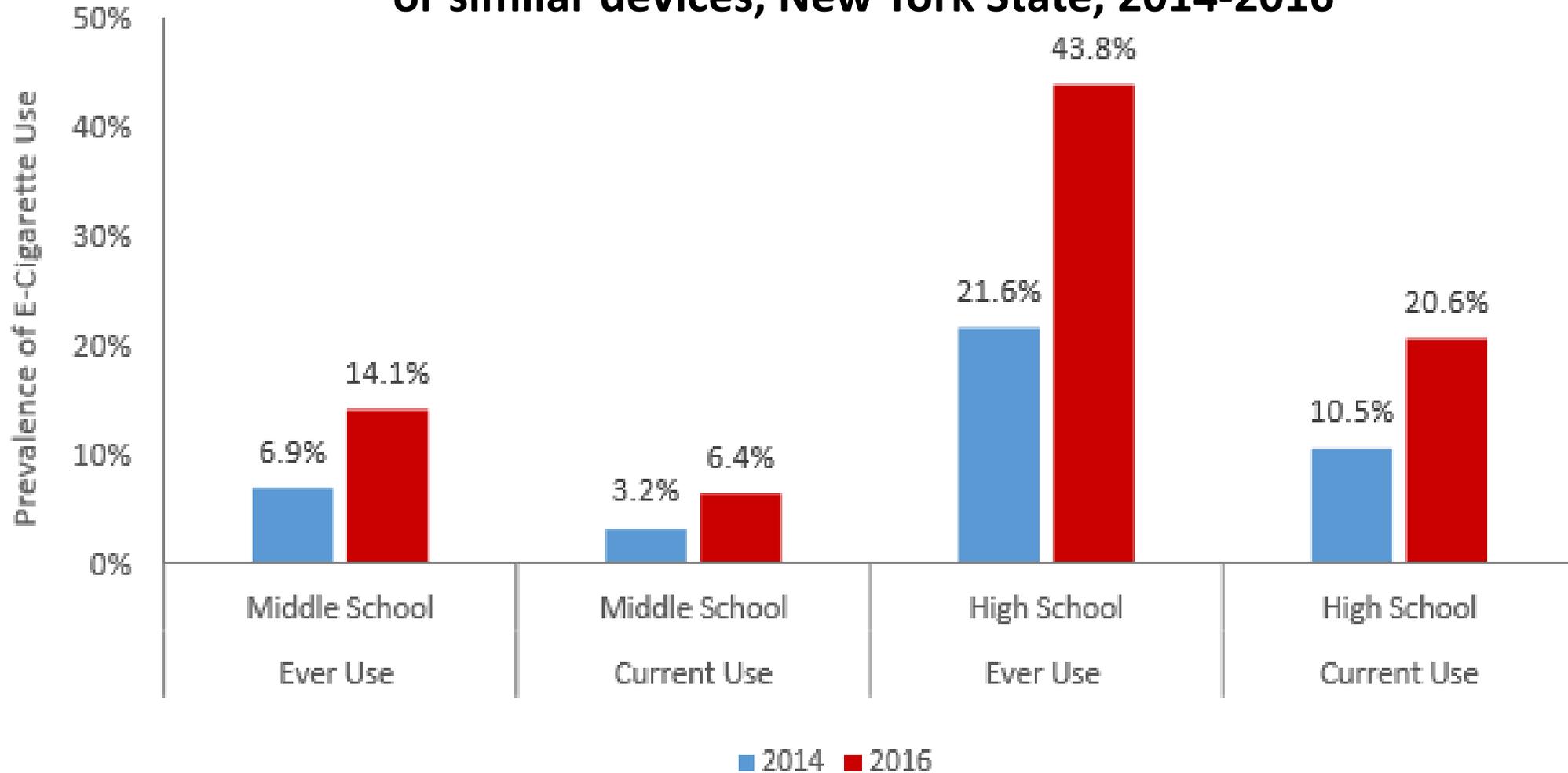
Percentage of adults (18 years+) who smoke cigarettes by county, 2013-2014



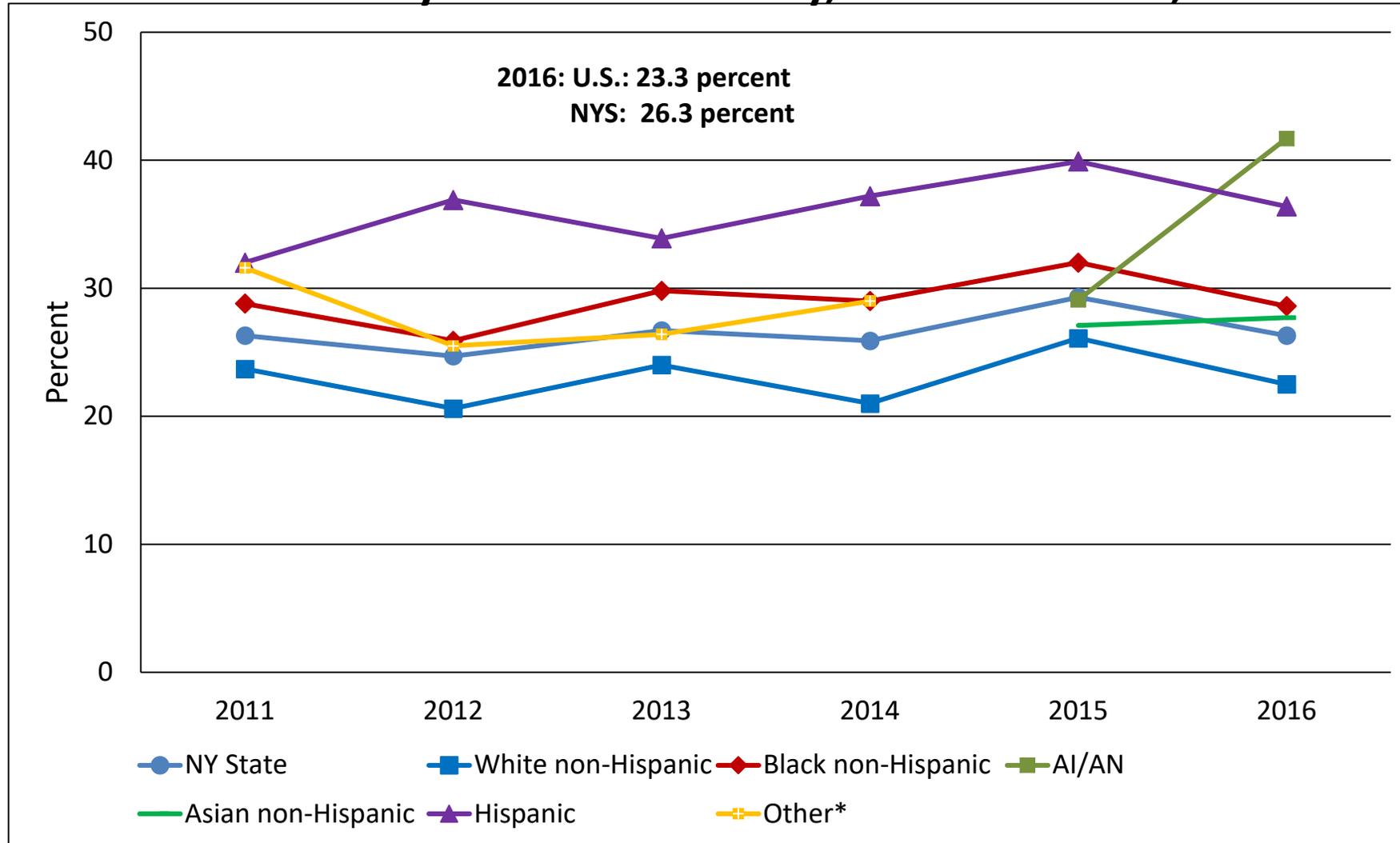
Data Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System (NYS Counties outside NYC); 2012 NYC Community Health Survey (NYC counties), data as of September 2014



Percentage of middle and high schoolers who currently use, or have ever used e-cigarettes or similar devices, New York State, 2014-2016

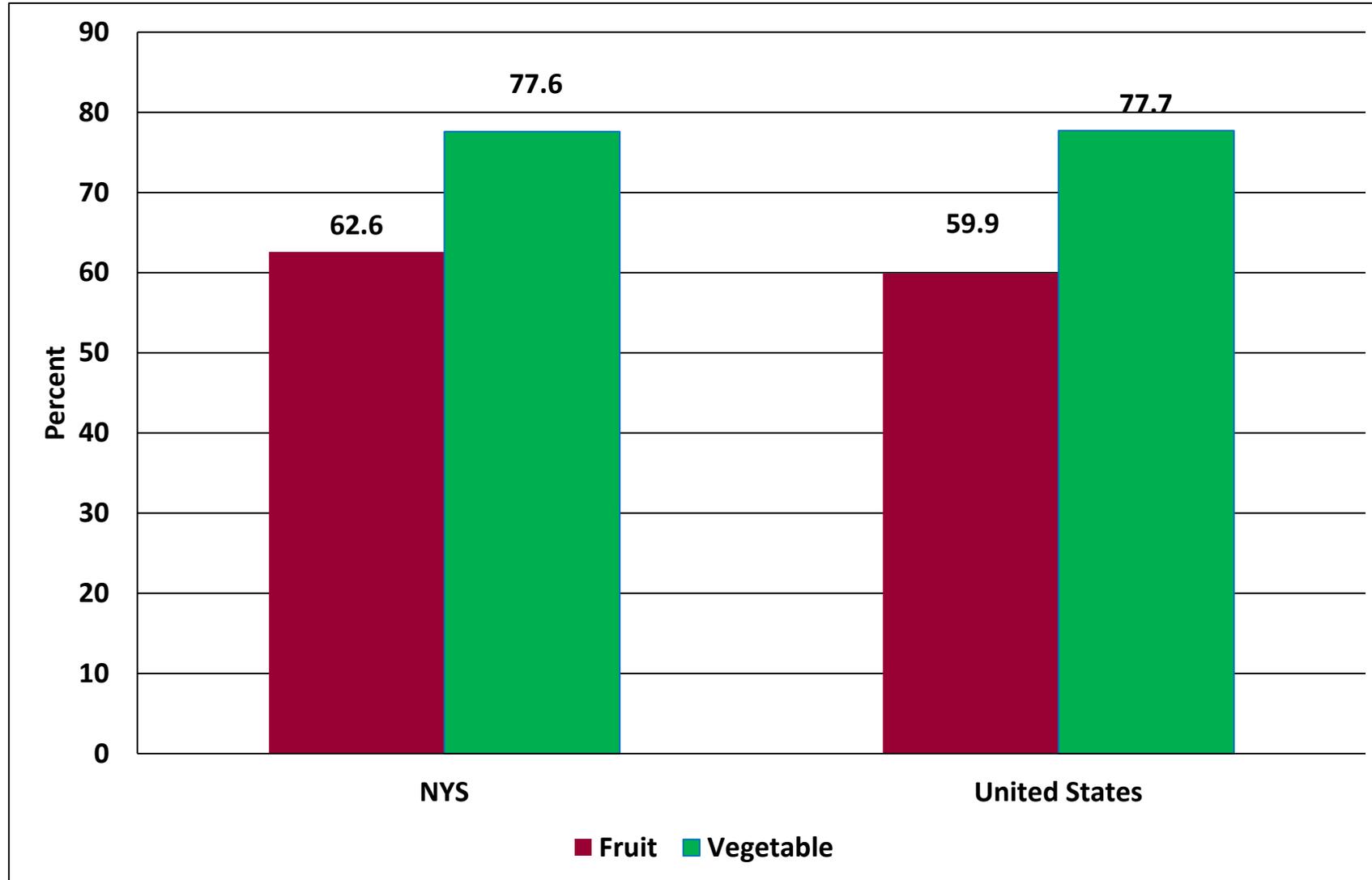


Percentage of adults (18 years+) reporting no physical activity* in the last month by race and ethnicity, New York State, 2011-2016



Abbreviations: AI/AN - American Indian Alaska Native
 *Until 2015 Other contained Asian, AI/AN and all other race/ethnic groups.
 Data Source: Behavioral Risk Factor Surveillance System

Percentage of adults (18 years+) consuming fruits and vegetables daily, New York State and U.S., 2015



Data Source: Behavioral Risk Factor Surveillance System

Physical environment

- Air quality
- Water quality*
- Housing*
- Transit

Water quality

Across the state we have significant challenges. These include:

Emerging contaminants in drinking water

- Each year, new chemicals are introduced to the market with limited to no information on toxicity
- The changing climate influences water quality (e.g., harmful algal blooms)
- No federal chemical-specific Maximum Contaminant Levels (MCL) for emerging contaminants.
- Source water protection necessitates interagency coordination

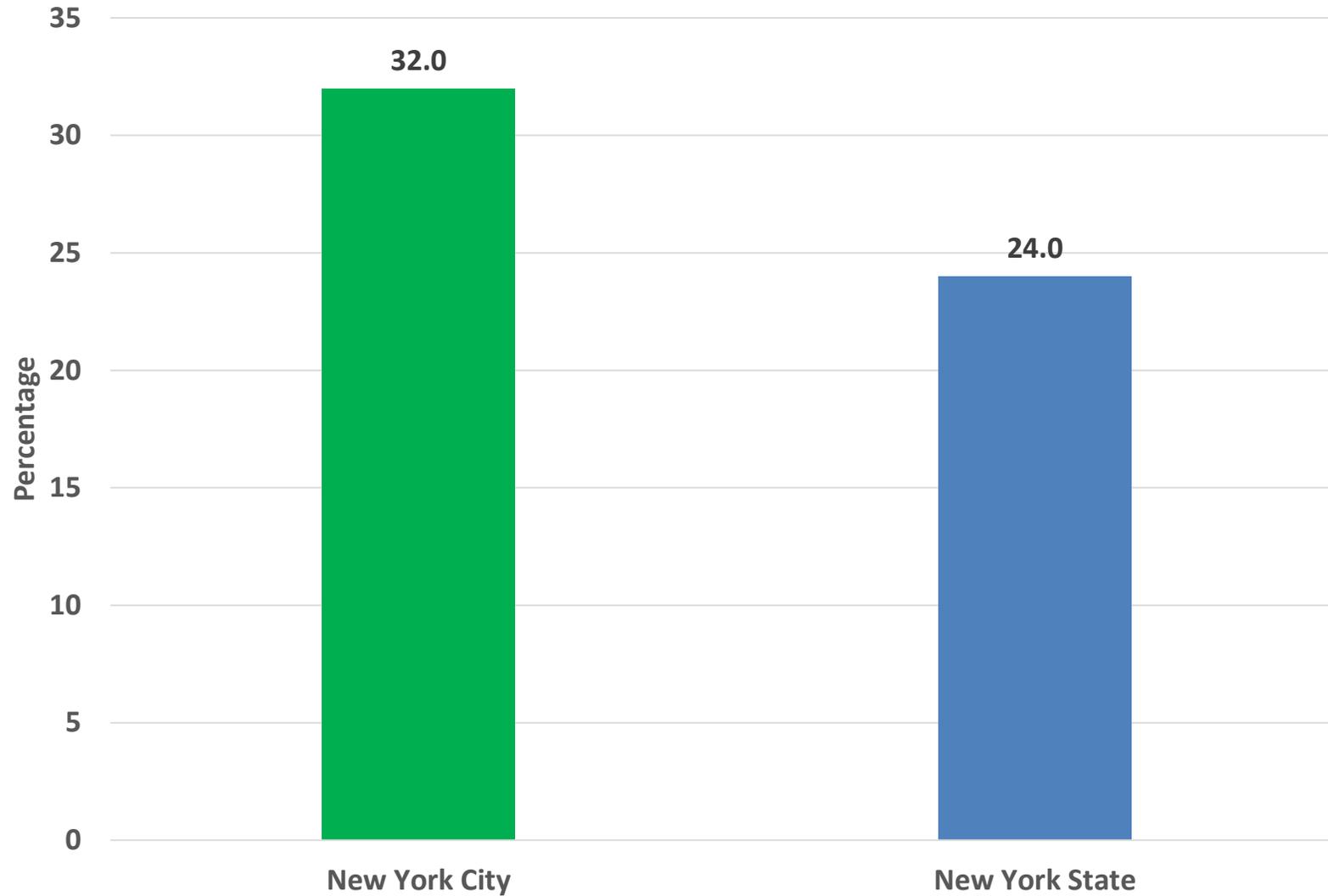
Emerging public health threat: Legionella

- Nationally, Legionnaire's cases have quadrupled in 15 years, and NYS has worked to address local outbreaks
- Cooling Towers and Health Care Facilities (10 NYCRR Part 4) have new monitoring regulations
- Seek to improve awareness and compliance at local level, while enhancing coordination of legionnaires case investigations

Drinking water infrastructure

- Aging and failing infrastructure
- Potential impact to water quality, quantity, and public health
- Funding limitations (multi-billion dollar need)

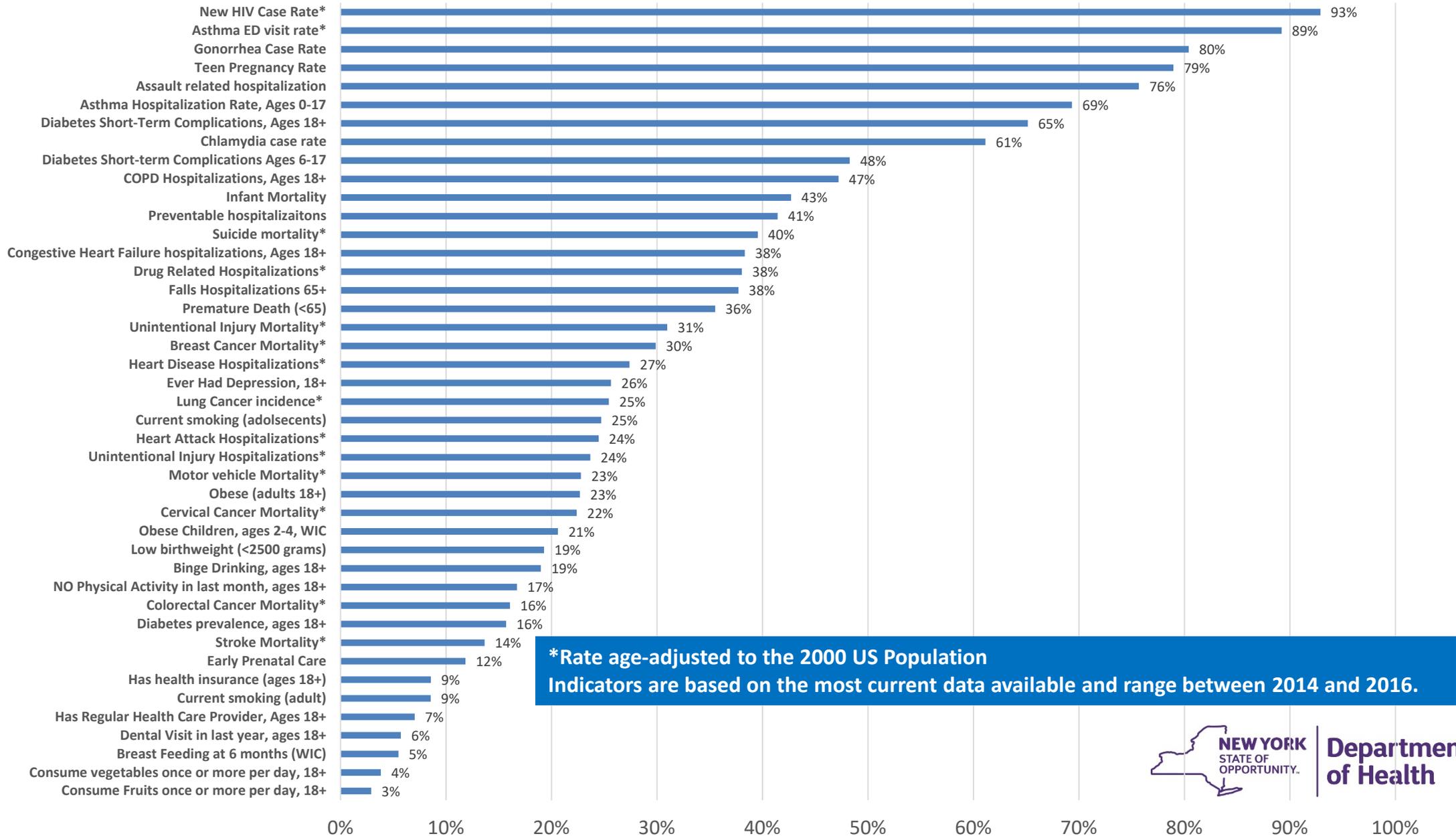
Percentage of housing with severe deficiencies, New York City and New York State, 2017



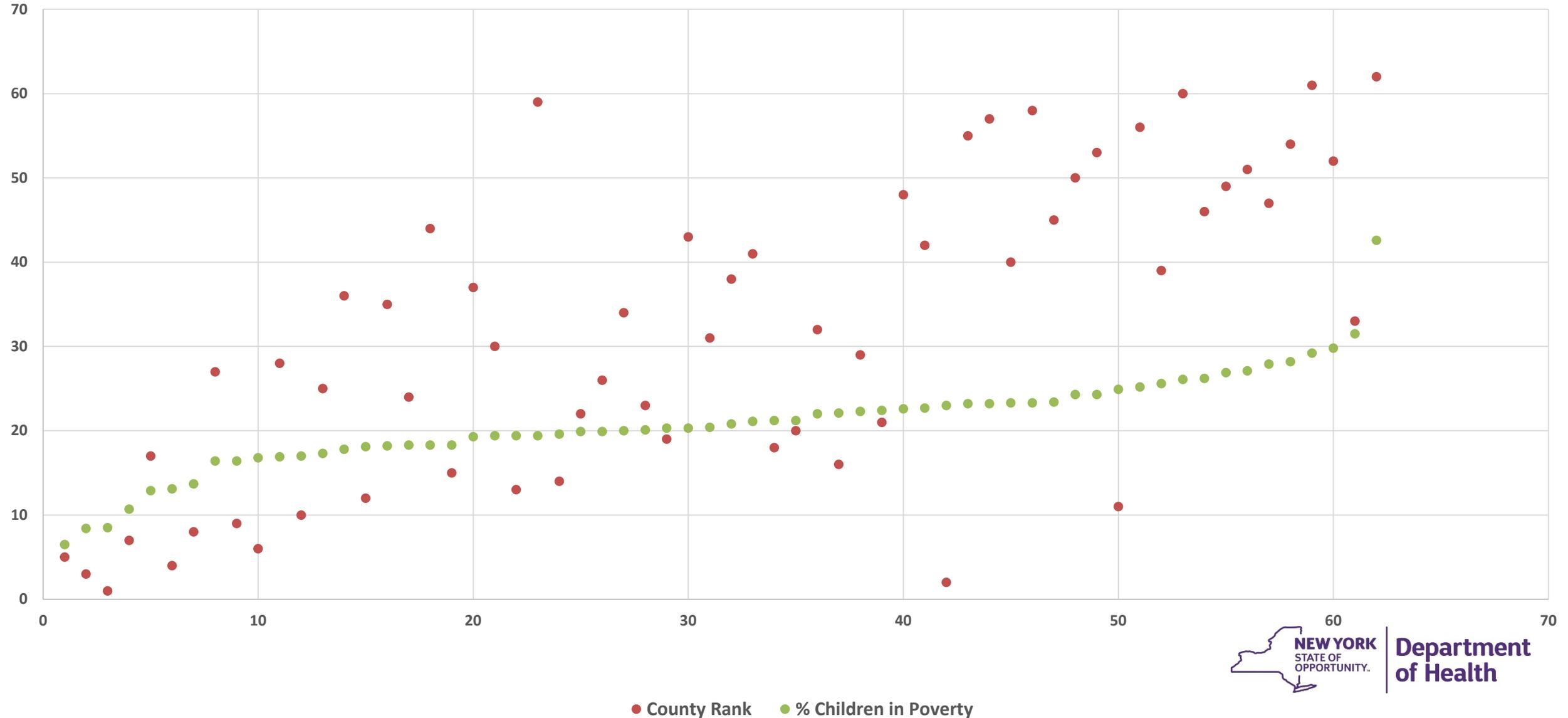
Data Source: County Health Ranking Report 2017, data years 2009-2013

Health disparities and general health status

Index of disparity for public health priority areas, New York State



County Health Rankings 2017– Health outcome rankings and childhood poverty (correlation: 0.70)



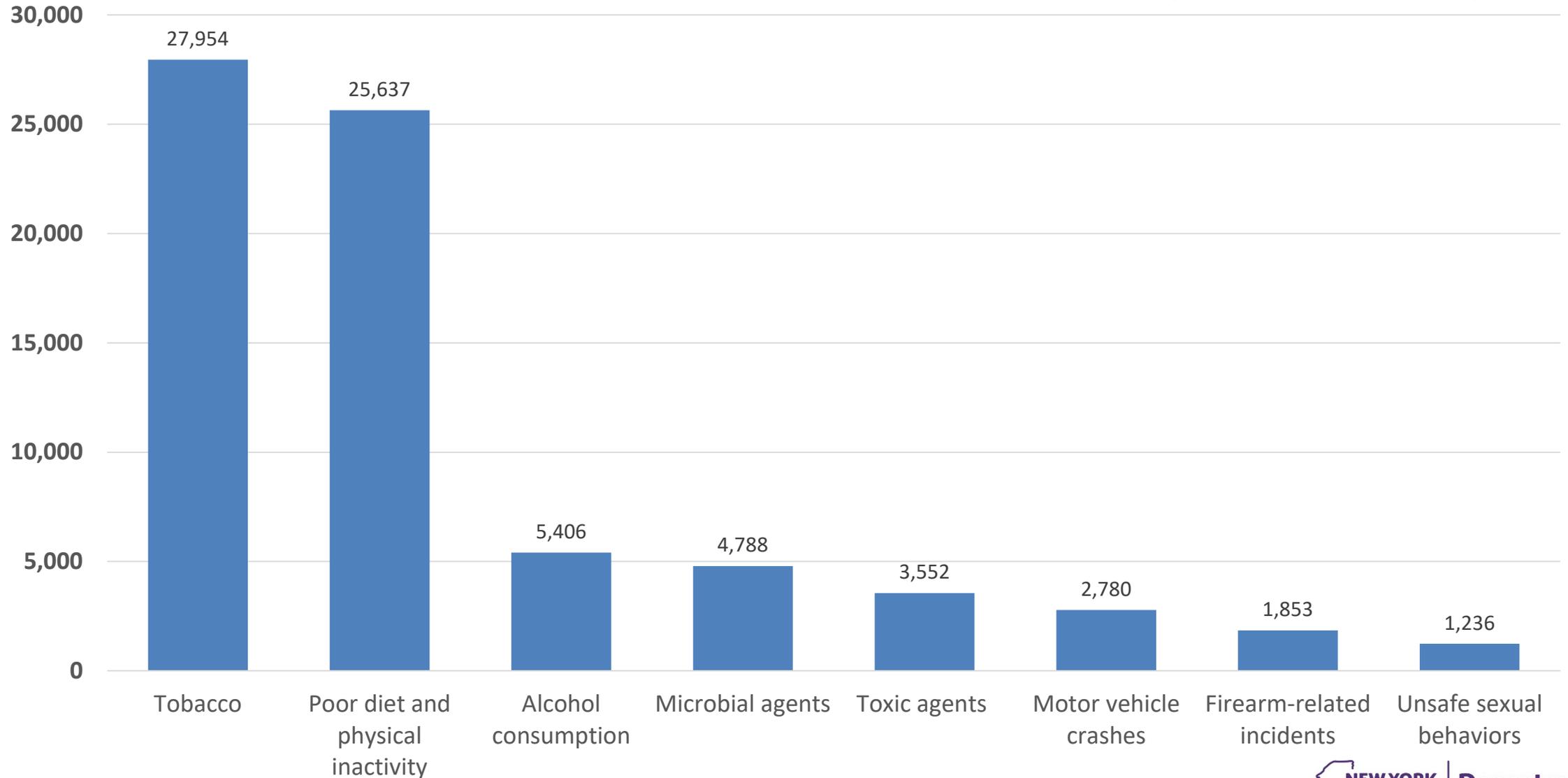
Life expectancy and leading causes of death

Leading causes of death, New York State, 2009-2015

	Total Deaths	#1 Cause of Death	#2 Cause of Death	#3 Cause of Death	#4 Cause of Death	#5 Cause of Death
2015	Total Deaths 154,438 647.8 per 100,000	Heart Disease 44,311 181.1 per 100,000	Cancer 34,935 147.7 per 100,000	CLRD 7,060 29.7 per 100,000	Unintentional Injury 6,452 29.9 per 100,000	Stroke 6,249 25.9 per 100,000
2014	Total Deaths 149,086 632.9 per 100,000	Heart Disease 42,836 177.2 per 100,000	Cancer 35,084 150.5 per 100,000	CLRD 6,738 28.8 per 100,000	Stroke 6,132 25.8 per 100,000	Unintentional Injury 5,820 27.1 per 100,000
2013	Total Deaths 147,445 634.2 per 100,000	Heart Disease 43,119 180.9 per 100,000	Cancer 35,078 152.9 per 100,000	CLRD 6,977 30.1 per 100,000	Stroke 5,961 25.3 per 100,000	Unintentional Injury 5,553 26 per 100,000
2012	Total Deaths 147,390 644.9 per 100,000	Heart Disease 43,262 184.2 per 100,000	Cancer 35,600 158.2 per 100,000	CLRD 6,986 30.8 per 100,000	Stroke 6,029 26.1 per 100,000	Unintentional Injury 5,455 25.8 per 100,000
2011	Total Deaths 147,105 656.1 per 100,000	Heart Disease 43,963 191.4 per 100,000	Cancer 35,032 158.6 per 100,000	CLRD 6,902 31.2 per 100,000	Stroke 6,153 27.1 per 100,000	Unintentional Injury 5,249 25 per 100,000
2010	Total Deaths 144,913 658.6 per 100,000	Heart Disease 44,557 198 per 100,000	Cancer 35,092 161.6 per 100,000	CLRD 6,775 31.1 per 100,000	Stroke 6,120 27.5 per 100,000	Unintentional Injury 4,720 22.7 per 100,000
2009	Total Deaths 144,874 659.7 per 100,000	Heart Disease 46,312 206.6 per 100,000	Cancer 34,822 160.5 per 100,000	CLRD 6,661 30.7 per 100,000	Stroke 5,823 26.2 per 100,000	Pneumonia and Influenza 4,384 19.6 per 100,000

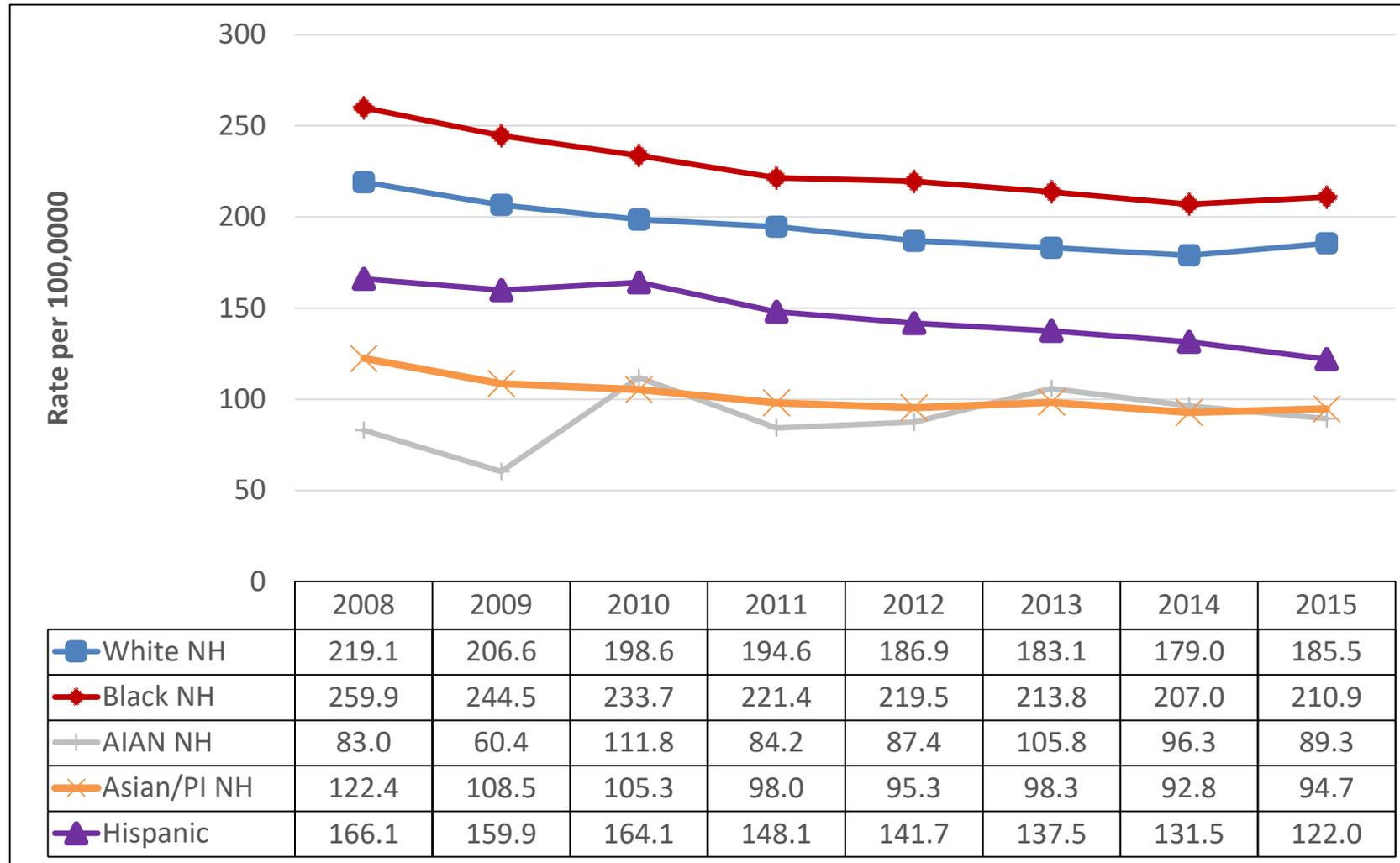
Data Source: NYS Vital Statistics

Estimated number of deaths due to modifiable behaviors, New York State, 2015



Note: Estimates were extrapolated using the results published in "Actual Causes of Death in the United States, 2000" JAMA, March 2004, 291 (10) and 2015 NYS Vital Records

Age-adjusted* heart disease death rates per 100,000 by race and ethnicity, New York State, 2008-2015

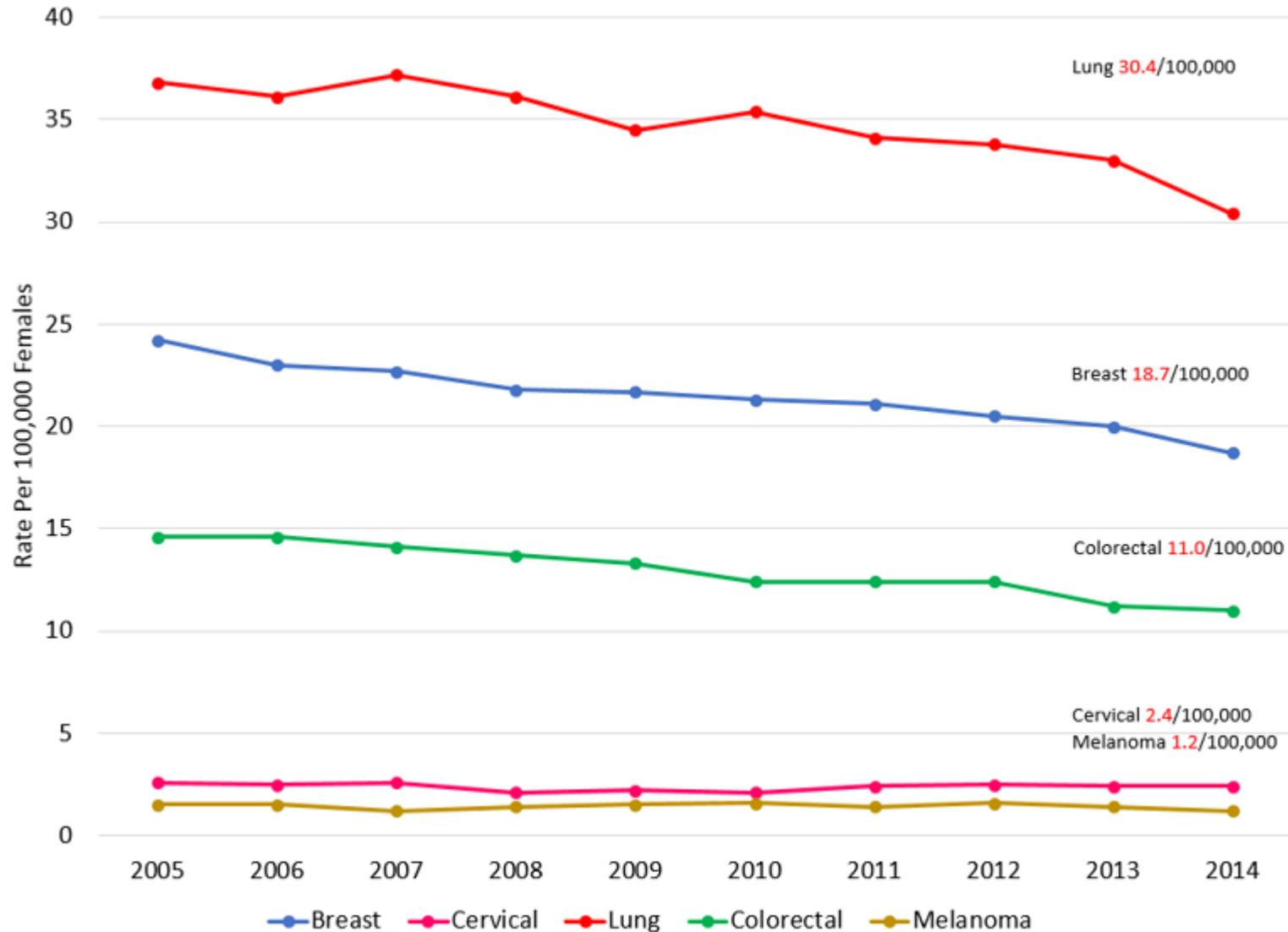


*Age-adjusted to U.S. Census 2000 Population

Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander

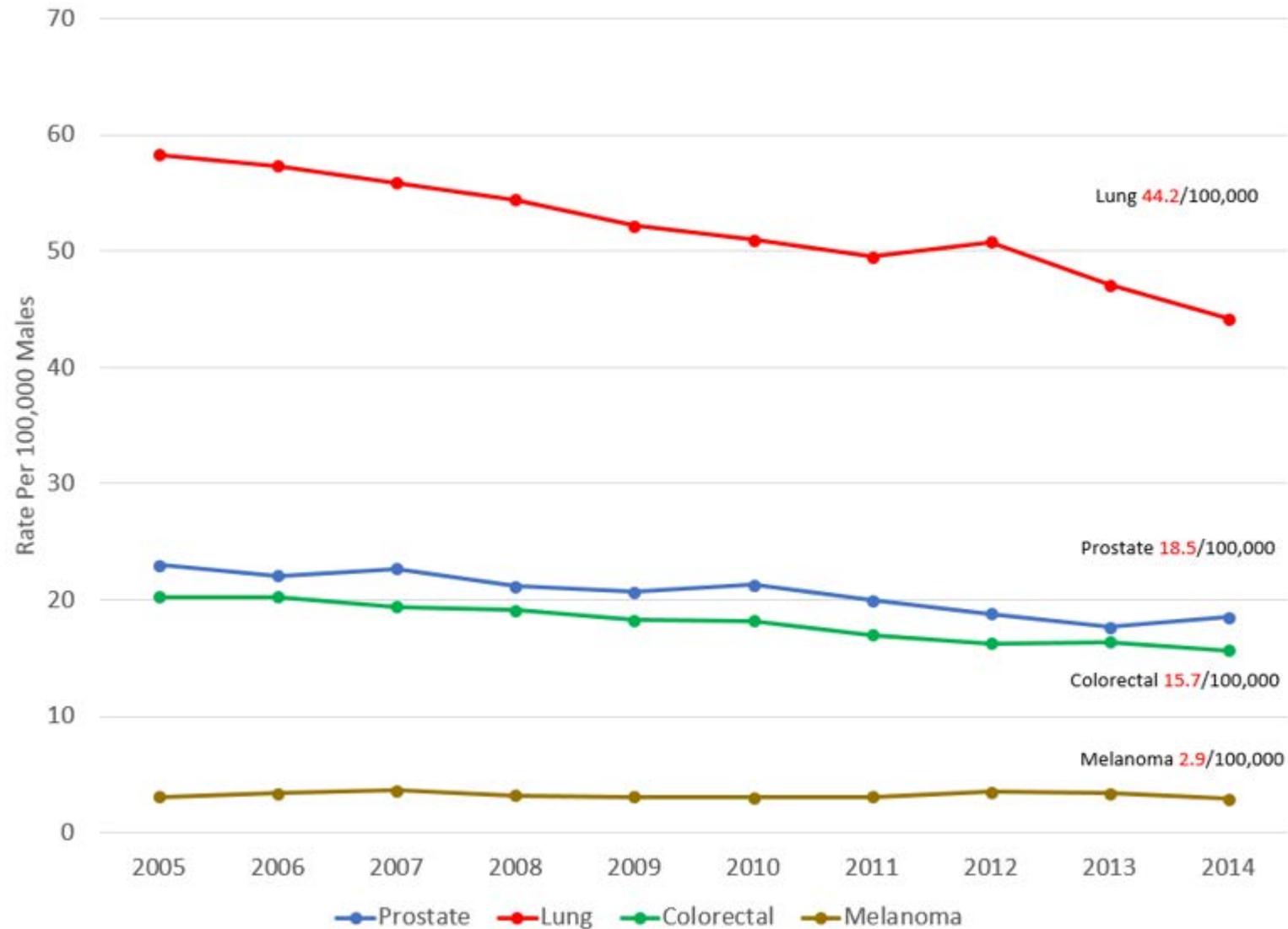
Data Source: NYS Vital Records

Cancer mortality rate per 100,000 females by year, New York State, 2005-2014



Data Source: NYS Cancer Registry

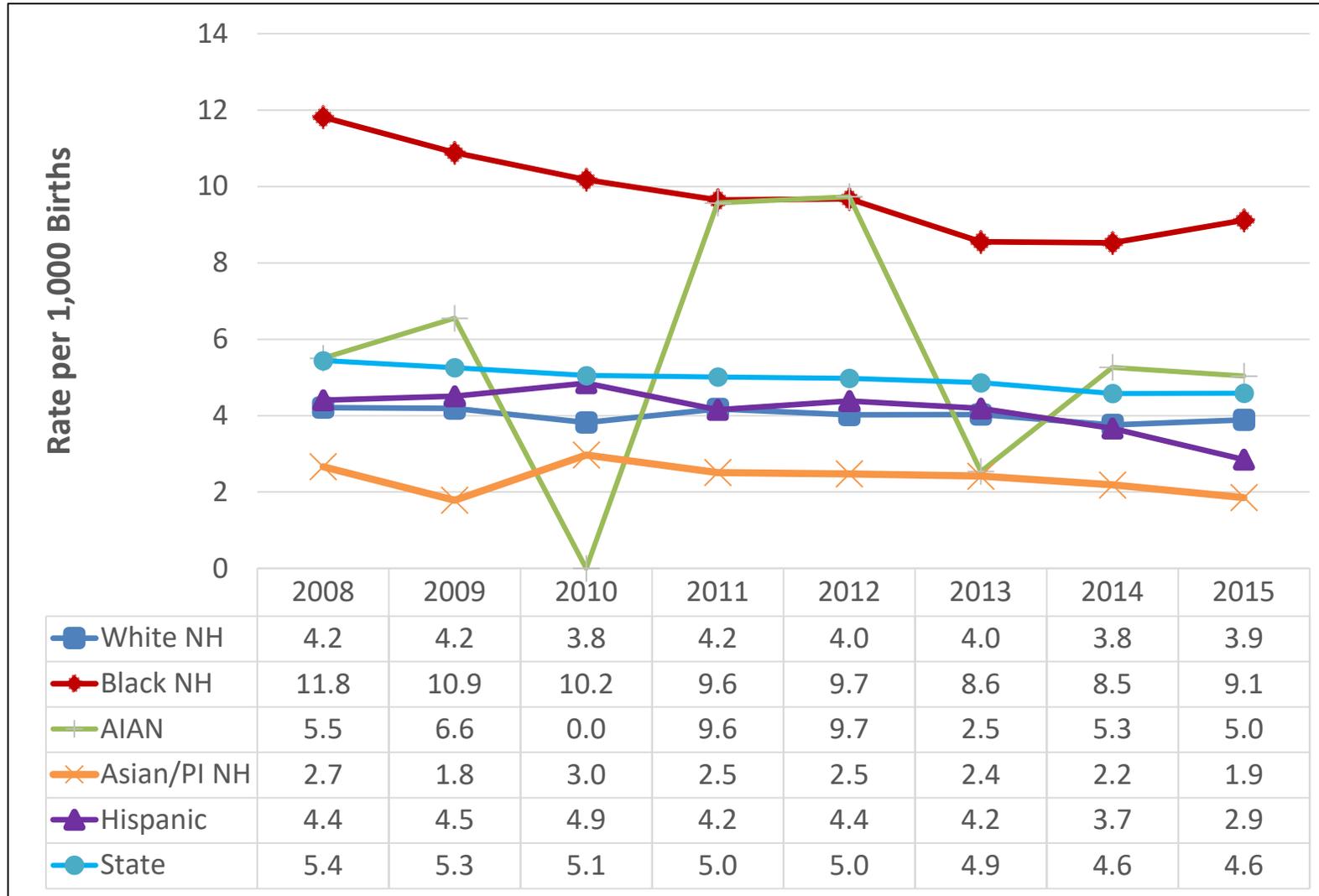
Cancer mortality rate per 100,000 males by year, New York State, 2005-2014



Data Source: NYS Cancer Registry

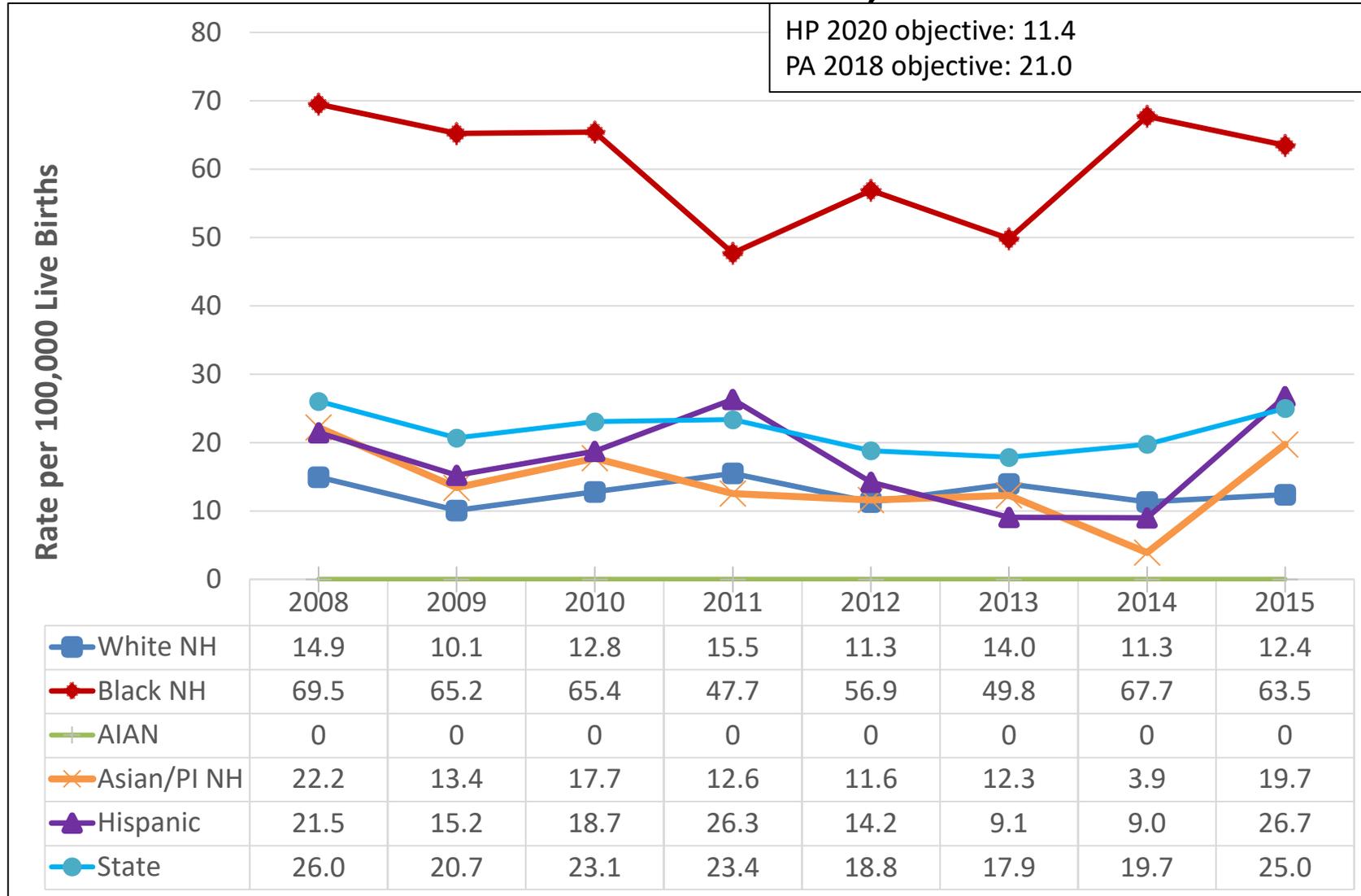
Women, infant and child health

Infant mortality rates per 1,000 live births by race and ethnicity, New York State, 2008-2015



Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander
 Data Source: NYS Vital Records

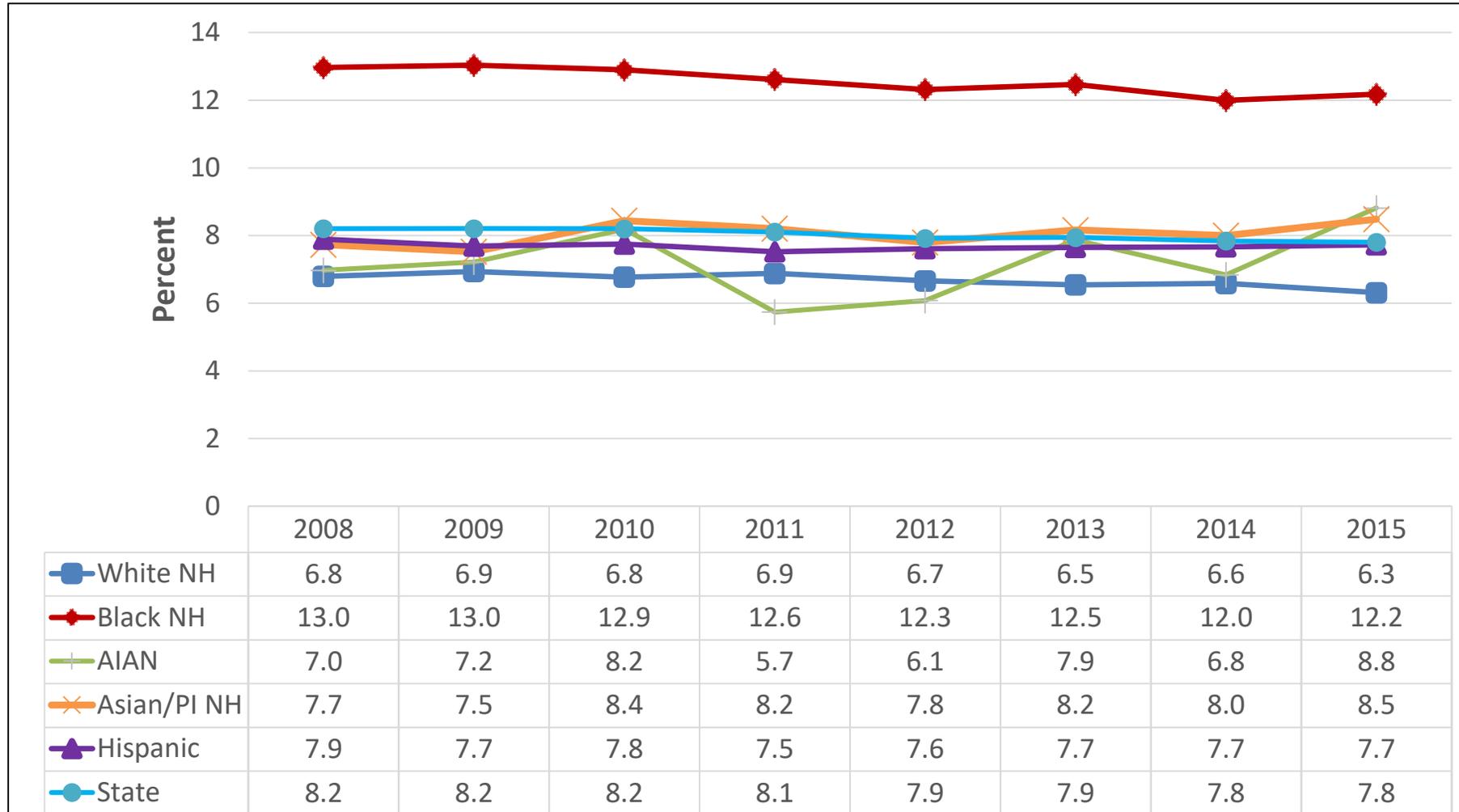
Maternal mortality rates per 100,000 live births by race and ethnicity, New York State, 2008-2015



Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander

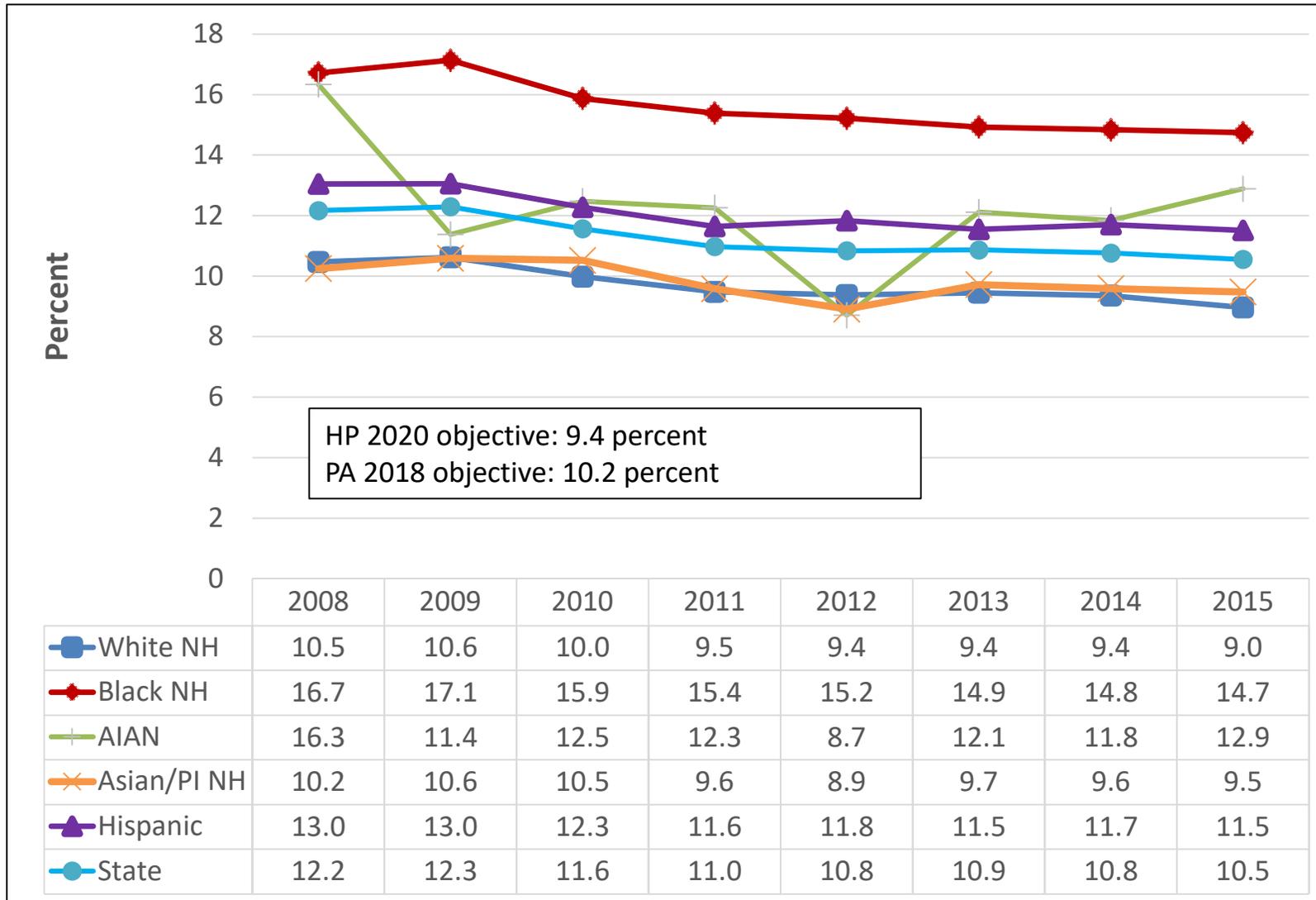
Data Source: NYS Vital Records

Percentage of births with birthweights under 2,500 grams by race and ethnicity, New York State, 2008-2015



*Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander
 Data Source: NYS Vital Records

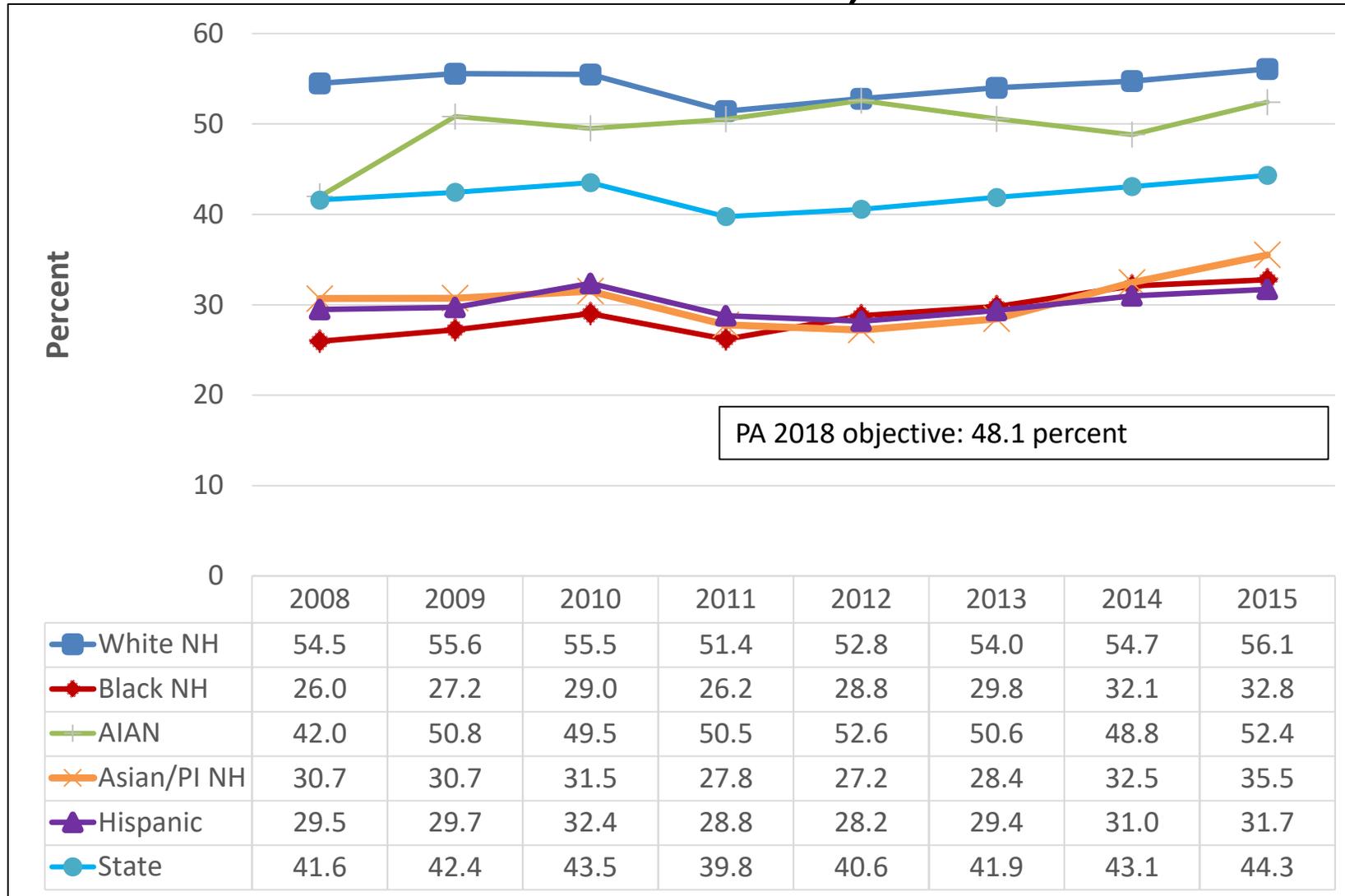
Percentage of births that were premature (<37 weeks gestation) by race and ethnicity, New York State, 2008-2015



Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander

Data Source: NYS Vital Records

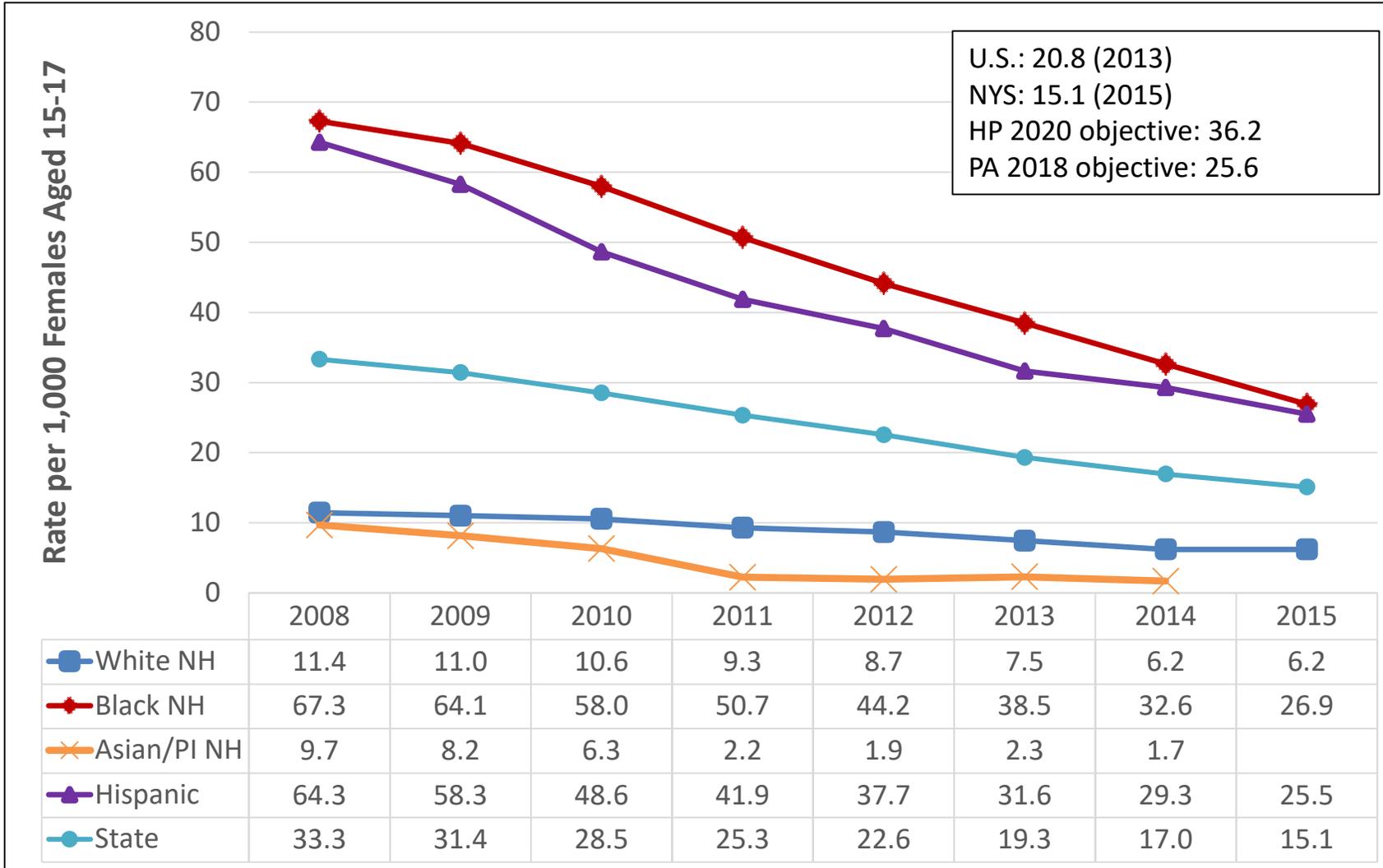
Percentage of infants exclusively fed breast milk in the delivery hospital by race ethnicity, New York State, 2008-2015



Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander

Data Source: NYS Vital Records

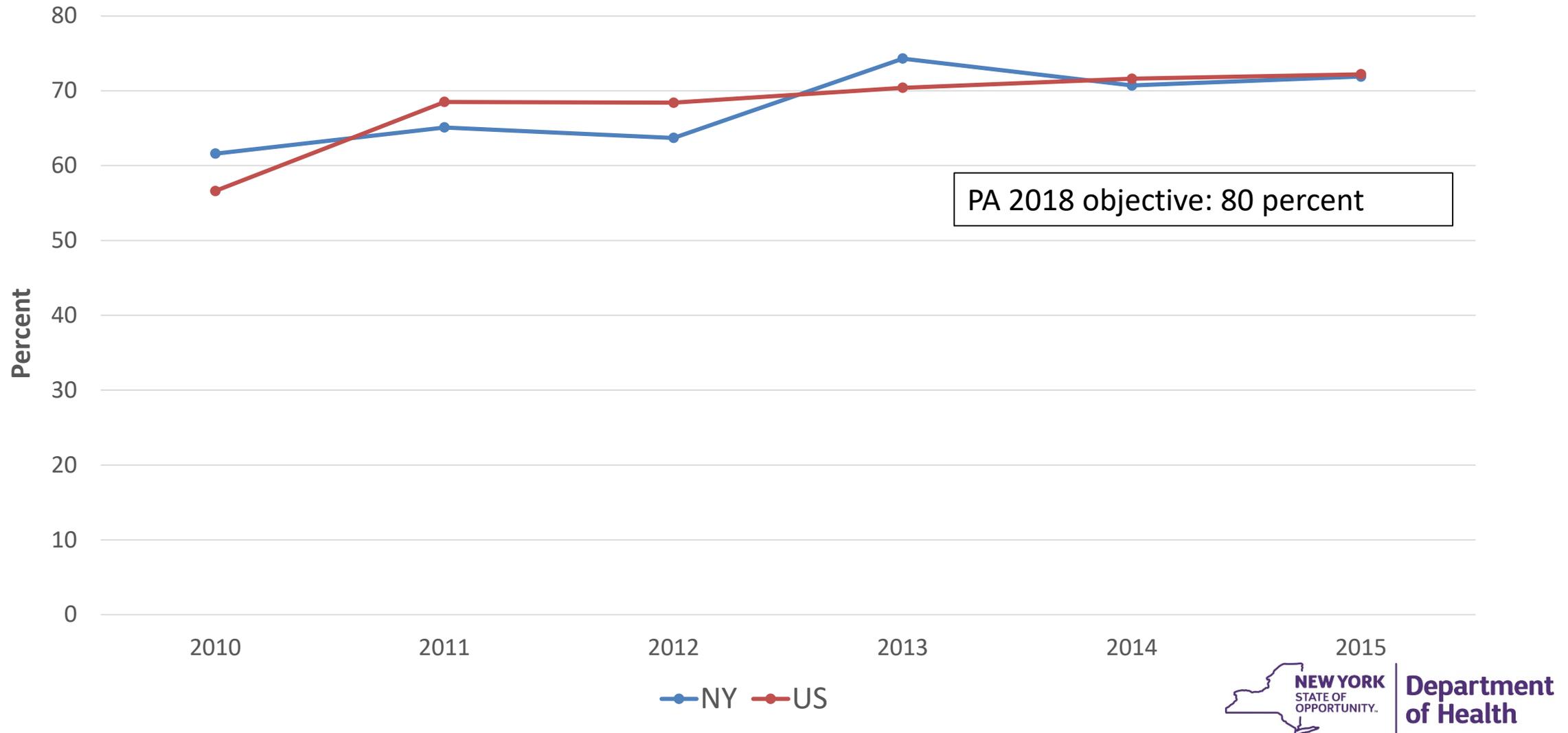
Teen pregnancy rates per 1,000 females aged 15-17 by race and ethnicity, New York State, 2008-2014



Abbreviations: NH – non-Hispanic; AIAN – American Indian/Alaska Native, PI – Pacific Islander

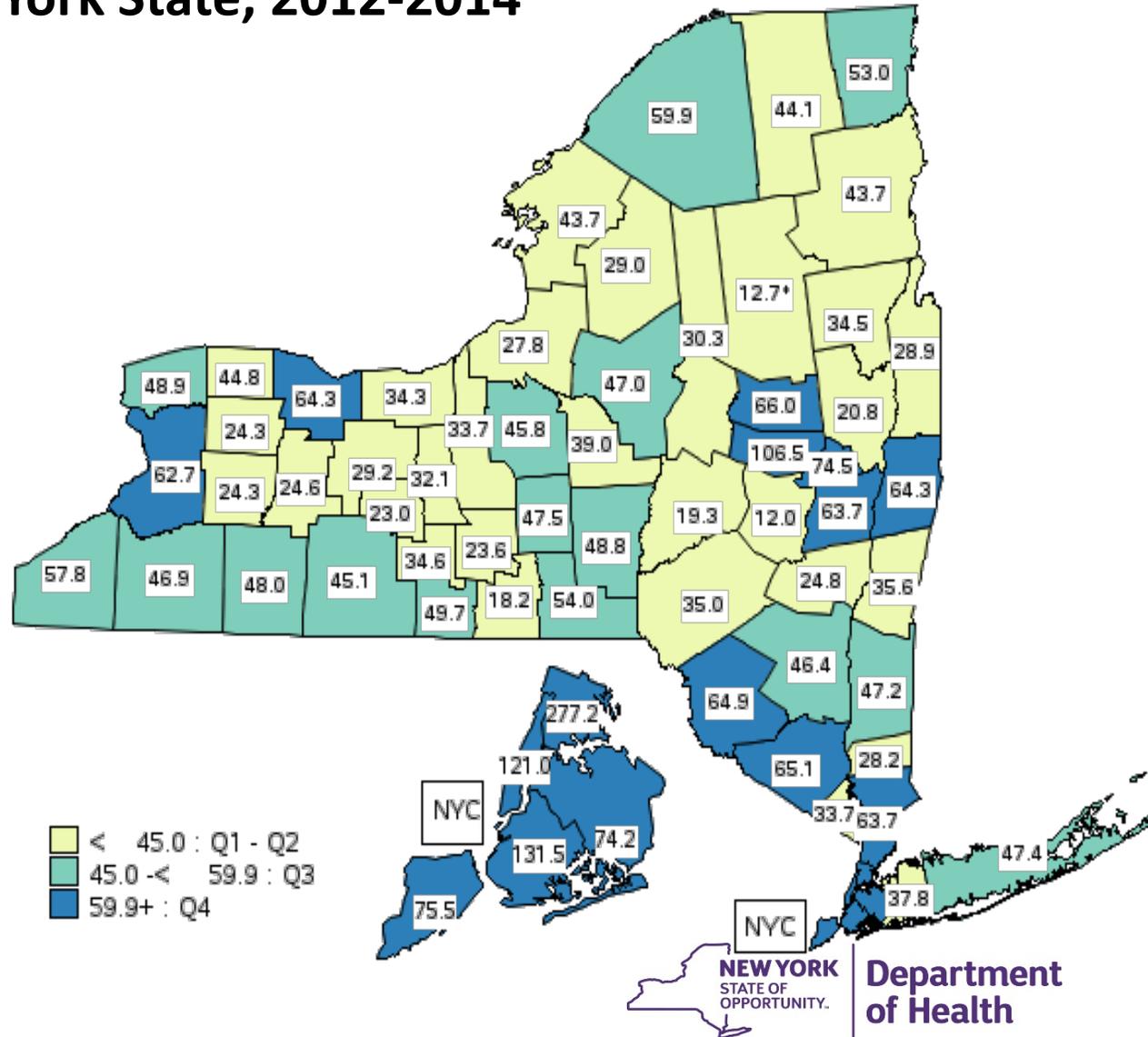
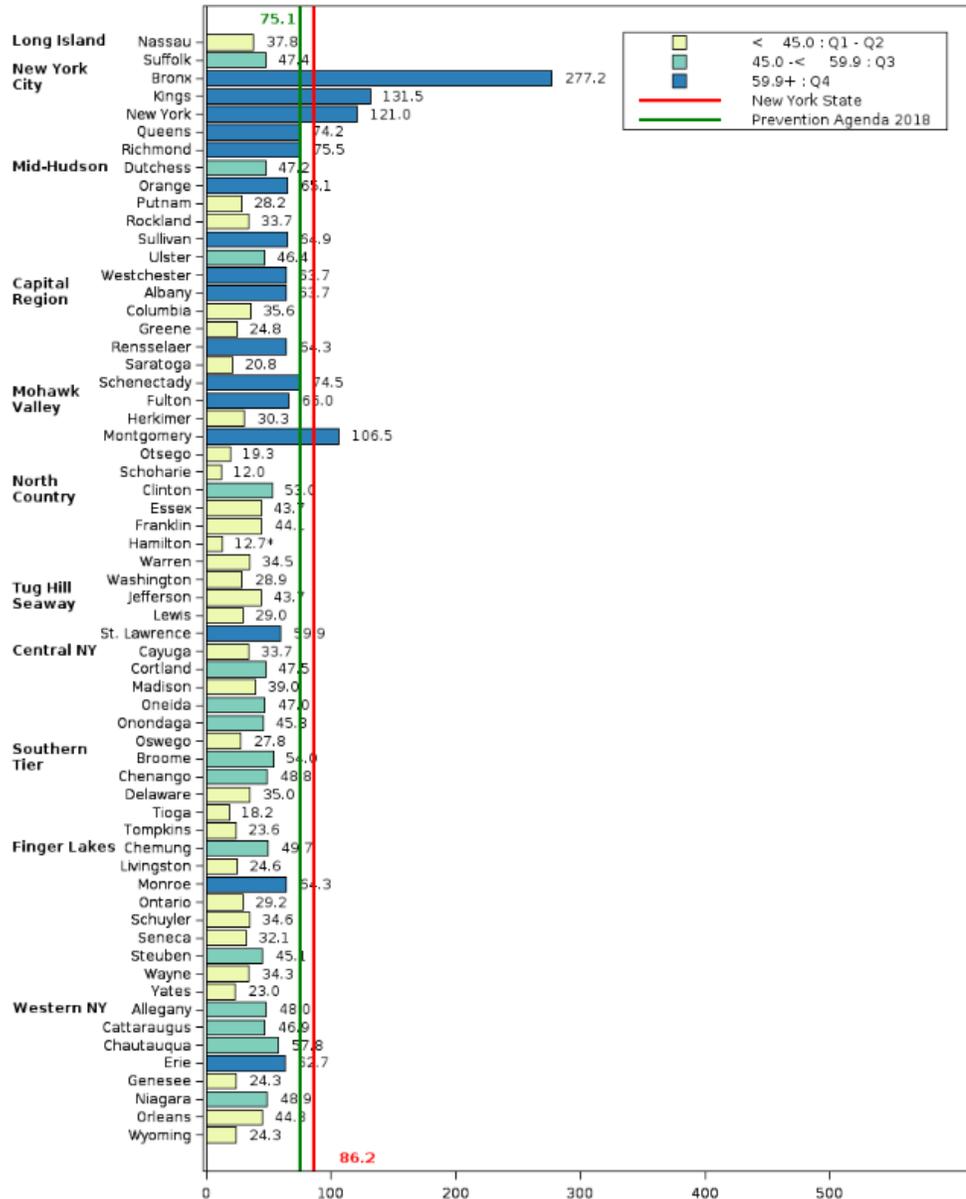
Data Source: NYS Vital Records

Children ages 19-35 months with 4:3:1:3:3:1:4 immunization series, New York State and U.S., 2010 – 2015



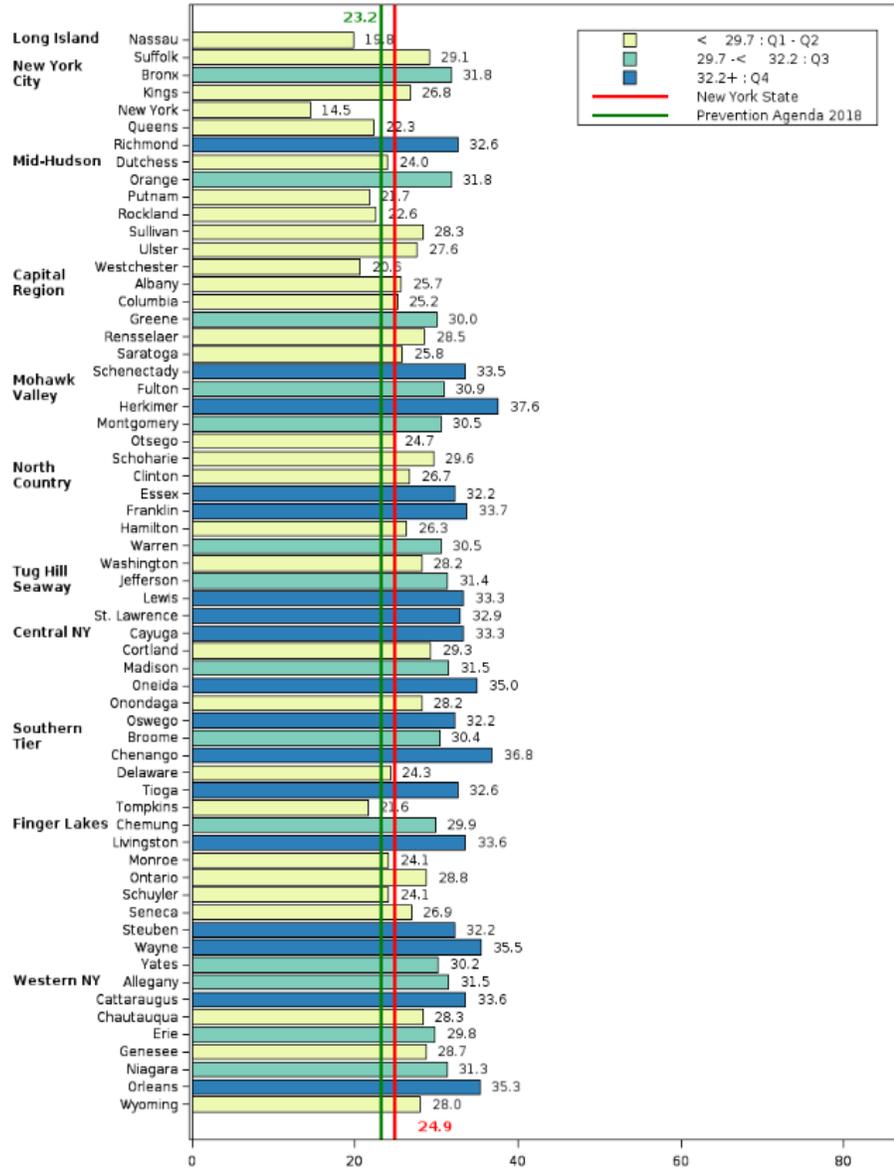
Chronic disease

Asthma hospitalization rates per 10,000 population by county, New York State, 2012-2014

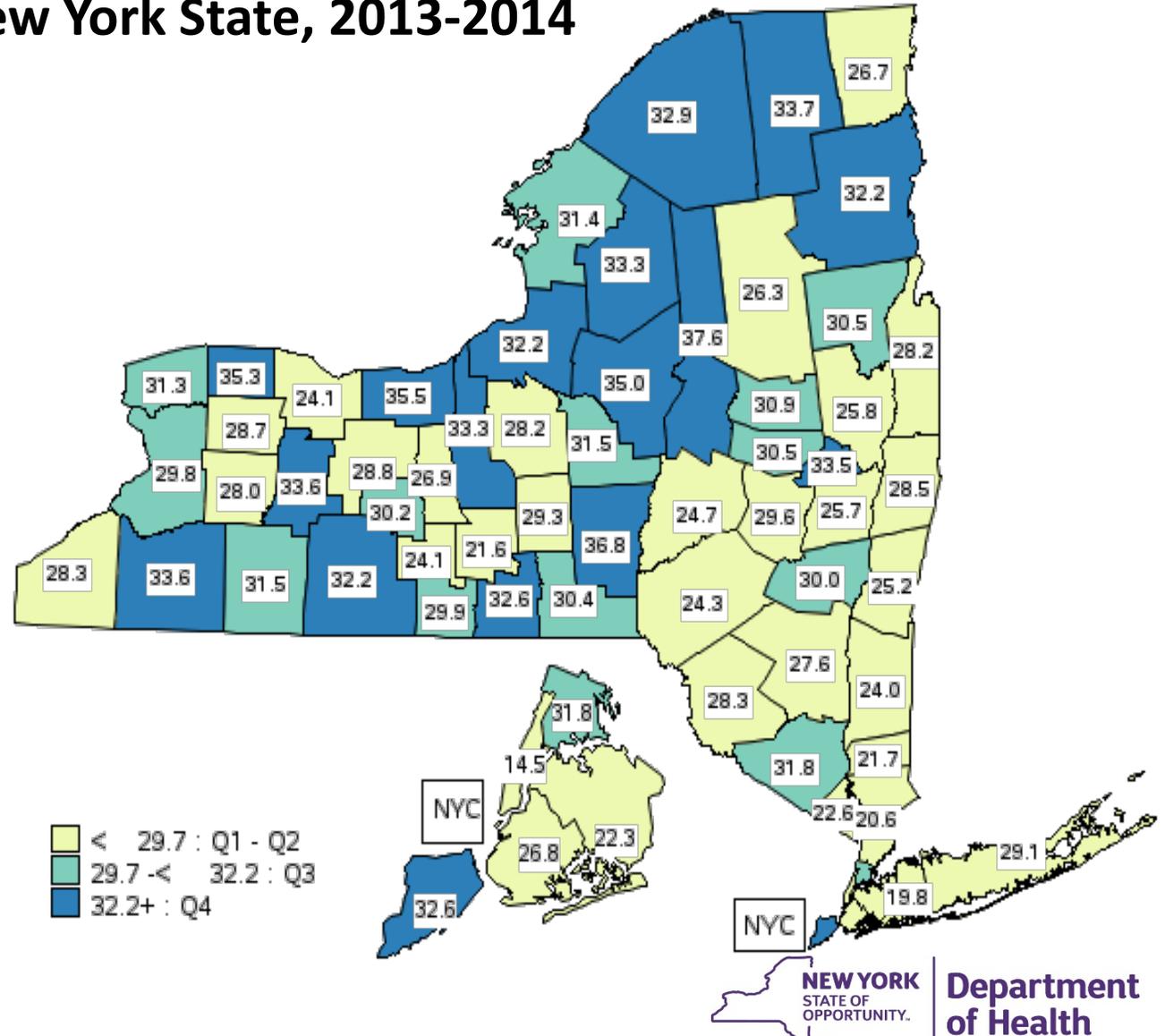


Data Source: NYS SPARCS data as of September 2016

Percentage of adults who are obese (bmi 30 or higher) by county, New York State, 2013-2014

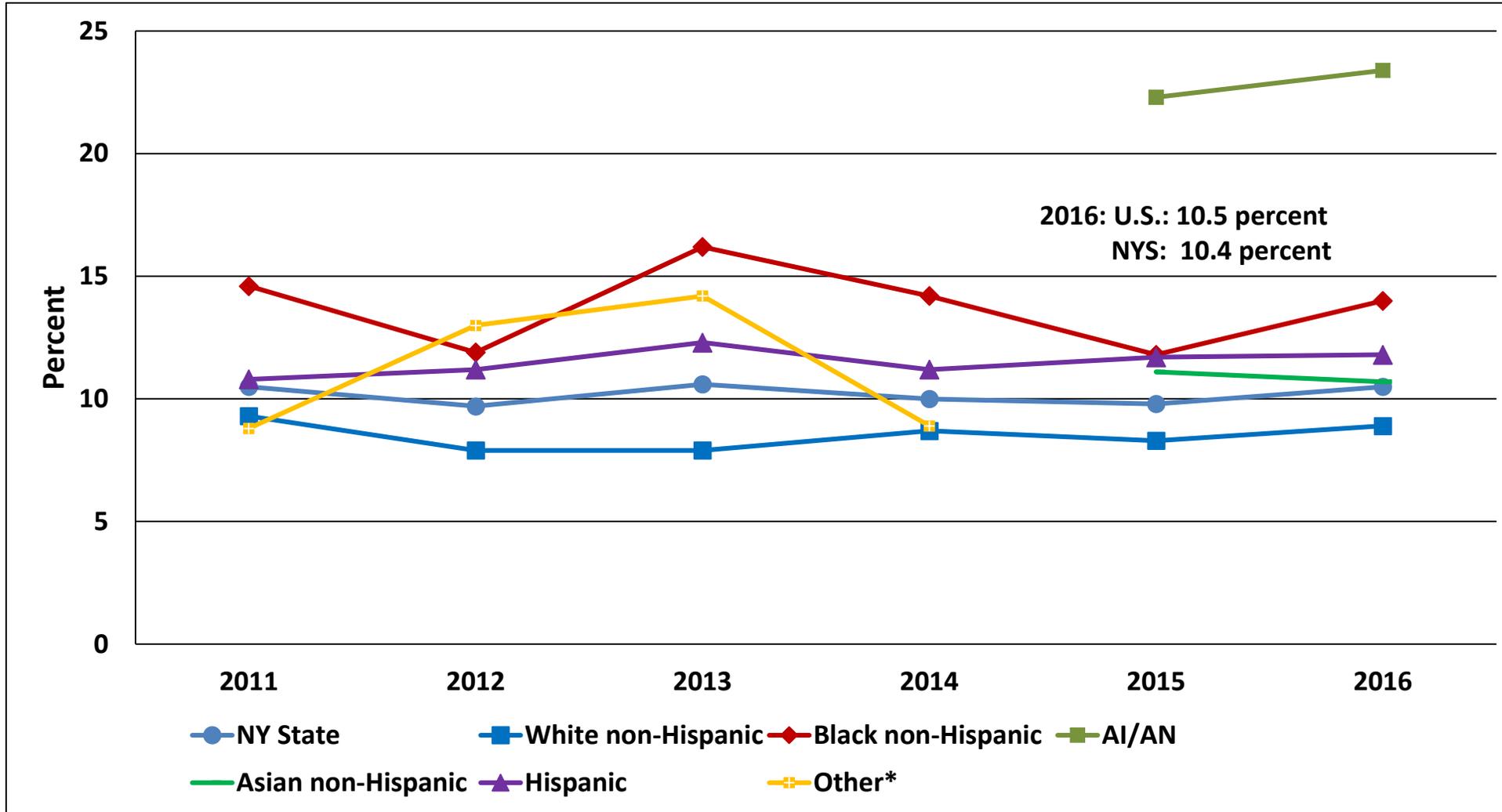


New York State, 2013-2014



Data Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System (NYS Counties outside NYC); 2012 NYC Community Health Survey (NYC counties), data as of September 2014

Percentage of adults (18 years+) ever diagnosed with diabetes by race and ethnicity, New York State, 2011-2016



It is projected by 2050 that as many as one in 3 adults will have diabetes in the U.S.

Abbreviations: AI/AN - American Indian Alaska Native
 *Until 2015 Other contained Asian, AI/AN and all other race/ethnic groups.
 Data Source: Behavioral Risk Factor Surveillance System

HIV/Sexually Transmitted Diseases

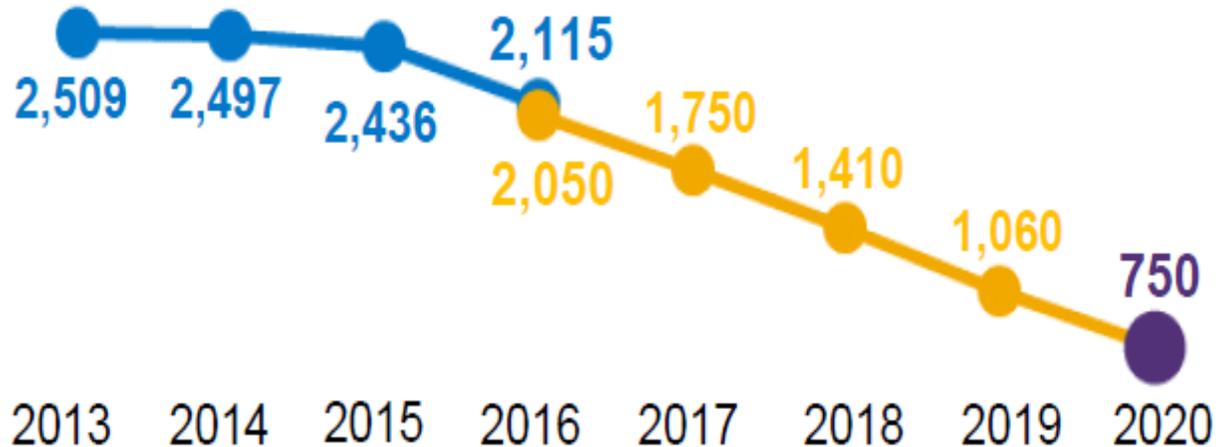
Pre-Exposure Prophylaxis (PrEP) to Prevent HIV Infection

32 PrEP programs, funded in July 2016

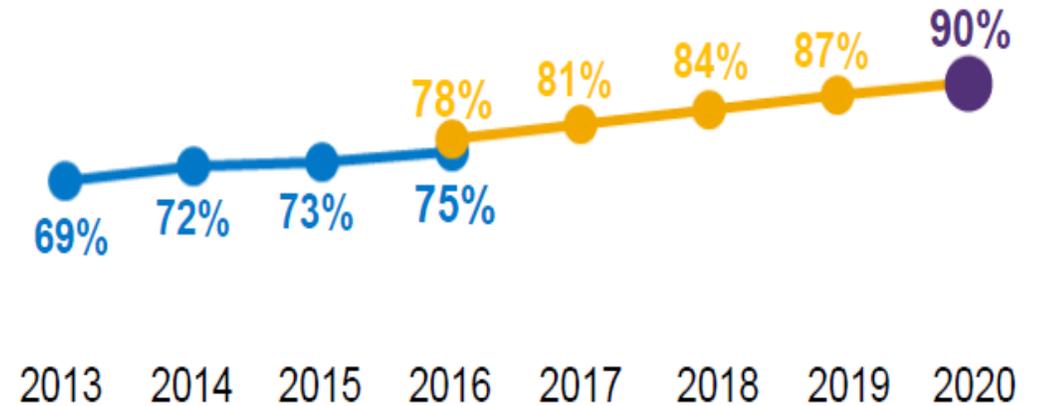
In 2017, 251% increase of patients prescribed PrEP from the previous year, with improvements in reaching communities of color and women

Goal: Continue to increase number of Medicaid recipients filling prescriptions for PrEP by 50% each year

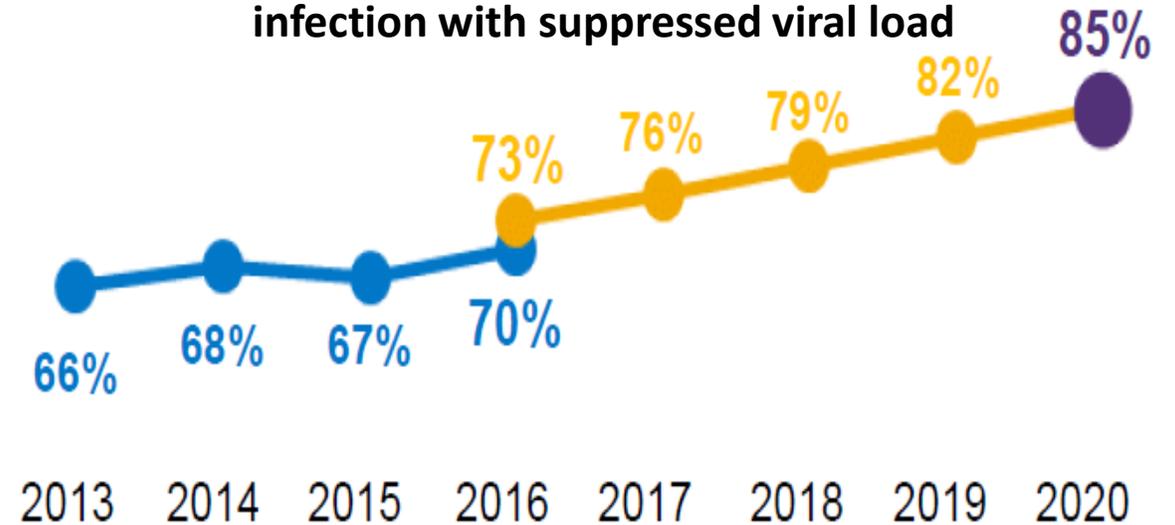
New HIV infections (incidence)



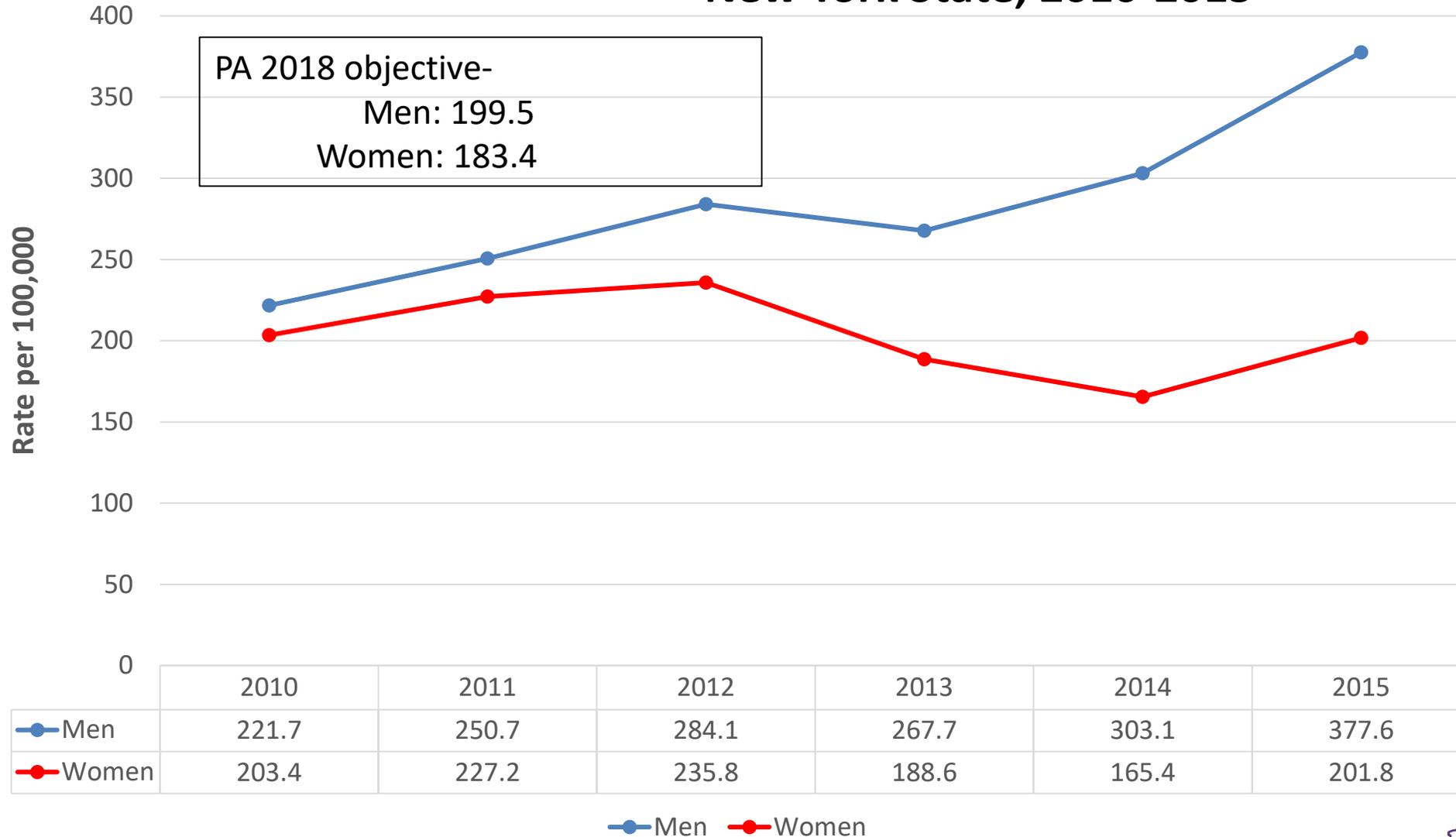
Percentage of newly diagnosed persons linked to HIV medical care within 30 days of diagnosis



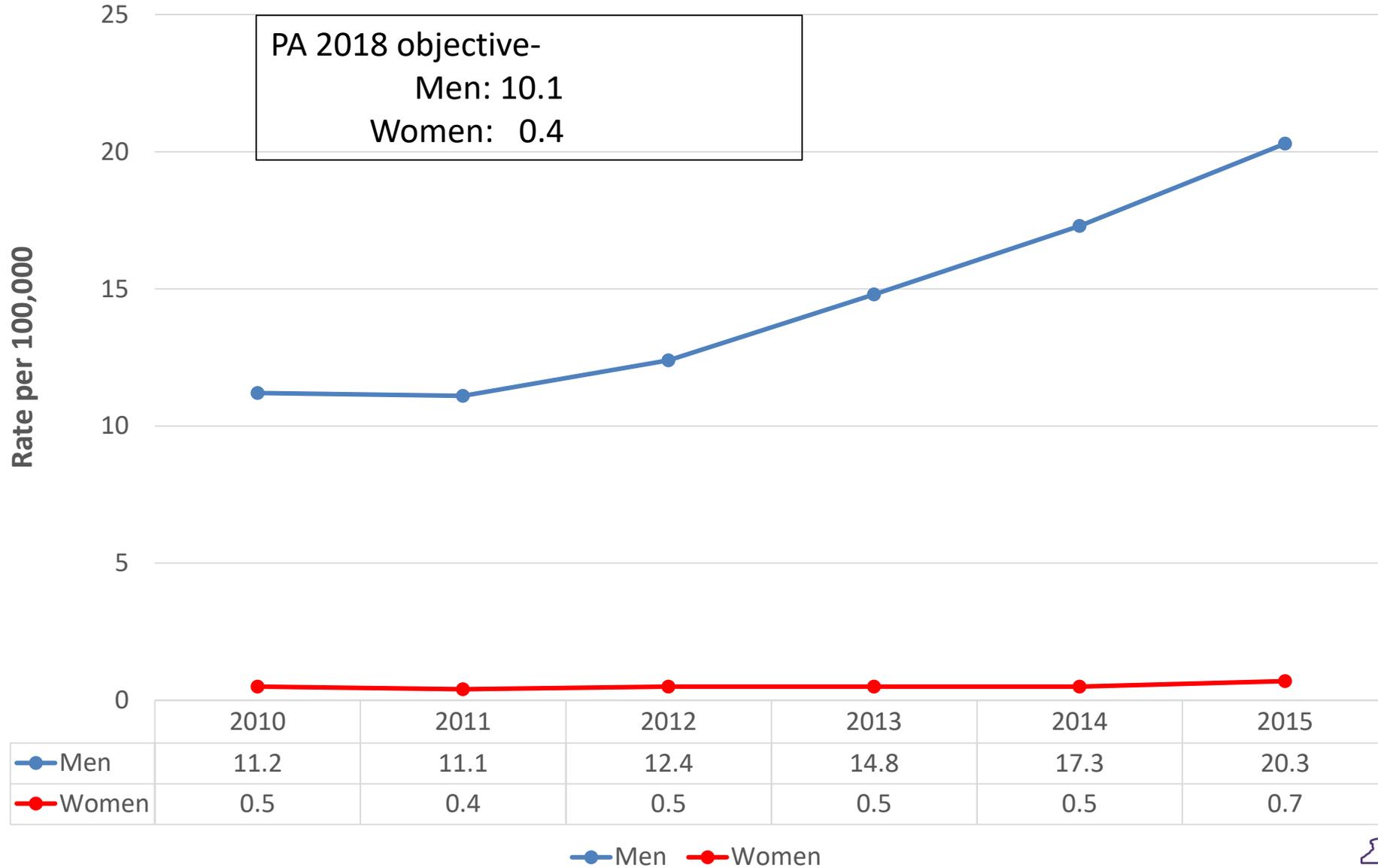
Percentage of persons living with diagnosed HIV infection with suppressed viral load



Gonorrhea case rates per 100,000 population, ages 15-44, by gender, New York State, 2010-2015



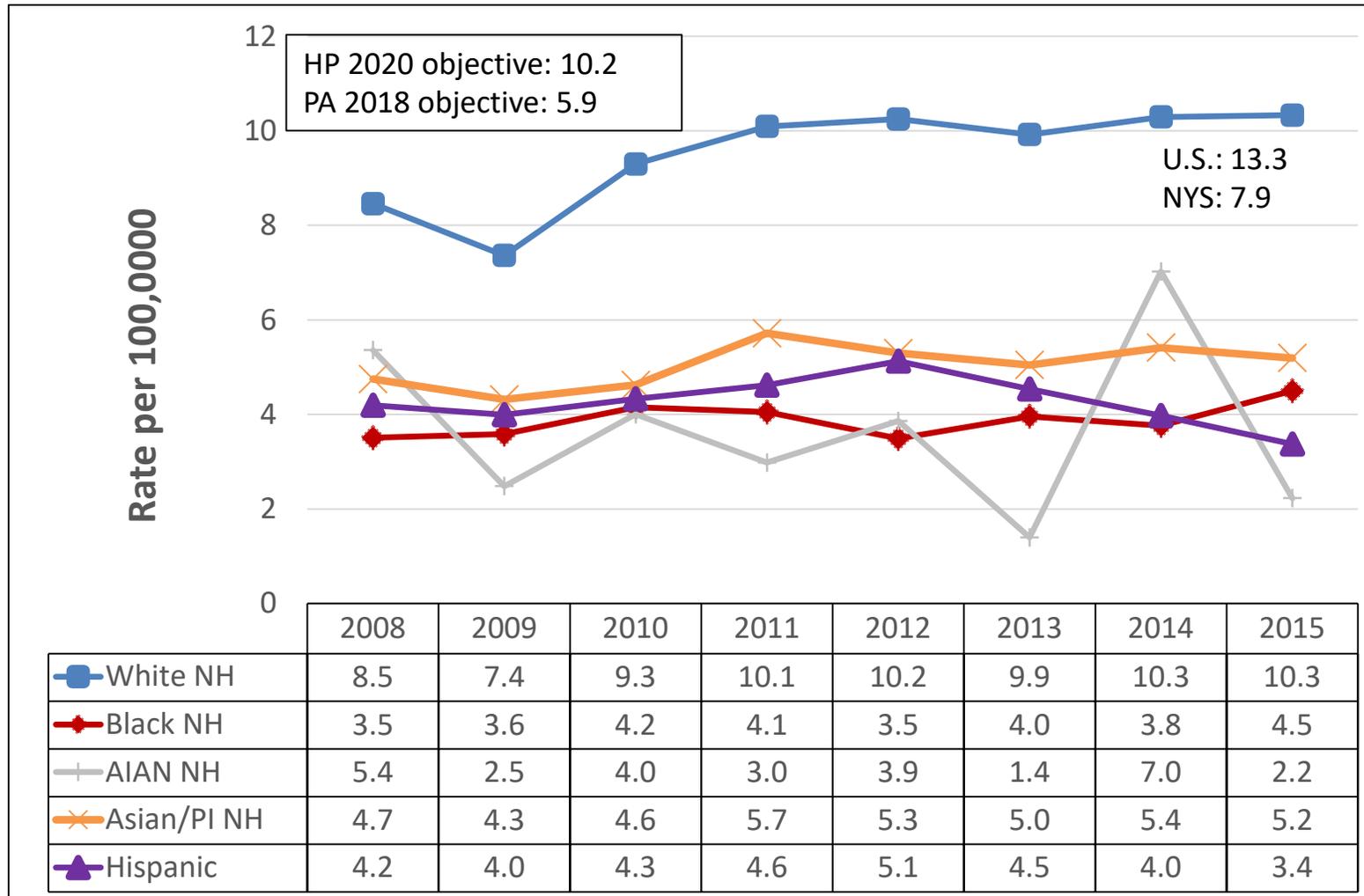
Primary and secondary syphilis rates per 100,000 by gender, New York State, 2010-2015



Data Source: NYS Sexually Transmitted Disease Surveillance System

Mental health and substance abuse

Age-adjusted* suicide mortality rate per 100,000 population by race and ethnicity, New York State, 2008-2015



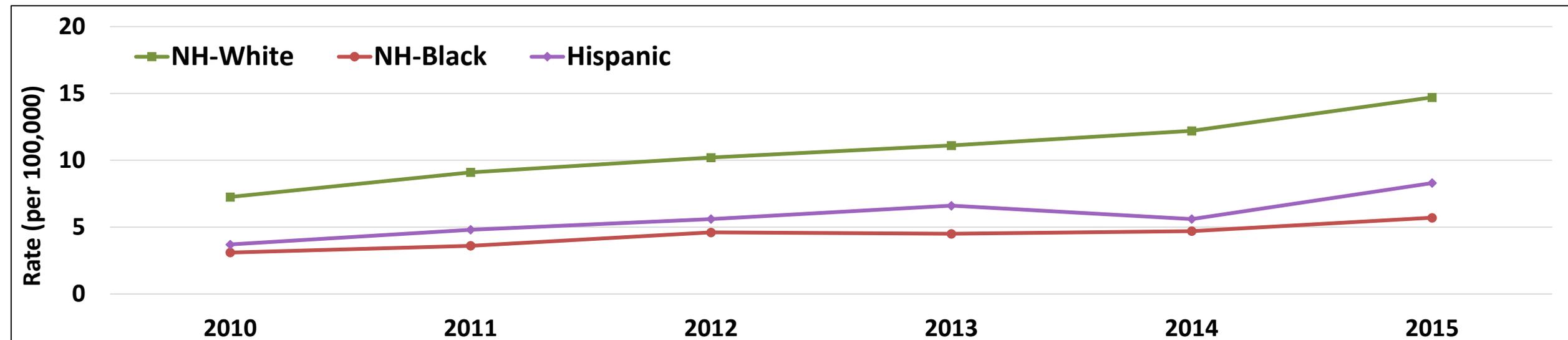
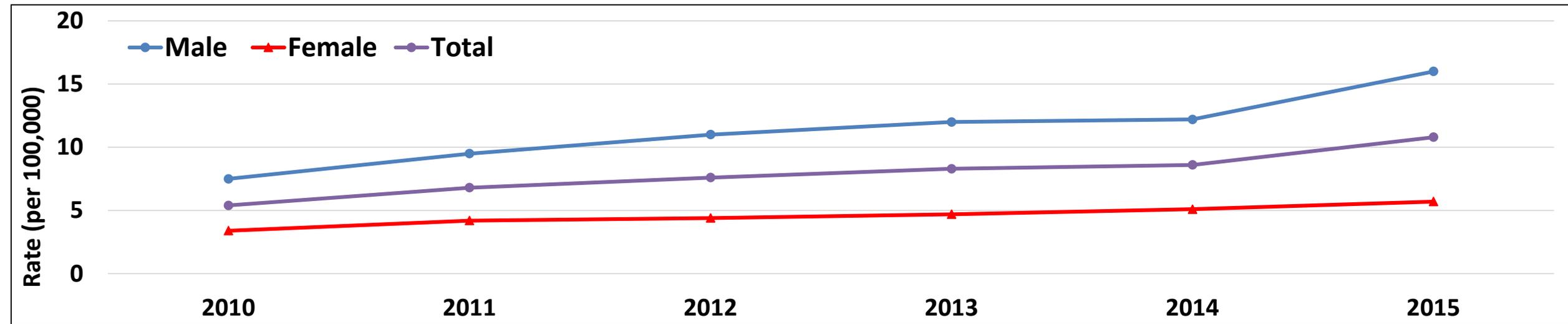
* Rates adjusted to the 2000 U.S. population
Abbreviations: NH – non-Hispanic; PI – Pacific Islander
Data Source: NYS Vital Records

Magnitude of the opioid burden

Indicators	New York State Total	Crude rate per 100,000
Opioid-related overdose deaths (2015)-CDC wonder	2,166	10.9
Opioid overdose hospitalizations (2016)	3,048	15.4
Opioid overdose ED visits (2016)	8,444	42.8
Unique patients admitted to OASAS-certified treatment programs for opioids (2016)	66,450	336.5

To access opioid-related data for NYS: <https://health.ny.gov/statistics/opioid/>

Age-adjusted rates of opioid overdose death by gender and race/ethnicity, New York State, 2010–2015



For your consideration

- **We would like to get specific feedback from you to help improve the overall State Health Assessment**
 - **Are there other core public health topic areas we should include?**
 - **Are you aware of other major data sources that provide additional social determinants of health/socio-demographic information that we should add?**
 - **Any feedback/additional questions from stakeholders in the audience?**