



HEALTH TRENDS

HEALTH CARE COMMISSION

MAY 3, 2018

Kara Odom Walker, MD, MPH, MSHS
Cabinet Secretary
Department of Health and Social Services

HEALTH FUND ADVISORY COMMITTEE (I)

- In accordance with Section 137 of Title 16 of the Delaware Code, moneys from the Delaware Health Fund shall be expended for Delaware citizens in accordance with any 1 or more of the following:
 - (1) Expanding **access to health care and health insurance** for citizens of Delaware that lack affordable healthcare due to being uninsured or underinsured;
 - (2) Making long-term investments to enhance **health care infrastructure** which meets a public purpose;
 - (3) Promoting **healthy lifestyles**, including the prevention and cessation of the use of tobacco, alcohol and other drugs by the citizens of Delaware;
 - (4) Promoting **preventative care for Delawareans** in order to detect and avoid adverse health conditions, particularly cancer and other tobacco-related diseases;



HEALTH FUND ADVISORY COMMITTEE (2)

- (5) Working with the medical community by providing funding for innovative and/or cost-effective testing regimens to **detect and identify lesser-known** but devastating and costly illnesses, such as sarcoidosis and hemachromatosis, fibromyalgia, lupus, lyme disease and chronic fatigue immune deficiency syndrome;
- 6) Promoting a **payment assistance program for prescription drugs** to Delaware's low-income seniors and people with disabilities who are ineligible for, or do not have, prescription drug benefits or coverage through federal, state, or private sources;
- (7) Promoting a **payment assistance program** to Delaware's citizens who suffer from debilitating chronic illnesses, such as diabetes and kidney disease, which are characterized by onerous recurring costs for equipment, tests and therapy; and/or
- (8) Such other expenditures as are deemed necessary in the best interests of the citizens of Delaware provided they shall be made for health-related purposes.



HEALTH FUND APPLICATION PROCESS

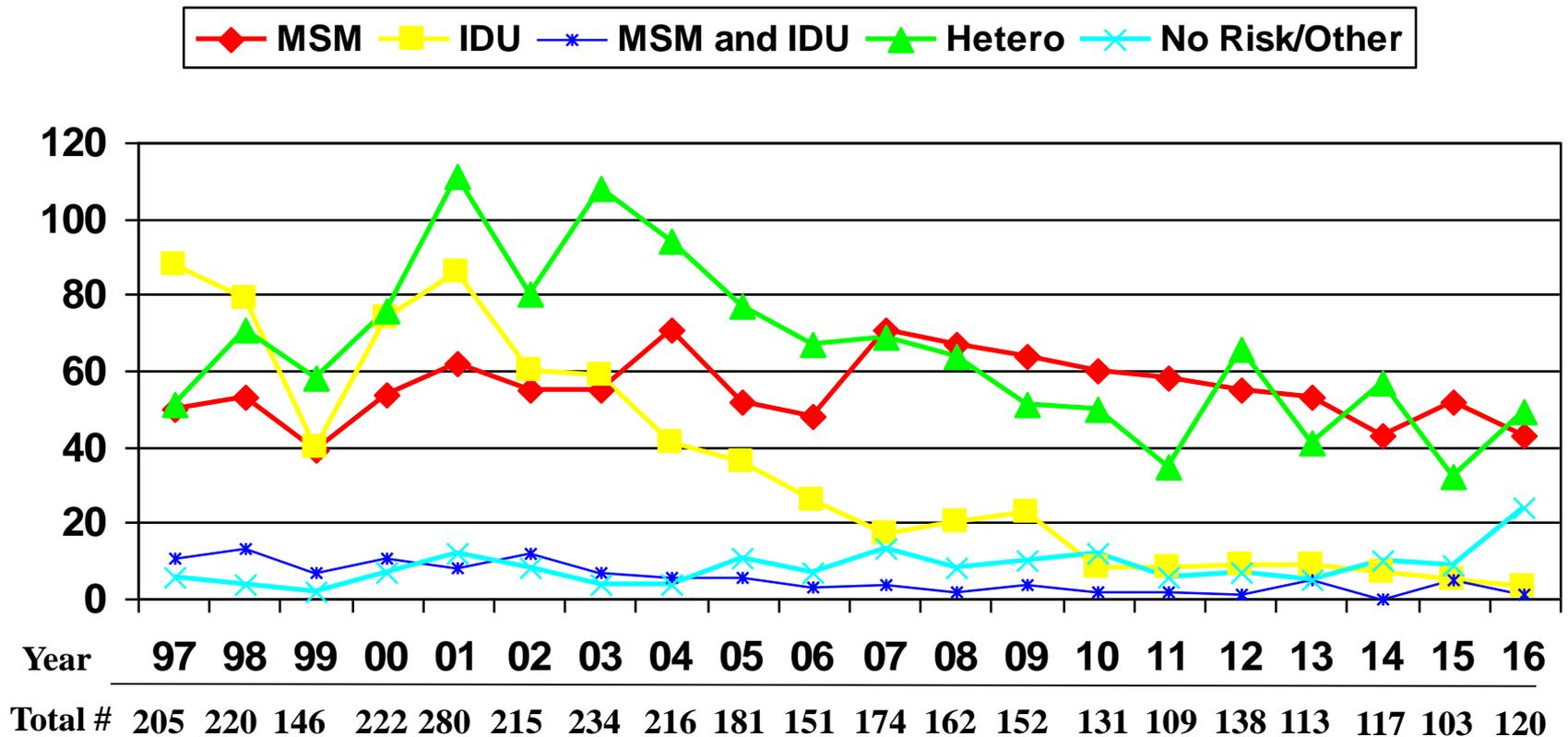
- Welcome public comments through May 21st
- Application requests information on program, impact, funding, outcomes
- “Innovation fund” may also be considered for short-term outcomes and high-risk, high-impact efforts
- Email comments to Kathryn.Evinger@state.de.us
- For more information:
<http://dhss.delaware.gov/dhss/healthfund/>





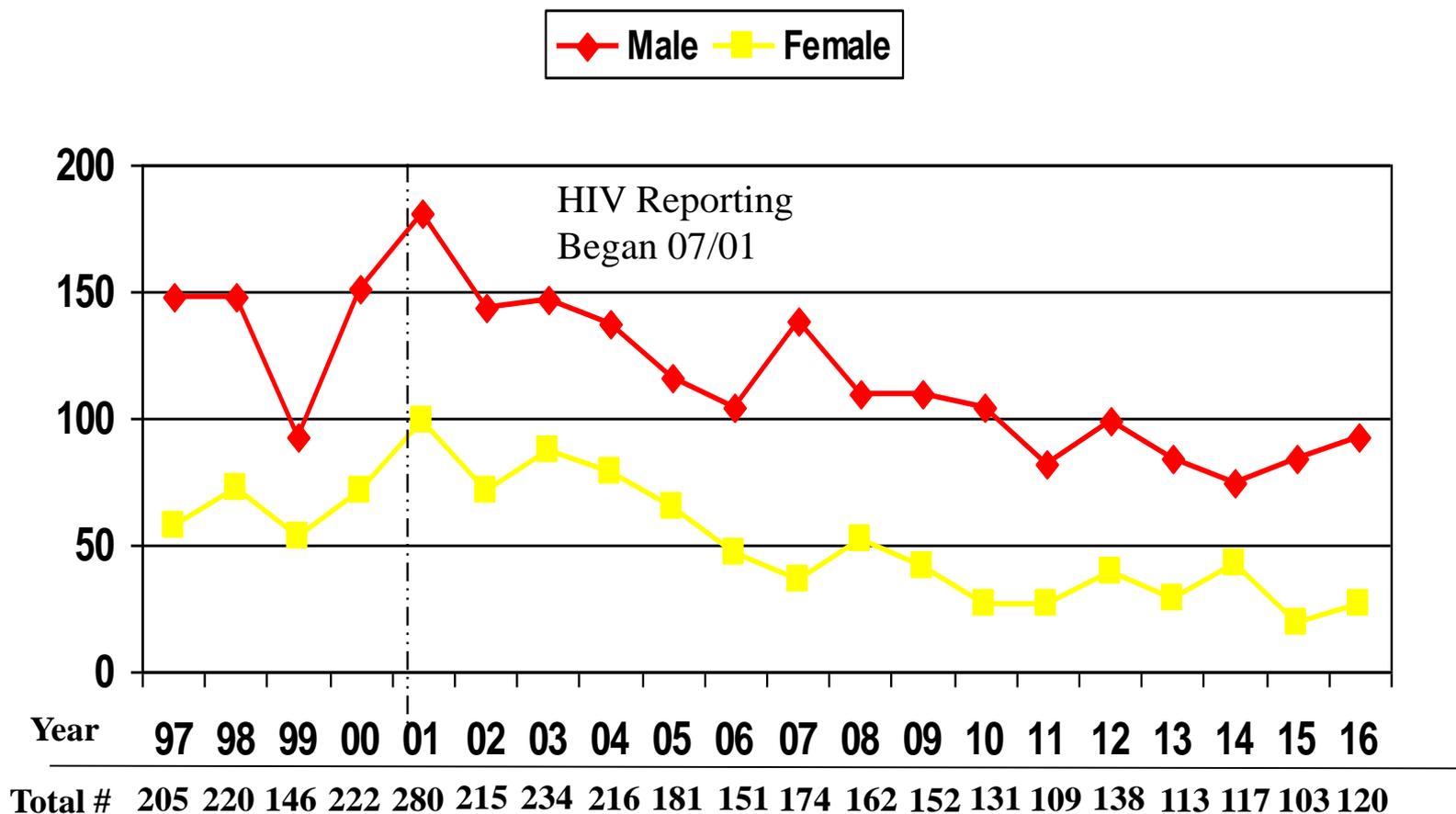
HIV/AIDS

New HIV Infections by Risk Factor (Male and Female), Delaware, 1997-2016



New HIV Infections by Gender, Delaware, 1997-2016

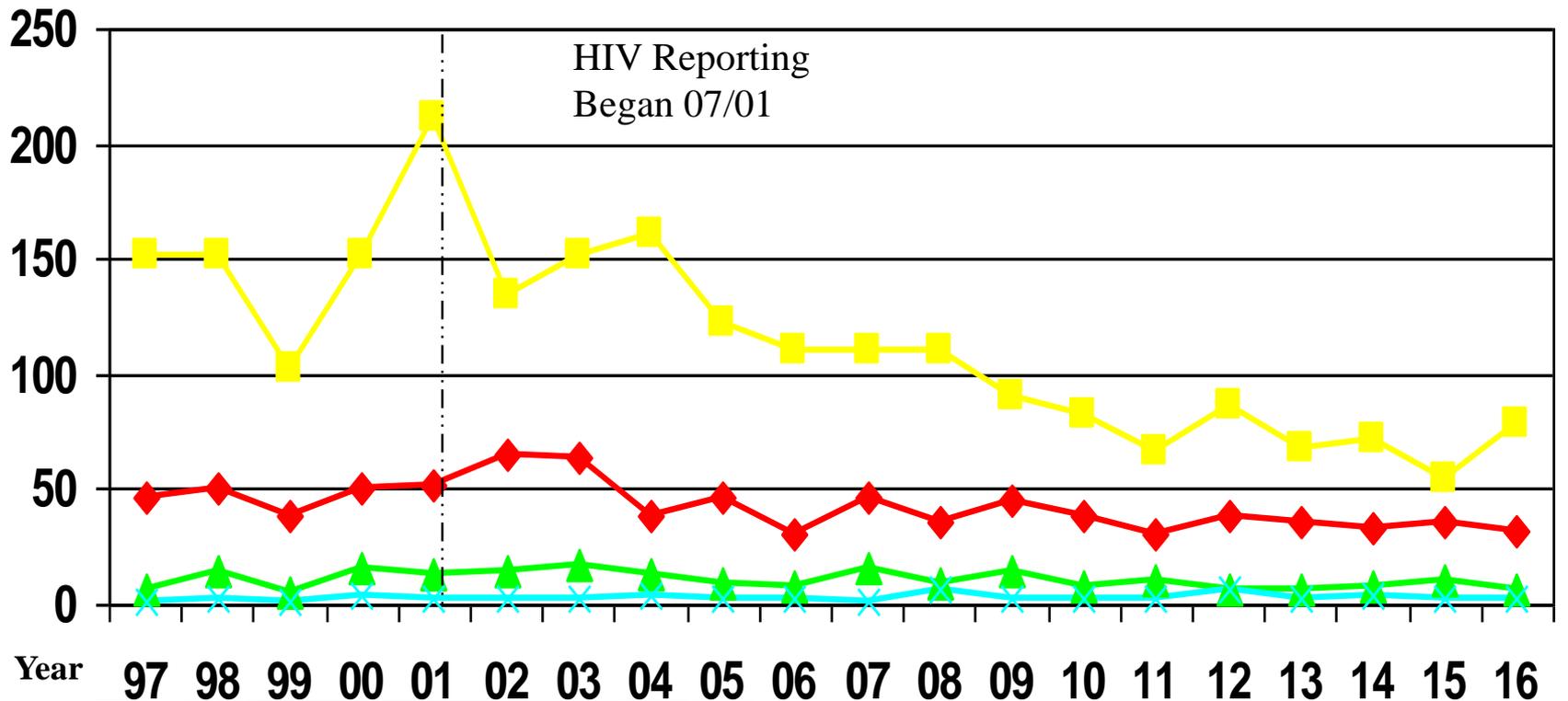
Note: Data perspective change from number of HIV cases and number AIDS cases to the number of new infections.



New HIV Infections by Race and Ethnic Group, Delaware, 1997-2016

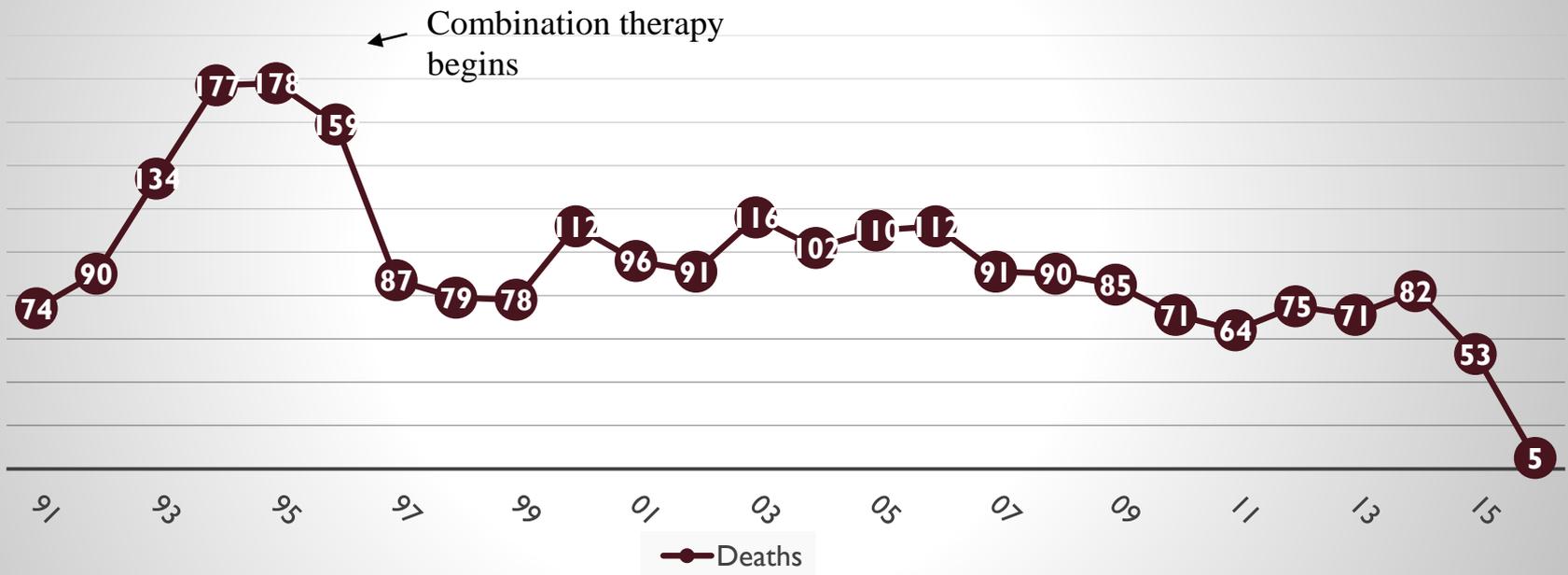


NOTE: Other = Am Indian, Native Alaskan Asian, Native Hawaiian and Multi Race



Total # 205 220 146 222 280 215 234 216 181 151 174 162 152 131 109 138 113 117 103 120

Overall HIV Mortality, Delaware, 1991-2016 (2016 preliminary)



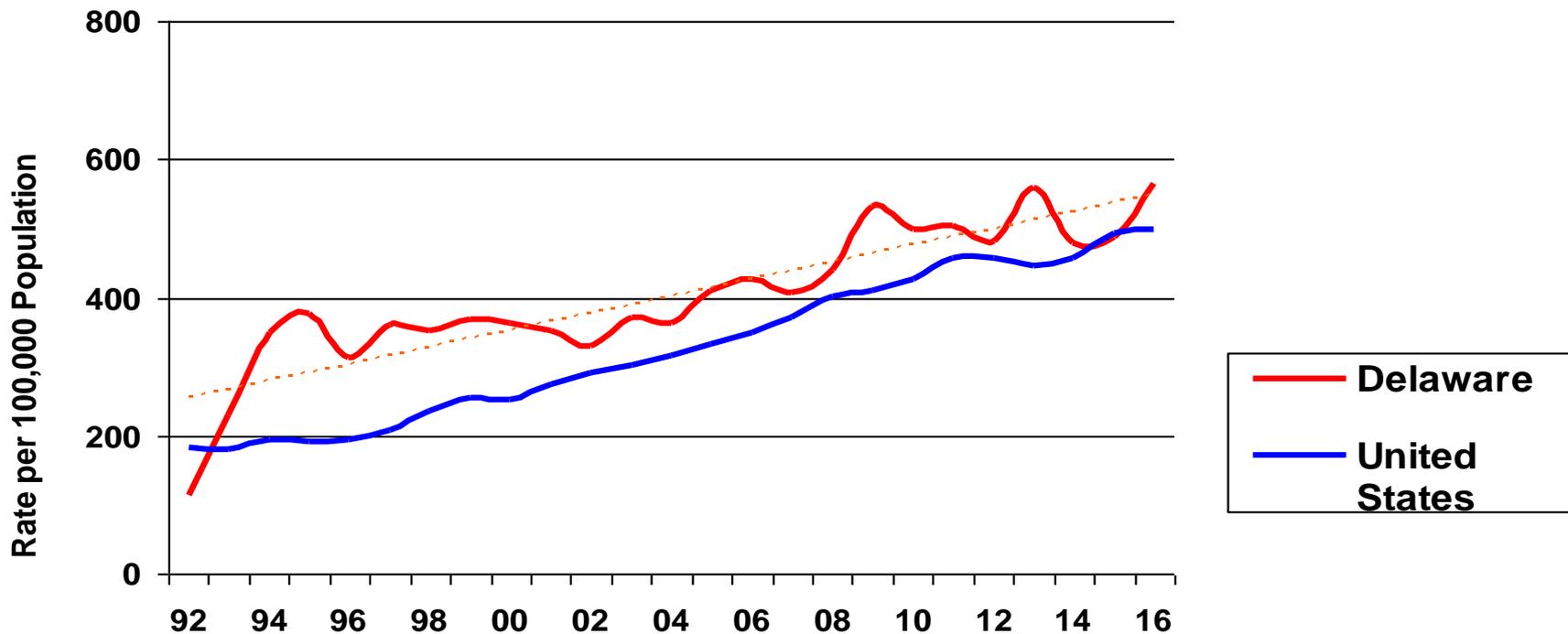
Living with HIV/AIDS:

- 523 in December 1988
- 3,381 in December 2016 (preliminary)

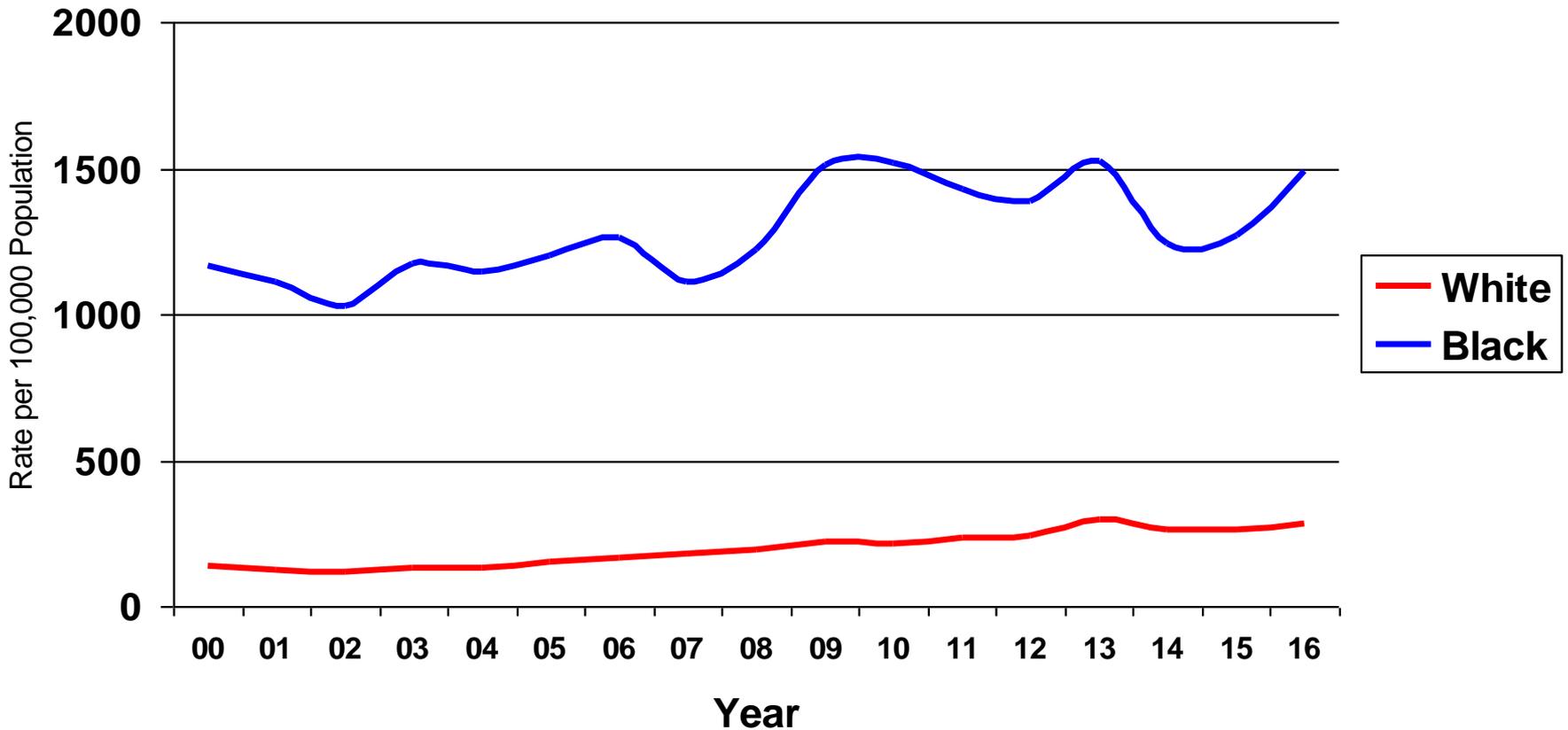


SEXUALLY TRANSMITTED INFECTIONS

Chlamydia Incidence Rates, Delaware vs. U.S., 1992-2016

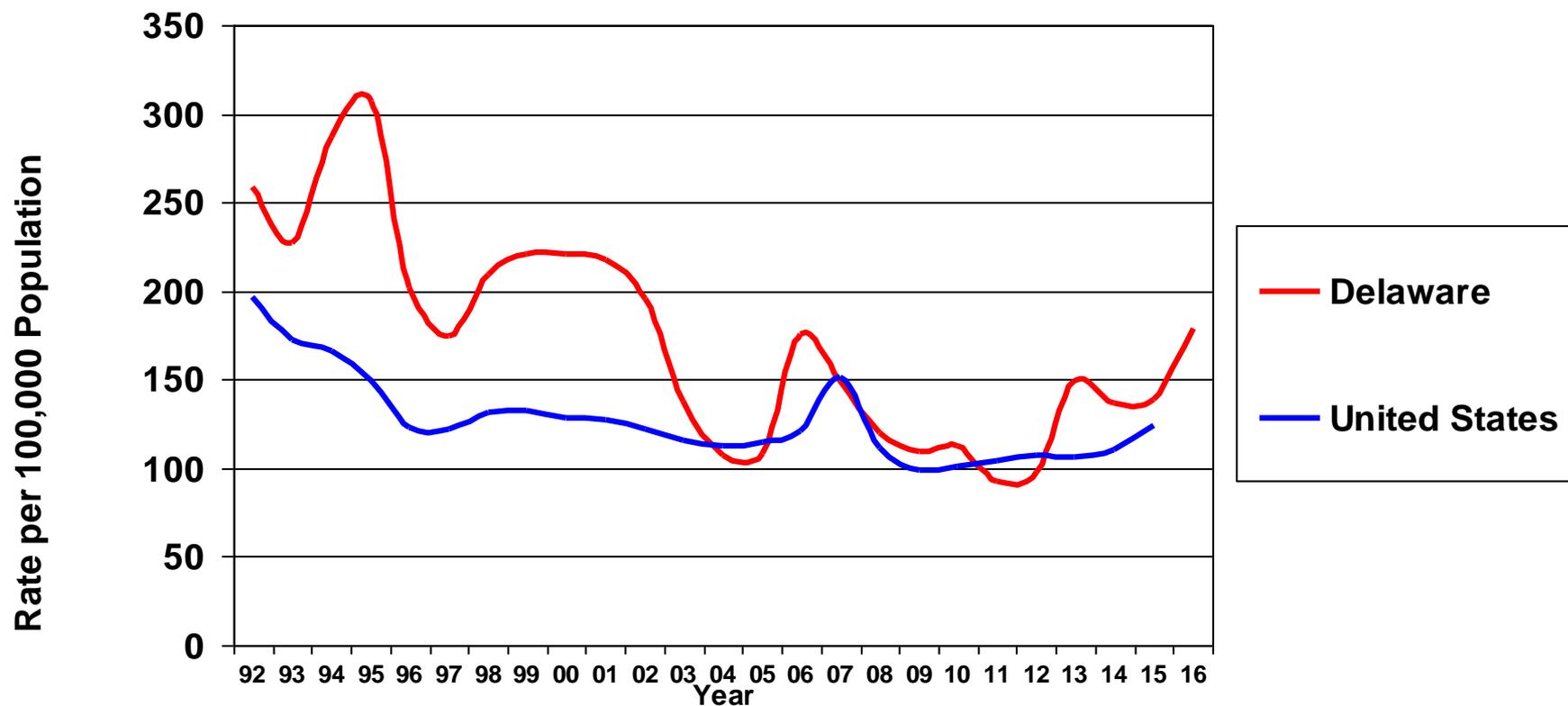


Chlamydia Incidence by Race, Delaware, 2000-2016

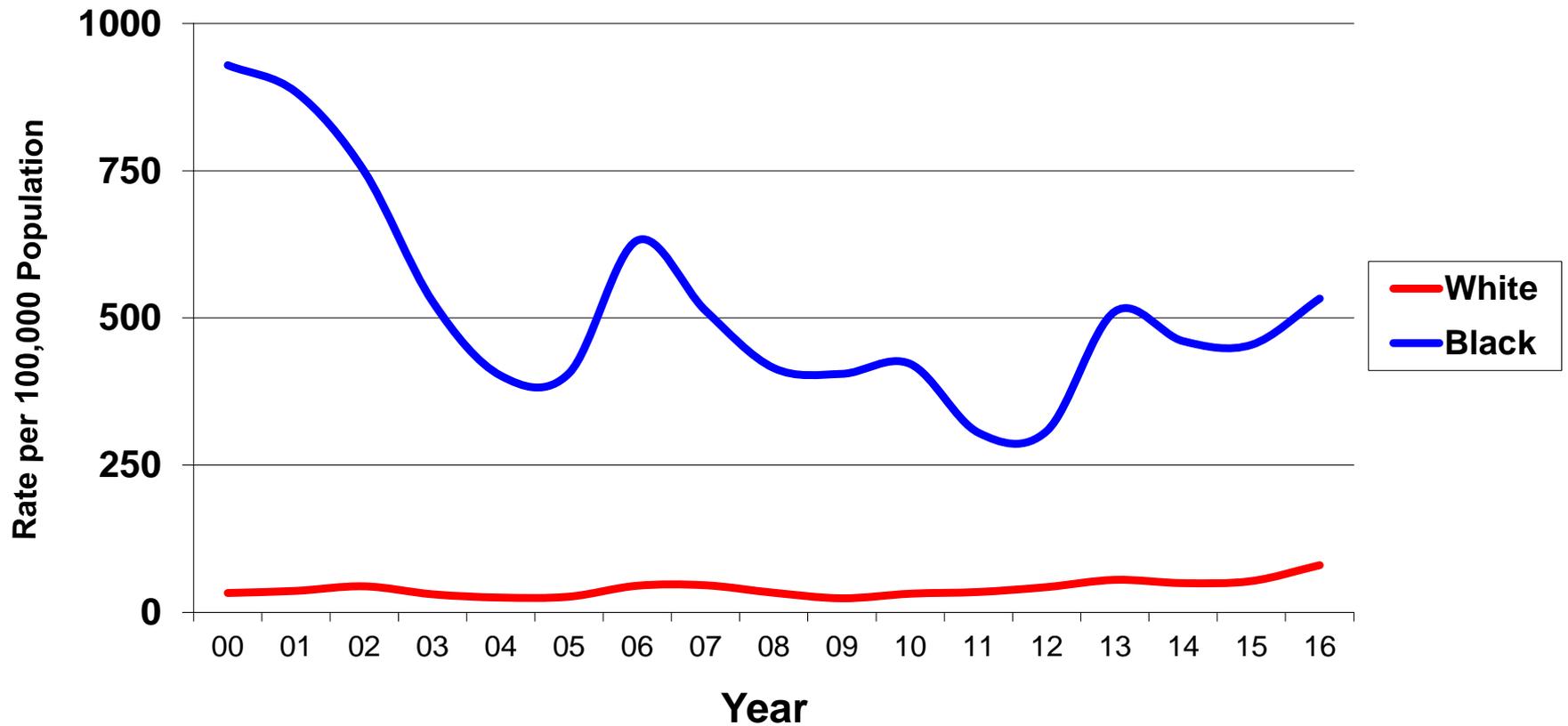


Source: STD Program, Delaware Division of Public Health, 2016

Gonorrhea Incidence Rates, Delaware vs. U.S., 1992-2016



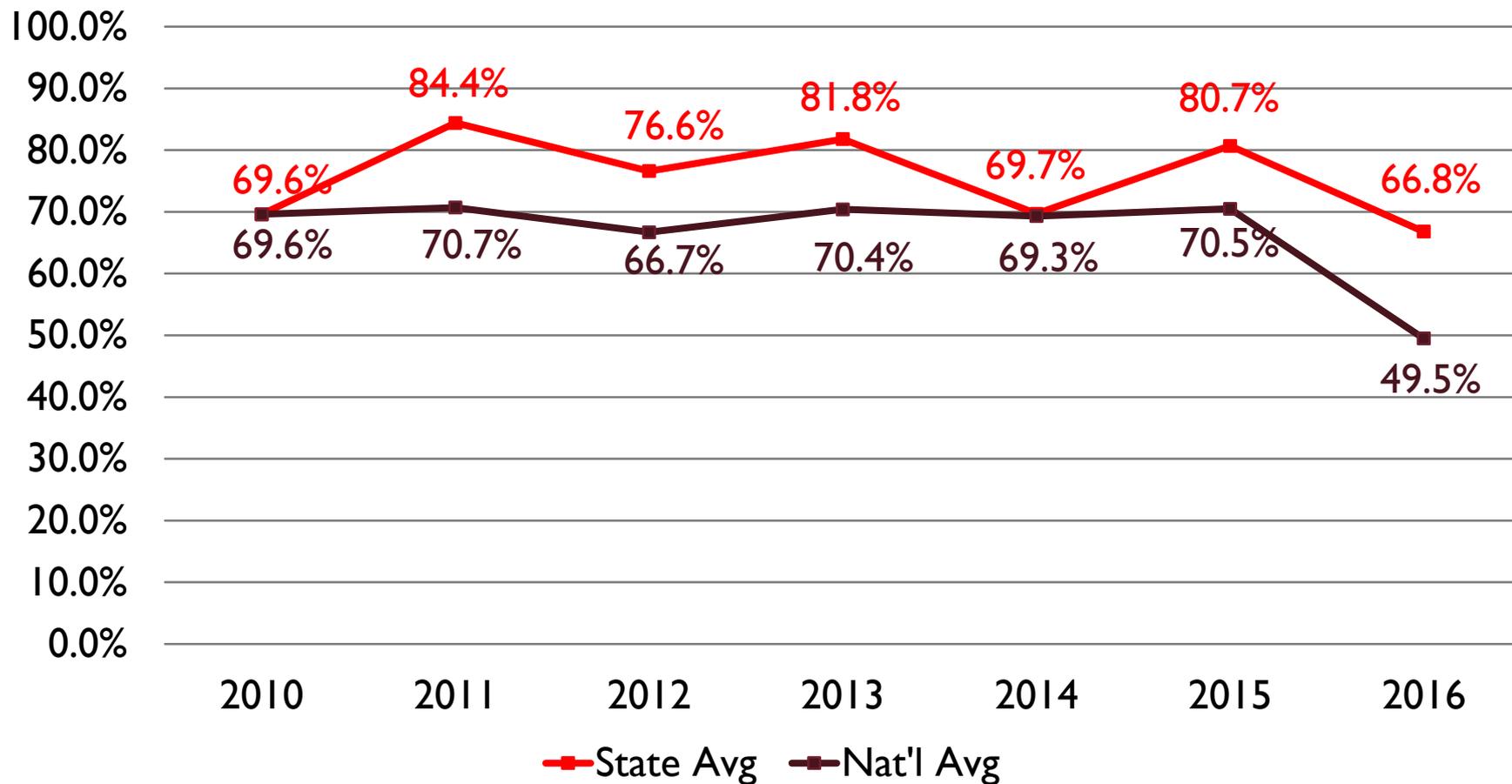
Gonorrhea Incidence by Race, Delaware, 2000-2016





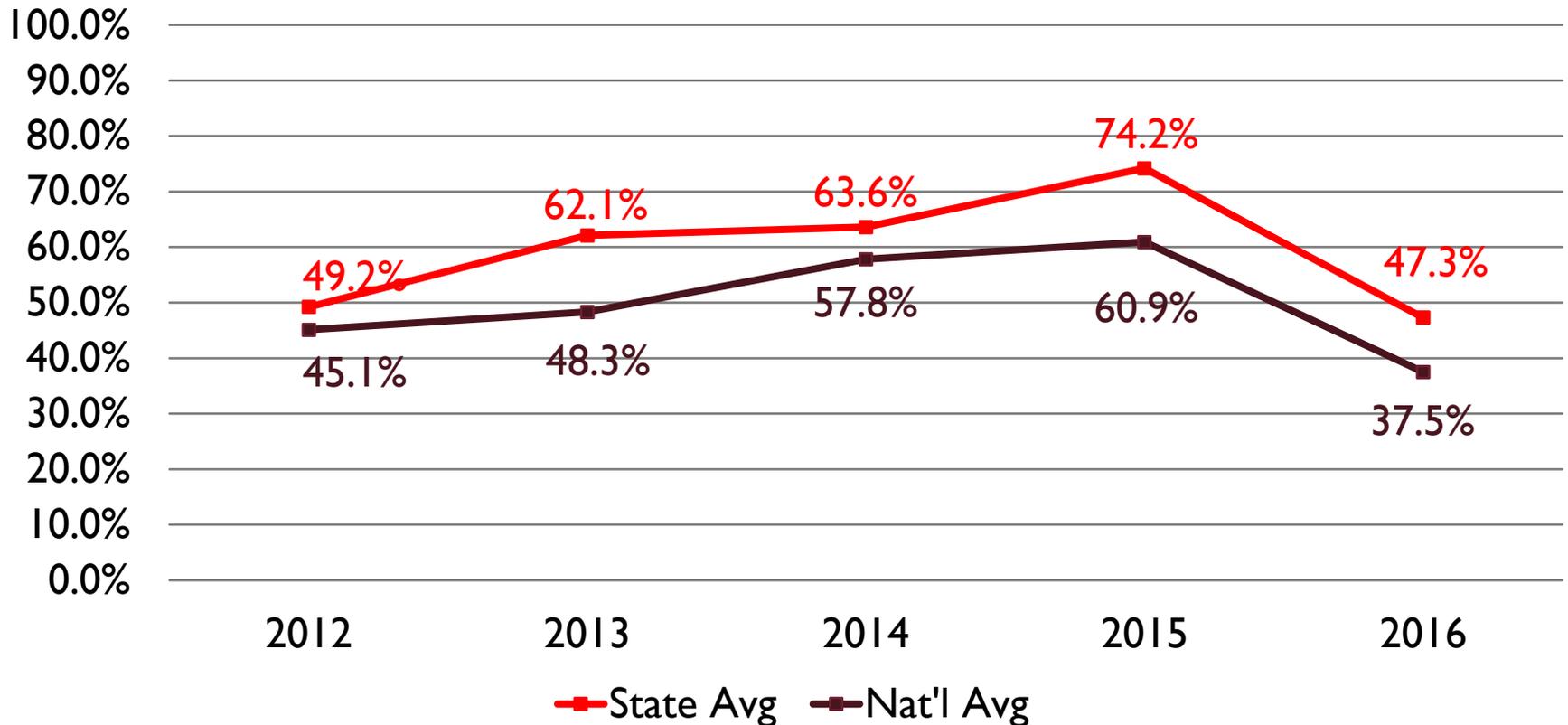
ADOLESCENT HPV COVERAGE RATES

National Immunization Survey Data (13-17 Years) Series Completion/Up to Date HPV-Female



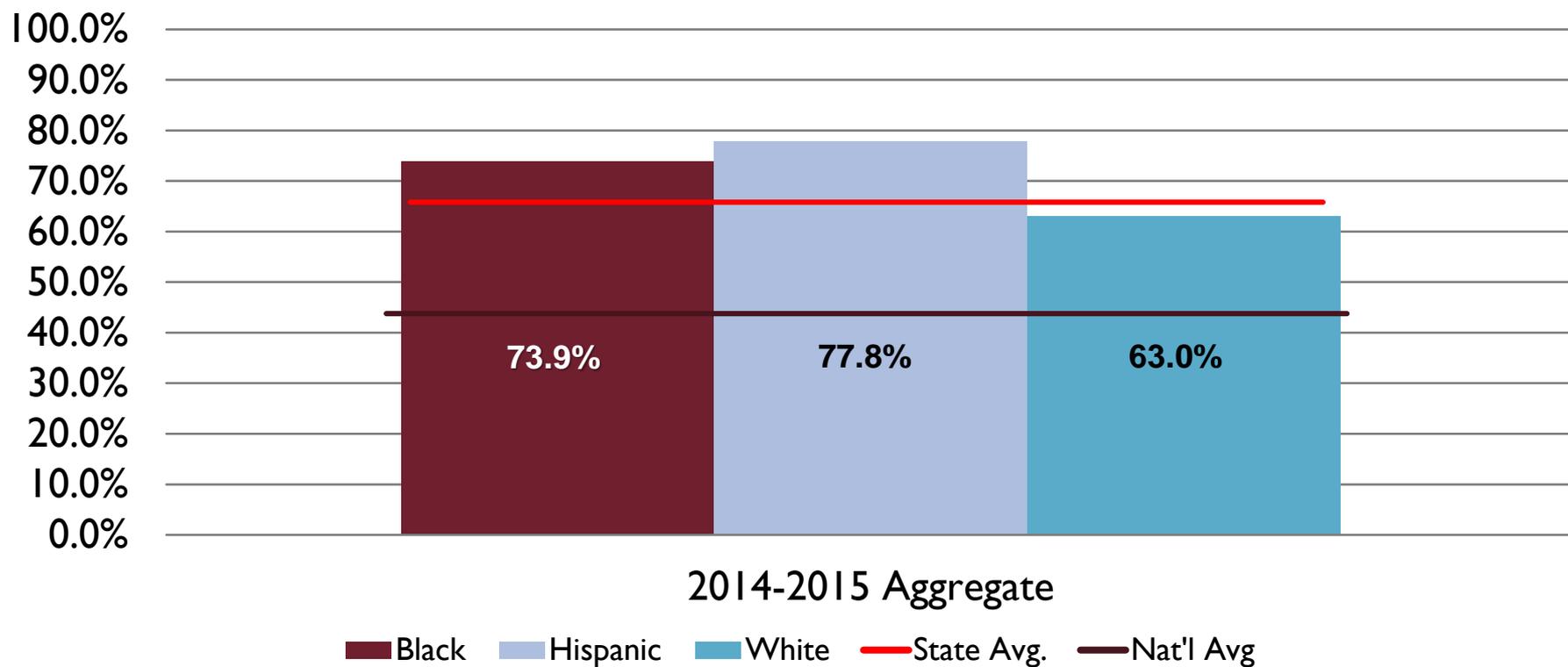
Source: CDC, 2017

National Immunization Survey Data (13-17 Years) Series Completion/Up to Date HPV-Male



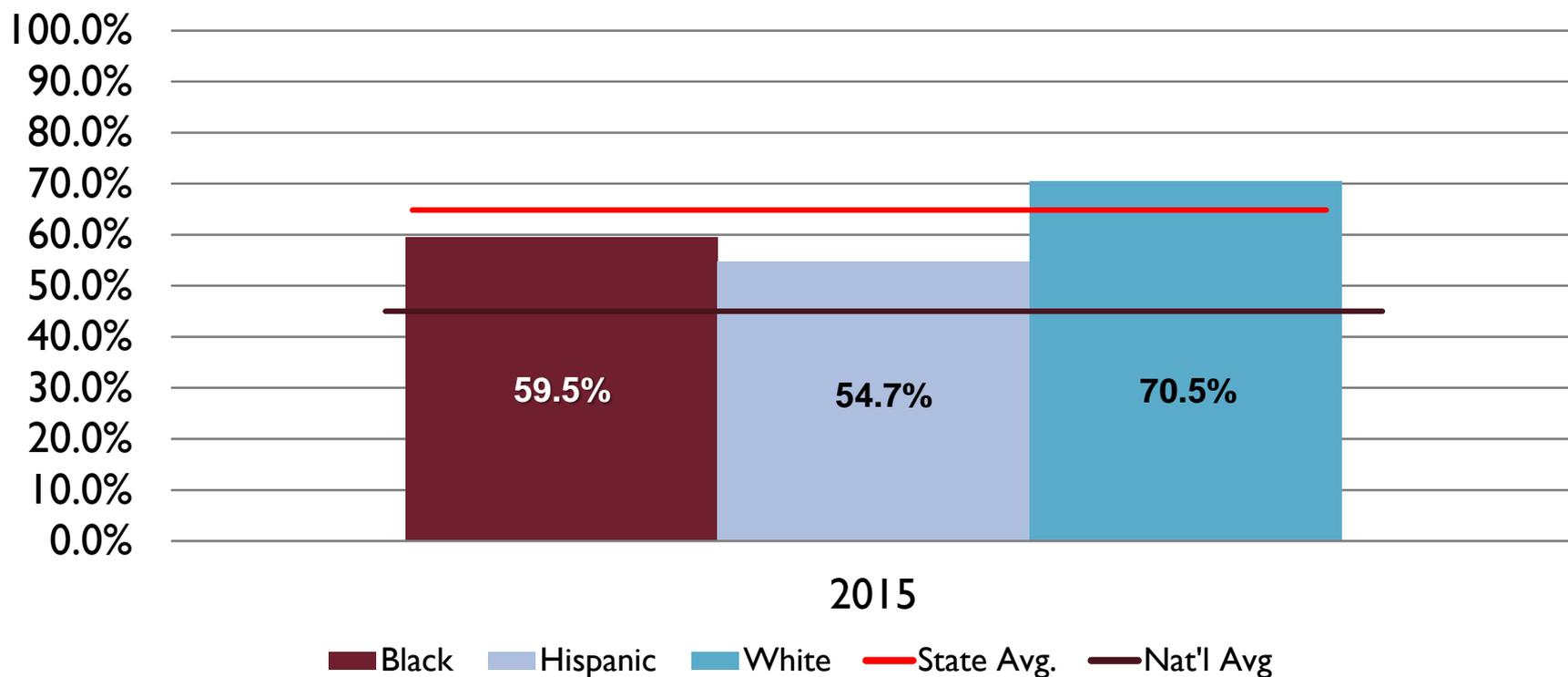
Source: CDC, 2017

National Immunization Survey Data Female Teens (13-17 Years) with ≥ 1 Dose HPV, by Race, Delaware, 2014-2015



Source: CDC, 2017

National Immunization Survey Data Male Teens (13-17 Years) with ≥ 1 Dose HPV, by Race, Delaware, 2014-2015

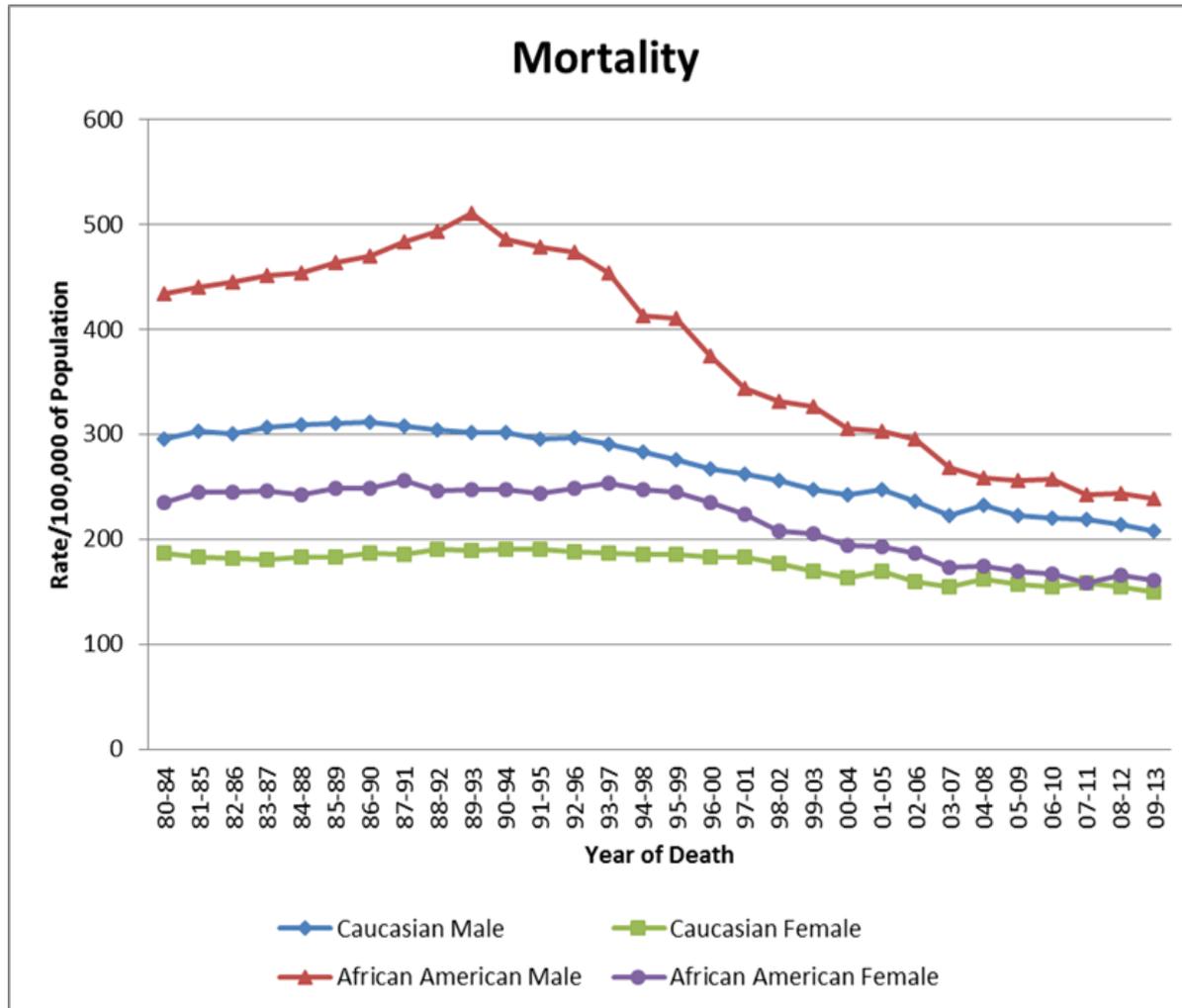


Source: CDC, 2017

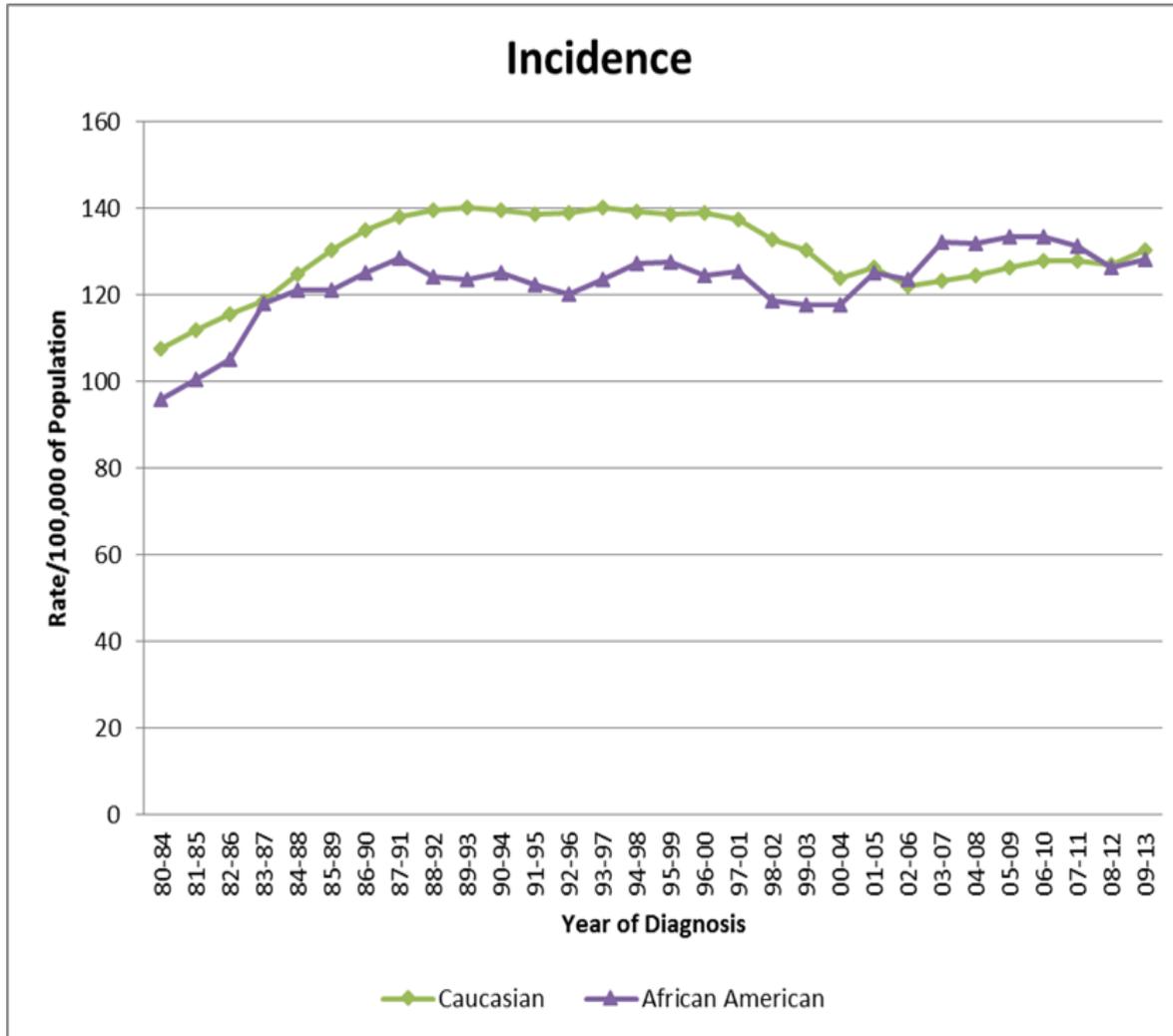


CANCER

Cancer Mortality by Race, Delaware, 1980-1984 to 2009-2013

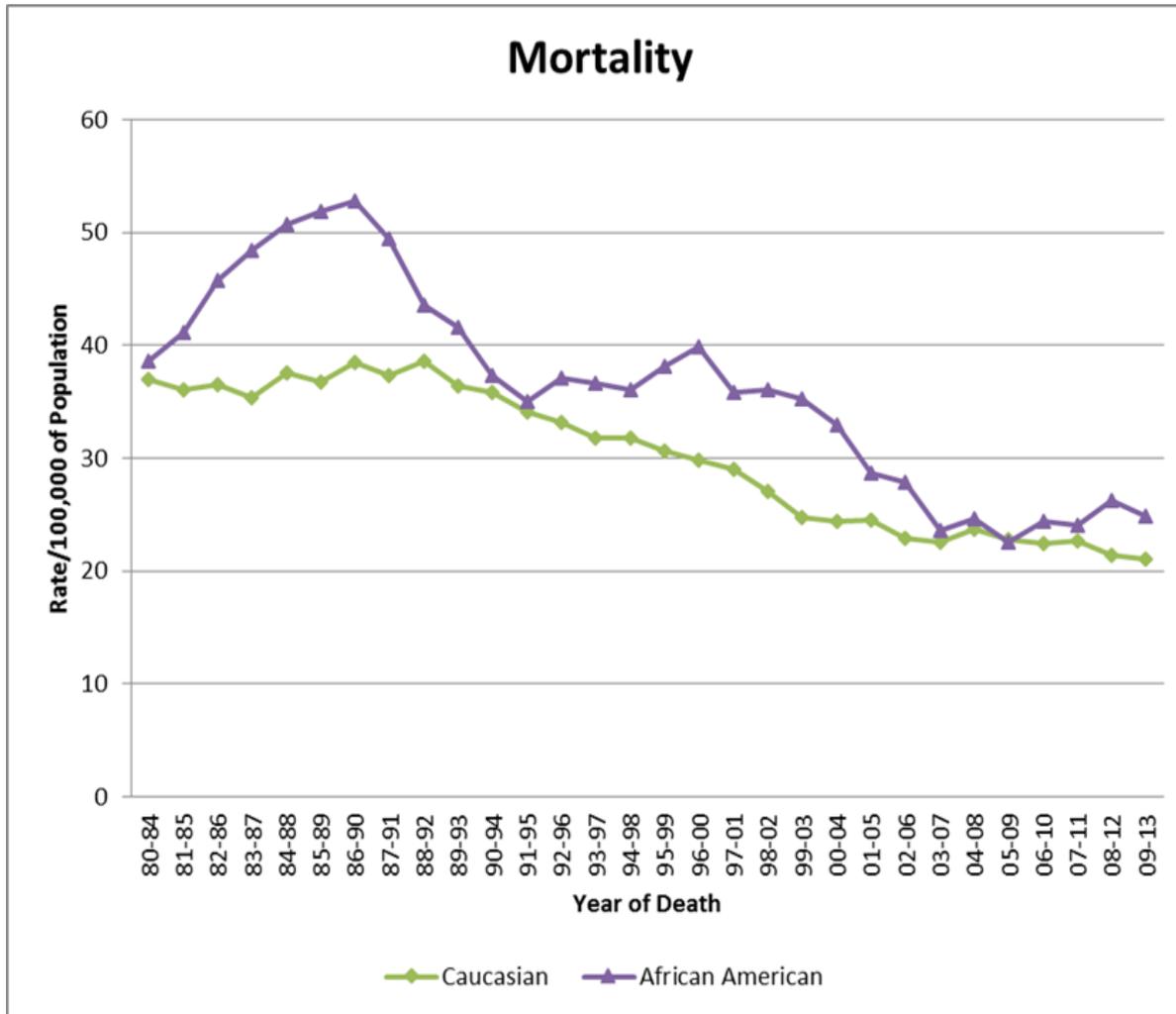


Breast Cancer Incidence by Race, Delaware, 1980-1984 to 2009-2013

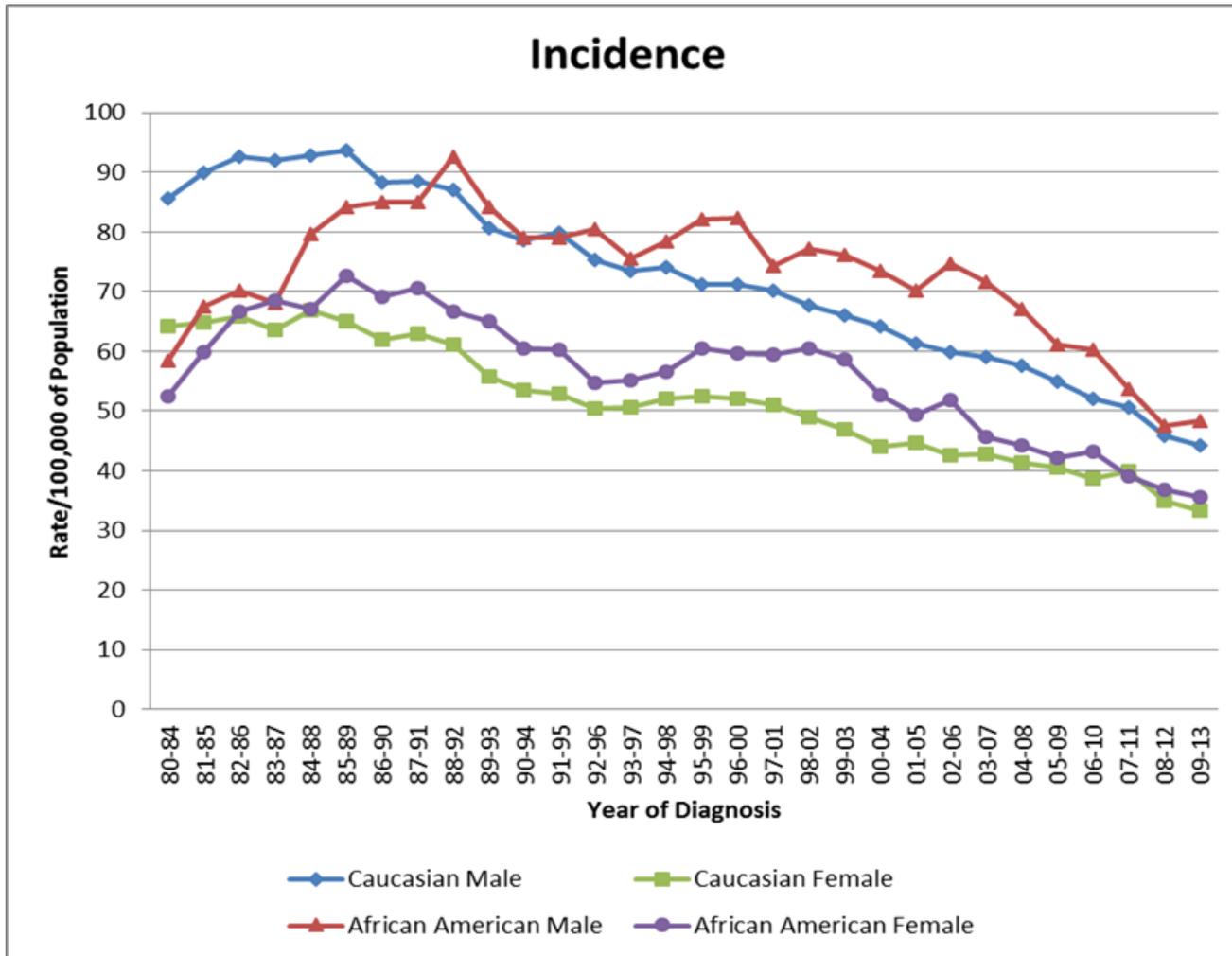


Source: *Cancer Incidence and Mortality in Delaware, 2009-2013*

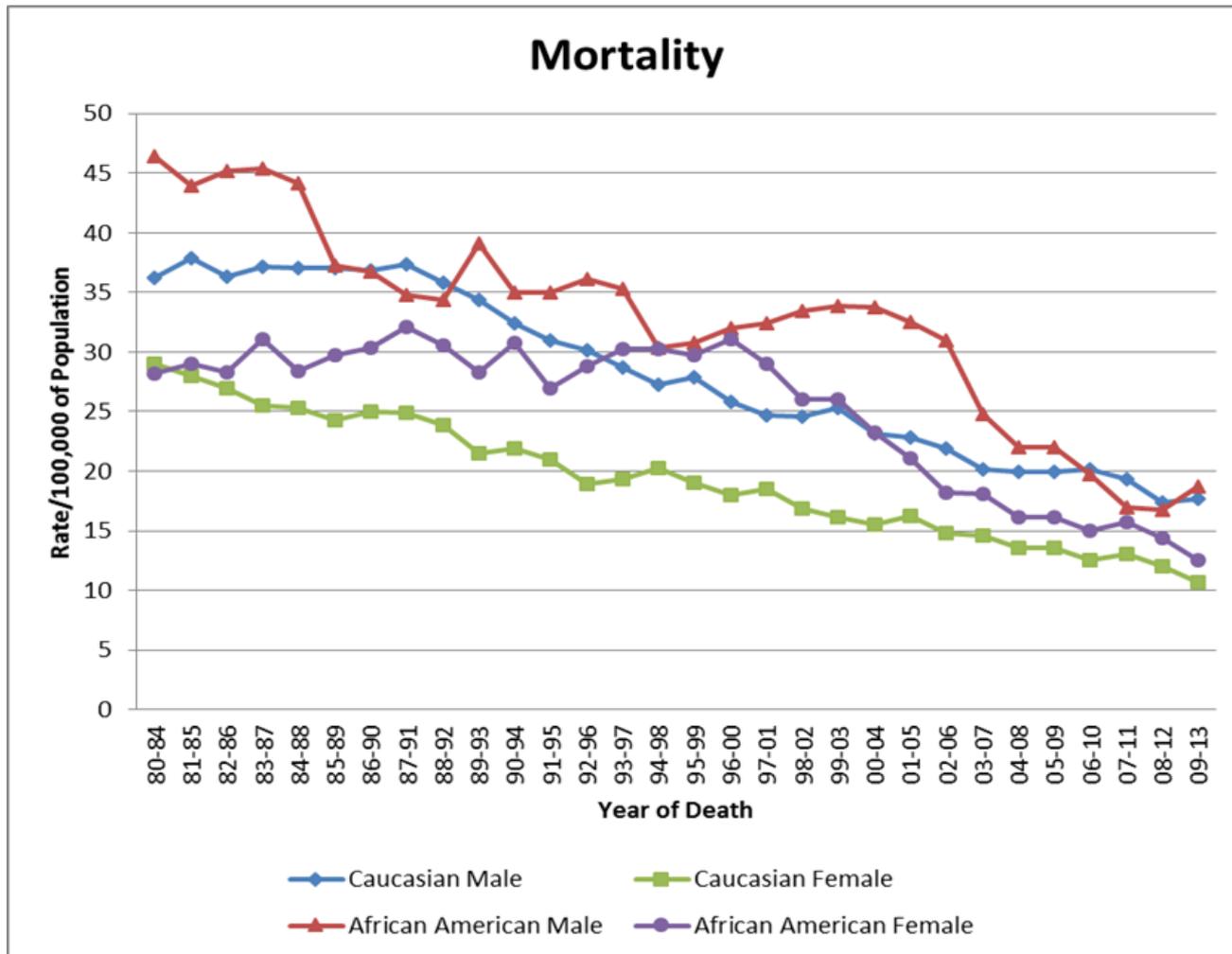
Breast Cancer Mortality by Race, Delaware, 1980-1984 to 2009-2013



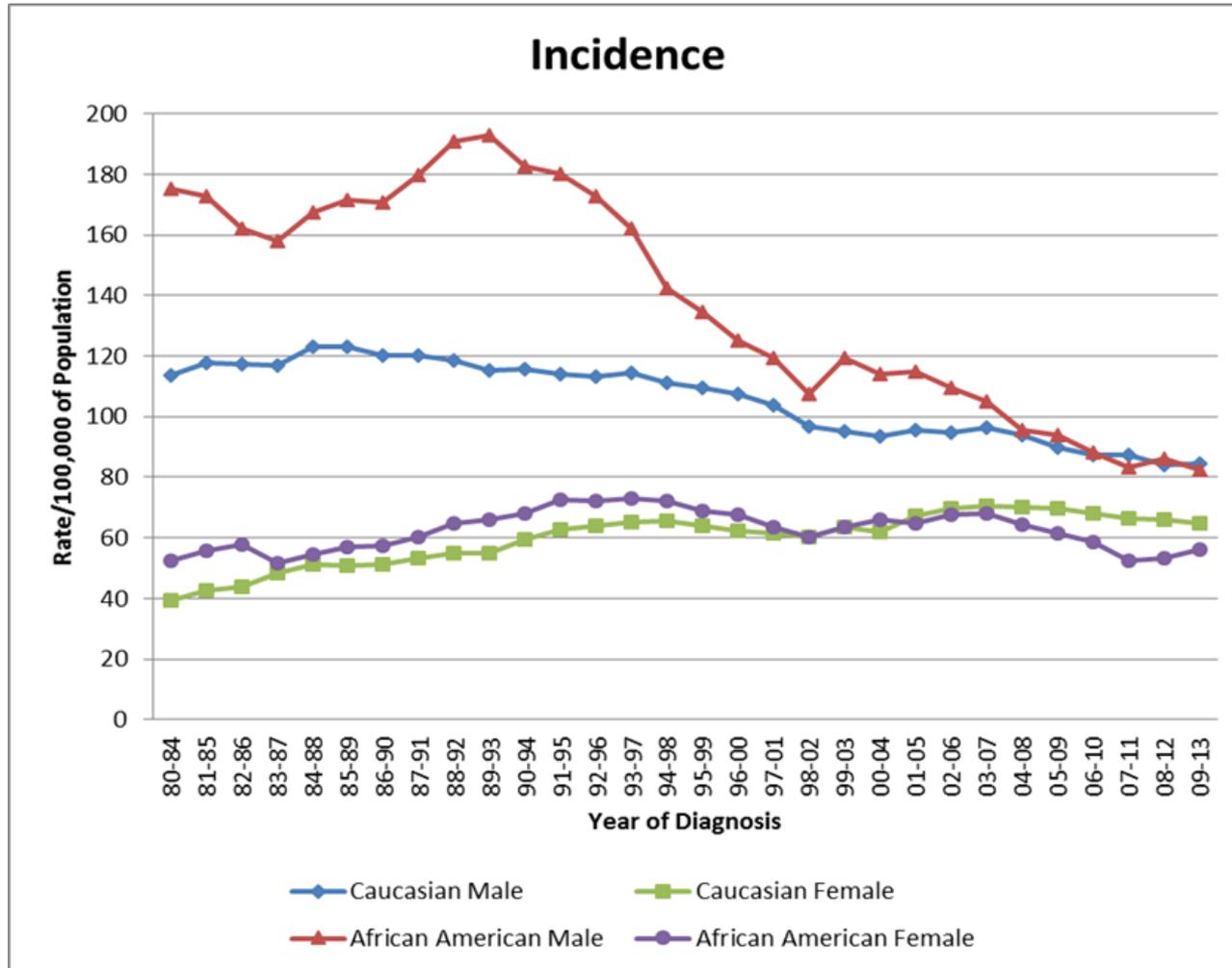
Colorectal Cancer Incidence by Race, Delaware, 1980-1984 to 2009-2013



Colorectal Cancer Mortality Rate by Race, Delaware, 1980-1984 to 2009-2013

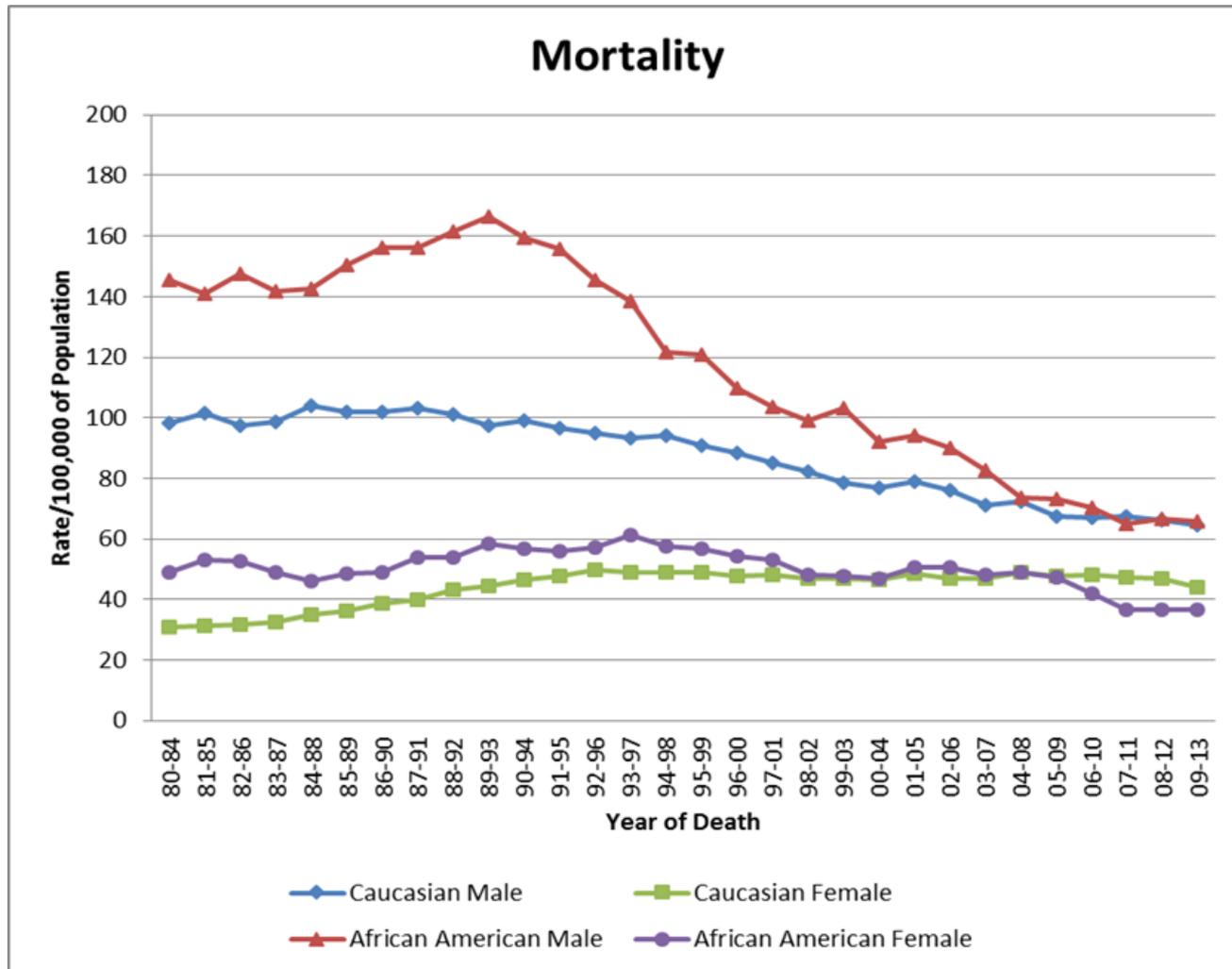


Lung Cancer Incidence Rate by Race, Delaware, 1980-1984 to 2009-2013



Source: *Cancer Incidence and Mortality in Delaware, 2009-2013*

Lung Cancer Mortality by Race, Delaware, 1980-1984 to 2009-2013

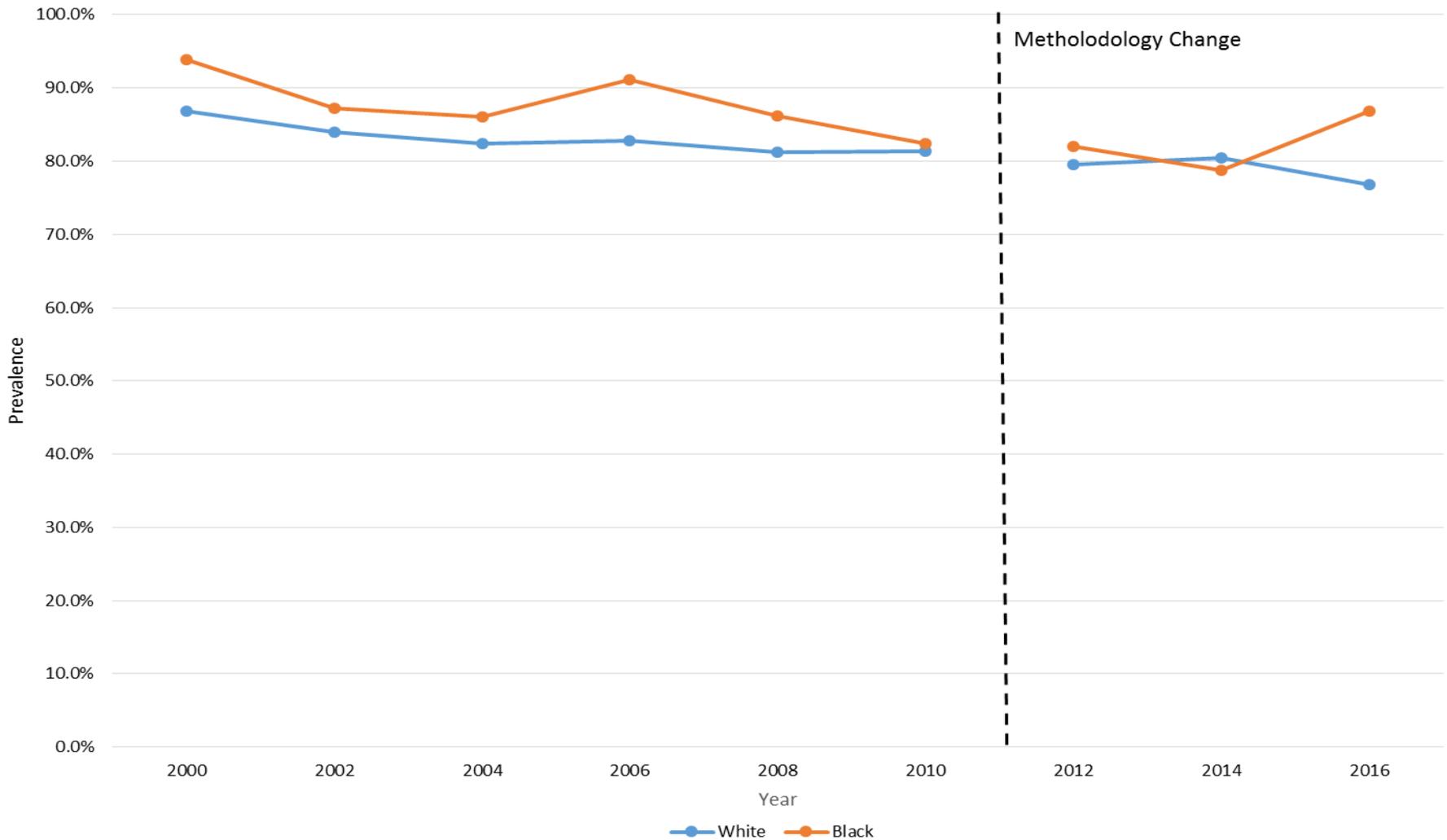


Source: *Cancer Incidence and Mortality in Delaware, 2009-2013*



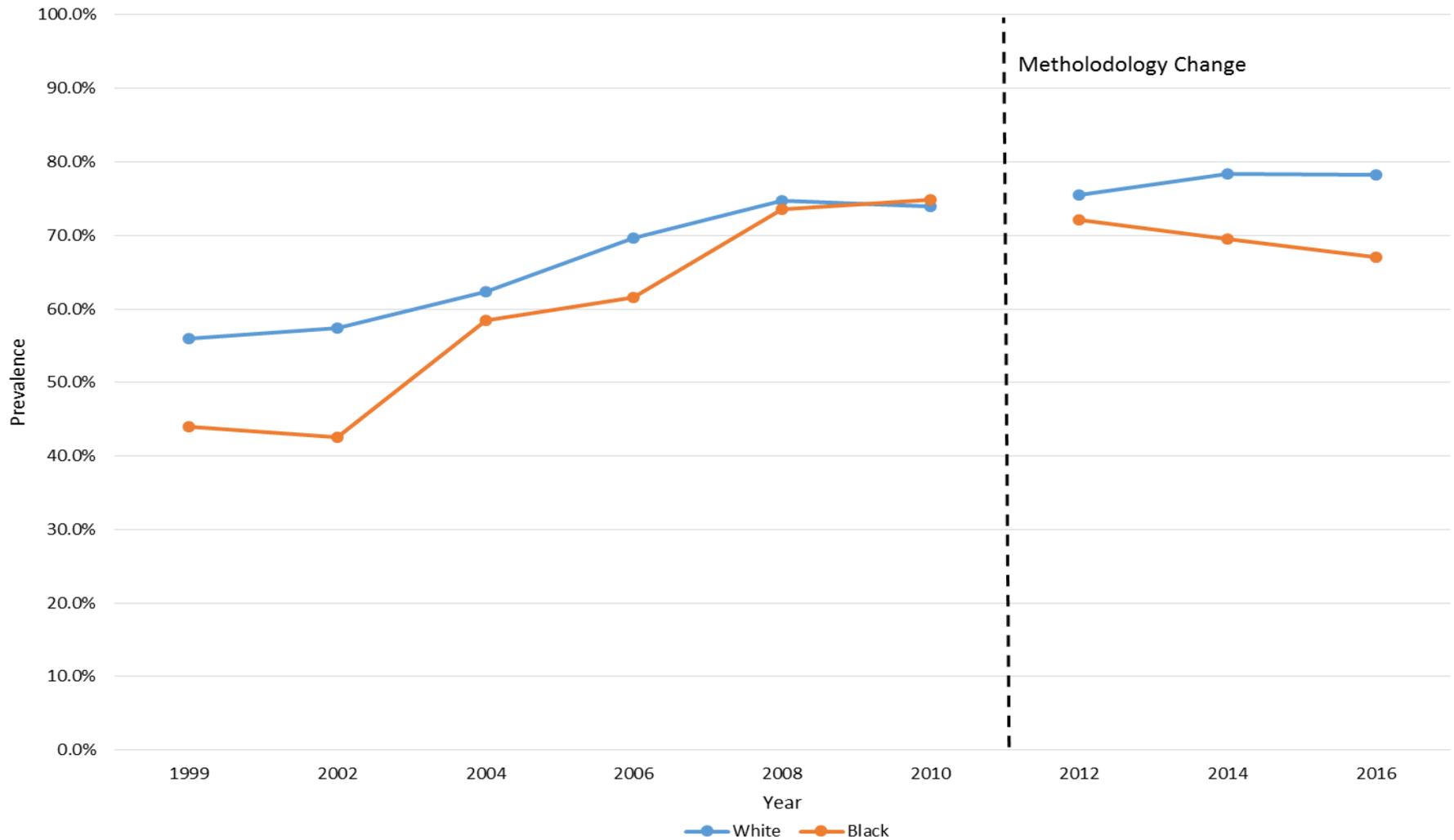
CANCER SCREENING

Prevalence of Delaware Women age 40 and Older Who Received a Mammogram Within the Past Two Years, 2000-2016



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2000-2016

Prevalence of Delaware Adults by Race who Have Ever Received a Sigmoidoscopy or Colonoscopy, 1999-2016

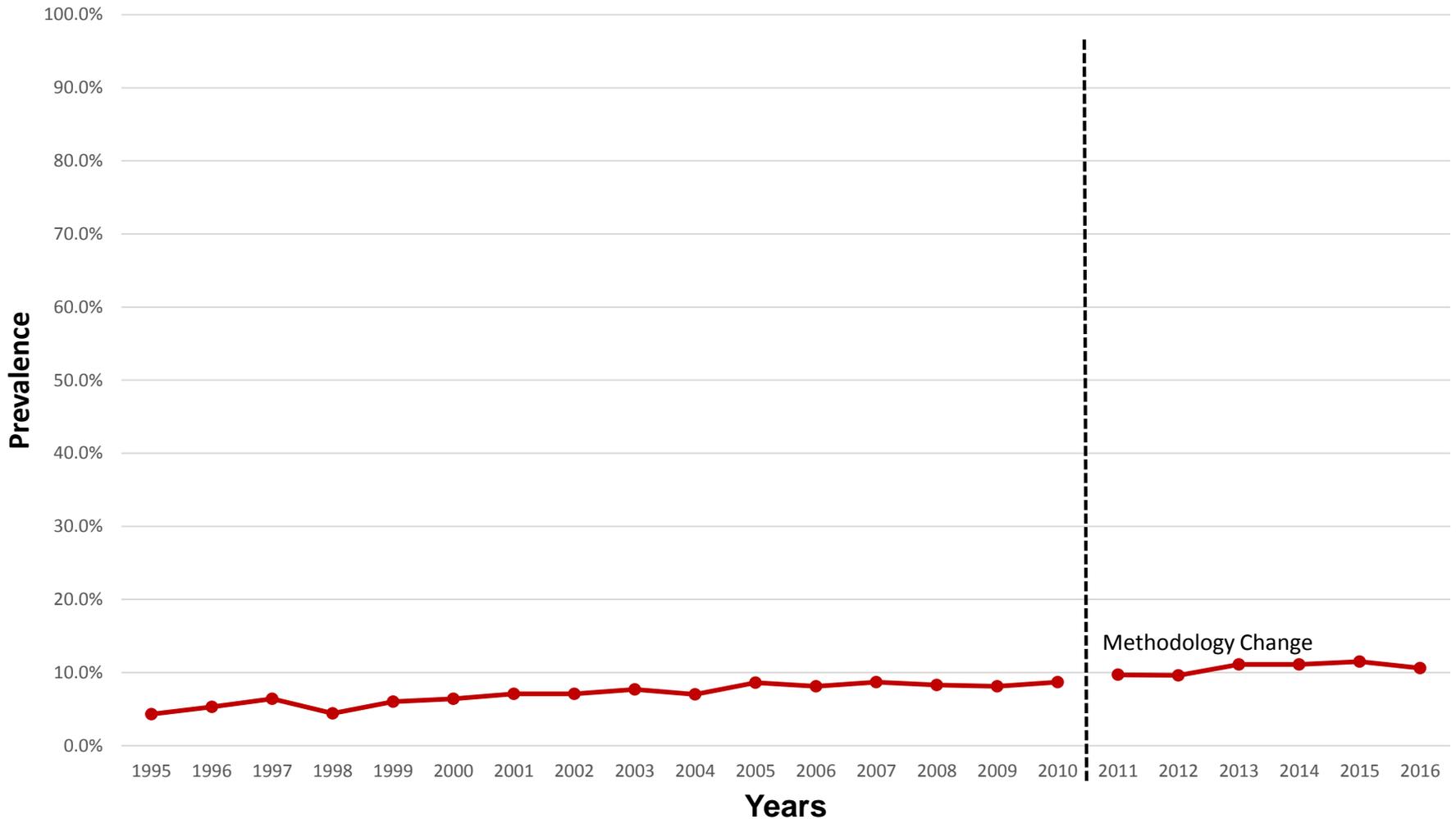


Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factory Survey (BRFS), 2000-2016

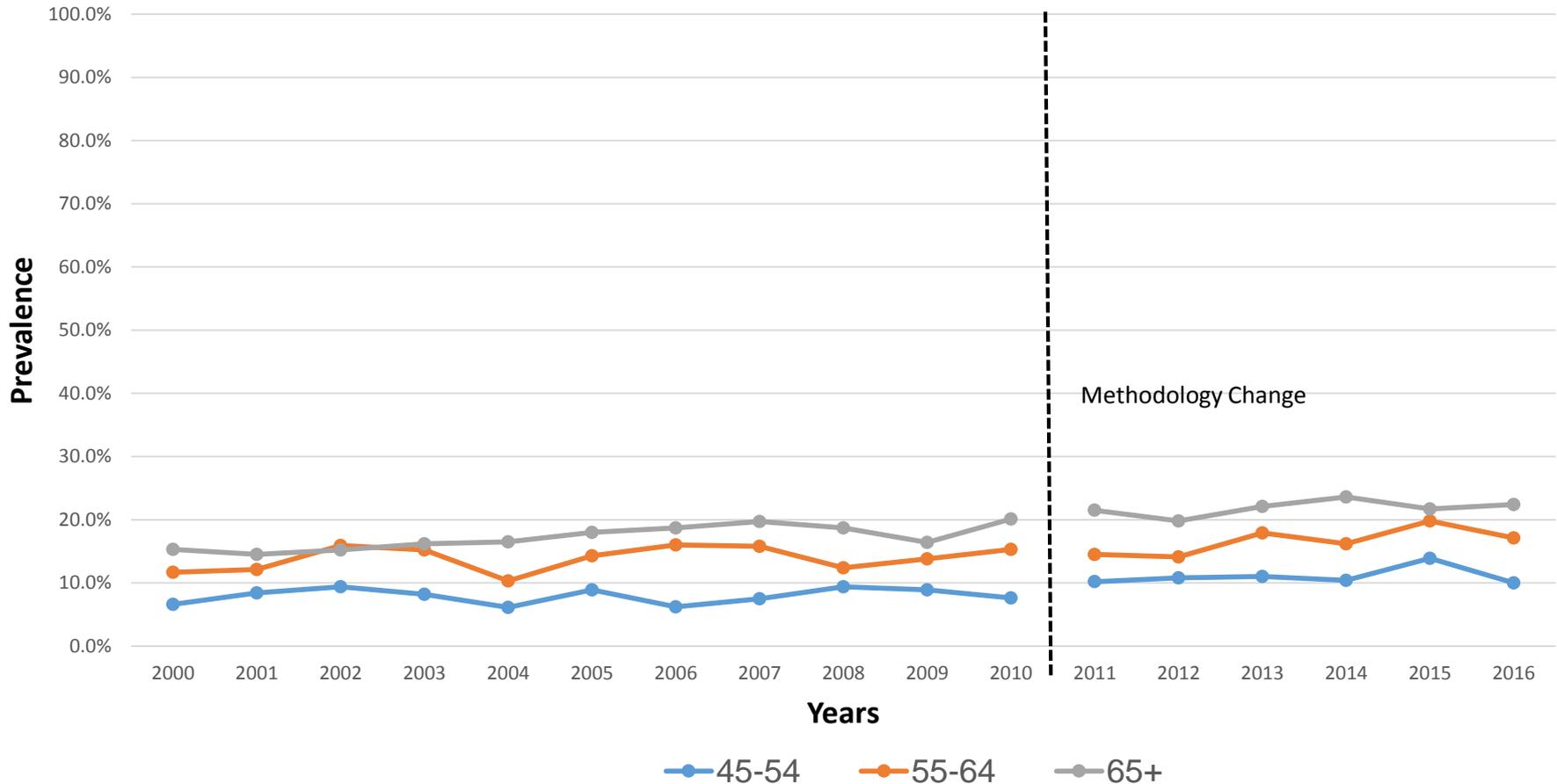


TYPE 2 DIABETES

Prevalence of Delaware Adults Diagnosed with Diabetes, 1995-2016

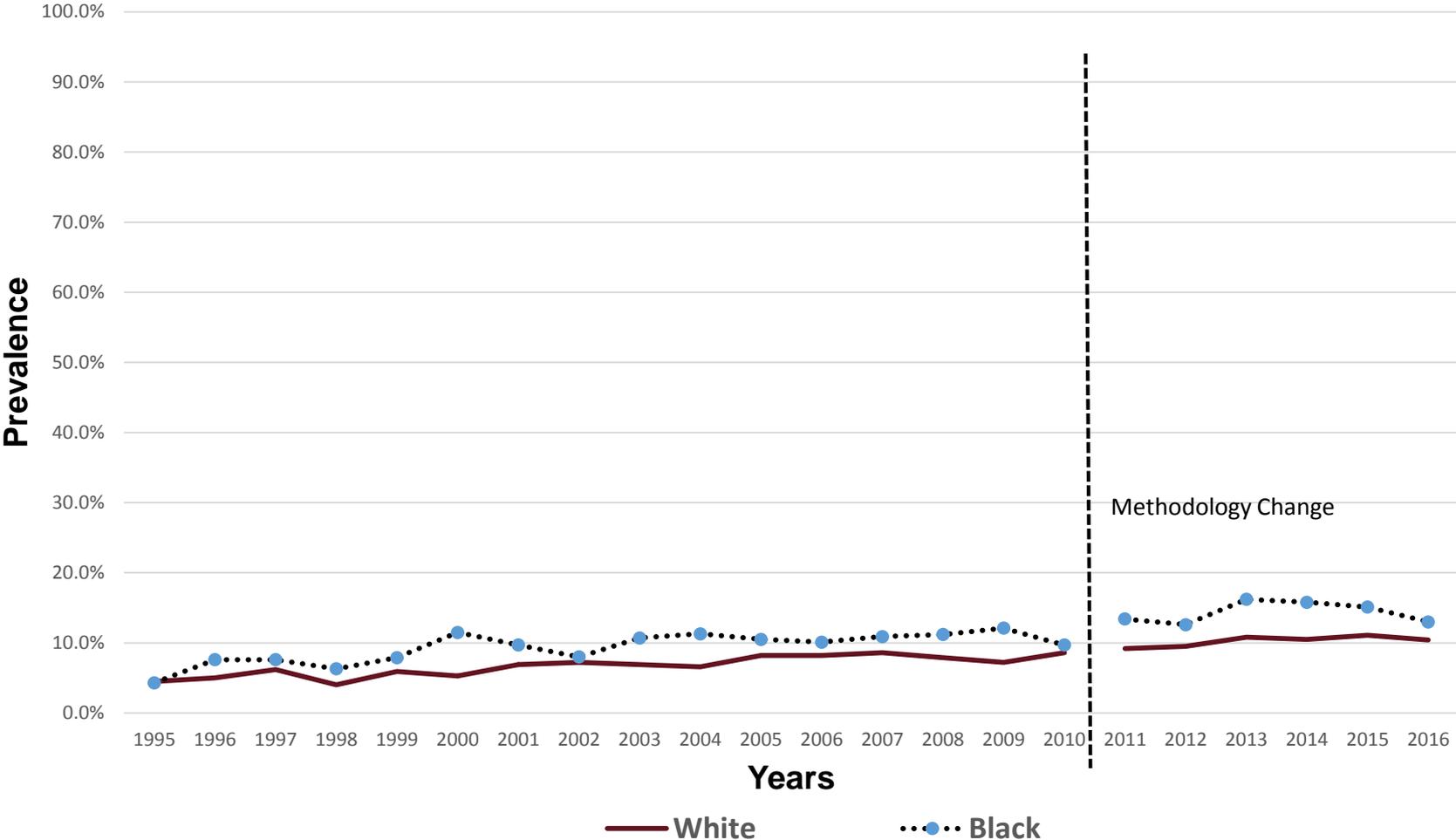


Prevalence of Delaware Adults Diagnosed with Diabetes by Age Group, 2000-2016



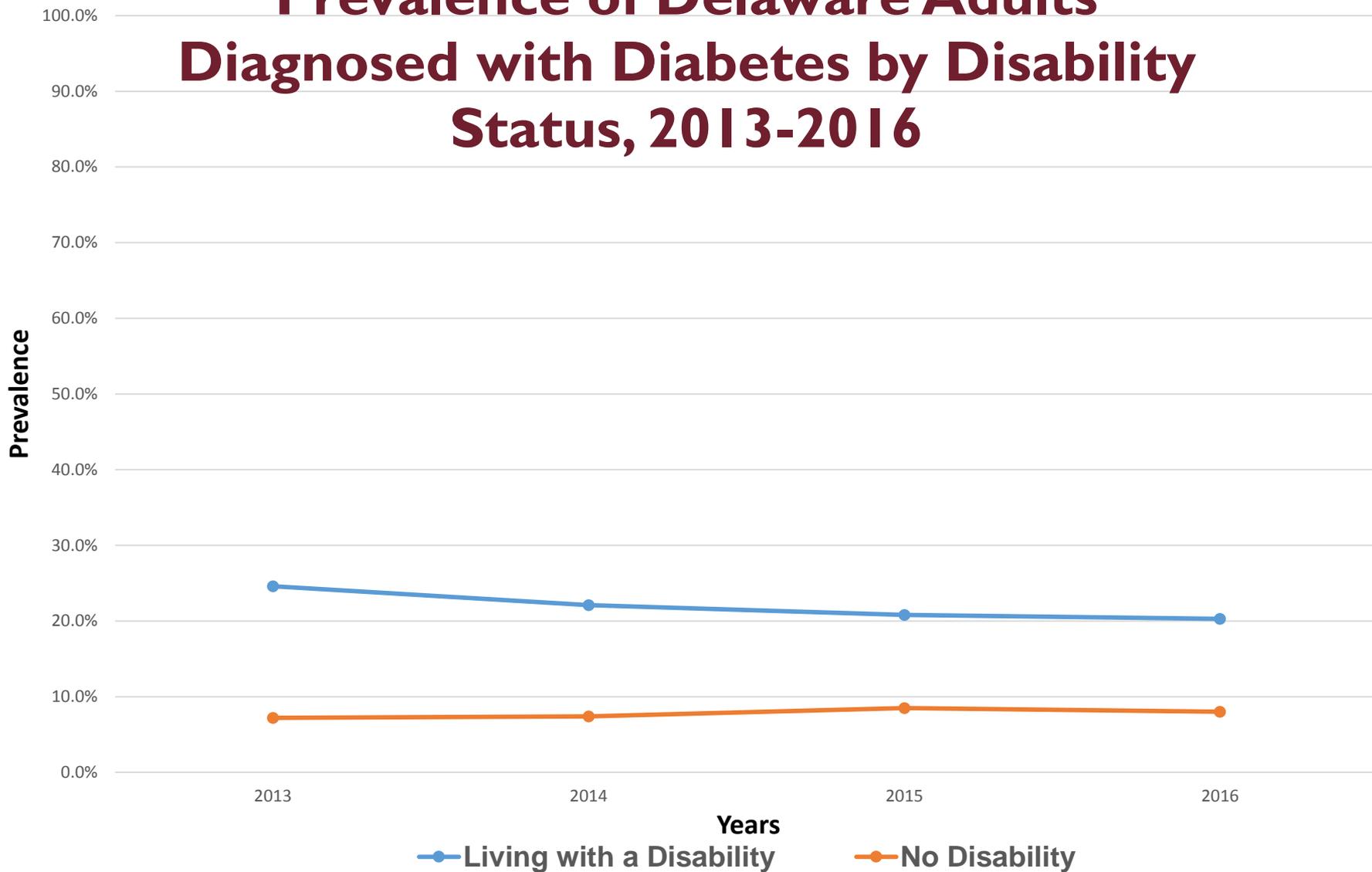
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2000-2016

Prevalence of Delaware Adults Diagnosed with Diabetes by Race, 1995-2016



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 1995-2016

Prevalence of Delaware Adults Diagnosed with Diabetes by Disability Status, 2013-2016

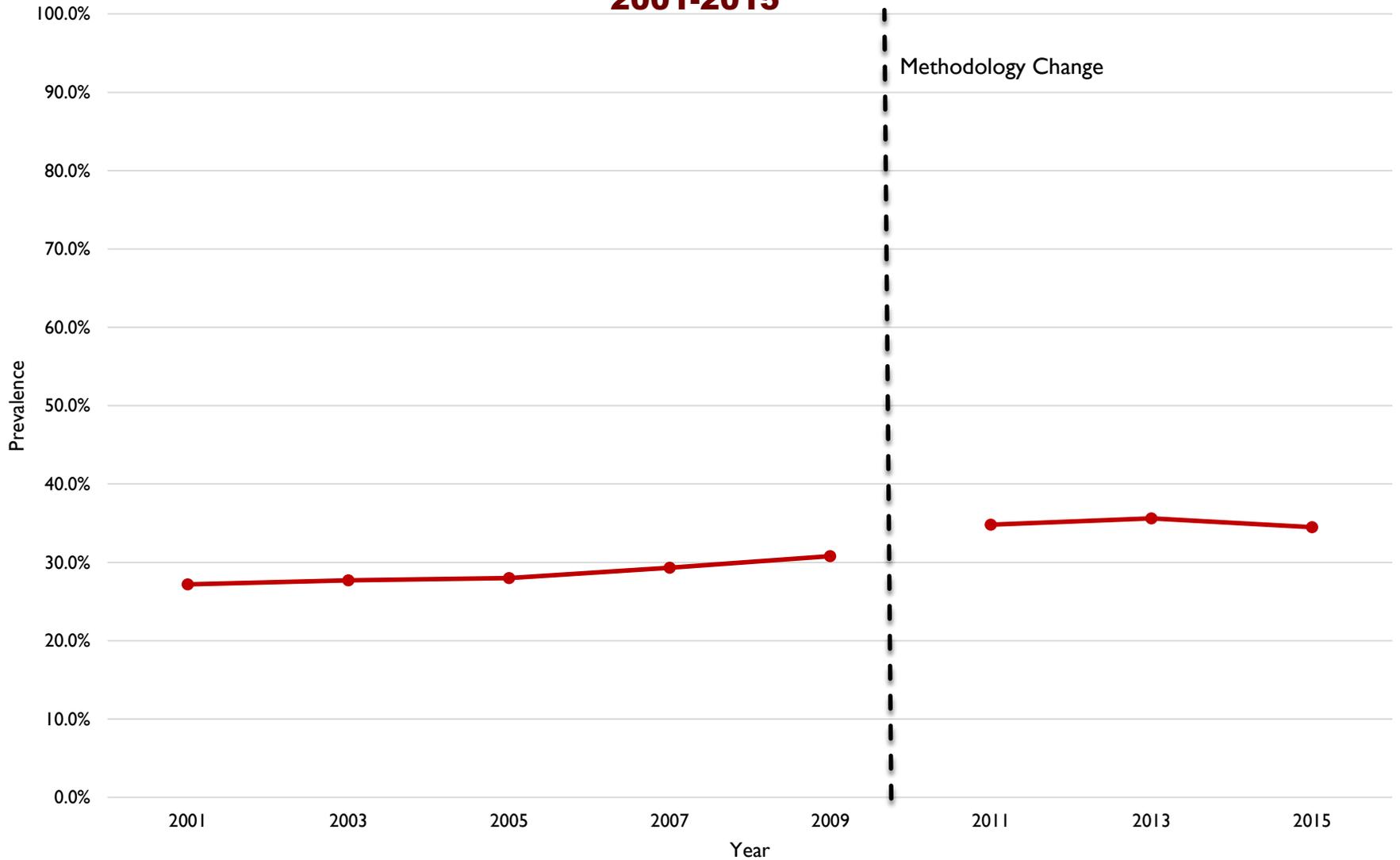


Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2013-2016



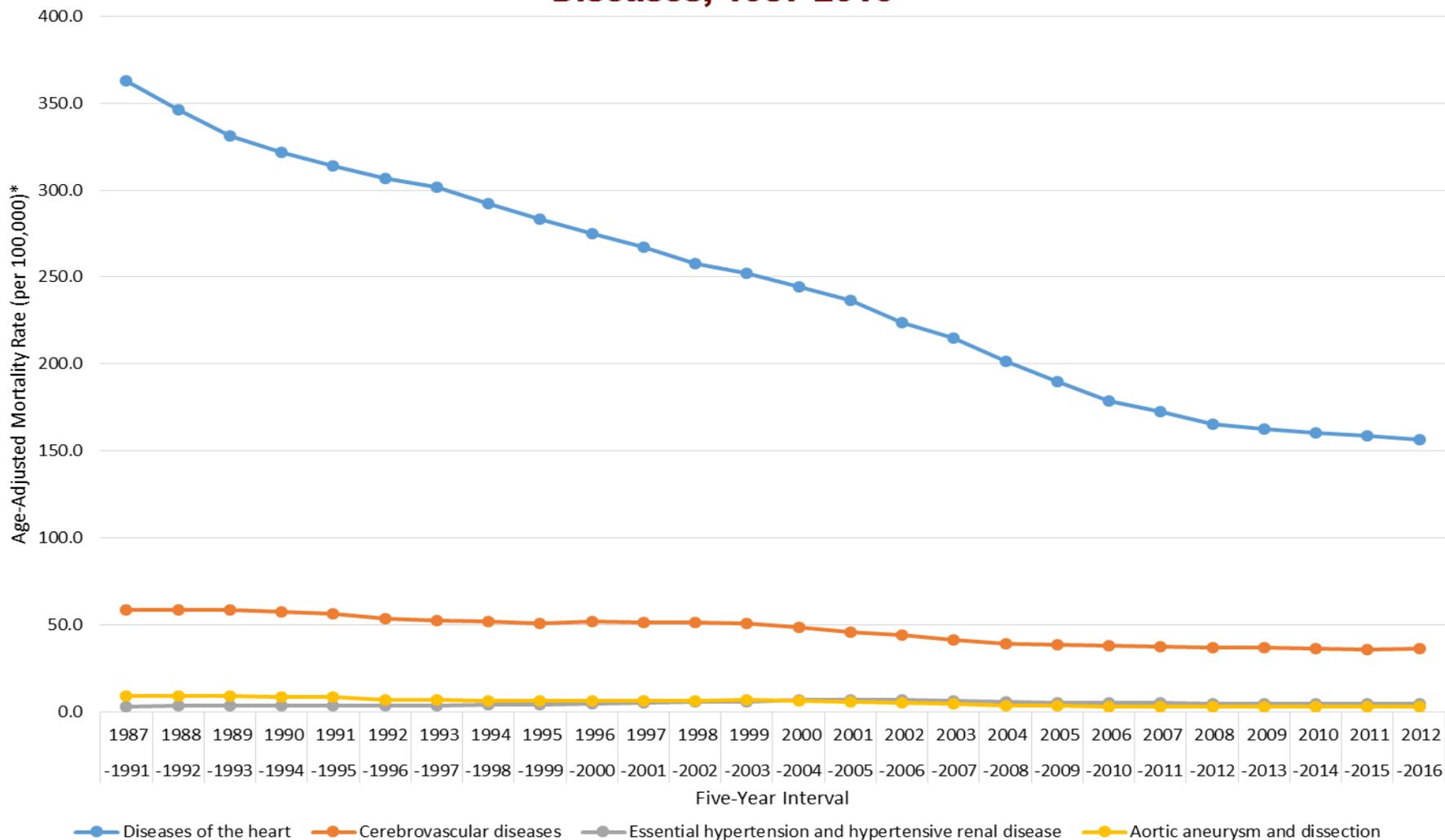
CARDIOVASCULAR DISEASE

Prevalence of Delaware Adults Diagnosed with Hypertension, 2001-2015



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2001-2015

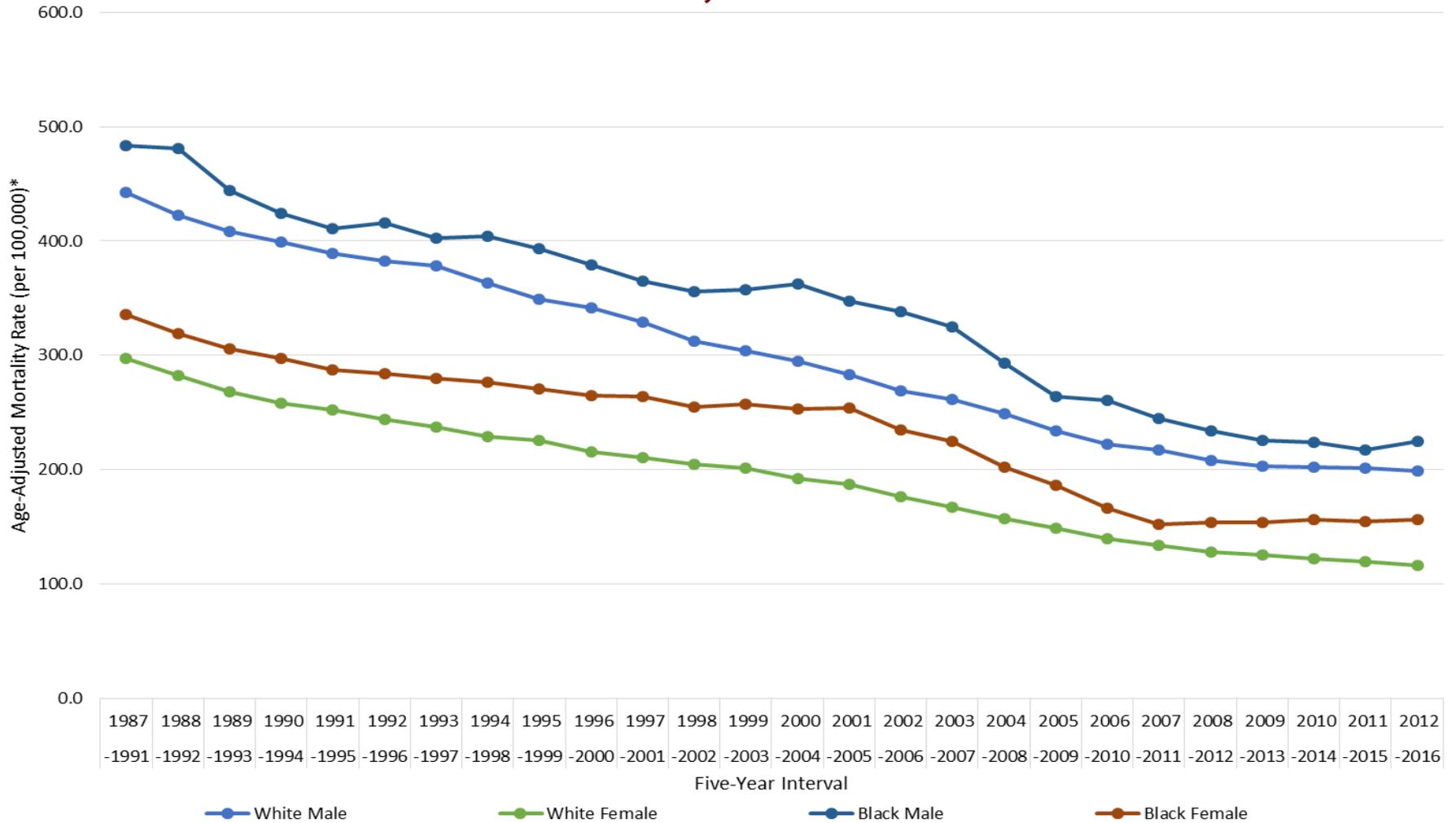
Five-Year Age-Adjusted Mortality Rates for Selected Cardiovascular Diseases, 1987-2016



*Rates per 100,000, adjusted to U.S. 2000 population.

Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

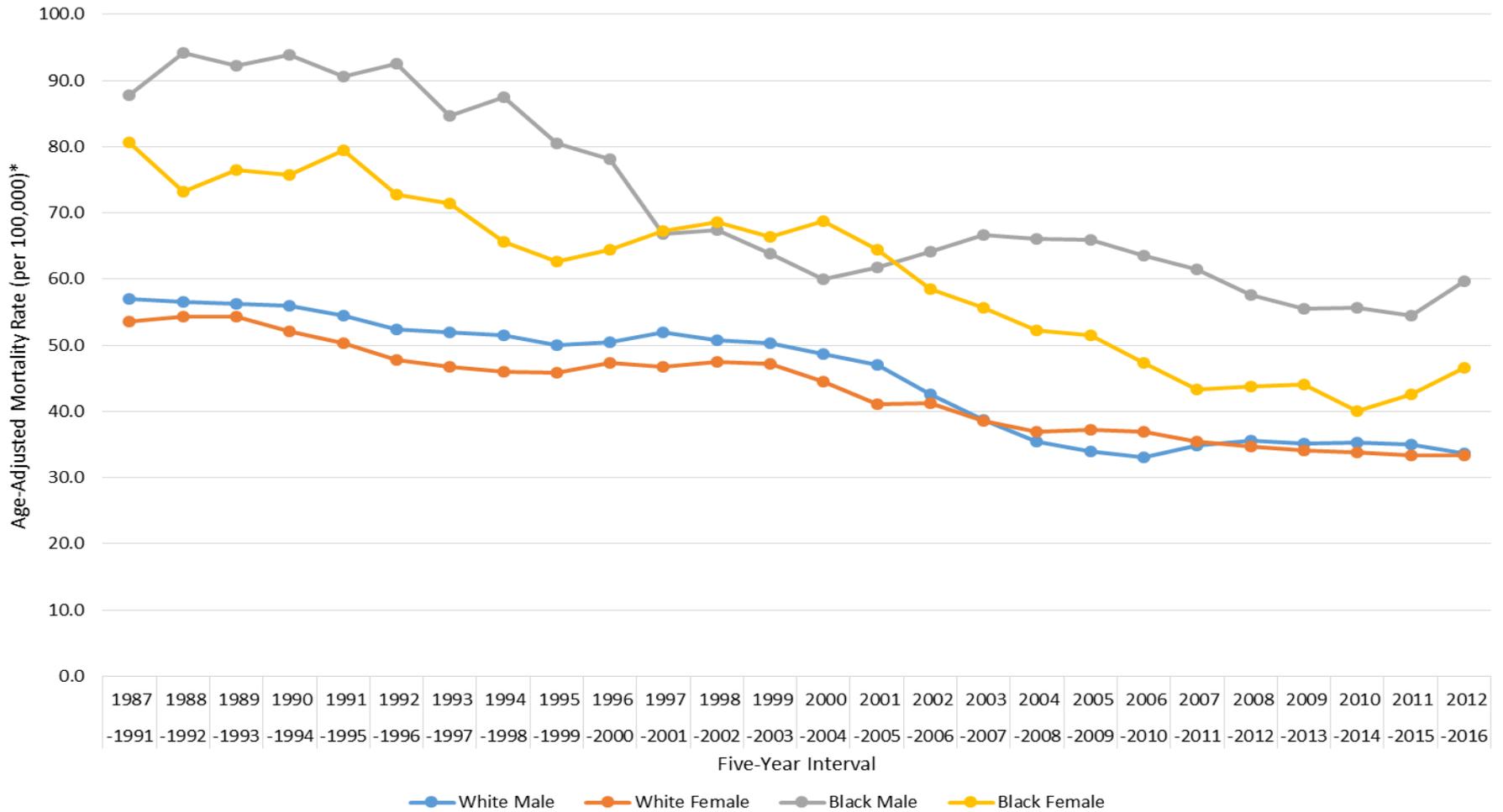
Five-Year Age-Adjusted Mortality Rates for Diseases of the Heart, by Race-Sex, 1987-2016



*Rates per 100,000, adjusted to U.S. 2000 population.

Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

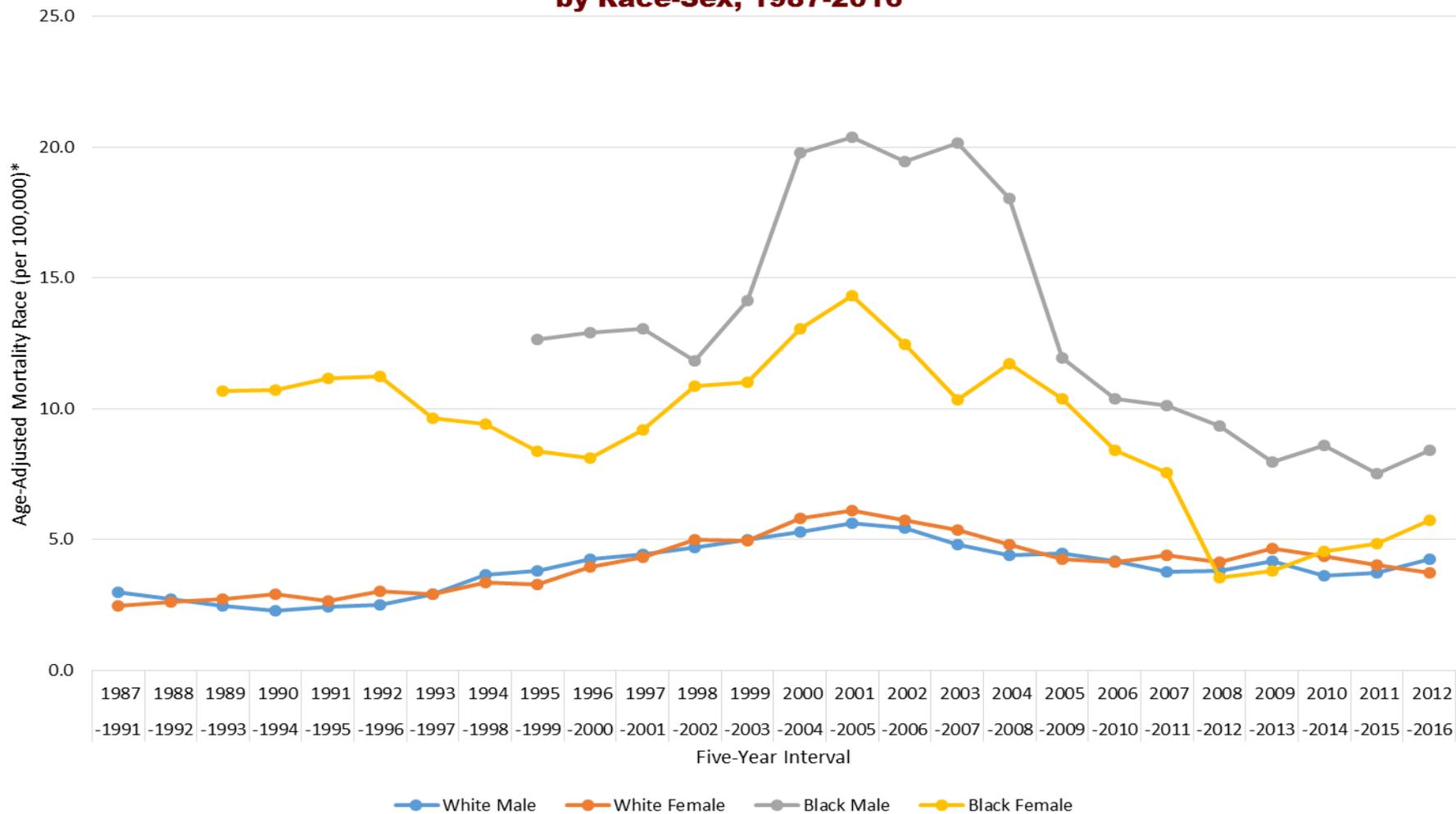
Five-Year Age-Adjusted Mortality Rates for Cerebrovascular Diseases, by Race-Sex, 1987-2016



*Rates per 100,000, adjusted to U.S. 2000 population.

Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Five-Year Age-Adjusted Mortality Rates for Essential Hypertension and Hypertensive Renal Disease, by Race-Sex, 1987-2016



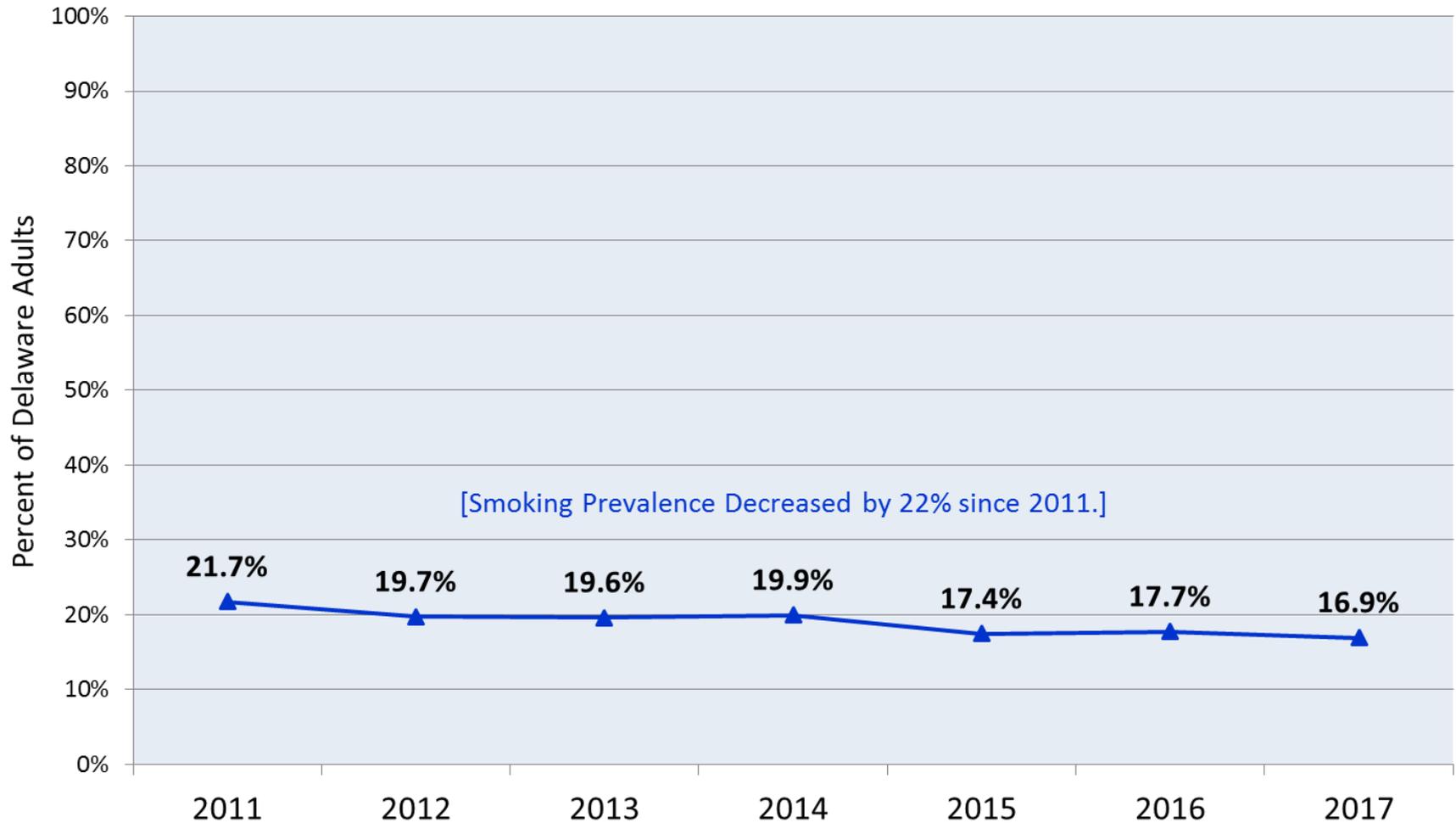
*Rates per 100,000, adjusted to U.S. 2000 population.

Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center



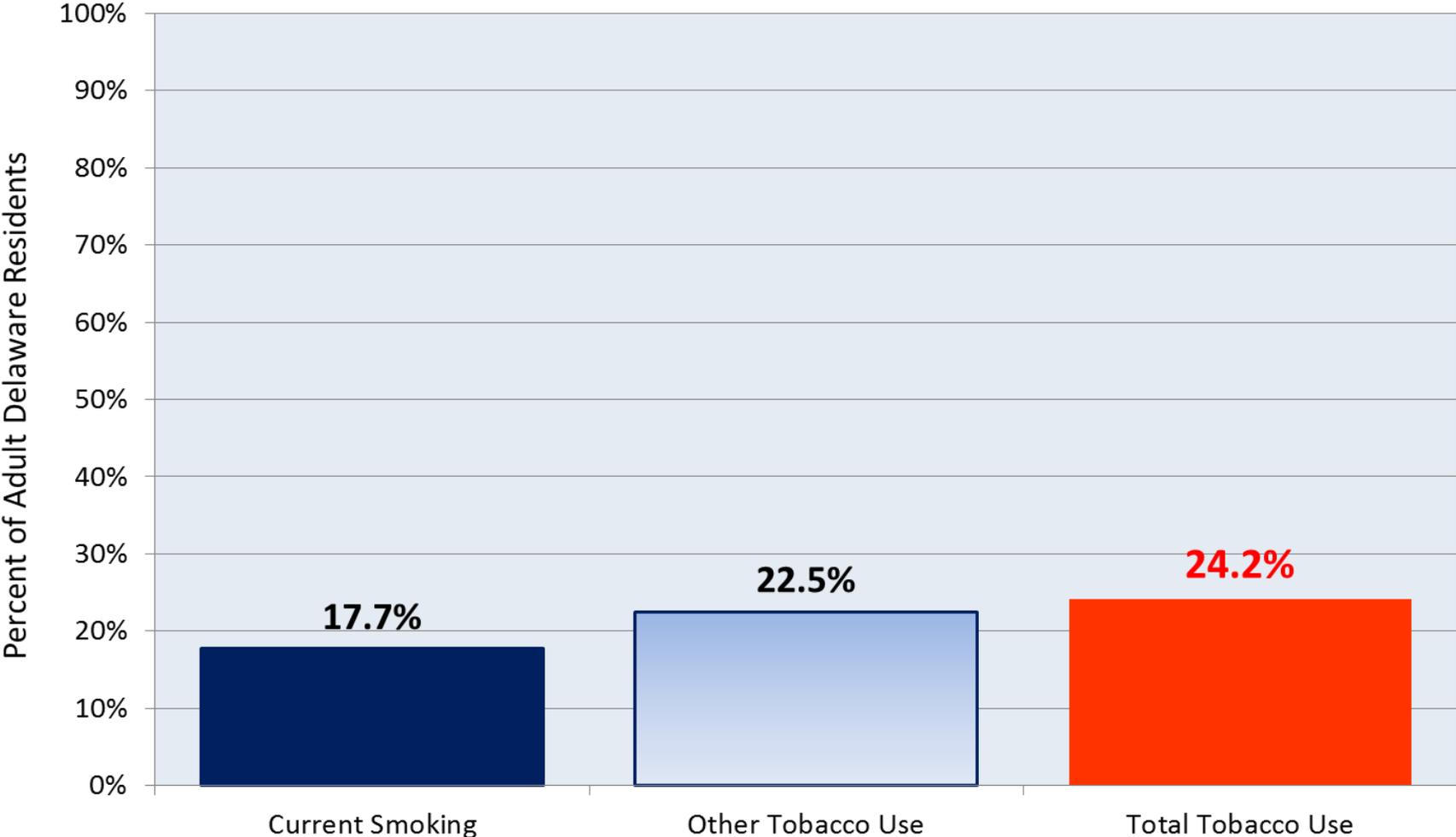
TOBACCO USE

Delaware Adult Cigarette Smoking Prevalence, 2011-2017



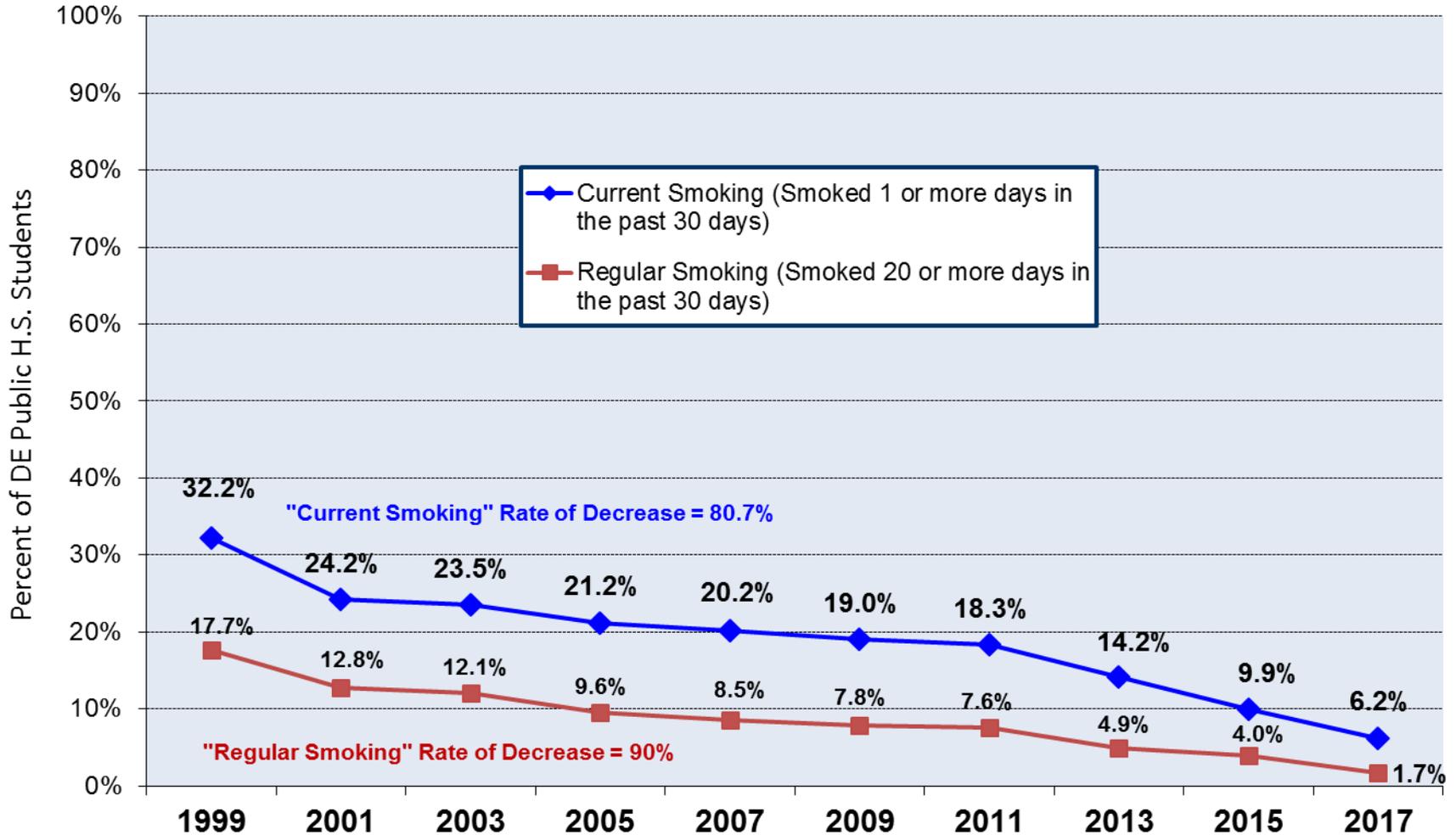
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2011-2017.
New baseline in 2011, due to change in methodology to multi-mode survey and new weights.

Delaware Adult Cigarette Smoking, Other Tobacco Use, & Total Tobacco Use, 2016



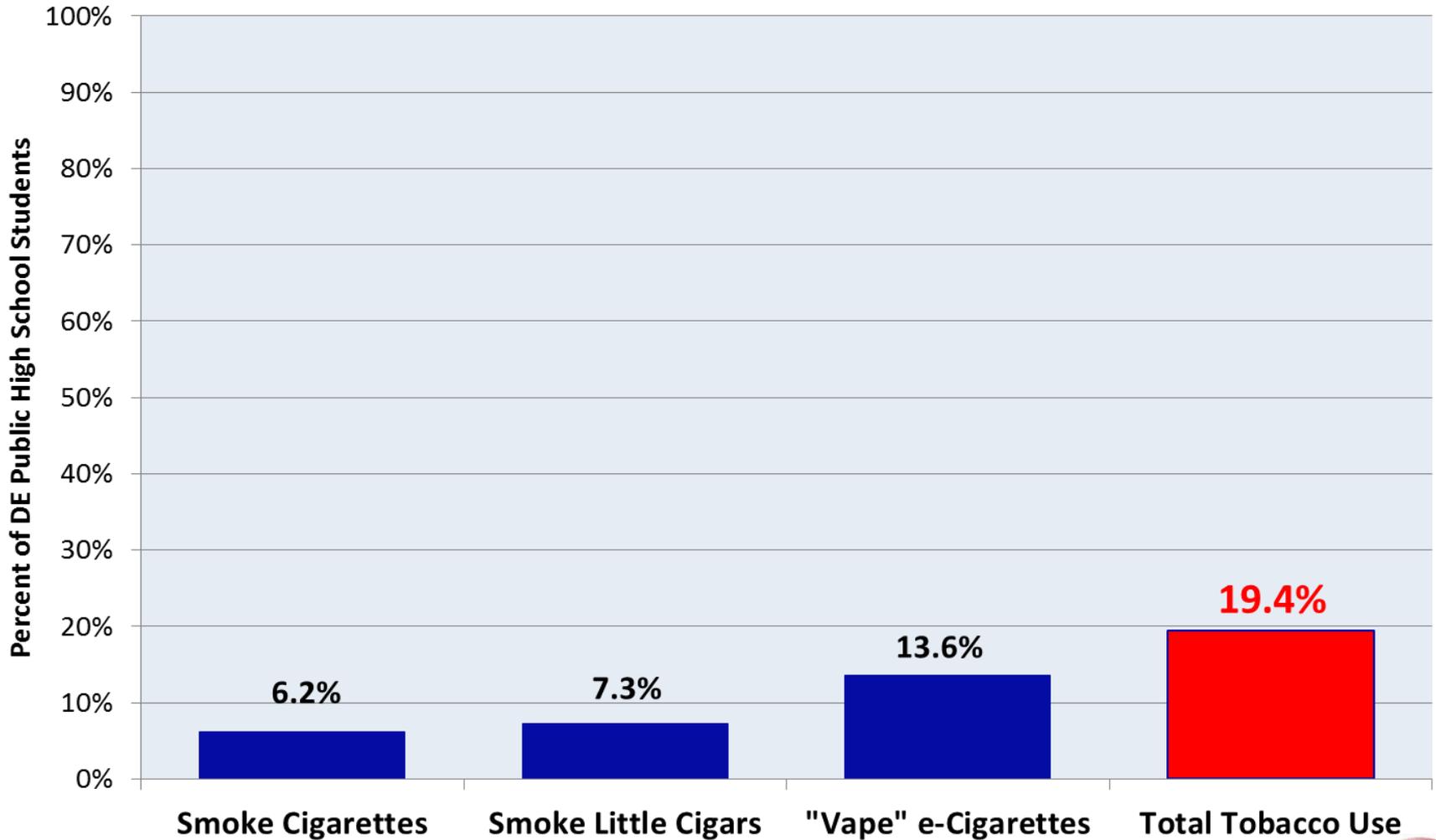
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2016

Prevalence of Current Cigarette Smoking Decreased Steadily Among Delaware High School Students from 1999-2017



Source: DHSS, Division of Public Health, Youth Risk Behavior Survey (YRBS), 1999-2017

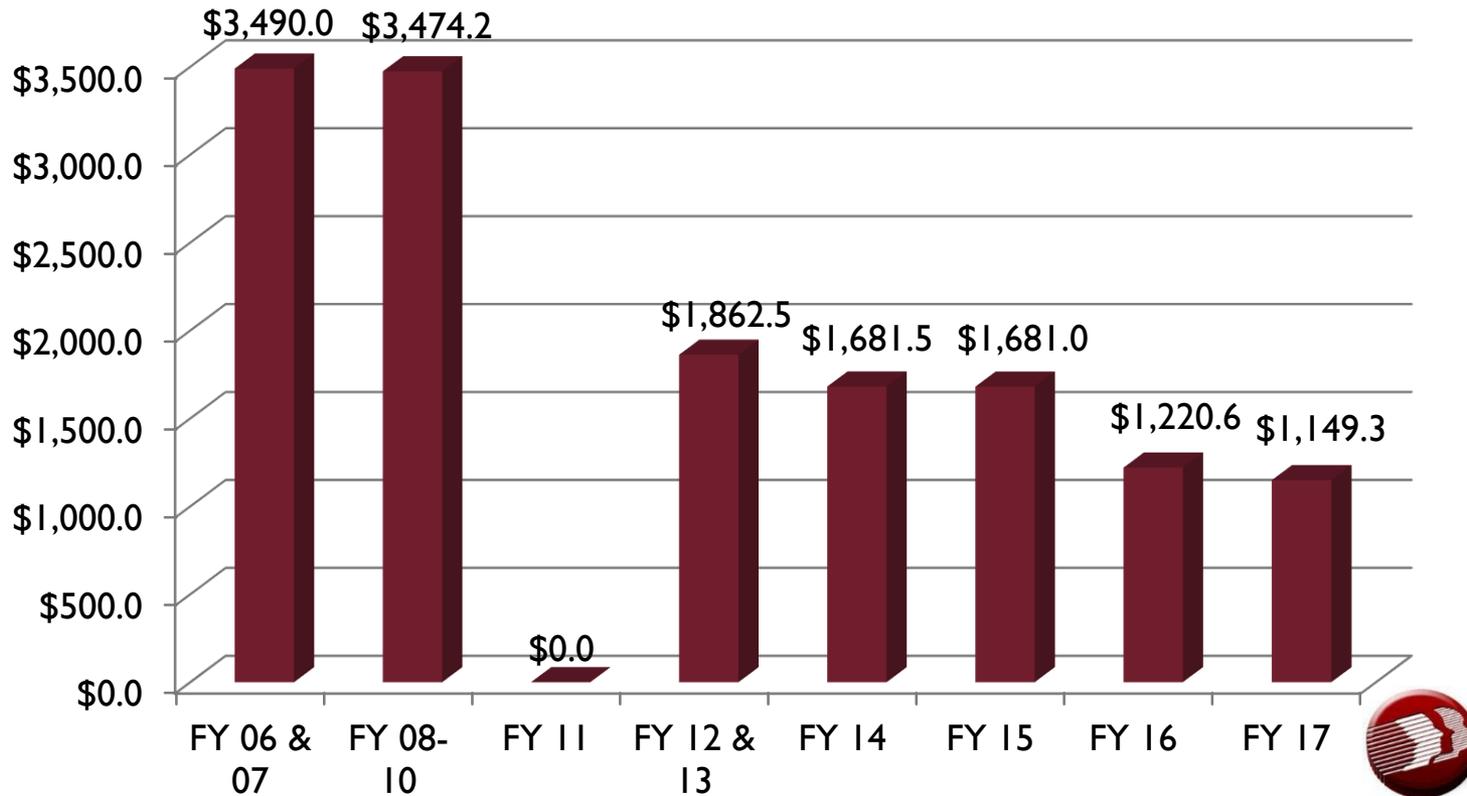
Current Tobacco Use Among Delaware High School Students & Total Tobacco Use, Delaware, 2017



Source: DHSS, Division of Public Health, Youth Risk Behavior Survey (YRBS), 2017.



Division of Public Health Tobacco Settlement Funding from the Delaware Health Fund for Community-Based Organizations (Thousands \$)



Does Not Include Personnel Costs

THE COSTS OF TOBACCO USE IN DELAWARE

- 1,400 Delawareans die each year from tobacco use.
- 17,000 children now <18 years old will die prematurely from smoking.
- \$532 million in annual health care costs directly caused by smoking.
 - \$95.6 million are Medicaid costs.
- \$391.2 million in annual smoking-caused productivity losses.



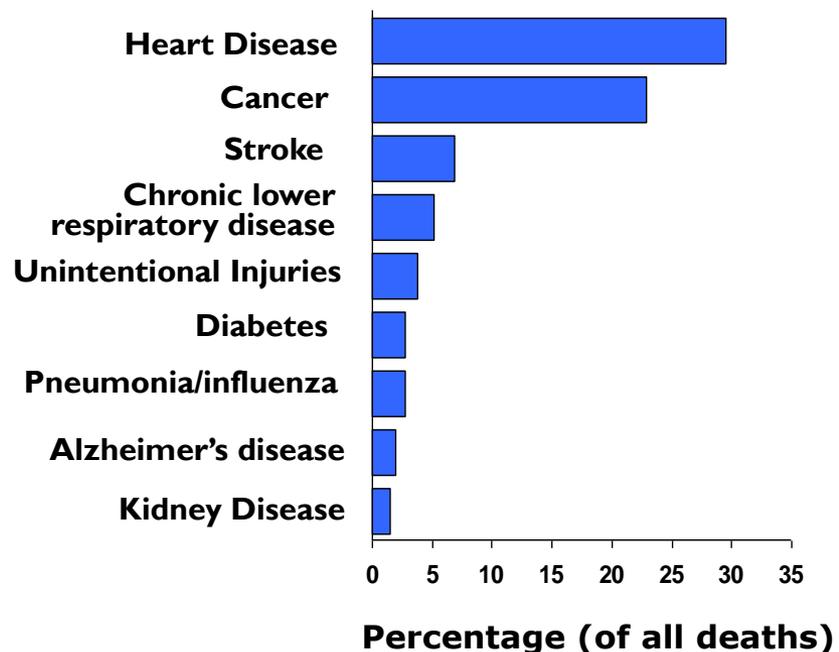
Sources: Behavioral Risk Factor Survey (BRFS) of adults, the Youth Risk Behavior Survey (YRBS) and Youth Tobacco Survey (YTS) of youth, the Smoking Attributable Morbidity, Mortality and Economic Costs (SAMMEC) study, and Delaware vital statistics mortality data.



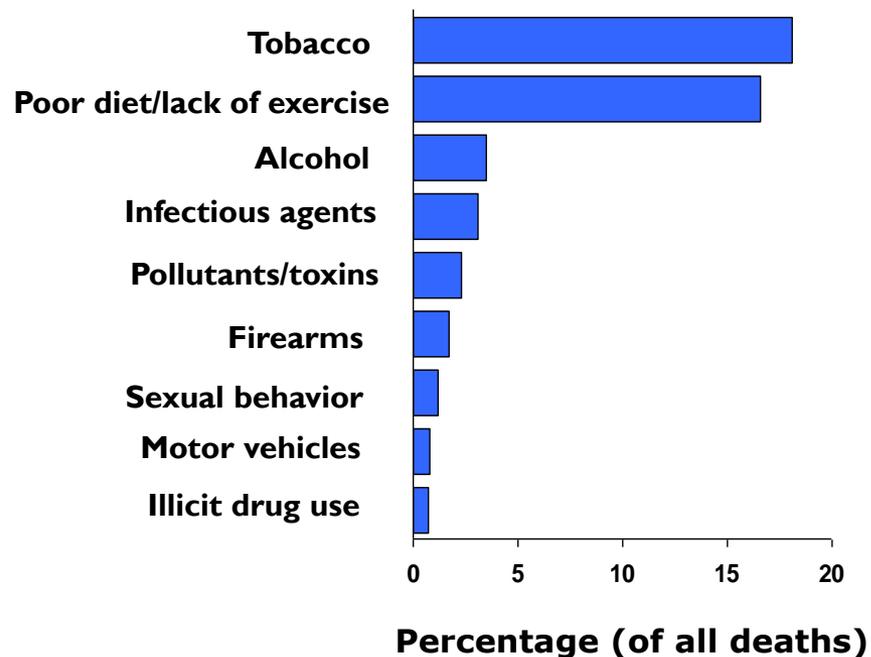
CHRONIC DISEASES AND RELATED RISK FACTORS IN THE UNITED STATES

Chronic Diseases and Related Risk Factors in the United States

Leading Causes of Death*



Actual Causes of Death†



* National Center for Health Statistics. Mortality Report. Hyattsville, MD: US Department of Health and Human Services; 2002

† Adapted from McGinnis Foege, updated by Mokdad et. al.

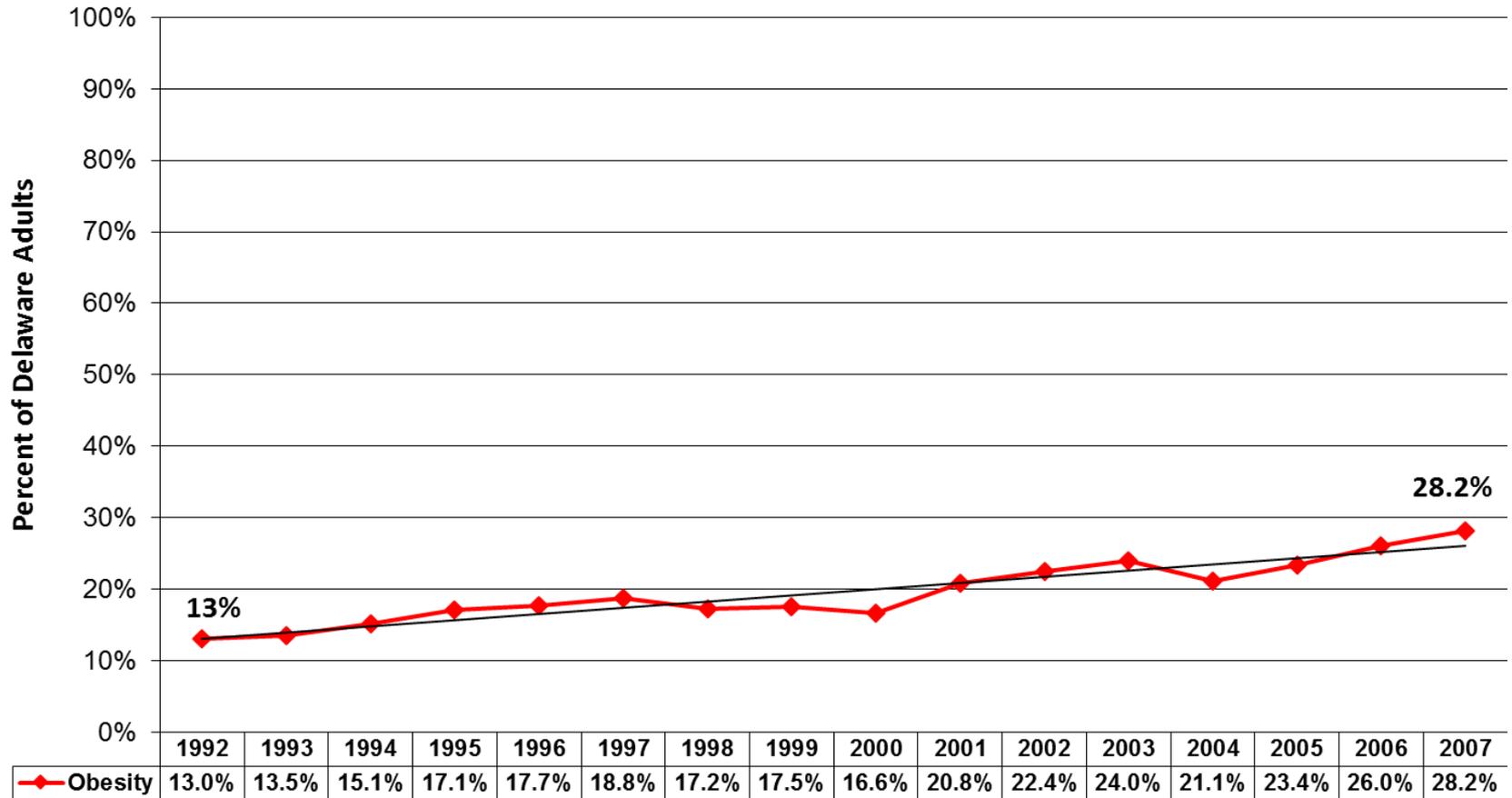


OBSESITY/OVERWEIGHT

- **Obesity:** 20.8 percent of obese Delaware adults have diabetes, compared to 3 percent of normal weight Delaware adults.
- **Overweight:** 8.4 percent of overweight Delaware adults have diabetes, compared to 3 percent of normal weight Delaware adults.



Obesity Doubled Among Delaware Adults Between 1992 and 2007



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 1992-2011.



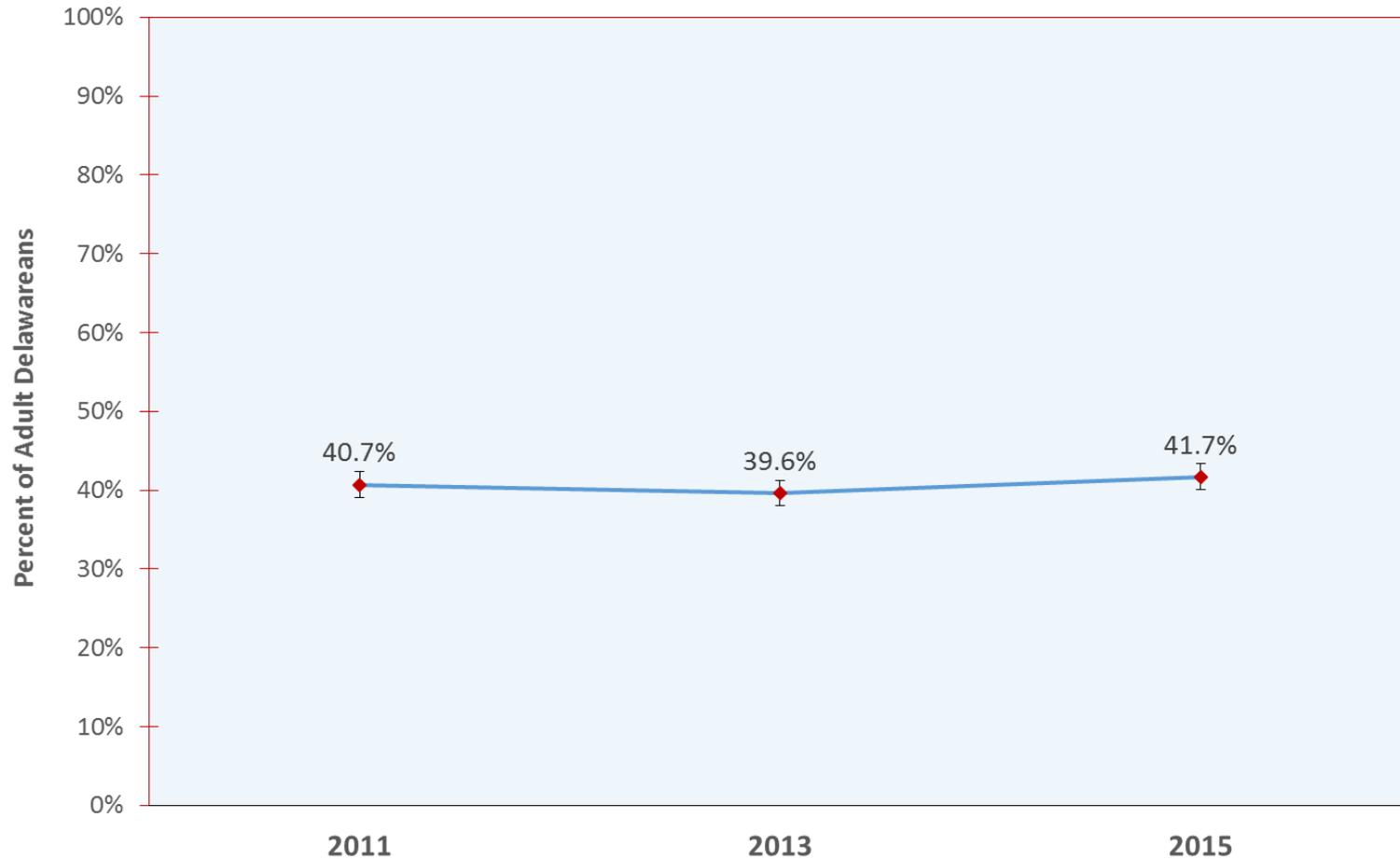
Obesity Among Delaware Adults: No Significant Change from 2007 - 2016



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2007-2016.



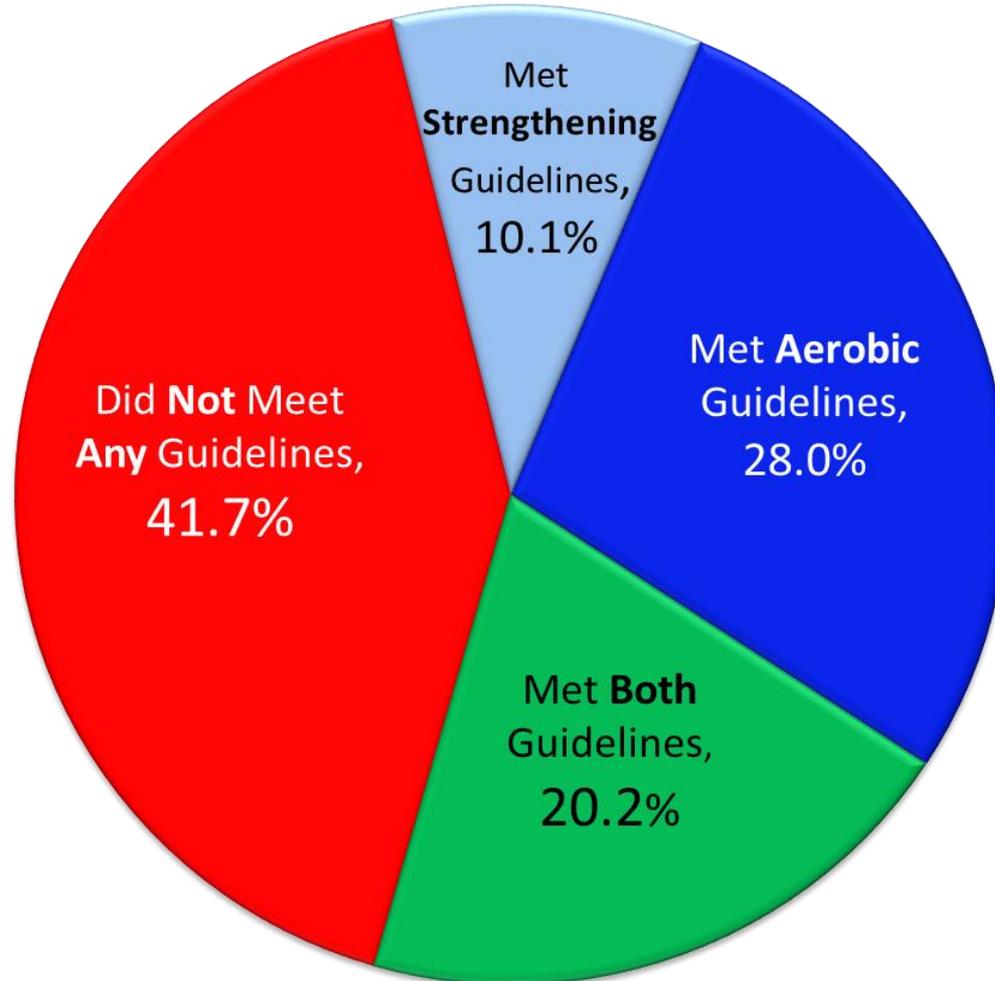
Delaware Adults Who Did NOT Meet CDC Physical Activity Guidelines, 2011-2015



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2011-2015.



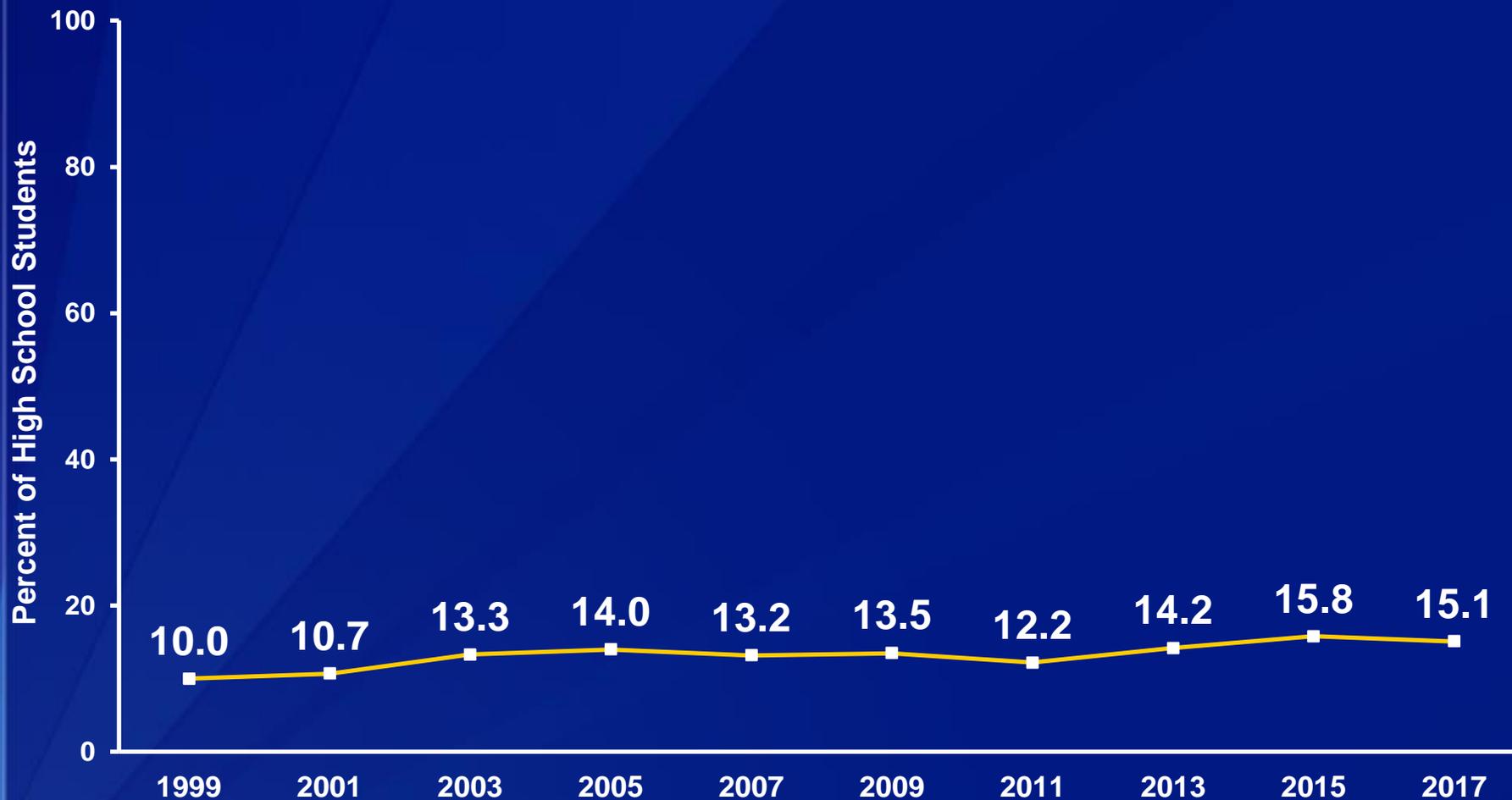
Percent of Delaware Adults Who Met CDC Guidelines for Physical Activity, 2015



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2015.

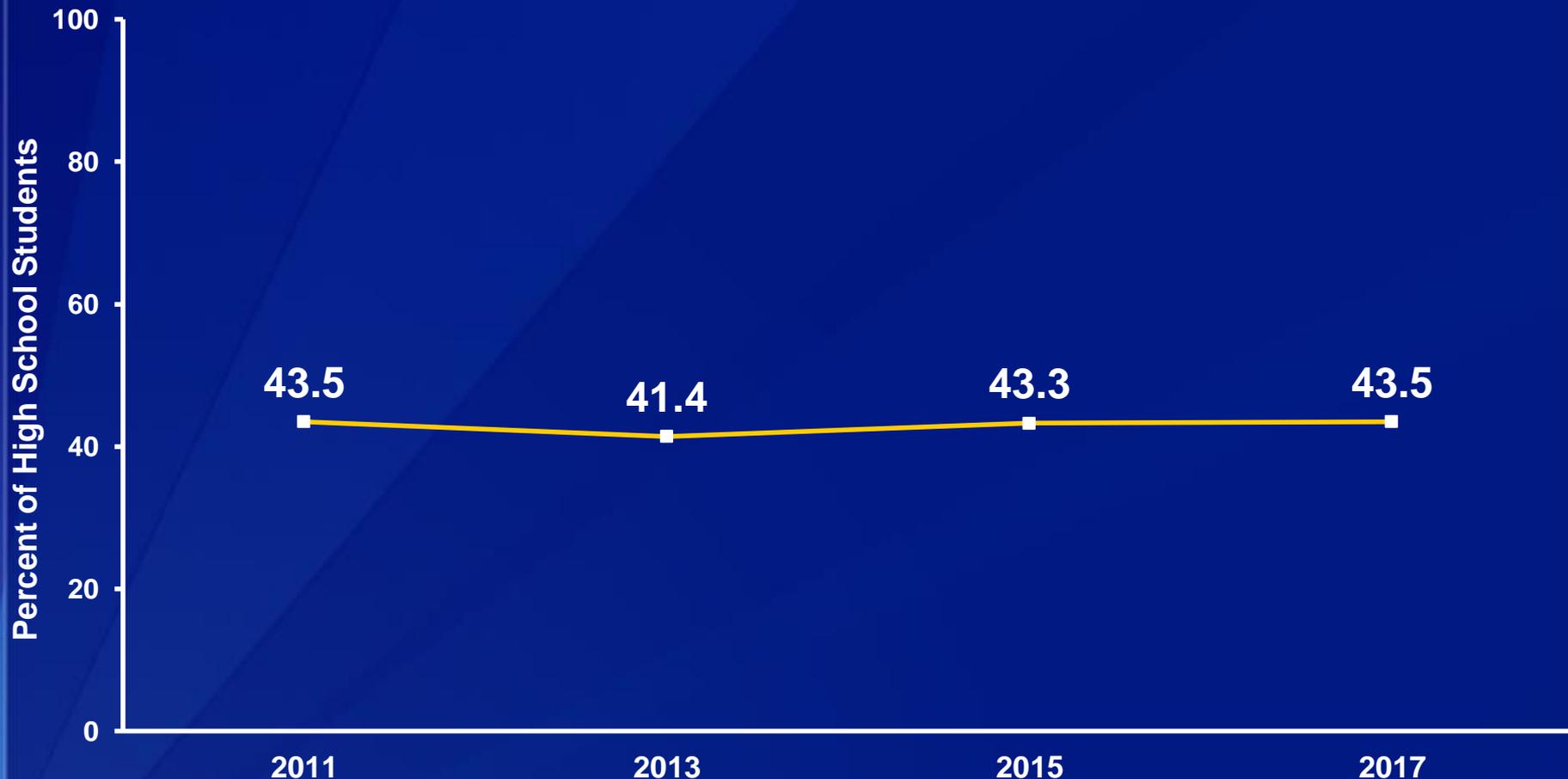


Percentage of Delaware High School Students Who Reported BMIs Considered Obese,* 1999-2017†



* \geq 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts. In 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Percentage of Delaware High School Students Who Were Physically Active at Least 60 Minutes Per Day on 5 or More Days,* 2011-2017†

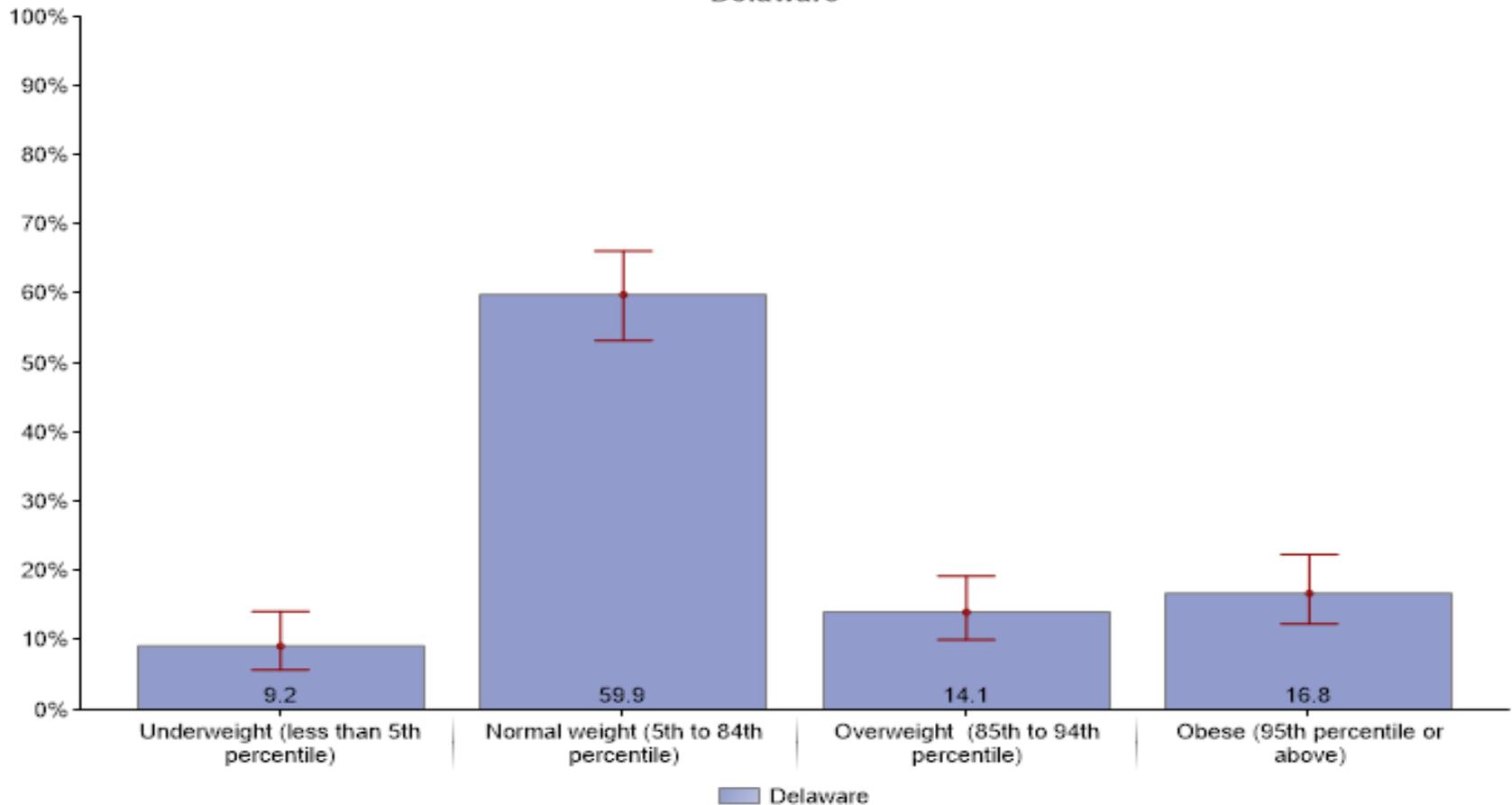


*In any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey

†No change 2011-2017 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$).]

Weight Status for High School and Younger Students, 2016, from National Survey Of Children's Health

Weight status of the child based on Body Mass Index for age
Children age 10-17 years
Delaware



CHILDREN FROM AGES 6-17 WHO EXERCISE ACCORDING TO THE CDC RECOMMENDATIONS

- **Survey:** 2016 National Survey of Children's Health
- **State/Region:** Delaware
- **Question:** Physical activity, age 6-17 years

During the past week, on how many days did this child exercise, play a sport, or participate in physical activity for at least 60 minutes, age 6-17 years?

	0 days	1-3 days	4-6 days	Every day	Total %
%	14.2%	42.2%	21.7%	21.9%	100.0
C.I.	(10.5 - 18.9)	(36.8 - 47.8)	(18.0 - 25.9)	(17.7 - 26.8)	
Sample Count	79	252	168	133	
Pop. Est.	18,703	55,539	28,503	28,860	

C.I. = 95% Confidence Interval.

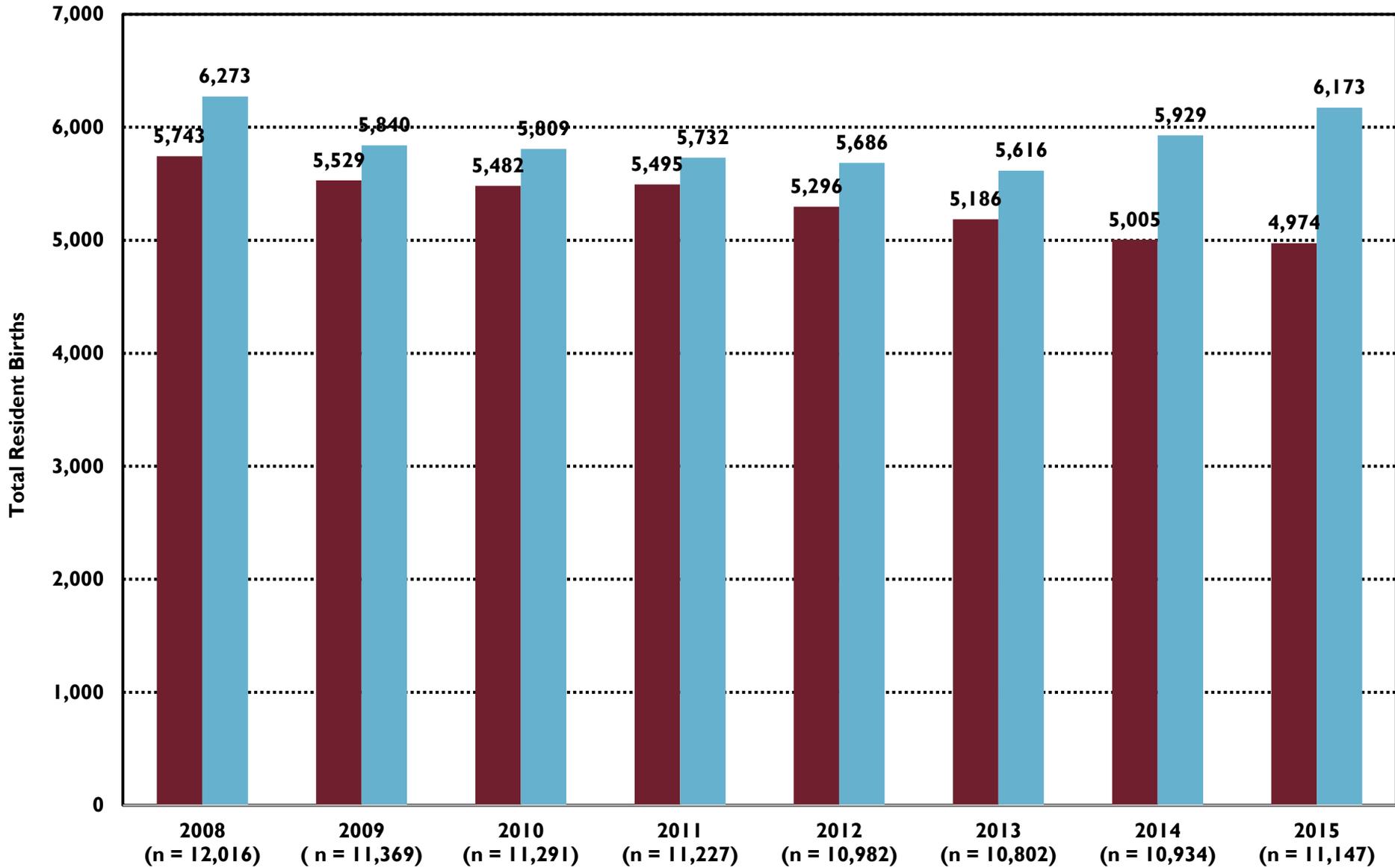
Percentages and population estimates (Pop.Est.) are weighted to represent child population in US.



BIRTHS, TEEN BIRTHS, UNINTENDED PREGNANCY, INFANT MORTALITY

Delaware Resident Births by Payer, 2008-2015

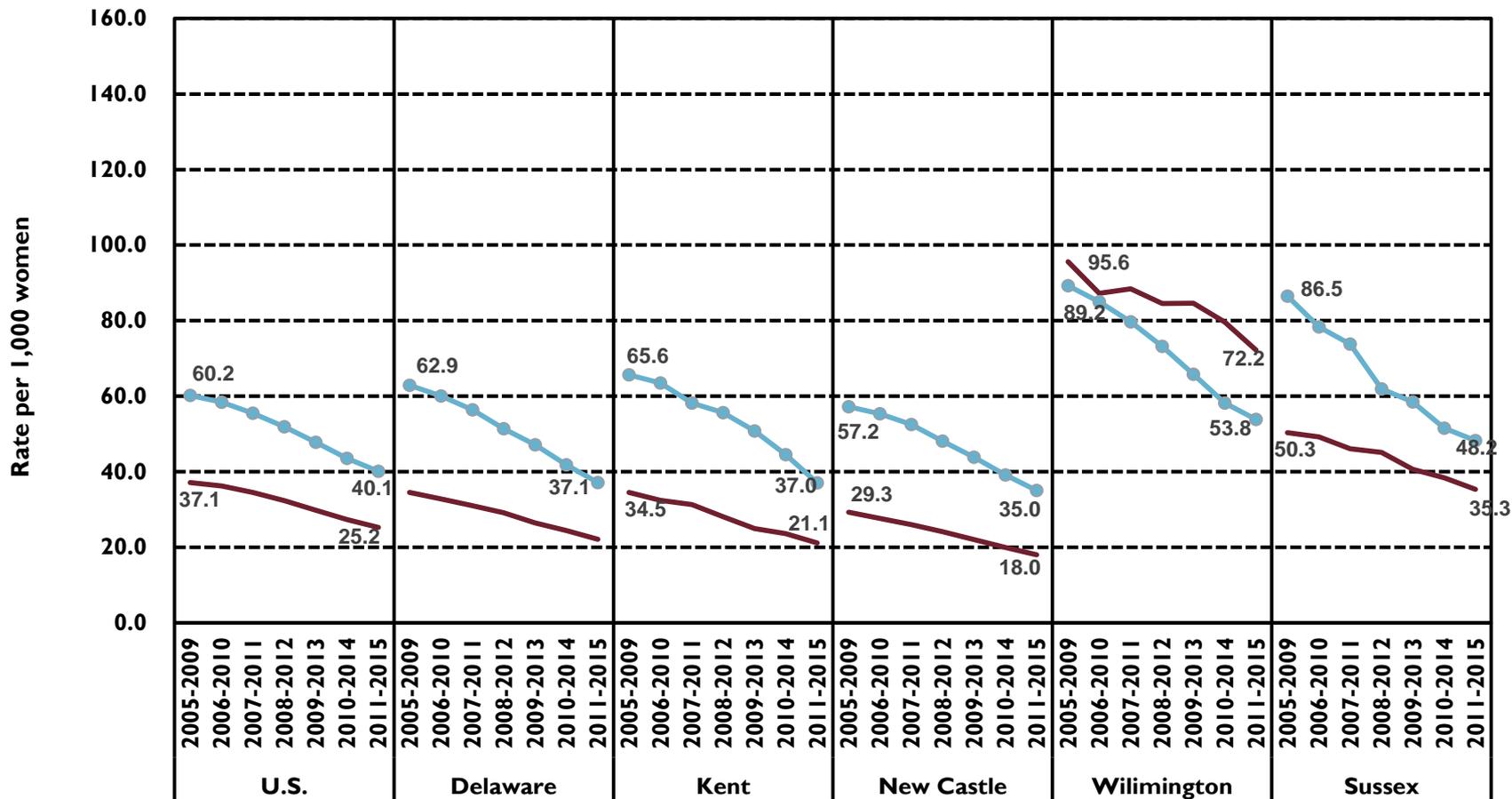
■ Medicaid ■ Non-Medicaid



Source: Delaware Health and Social Services, Division of Public Health, Vital Statistics Data, 2001-2015.

Five-Year Teen Birth Rates, 15-19 Years, by Race, Delaware, 2005-2015

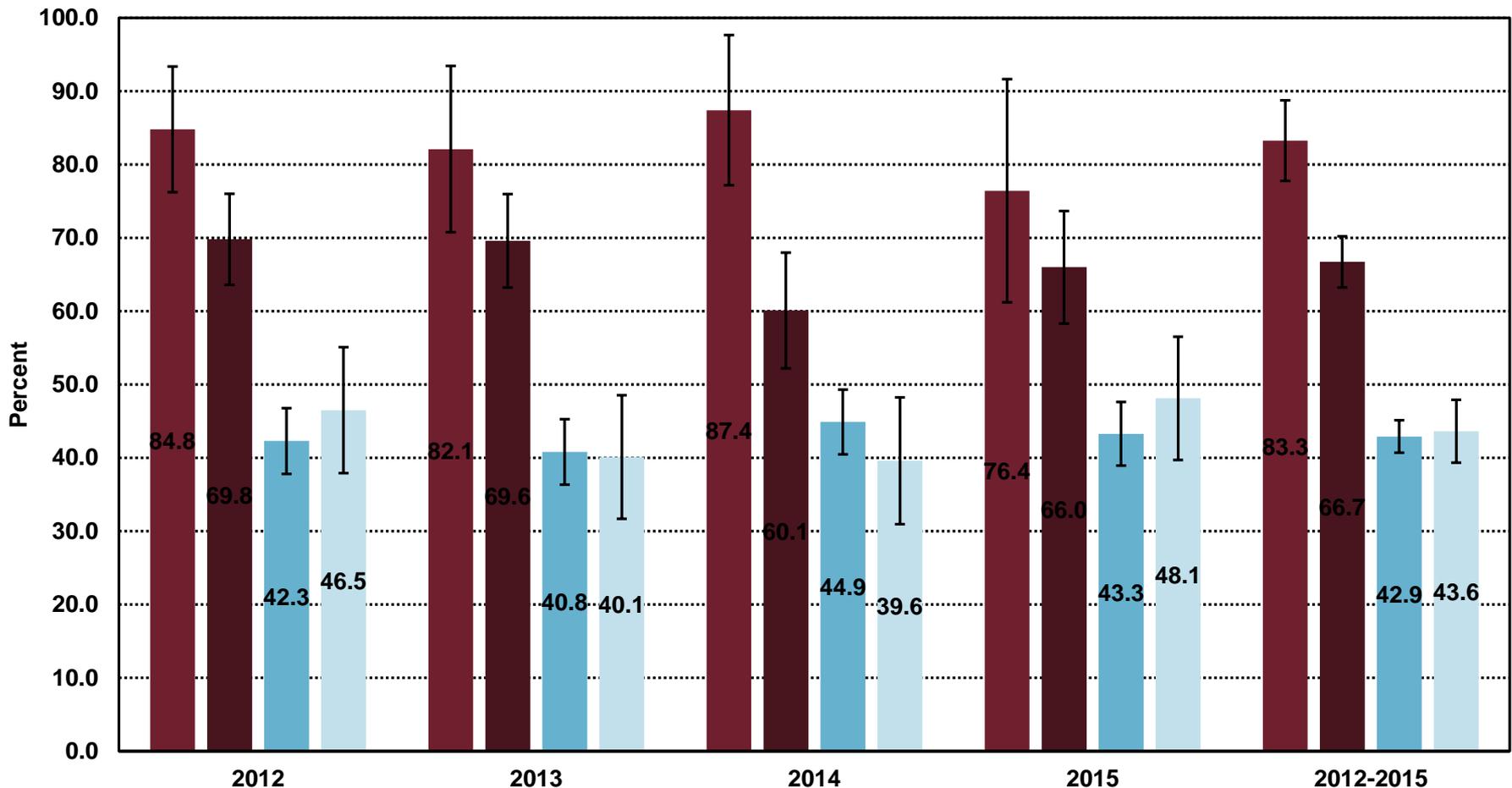
— White ● Black



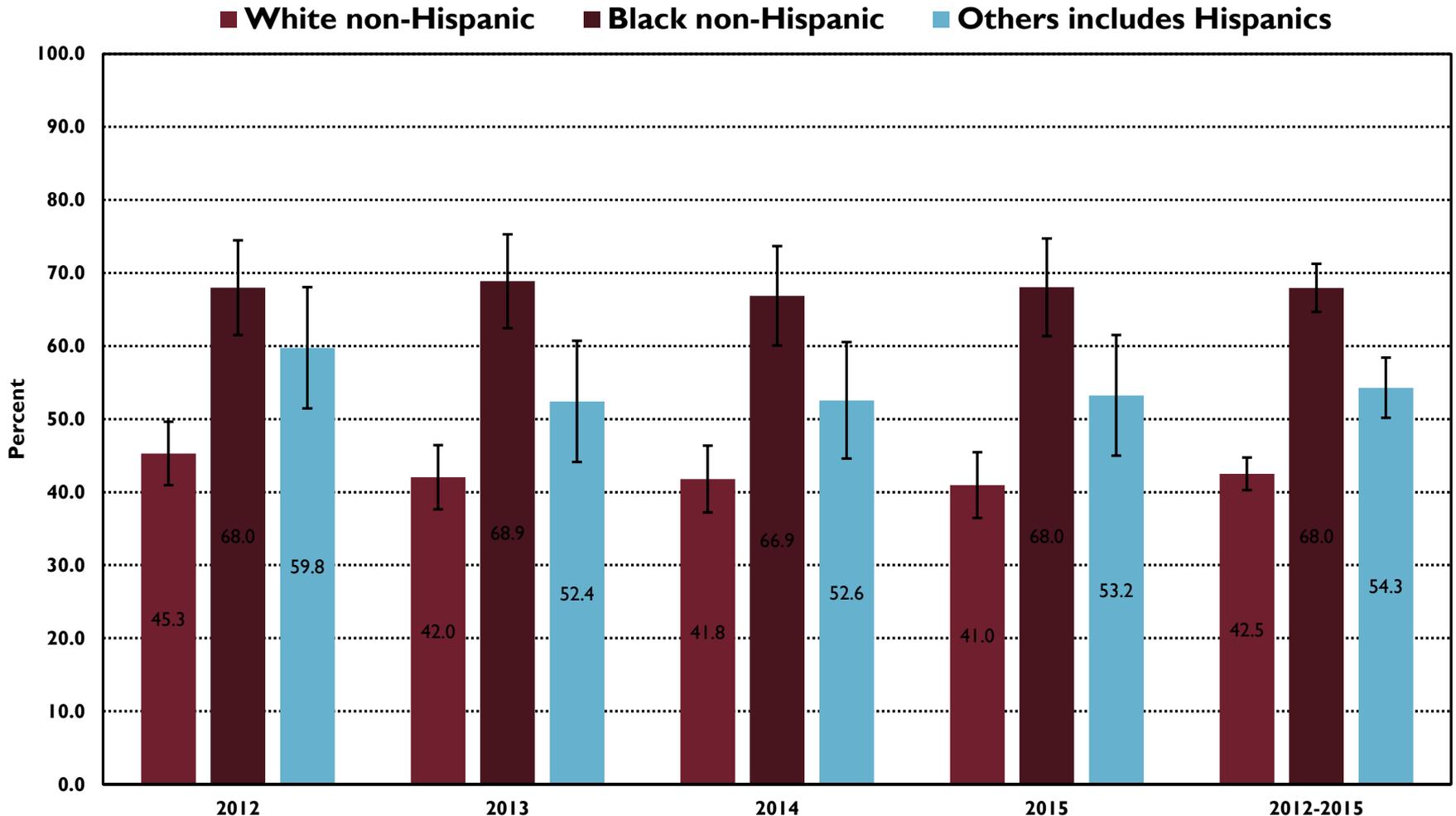
Source: Delaware Health and Social Services, Division of Public Health, Vital Statistics Data, 2001-2015. (See FYATEEN vital statistics)

Percent of Delaware Women with 95% Confidence Interval (CI) Who Indicated That Their Pregnancy Was Unintended, by Age, 2012-2015

■ <20 years ■ 20-24 years ■ 25-34 years ■ 35 years and older



Percent of Delaware Women with 95% Confidence Interval (CI) Who Indicated That Their Pregnancy Was Unintended, by Race and Ethnicity, 2012-2015

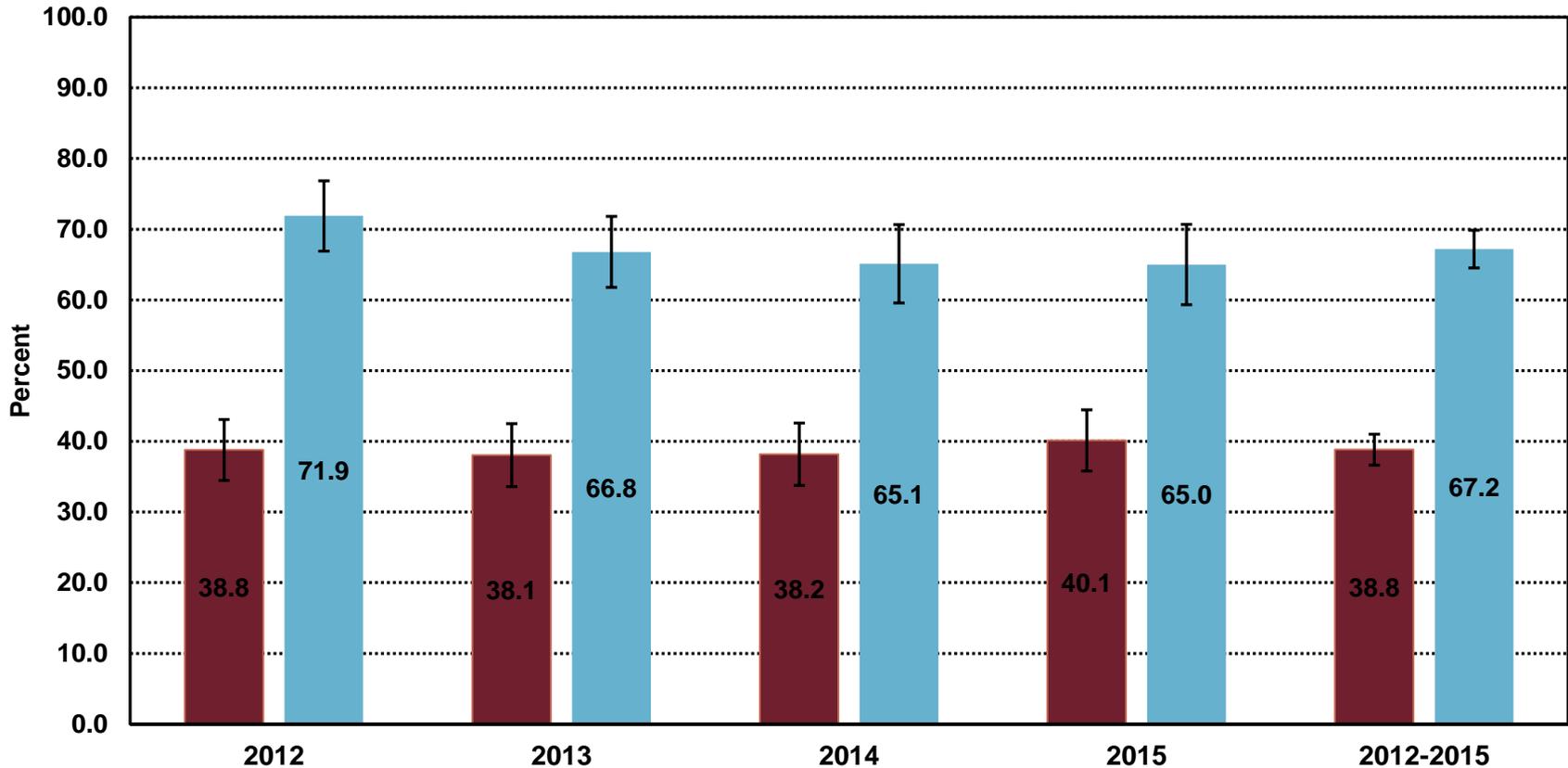


Source: Delaware Health and Social Services, Division of Public Health, Pregnancy Risk Assessment Management Surveillance (PRAMS) Data, 2012-2015.

Note: Thinking back to just before you got pregnant with your new baby, how did you feel about becoming pregnant? Responses include: 1) I wanted to be pregnant sooner; 2) I

Percent of Delaware Women with 95% Confidence Interval (CI) Who Indicated That Their Pregnancy Was Unintended, by Payer, 2012-2015

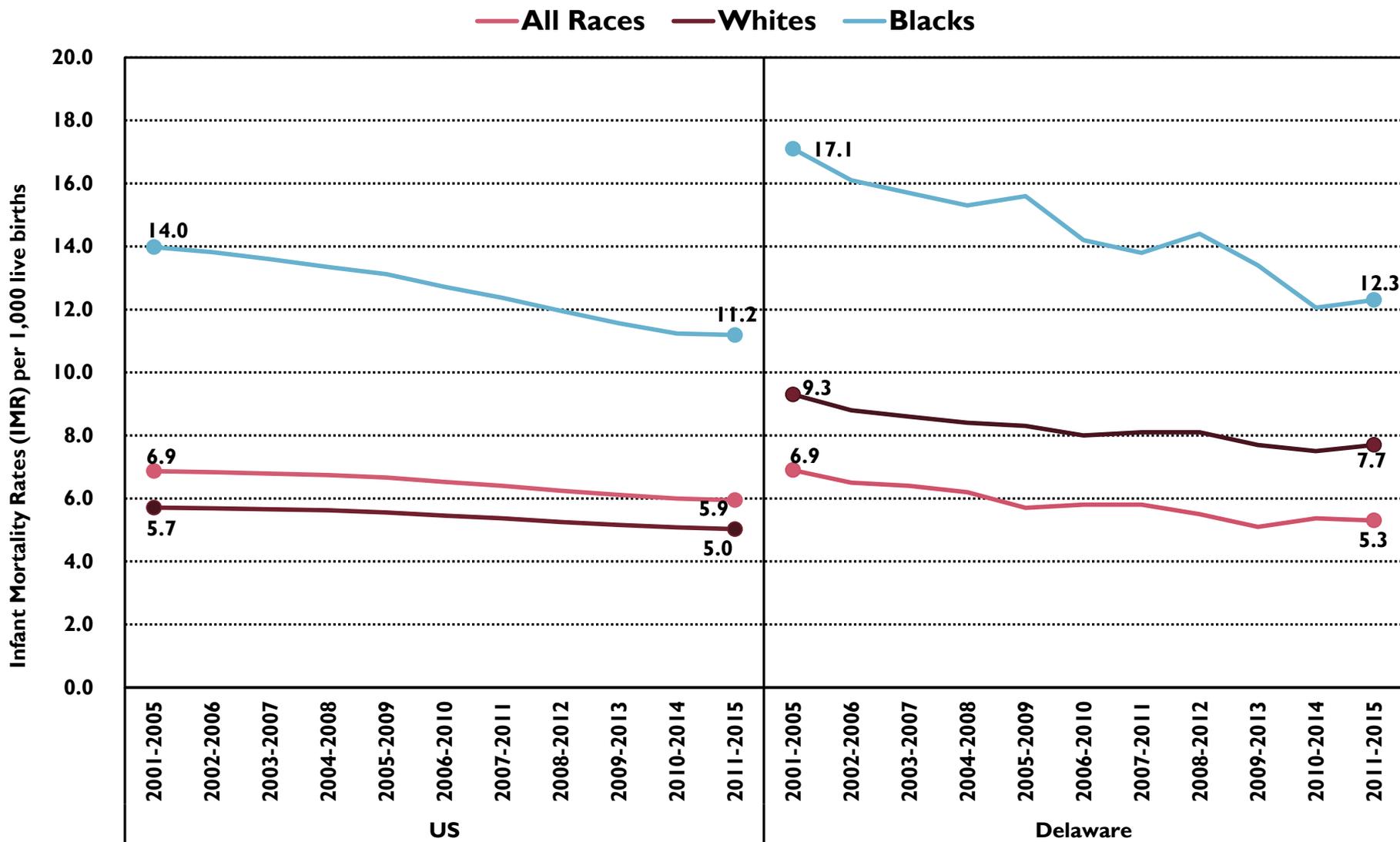
■ Non-Medicaid



Source: Delaware Health and Social Services, Division of Public Health, Pregnancy Risk Assessment Management Surveillance (PRAMS) Data, 2012-2015.

Note: Thinking back to just before you got pregnant with your new baby, how did you feel about becoming pregnant? Responses include: 1) I wanted to be pregnant sooner; 2) I wanted to be pregnant later; 3) I wanted to be pregnant then; 4) I didn't want to be pregnant then or later at any time in the future; 5) Was not sure. Responses 1 and 3 are "intended" and 2, 4, 5 are unintended.

Five-Year Infant Mortality Rates, 2001-2015

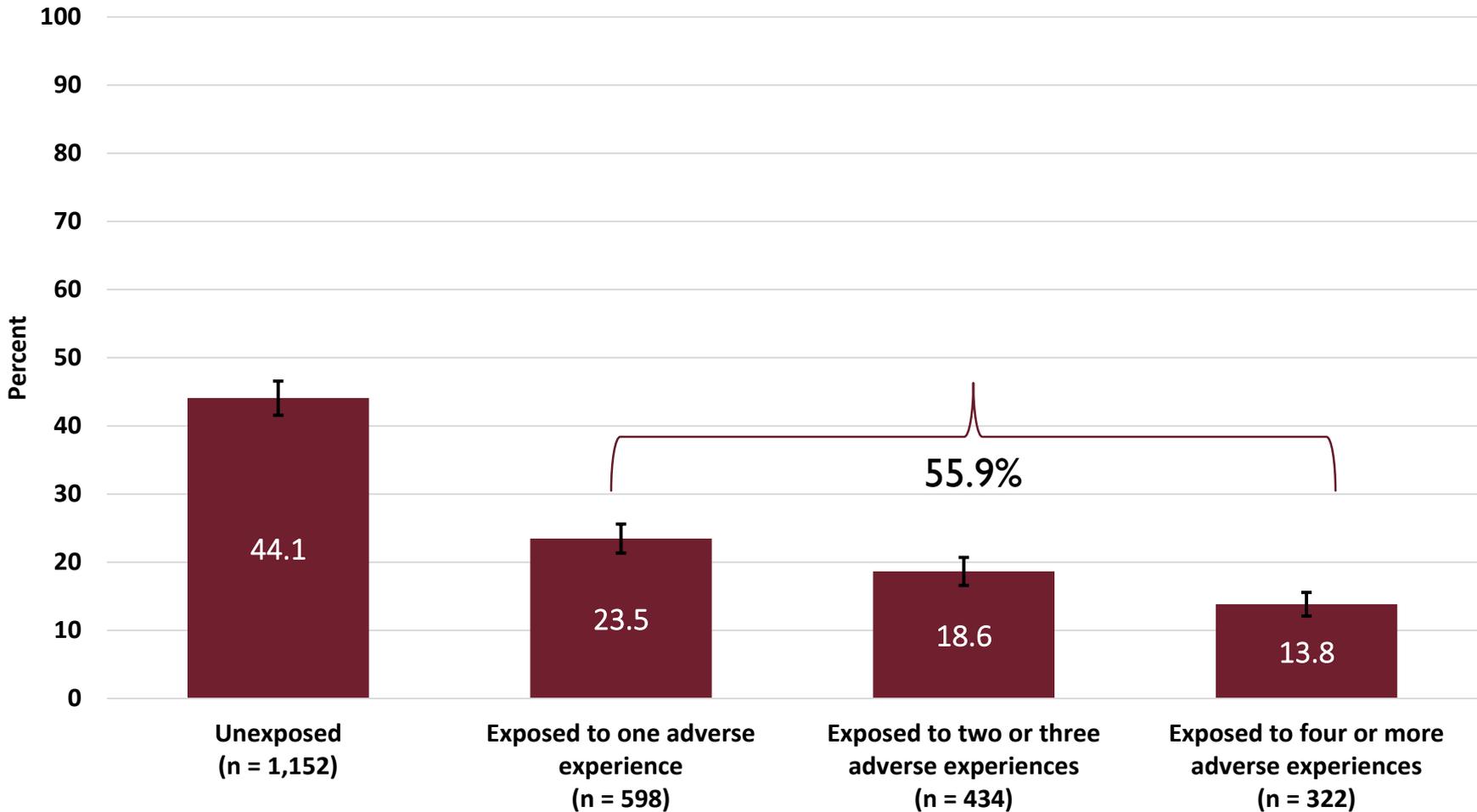


Source: Delaware Health and Social Services, Division of Public Health, Vital Statistics Data, 2001-2015. (See INFANT4 vital statistics)



ADVERSE CHILDHOOD EXPERIENCES

Percentage of Delaware Adults 18 and Older Who Reported One or More Adverse Childhood Experience(s), with 95% Confidence Intervals (CI), 2015

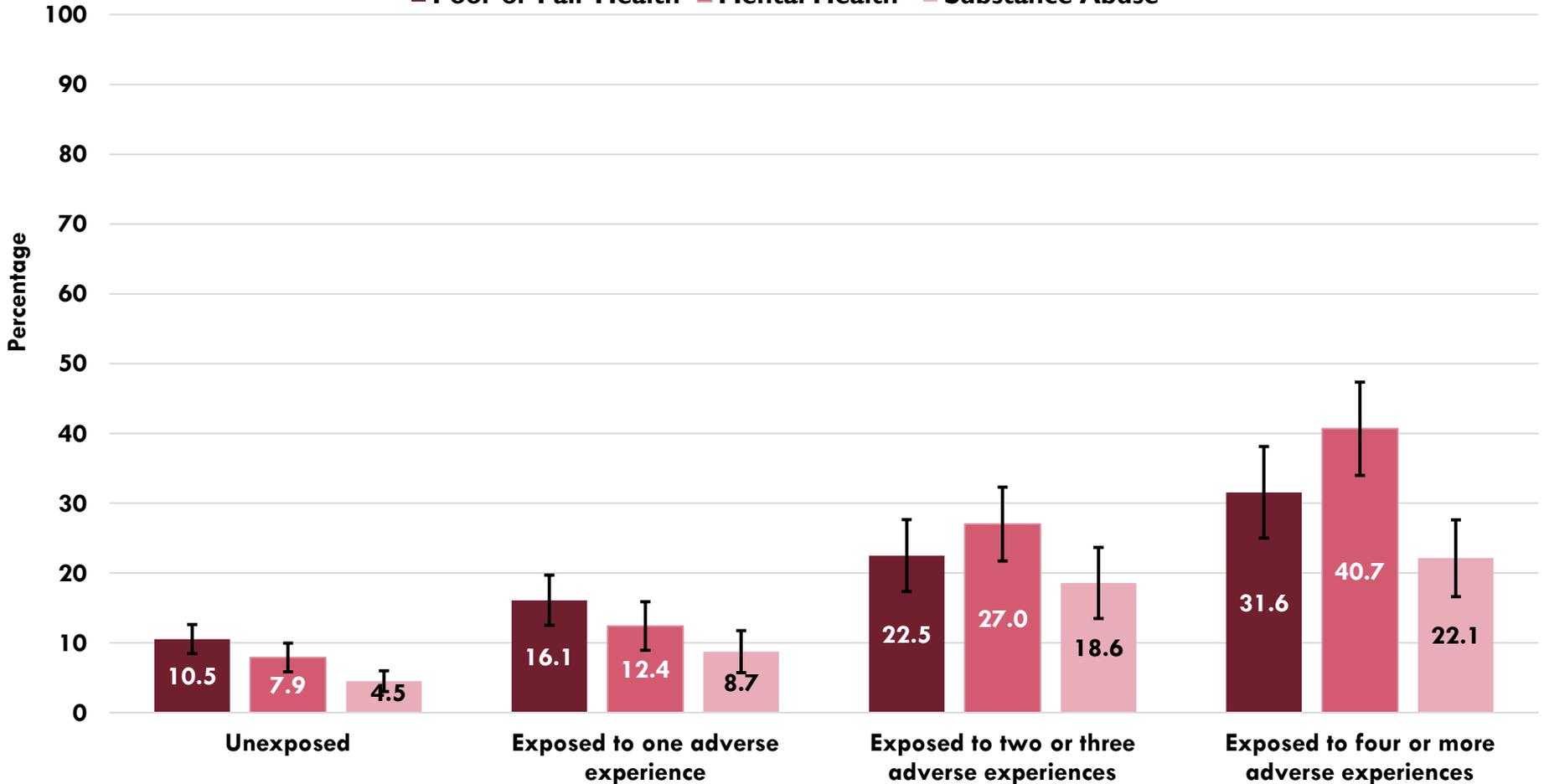


Source: Delaware Household Survey (DeHHS), 2015 data.

*ACE score is a summary measure, and ranges from 0 (unexposed) to 10 (exposed to all categories)

Percentage of Delaware Adults 18 and Older Who Reported One or More Adverse Childhood Experience(s), and Health Status, 2015

■ Poor or Fair Health ■ Mental Health ■ Substance Abuse

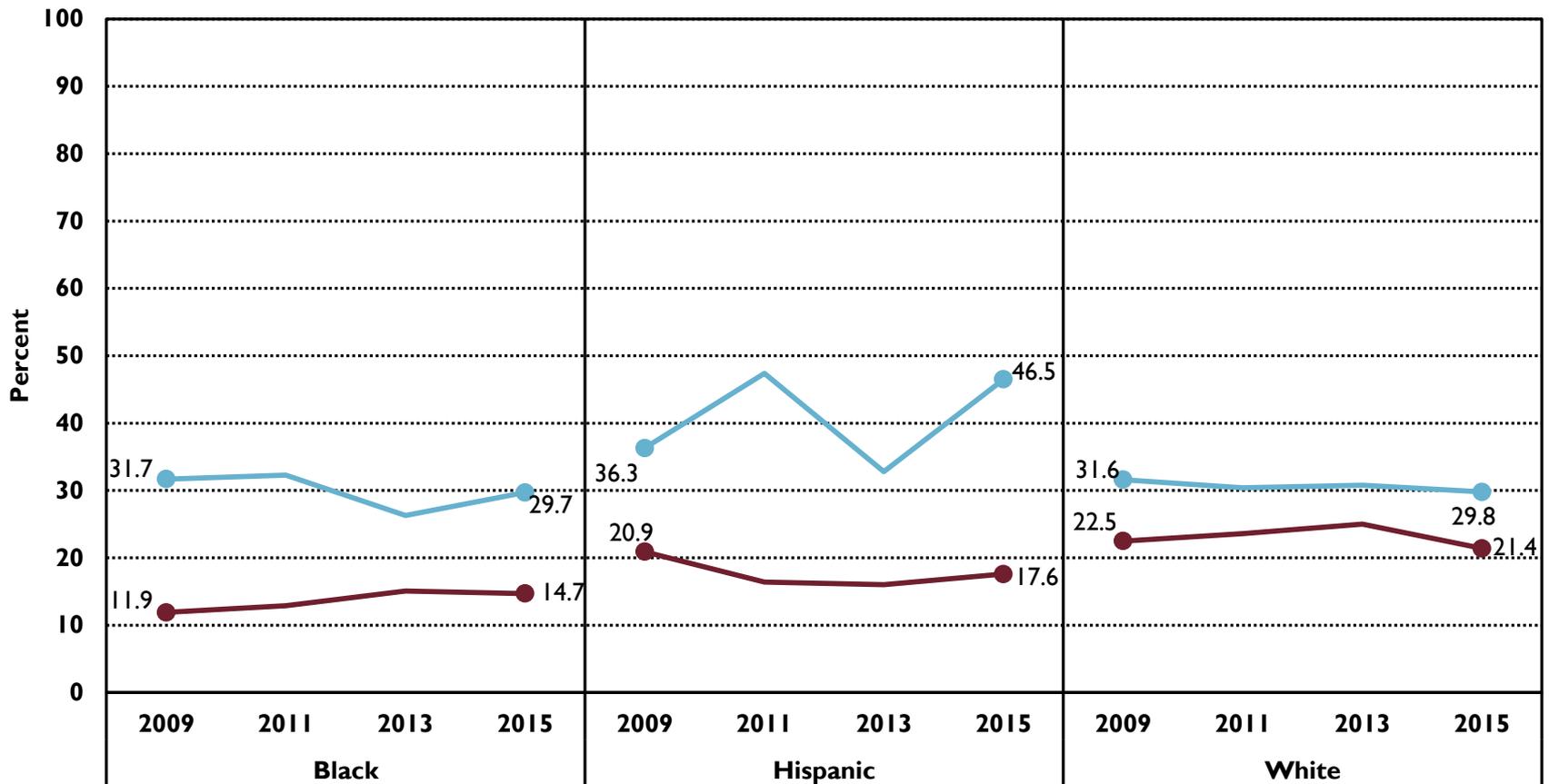


Source: Delaware Household Survey (DeHHS), 2015 data.

*ACE score is a summary measure, and ranges from 0 (unexposed) to 10 (exposed to all categories)

Percentage of Female High School Students in Delaware Who Reported Being Bullied and/or Feeling Sad or Hopeless, 2009-2015

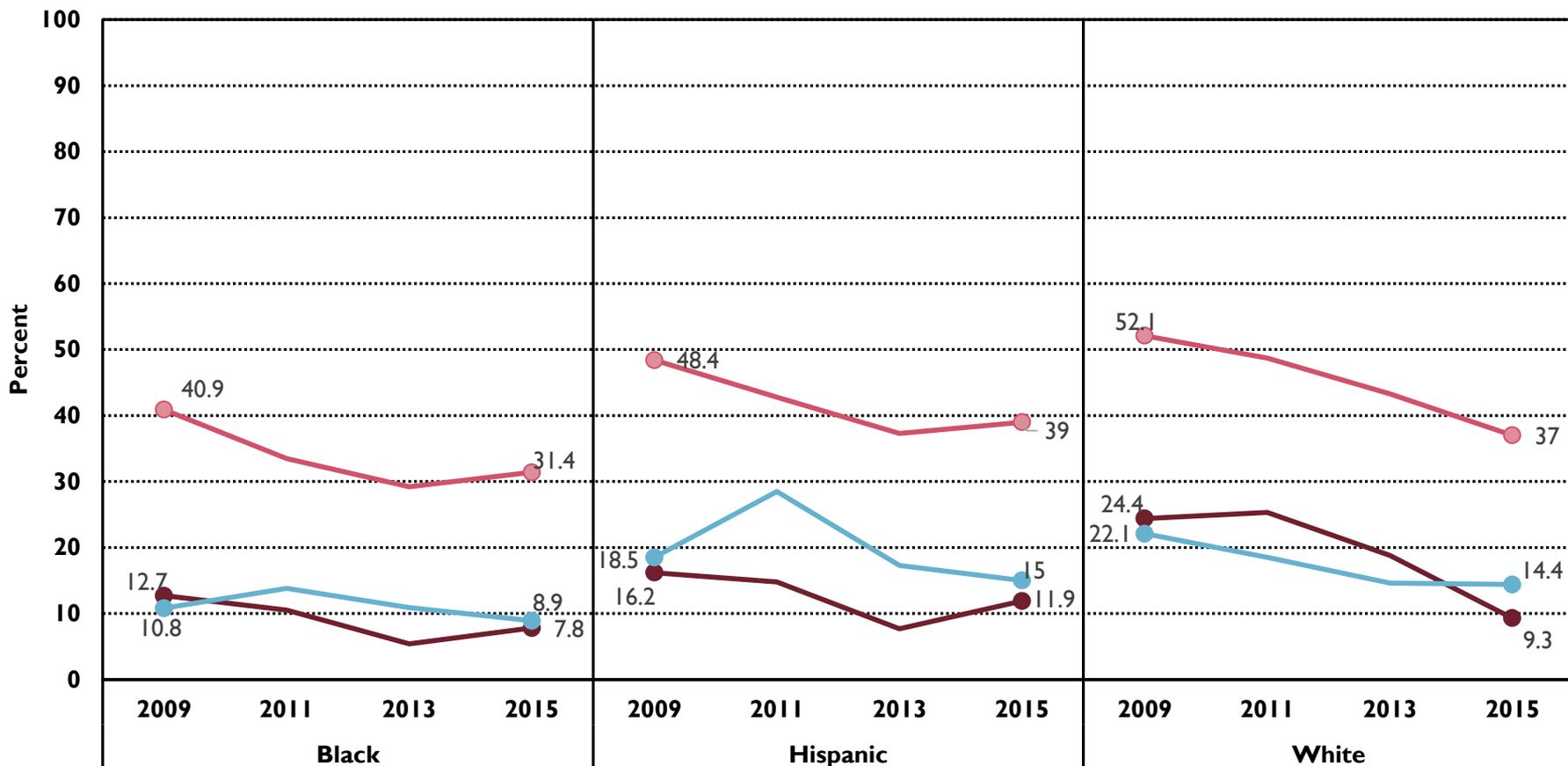
— Bullied — Felt sad or hopeless



Source: Youth Risk Behavior Survey (YRBS), Centers for Disease Control and Prevention (CDC), Delaware 2009-2015.

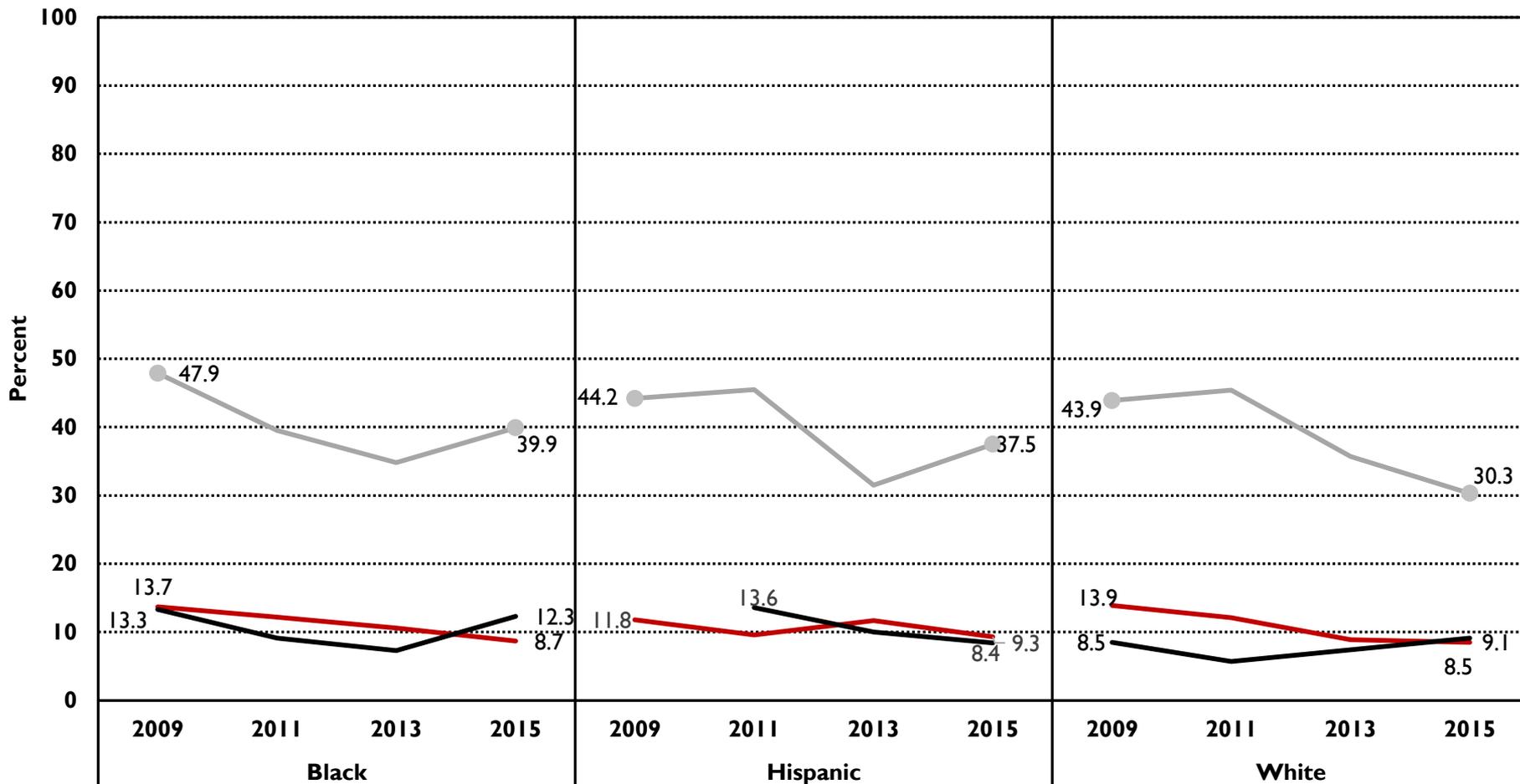
Percentage of Female High School Students in Delaware Who Reported Smoking Cigarettes, Drinking Alcohol at Least Once in the Past 30 days, and/or Offered Illicit Drugs in the Past 12 Months

— Currently Smoke — Currently Drink — Illicit Drugs



Percentage of Female High School Students in Delaware Who Were Forced to Have Sex, Who Are Currently Sexually Active, and/or Who Attempted Suicide, 2009-2015

— Forced to have sex — Sexually Active — Attempted Suicide



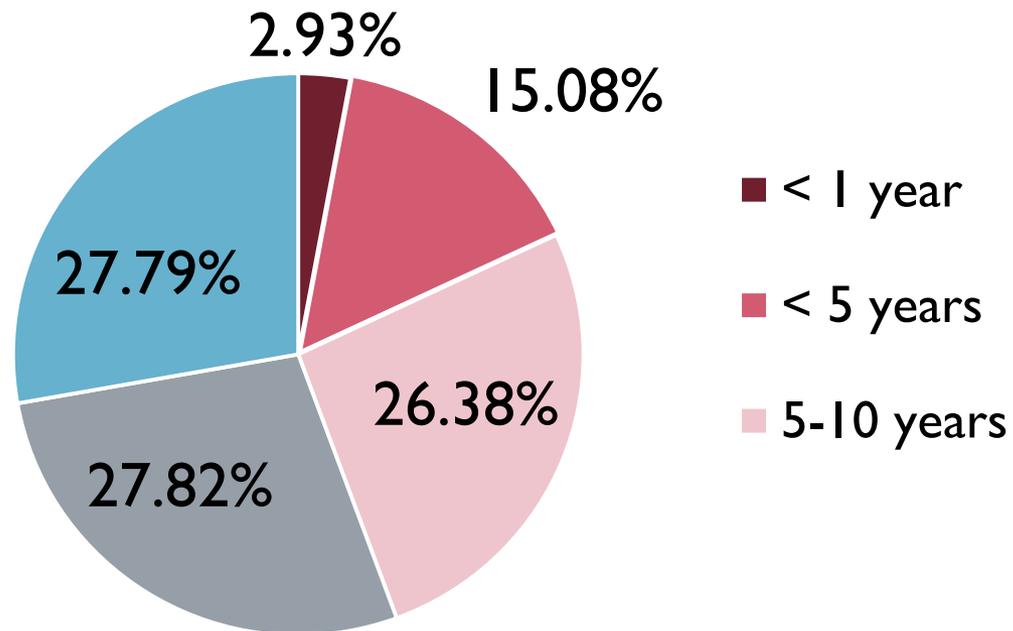
Source: Youth Risk Behavior Survey (YRBS), Centers for Disease Control and Prevention (CDC), Delaware 2009-2015.
<https://www.cdc.gov/healthyyouth/data/yrbs/results.htm>



NURSING PROFESSION IN DELAWARE

NURSING WORKFORCE STUDY - DELAWARE NURSES ASSOCIATION (2014)

How long do you plan to continue the practice of nursing?



For more information, contact:



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Thank you!