

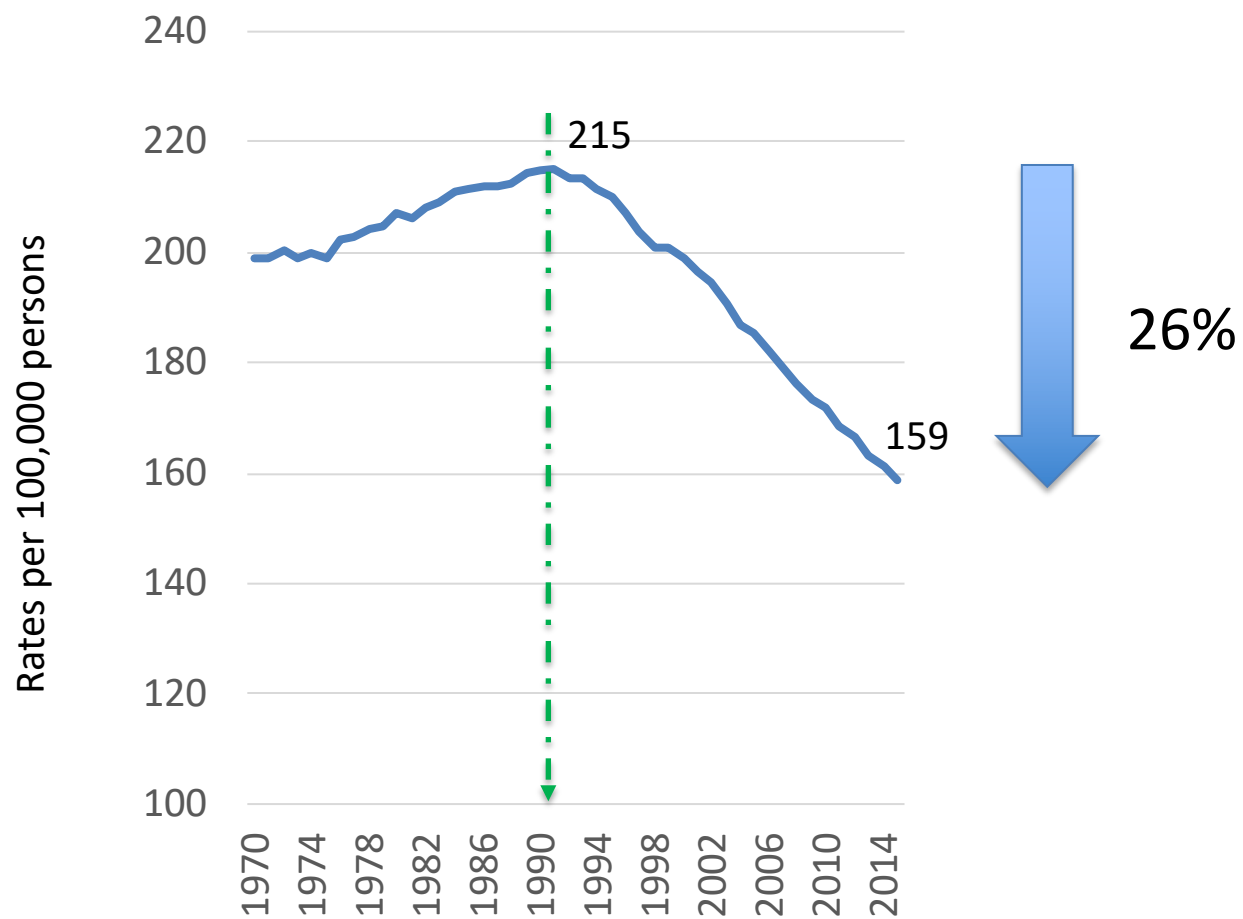
Disparities in Progress against Cancer in the USA

Ahmedin Jemal, DVM, PhD
American Cancer Society

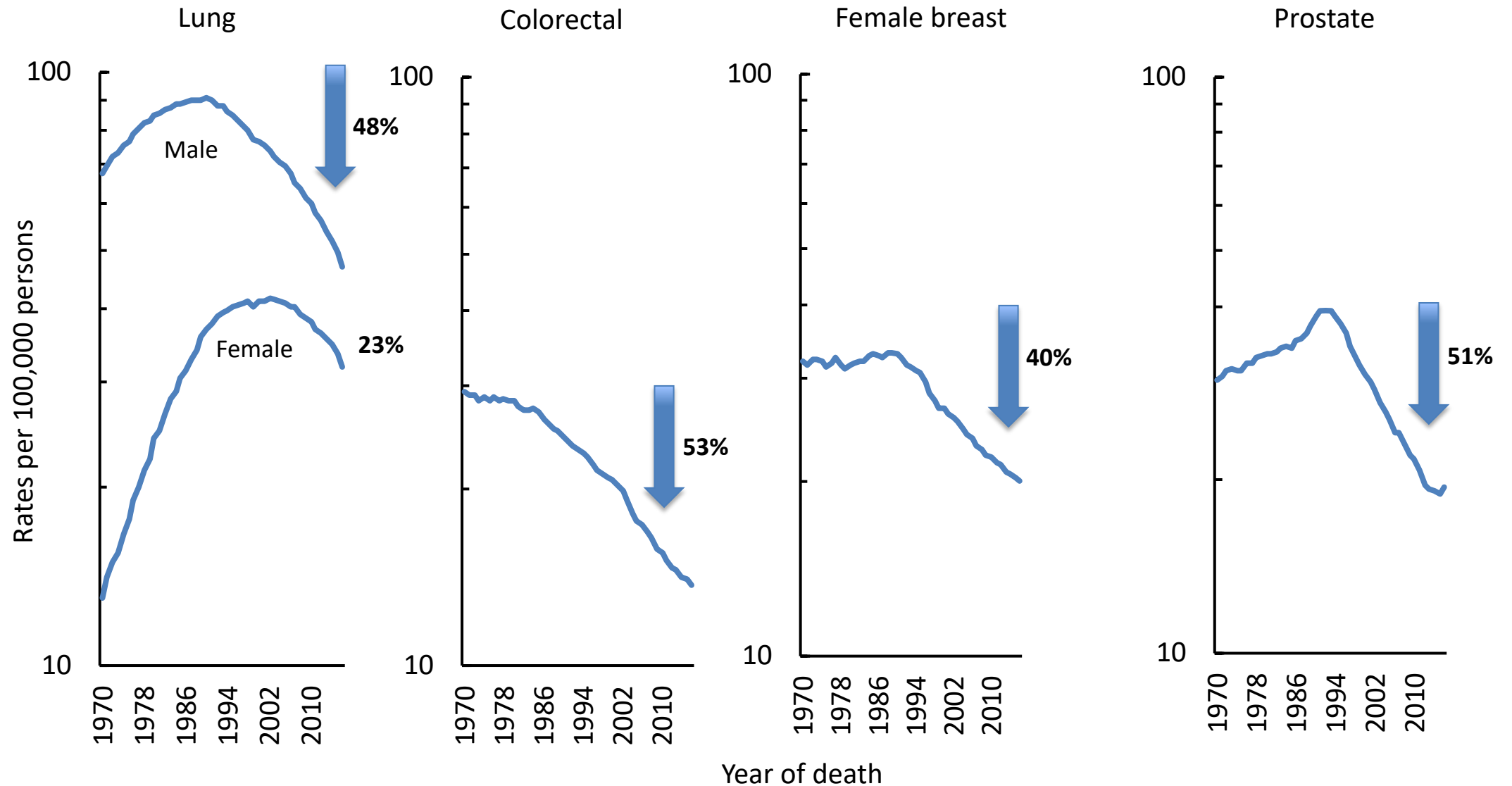
ASPO Webinar
November 29, 2018



Progress in reducing cancer death rates in the US, 1970-2015



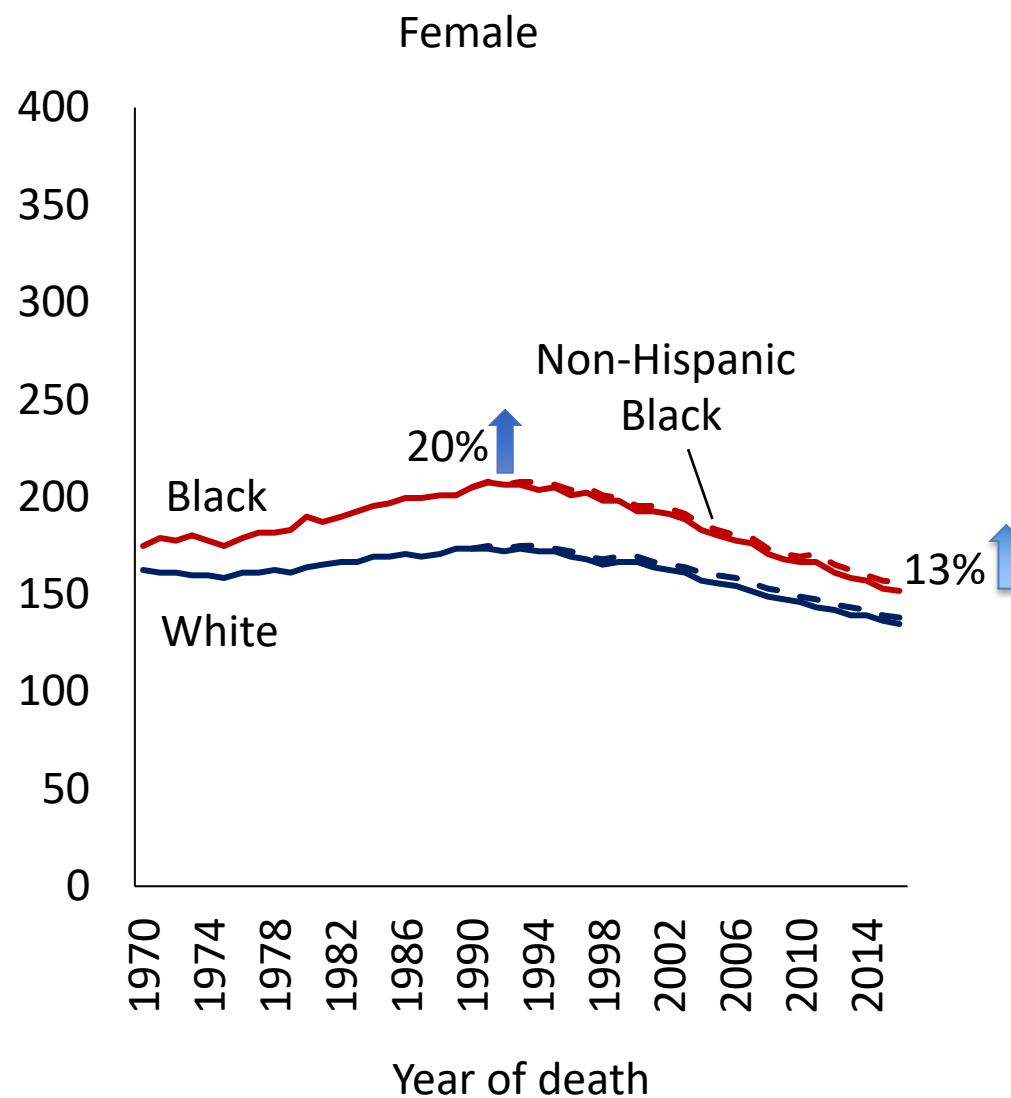
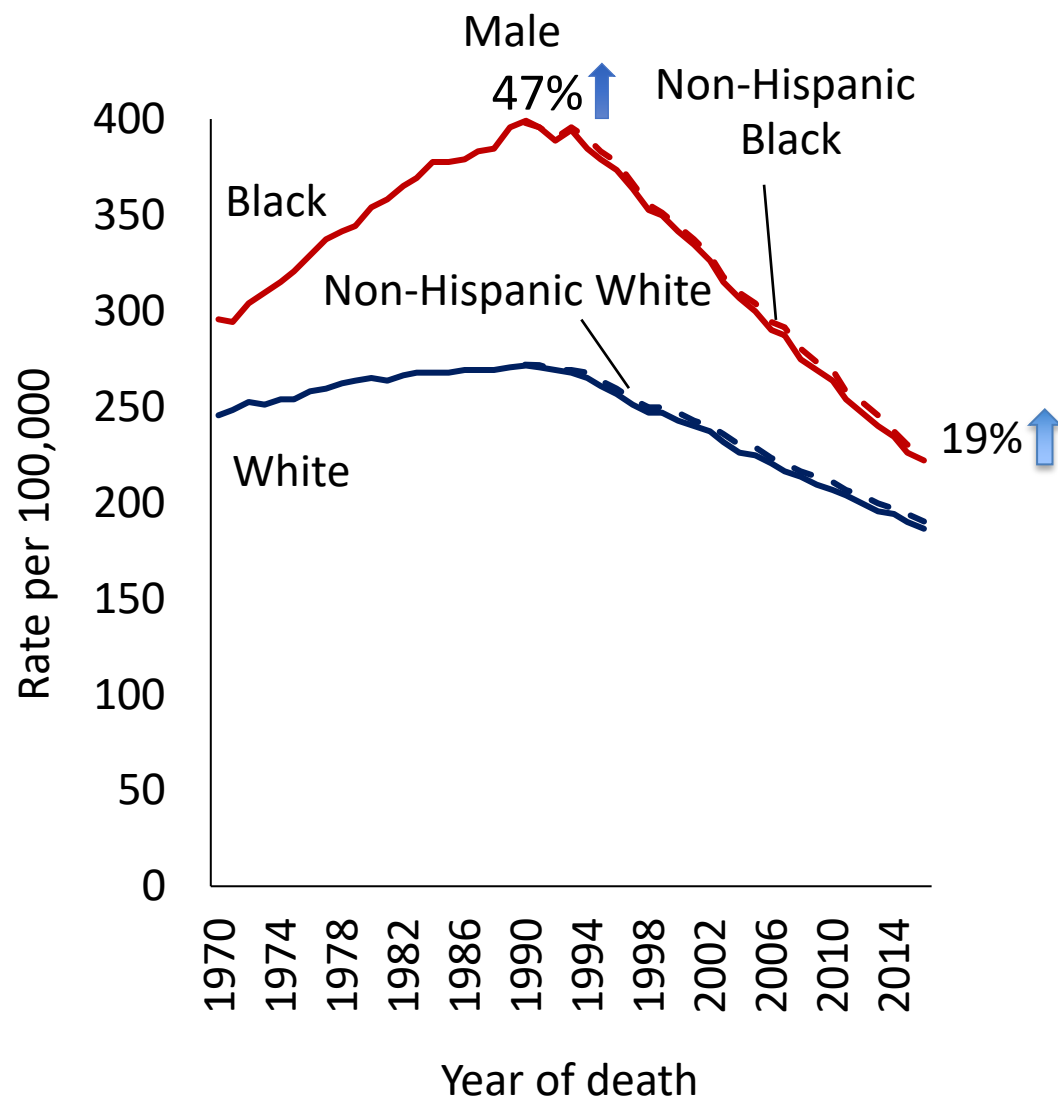
Trends in cancer death rates for the four major cancers, US, 1970 – 2016



Large disparities in progress against cancer

- Race (black vs white)
- Socioeconomic status
- Residence (state)
- The effects of the Affordable Care Act on cancer disparities

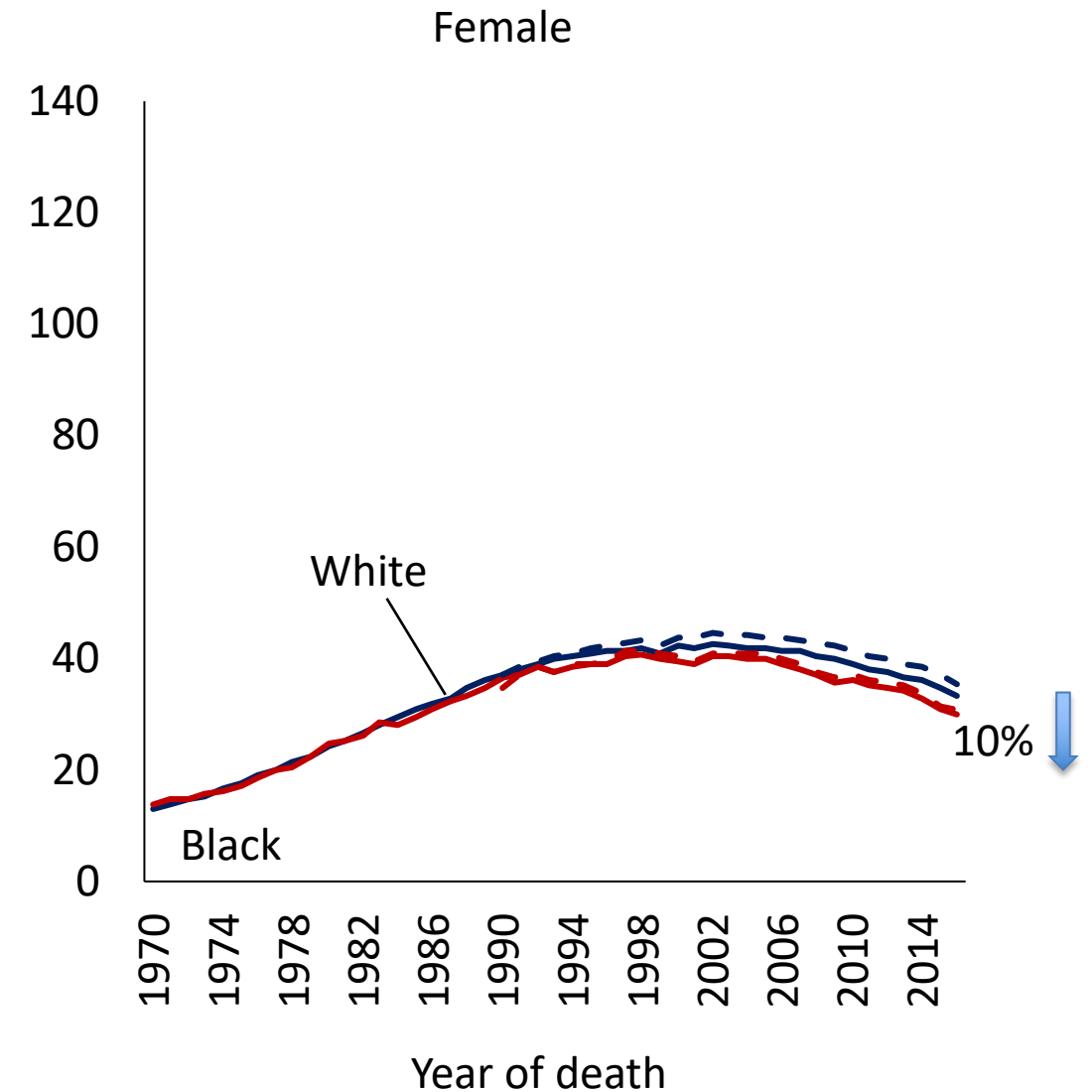
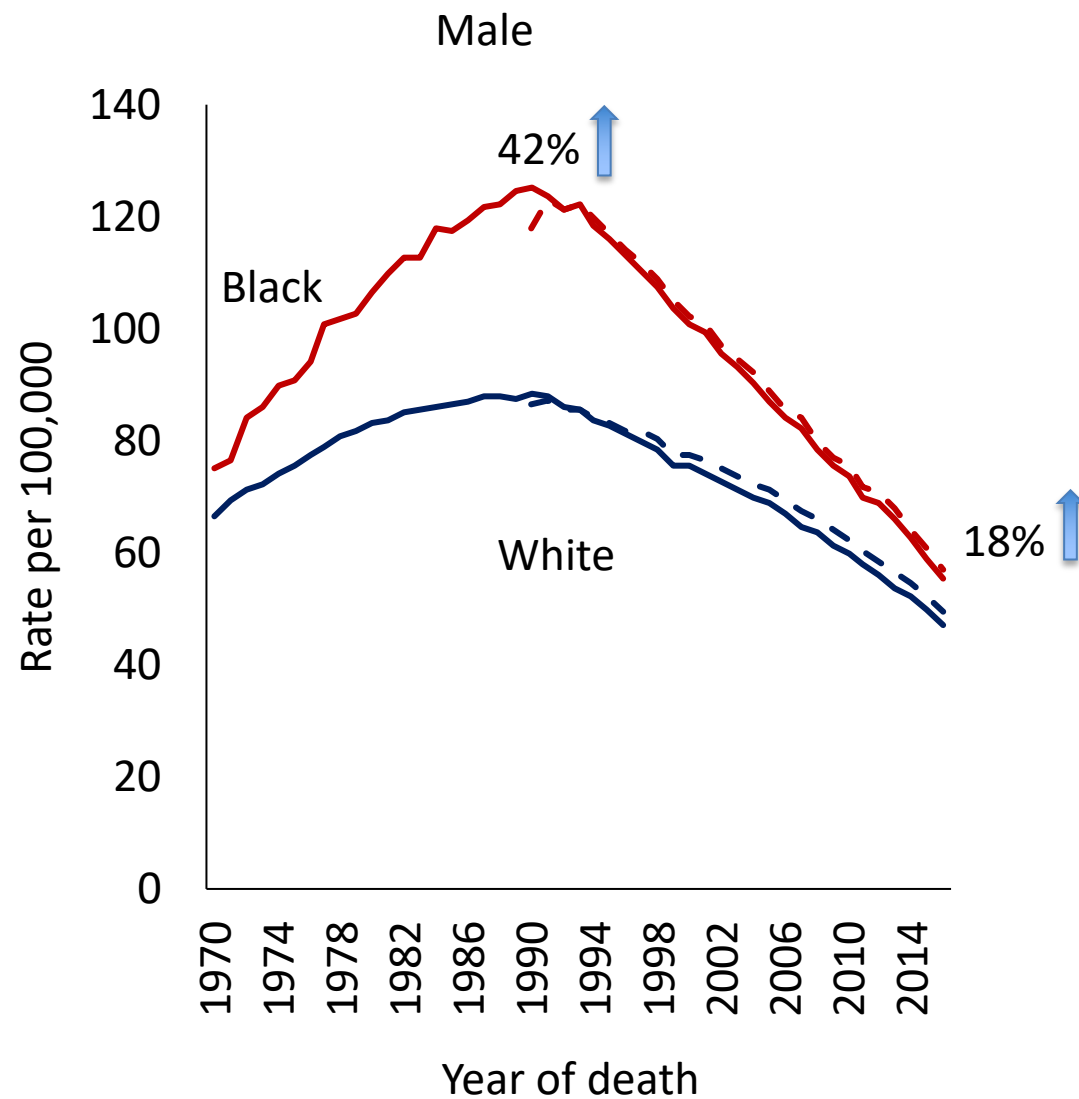
Trends in Overall Cancer Death Rates by Race and Sex, US, 1970-2016



*Rates are per 100,000, age-adjusted to the US standard population.

Data Source: National Center for Health Statistics, Centers for Disease Control and Prevention, provided by the SEER program.

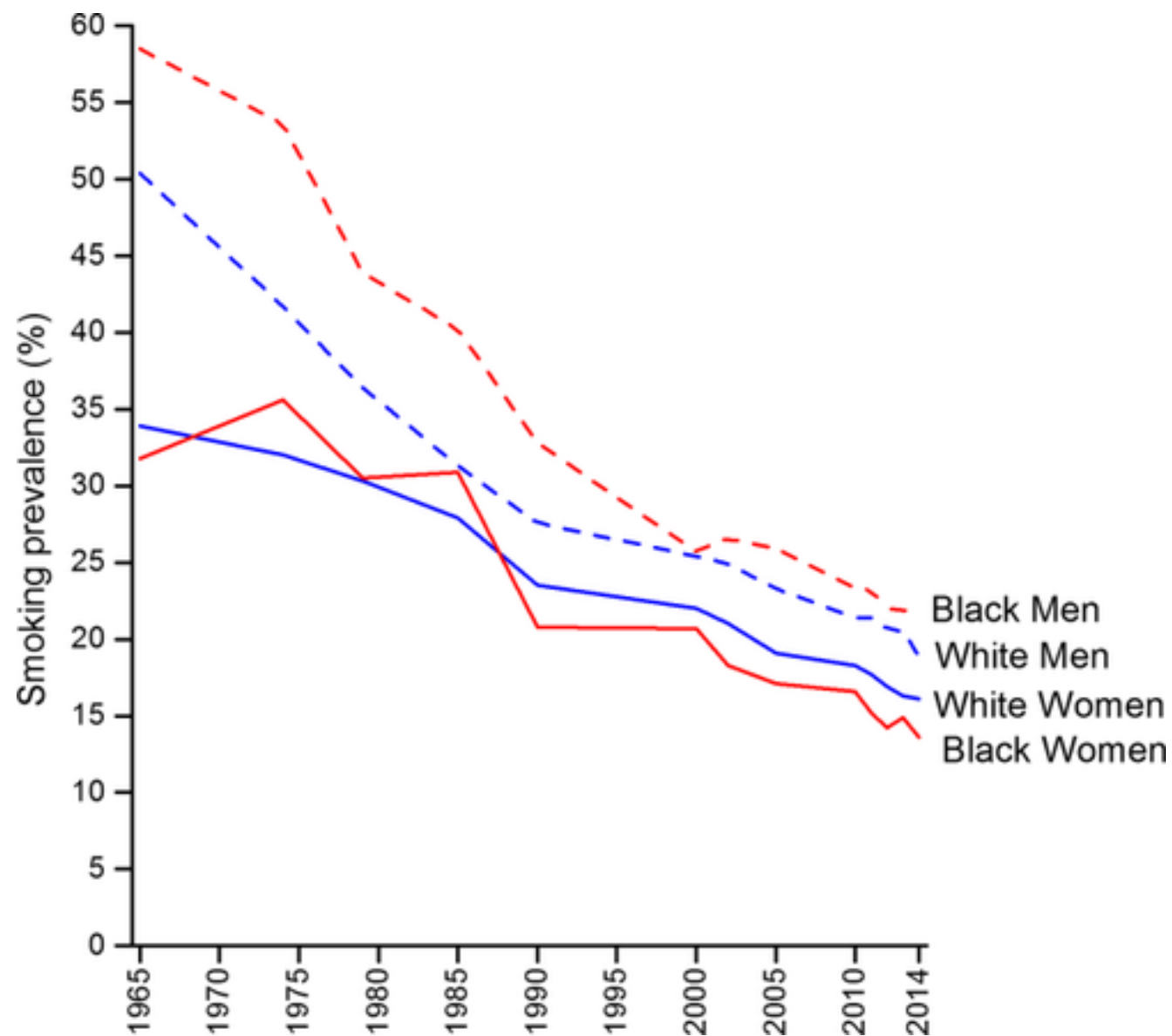
Trends in Lung Cancer Death Rates by Race and Sex, US, 1970-2016



*Rates are per 100,000, age-adjusted to the US standard population.

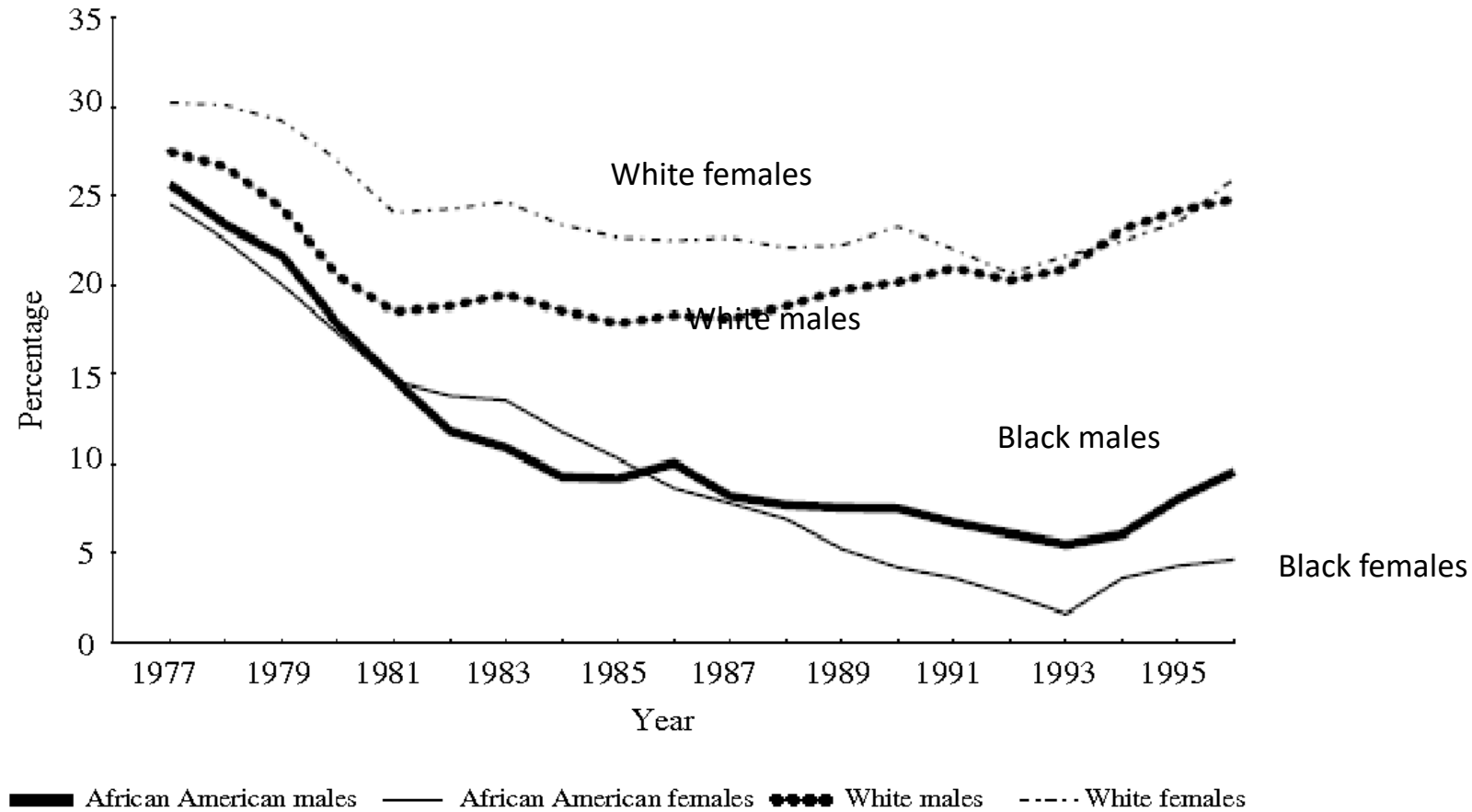
Data Source: National Center for Health Statistics, Centers for Disease Control and Prevention, provided by the SEER program.

Trends in Adult Smoking Prevalence by Race and Sex, 1965-2014



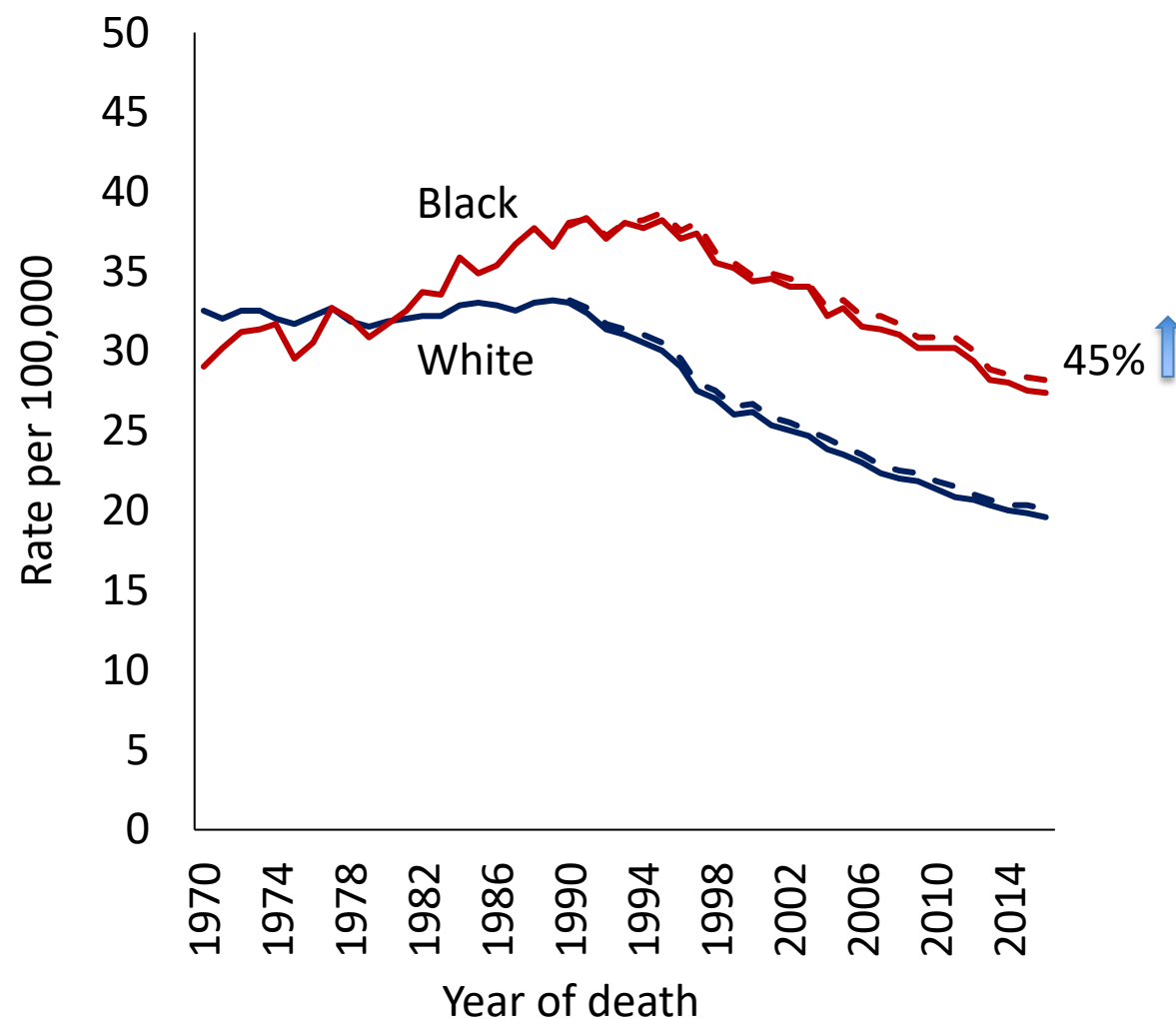
Source: DeSantis et al. 2016. CA A Cancer J clinician

Trends in Daily Smoking among Black and White High School Seniors, 1977-1996

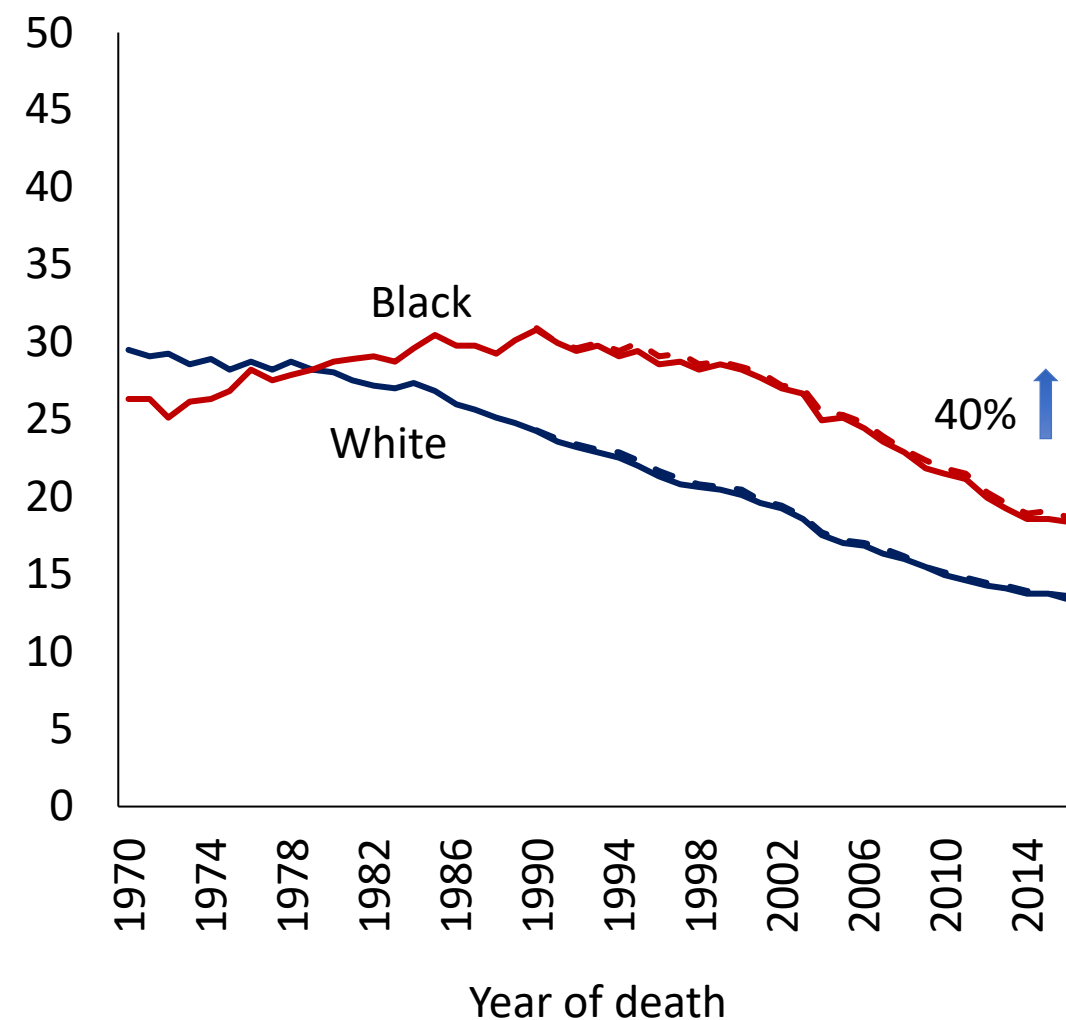


Trends in Death Rates for Female Breast and Colorectal Cancers by Race, US, 1970-2016

Female breast



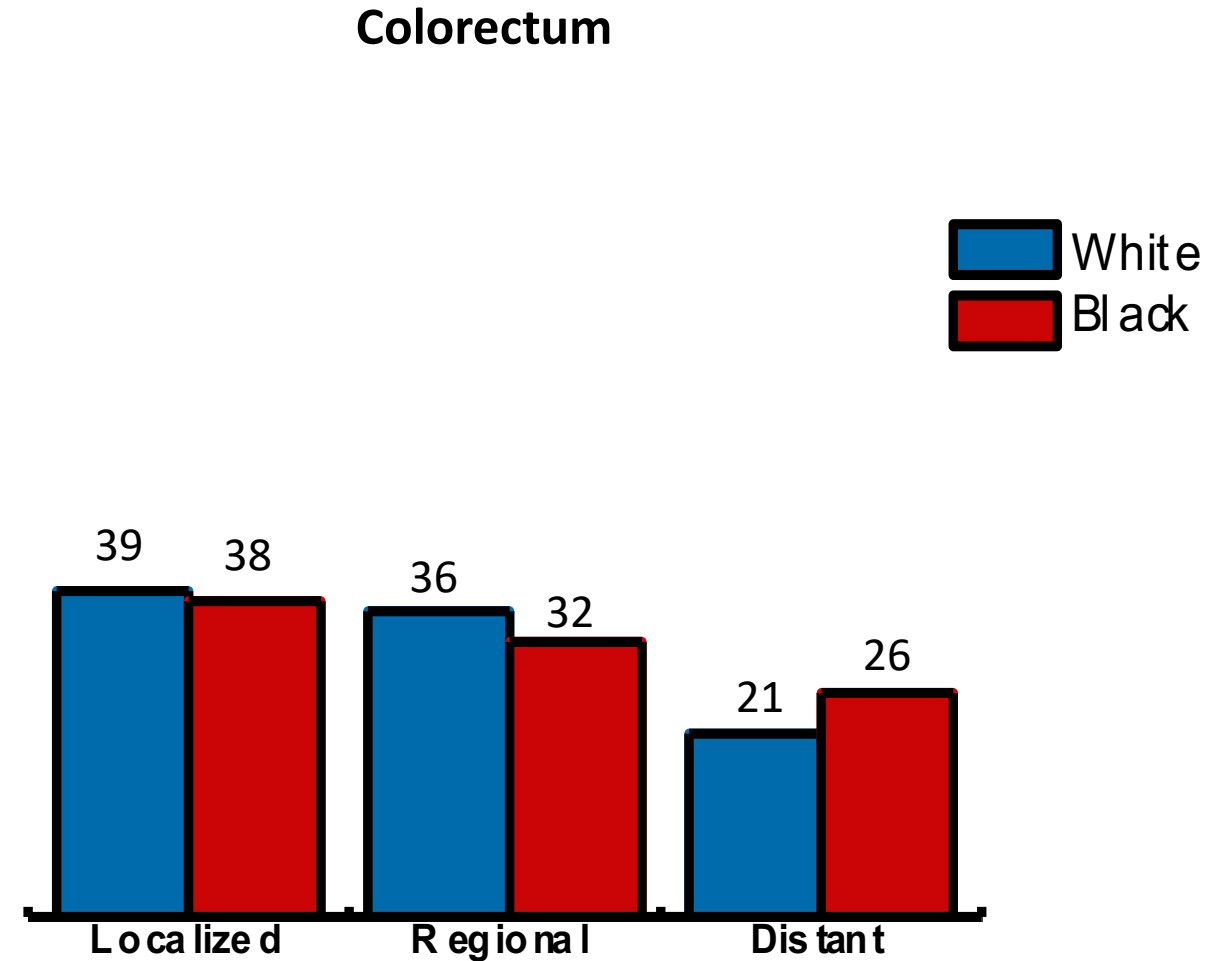
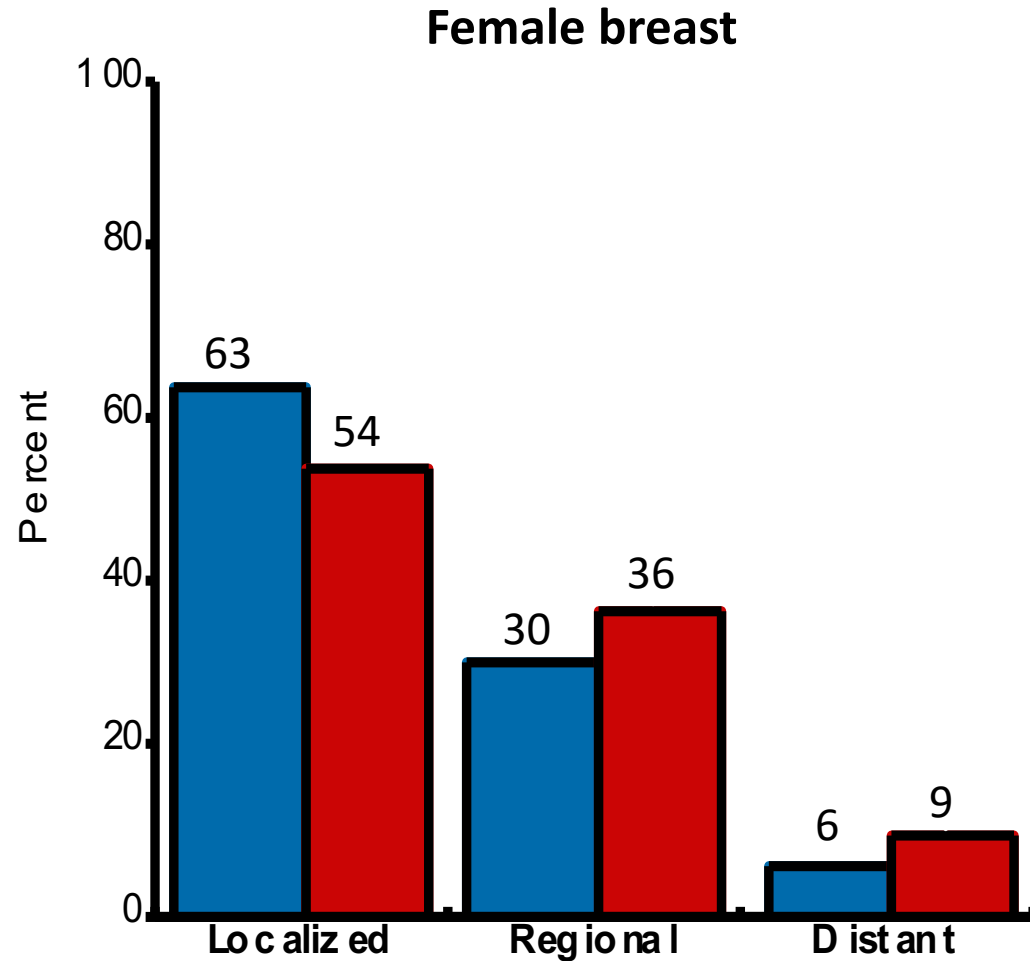
Colon & Rectum



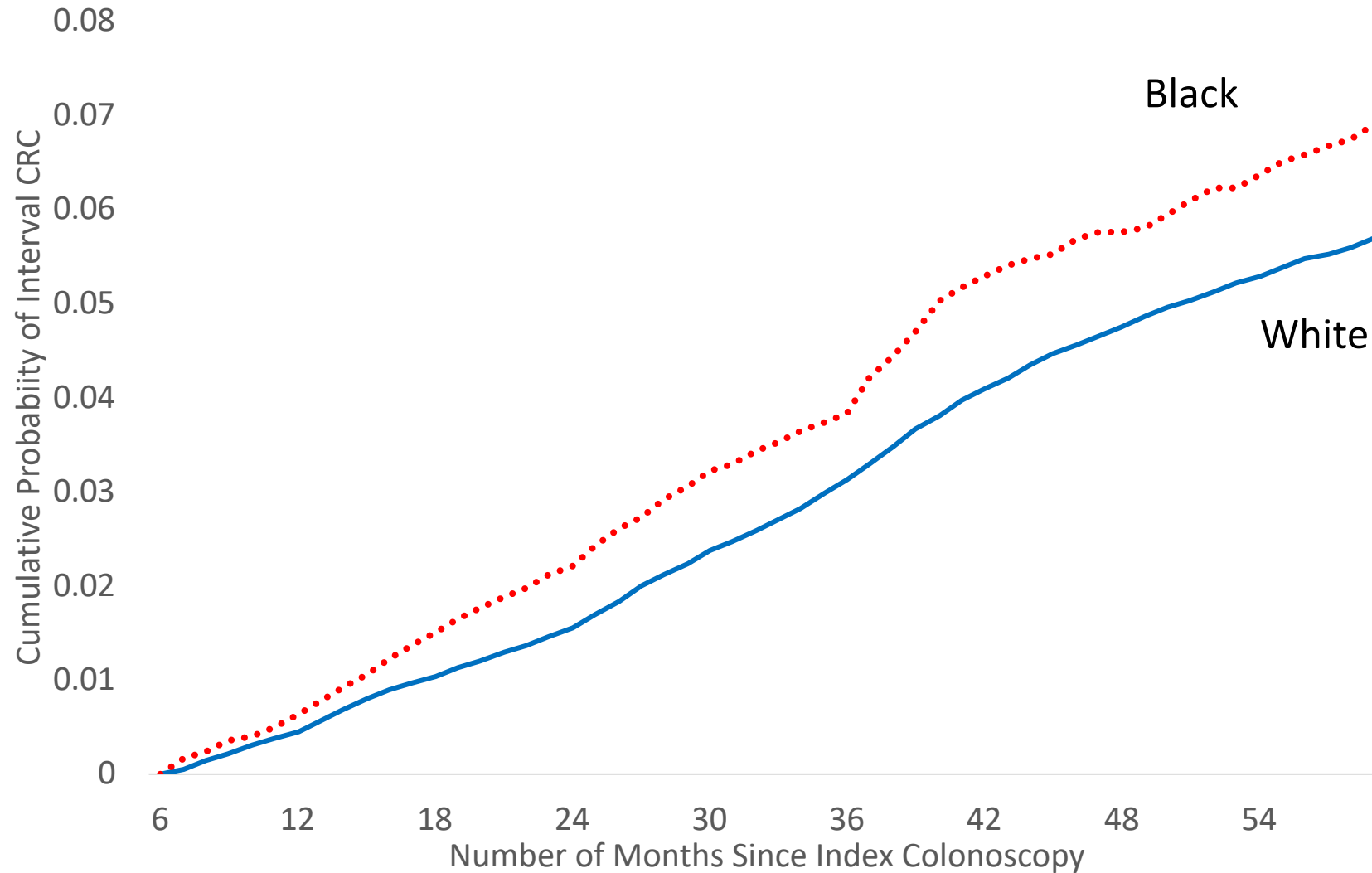
*Rates are per 100,000, age-adjusted to the US standard population.

Data Source: National Center for Health Statistics, Centers for Disease Control and Prevention, provided by the SEER program.

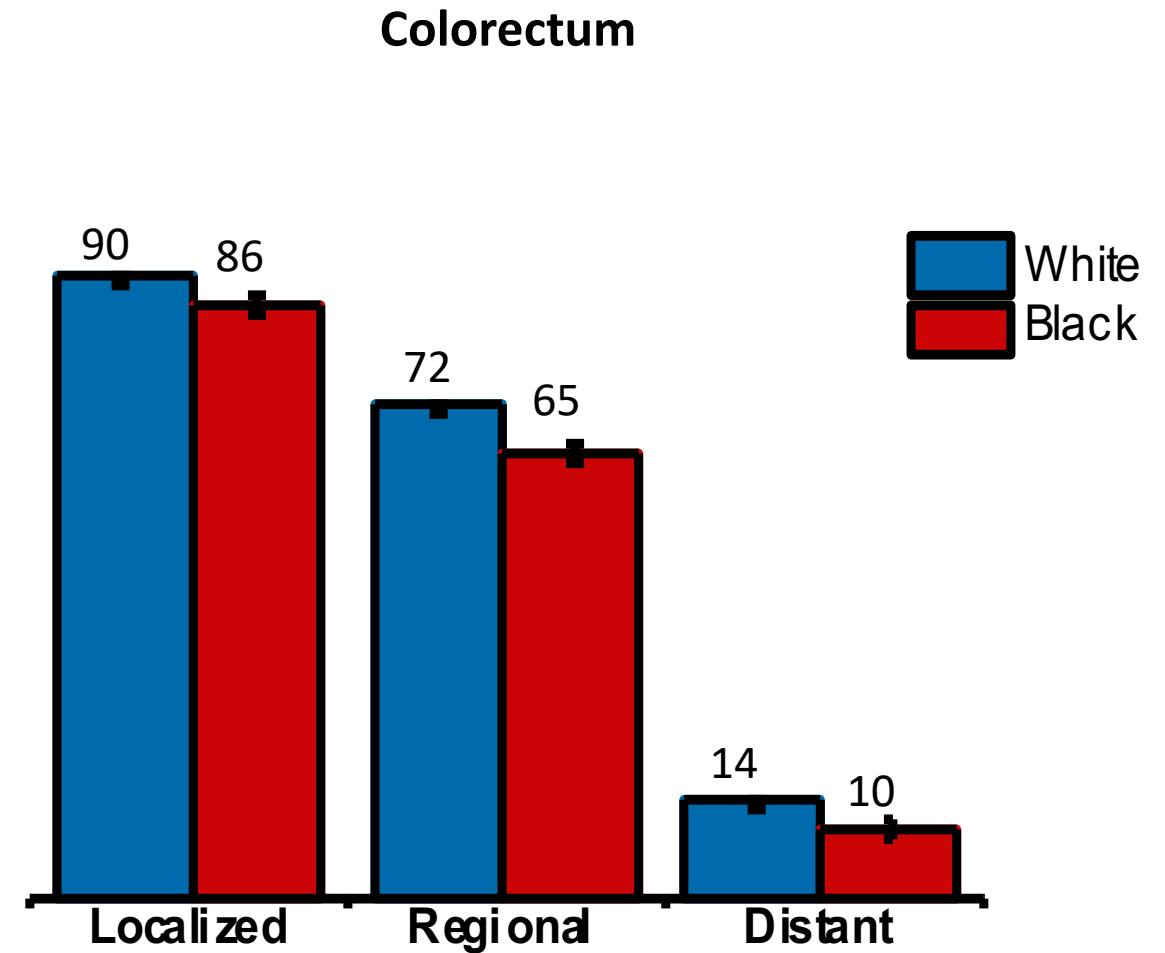
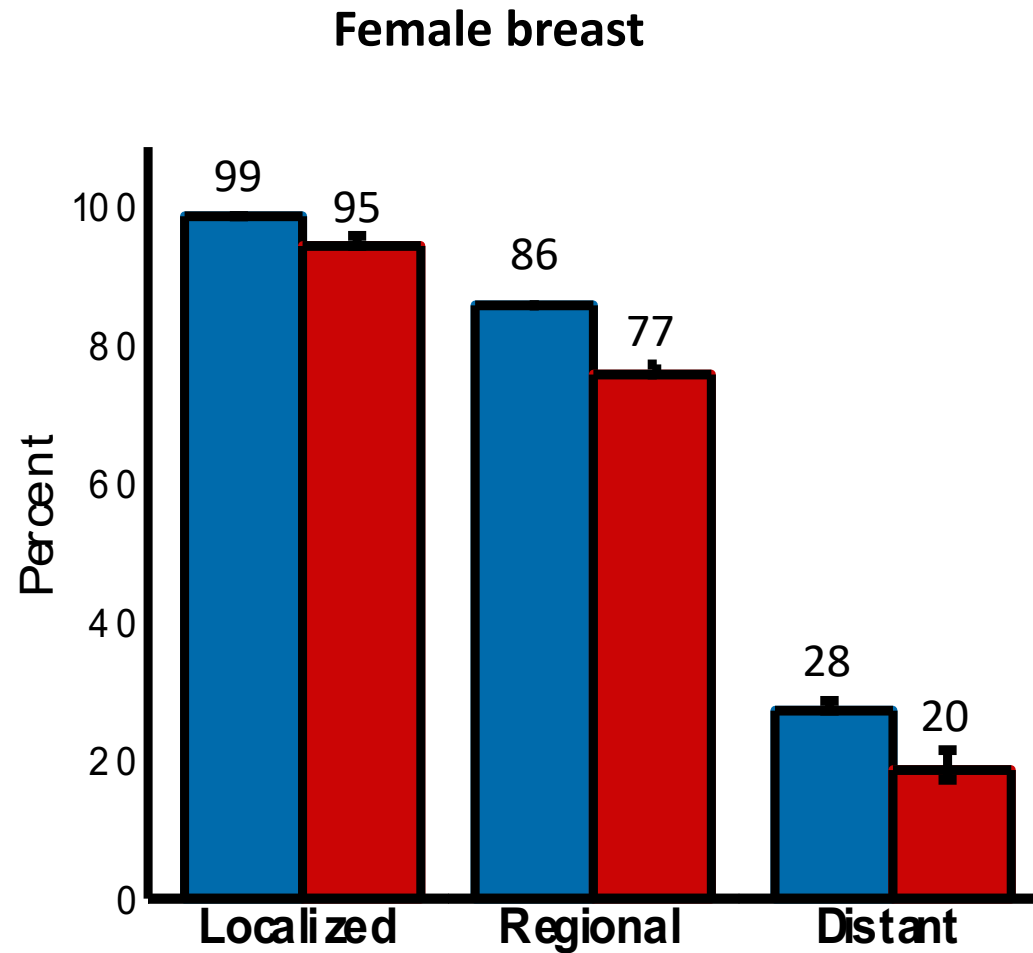
Stage Distribution for Female Breast and Colorectal Cancers, SEER 18, 2008-2014



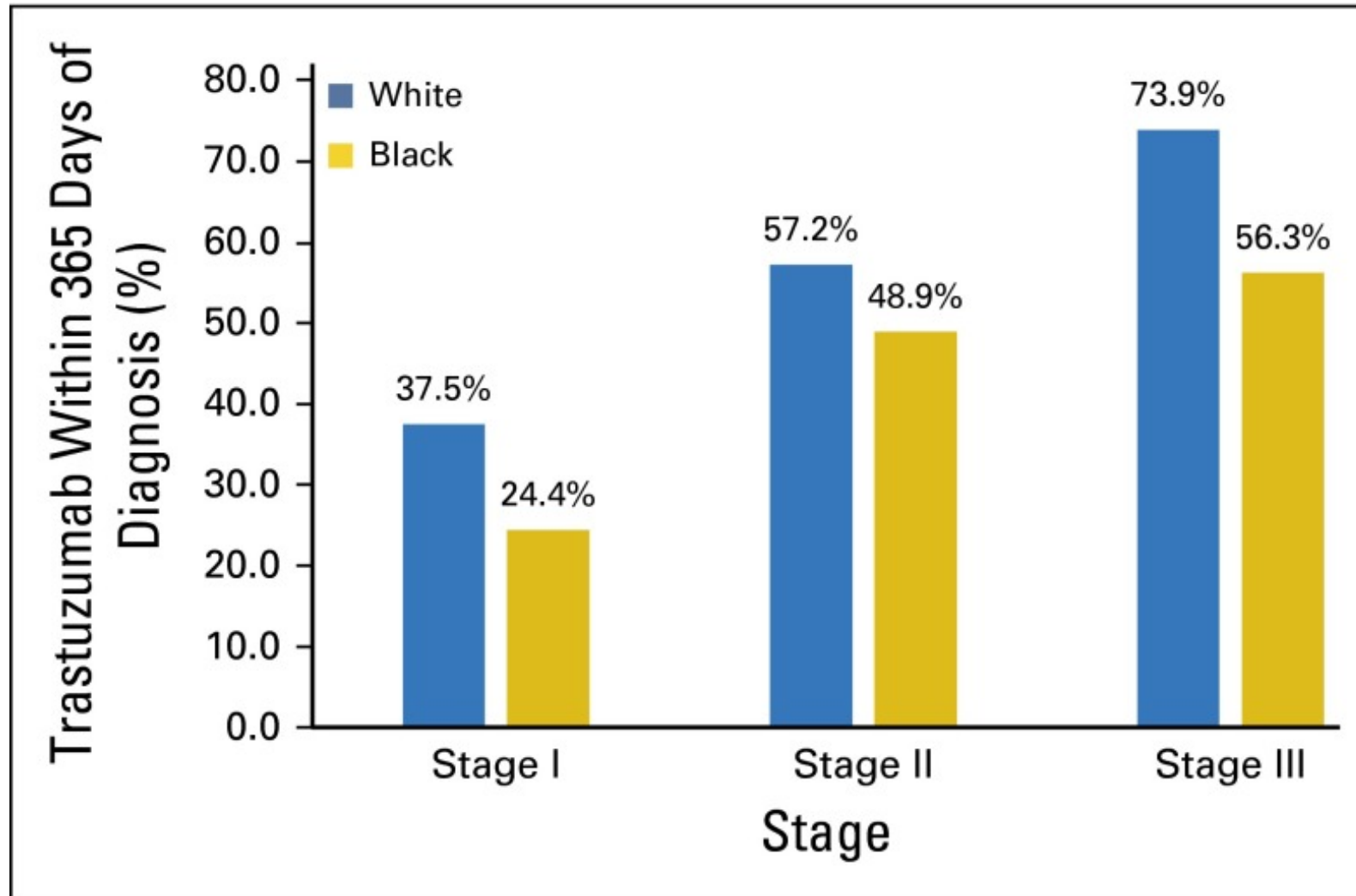
Cumulative Probability of Interval CRC by Race, SEER-Medicare 2002-2011



5-year Relative Survival for Female Breast and Colorectal Cancers, SEER 18, 2008-2014

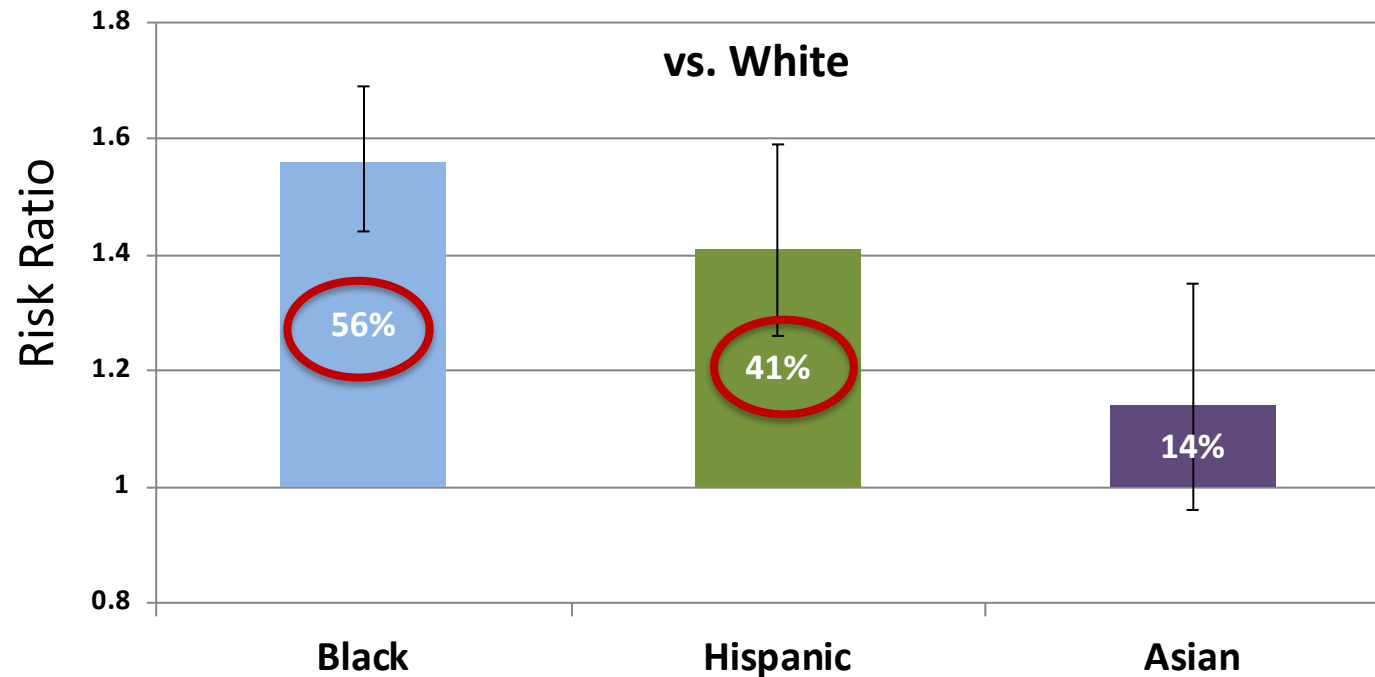


Receipt of trastuzumab among women with human epidermal growth factor receptor 2–positive breast cancer by stage and race

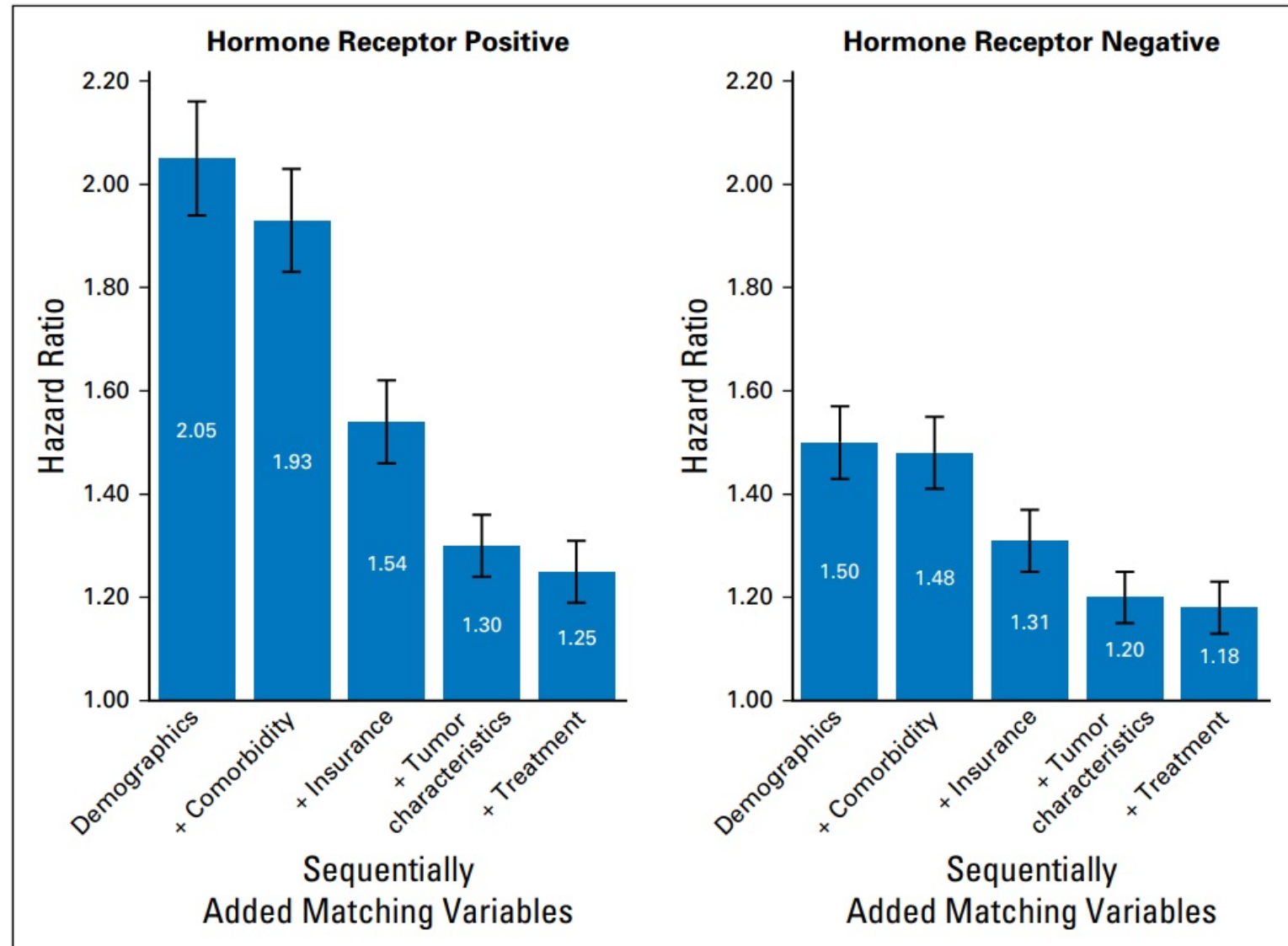


Delays in Adjuvant Chemotherapy Treatment Among Patients With Breast Cancer Are More Likely in African American and Hispanic Populations: A National Cohort Study 2004-2006

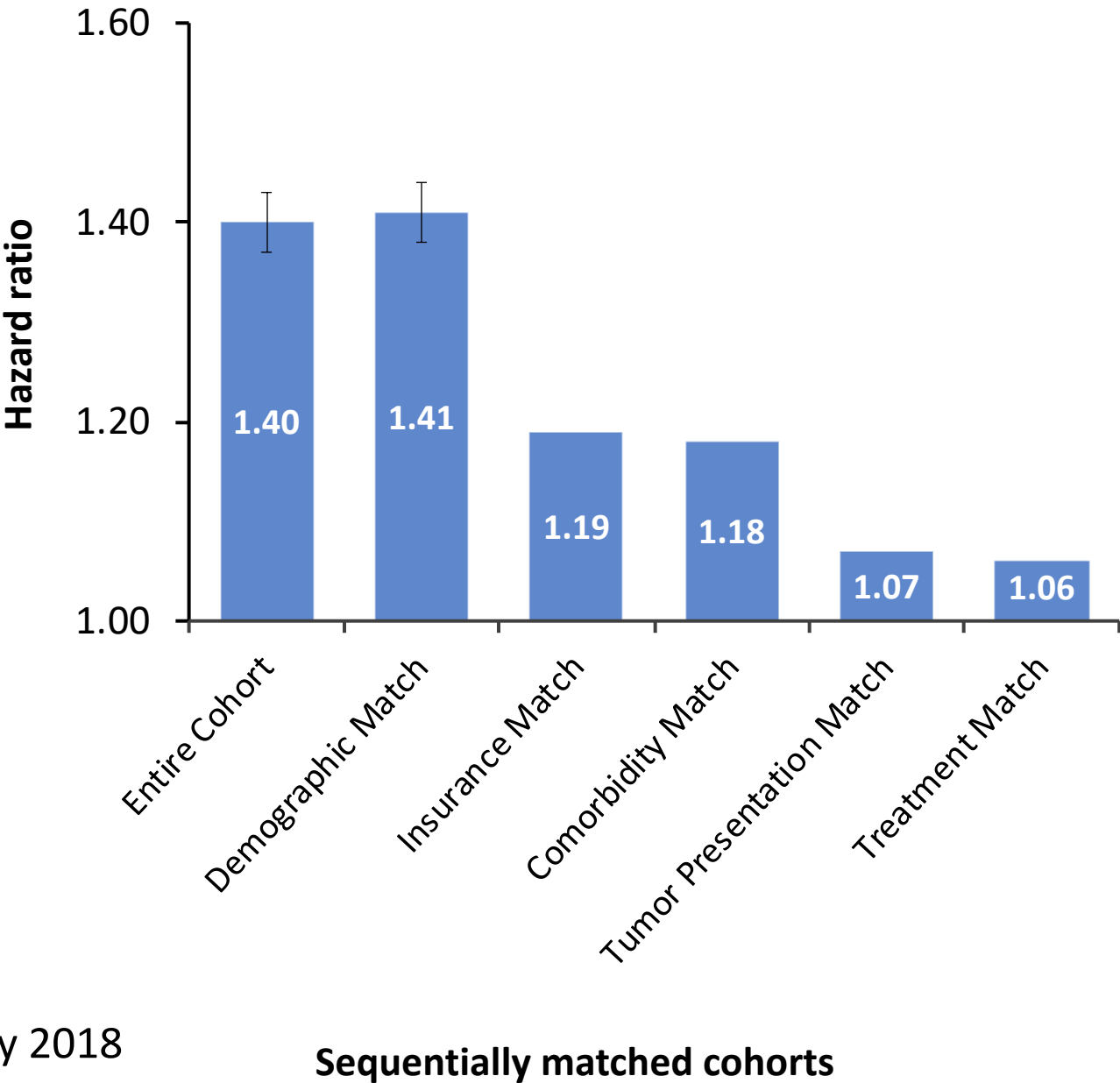
Stacey A. Fedewa, Elizabeth M. Ward, Andrew K. Stewart, and Stephen B. Edge



Contributing factors to Black-White Disparities in Survival Among Women ages 19-64 Years With Stage I-III Breast Cancer, 2004-2013



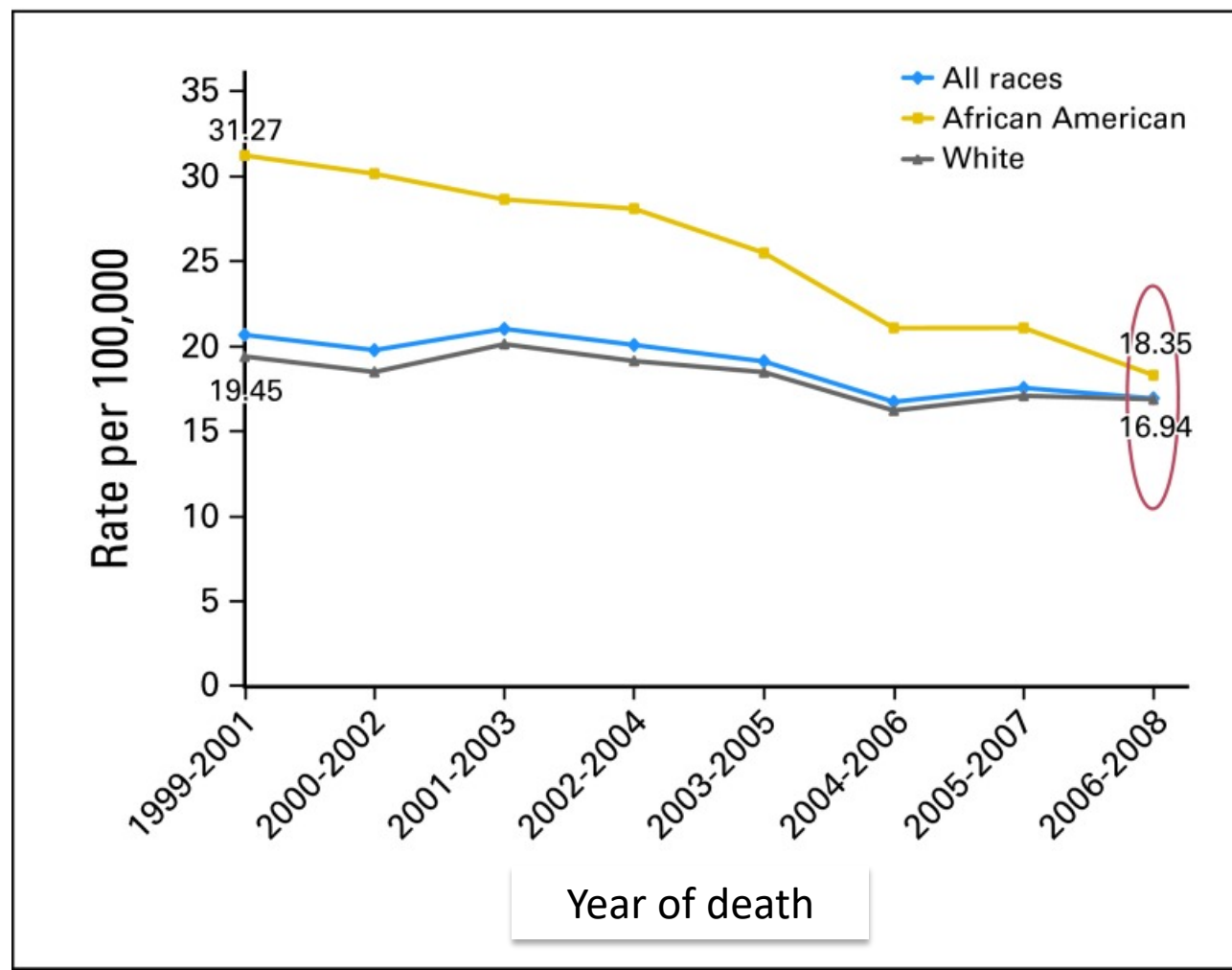
Contributing Factors to Black-White Disparities in Survival Among Persons ages 18-64 Years With Colorectal Cancer, 2004-2013



Source: Sineshaw, Gastroenterology 2018

Eliminating Racial Disparities in Colorectal Cancer in the Real World: It Took a Village

Stephen S. Grubbs, Delaware Cancer Consortium, Dover; and Helen F. Graham Cancer Center, Newark, DE
Blase N. Polite, The University of Chicago, Chicago, IL
John Carney Jr, US House of Representatives, Washington, DC



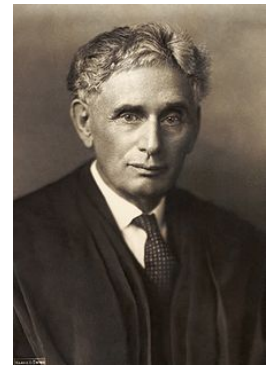
Source Grubbs et al. JCO, 2013

The Colorectal Cancer Control Program was Cost Effective

- Cost of screening= \$1 million per year (\$1.15 per resident)
- Cost of treatment for all cancers = \$6 million
- Saving = \$8.5 million annually from reduced incidence and stage shift to cancers requiring less aggressive therapy

Disparity in Progress against Cancer by State

- Most policies that affect cancer prevention and control are designed and implemented at the state level
- “States as laboratories of democracy” by Louis Dembitz Brandeis, supreme court justice of the United States

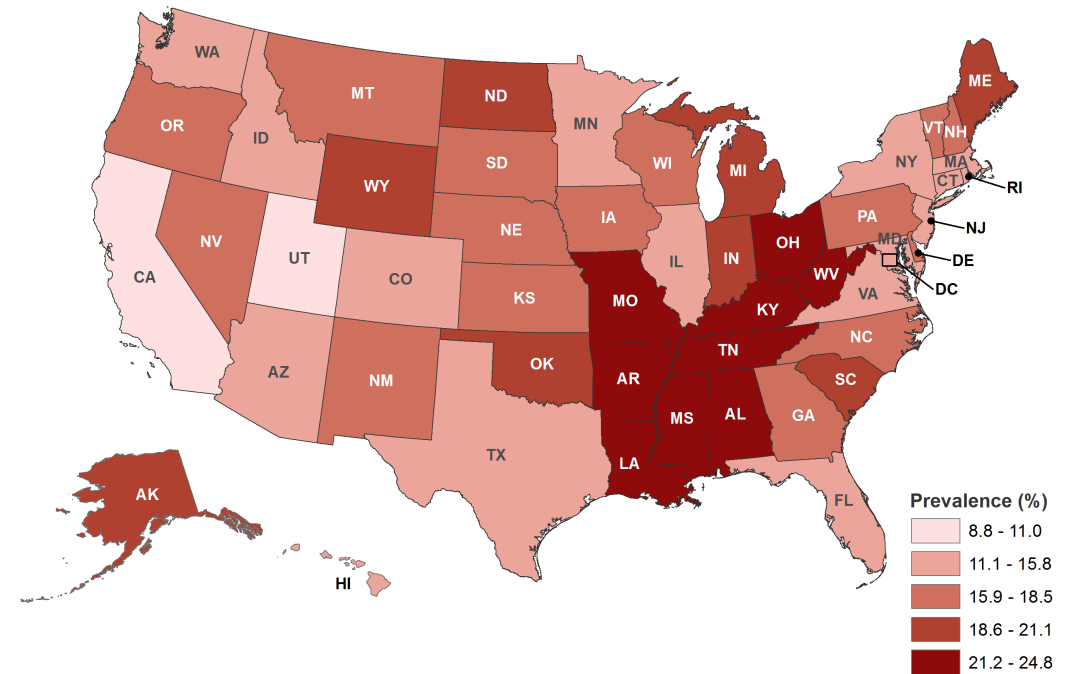
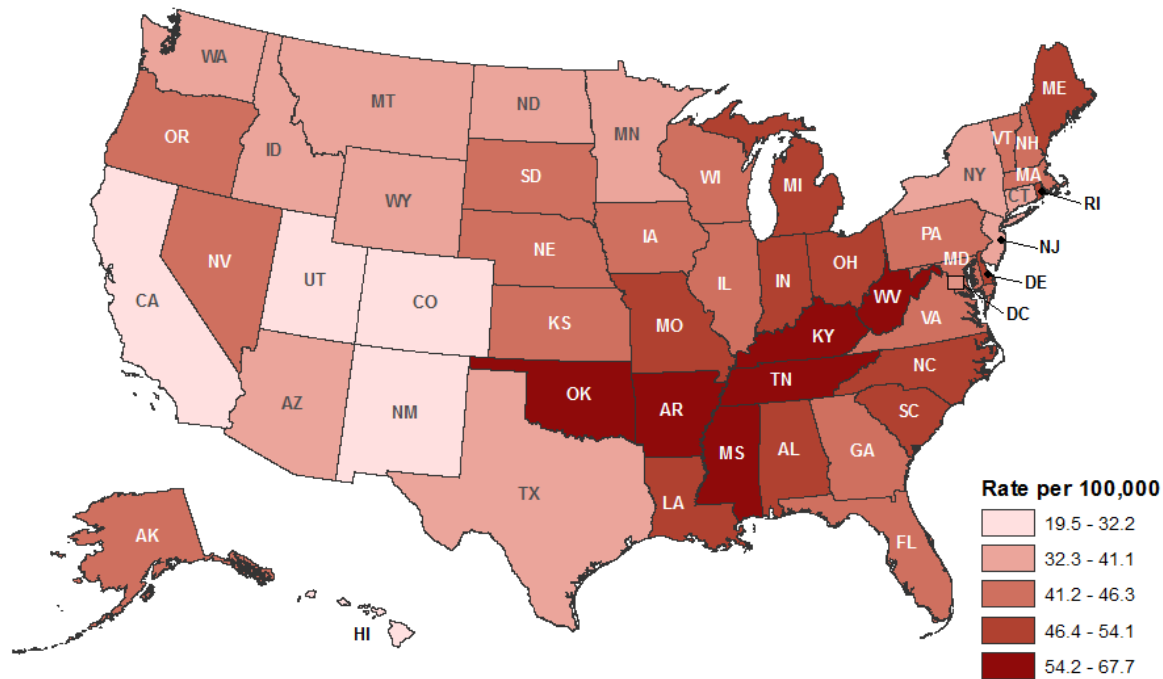


1856-1941

Disparity in Lung Cancer Death Rates by State

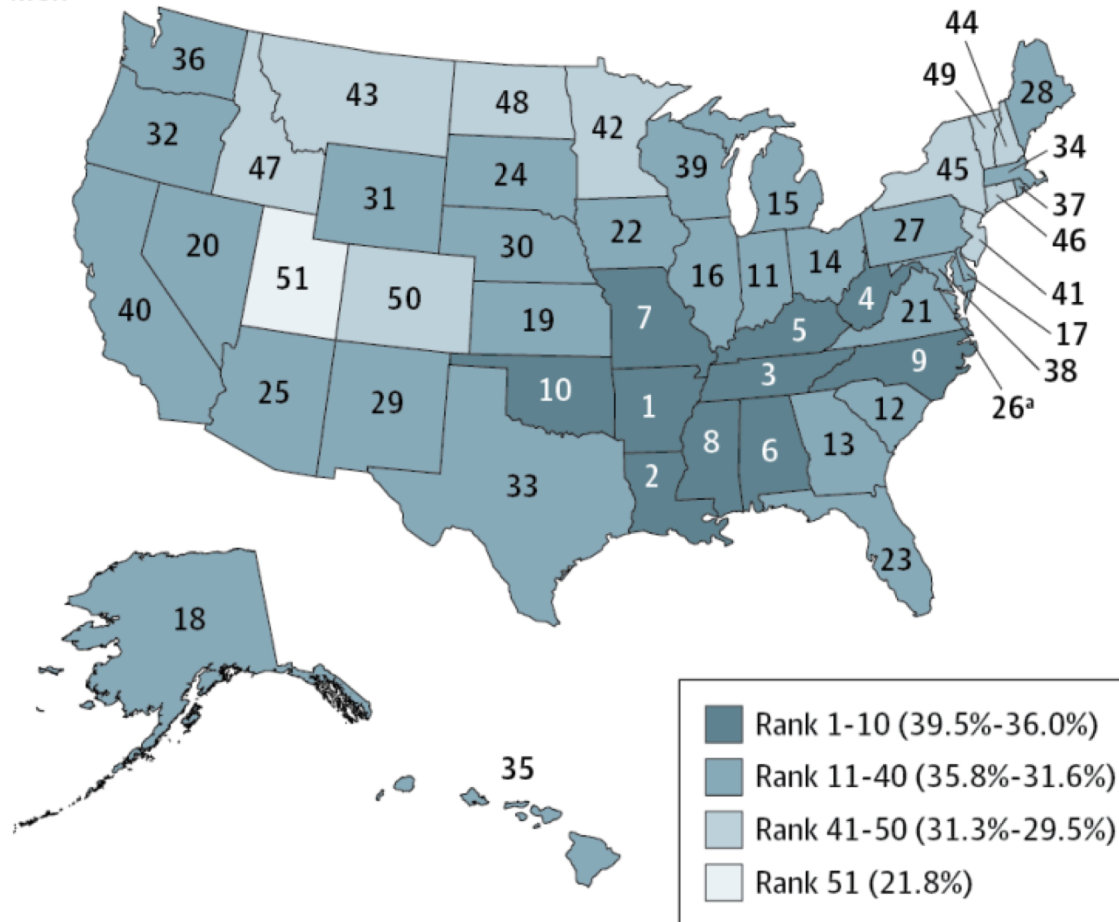
Lung cancer death rates, 2011-2015

Current cigarette smoking prevalence in adult ages 18+ years, 2016

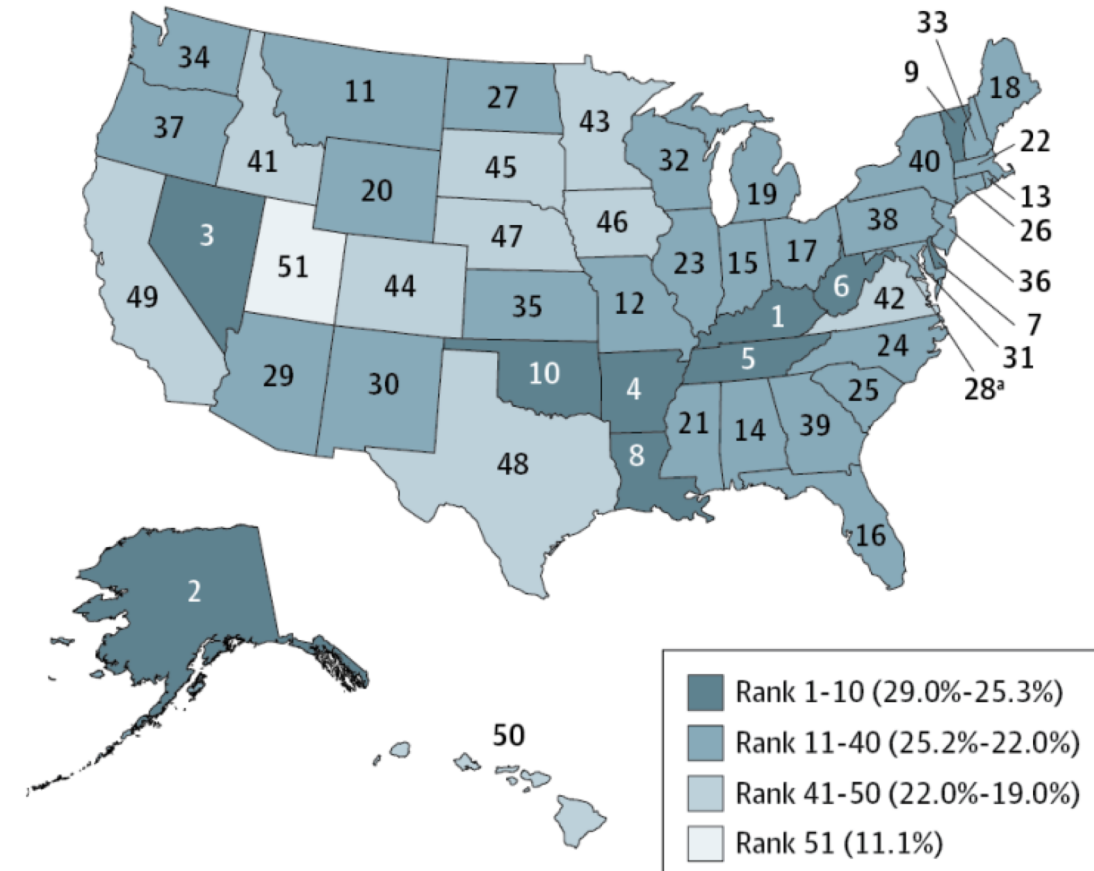


Proportion of Cancer Deaths Attributable to Smoking, 2014

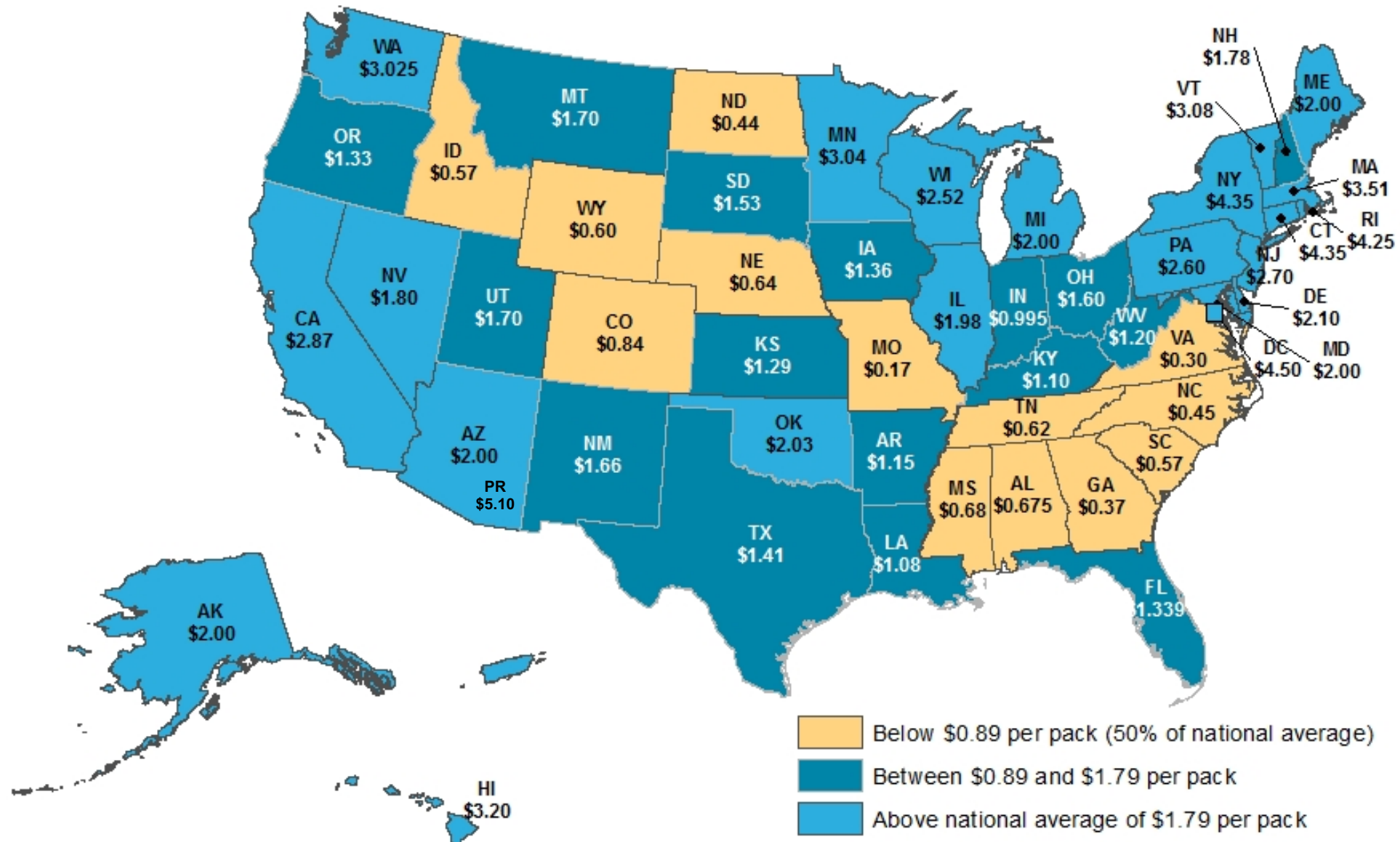
A Men



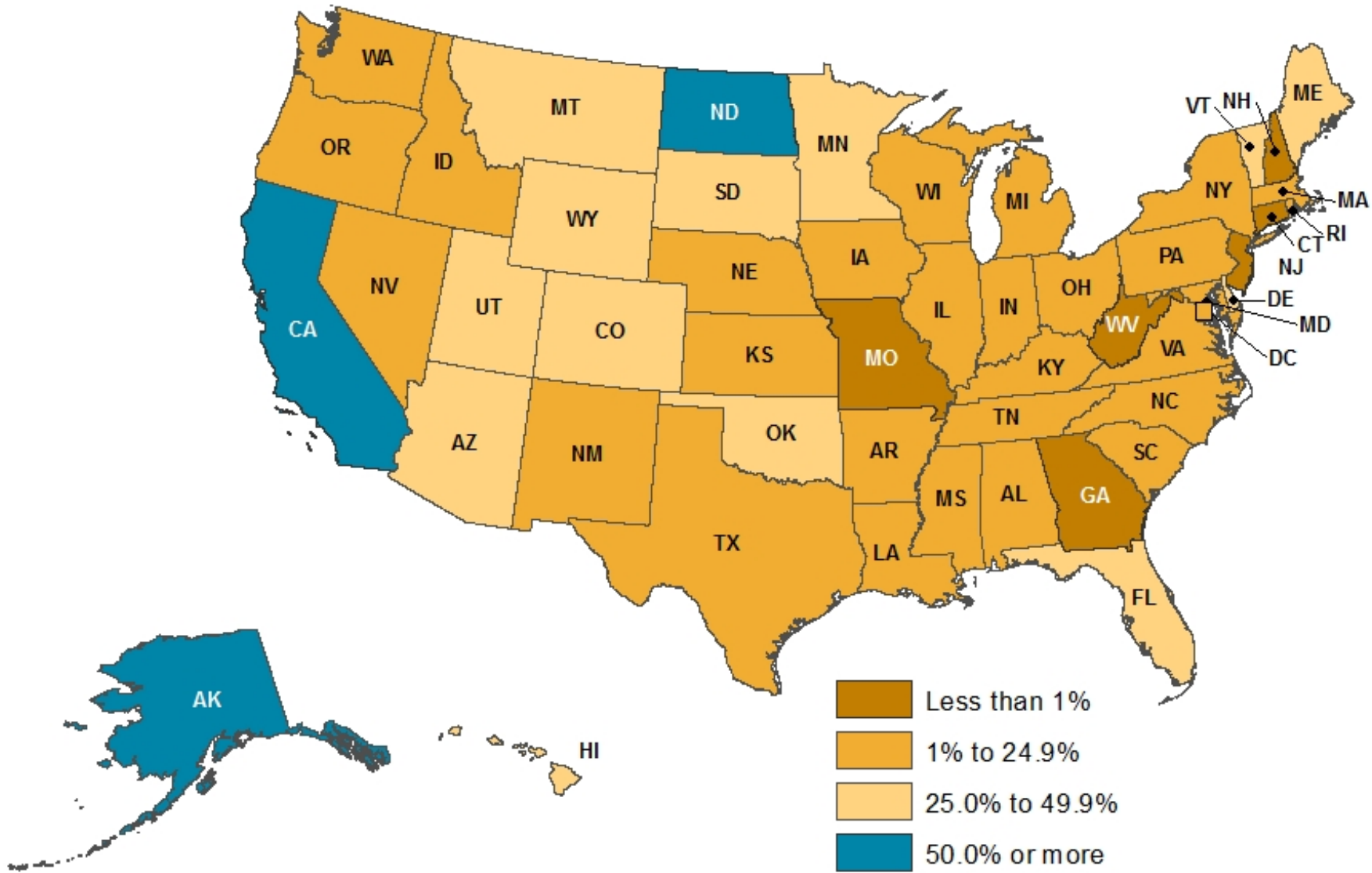
B Women



State Cigarette Excise Tax Rates, 2018 (dollars per ack)

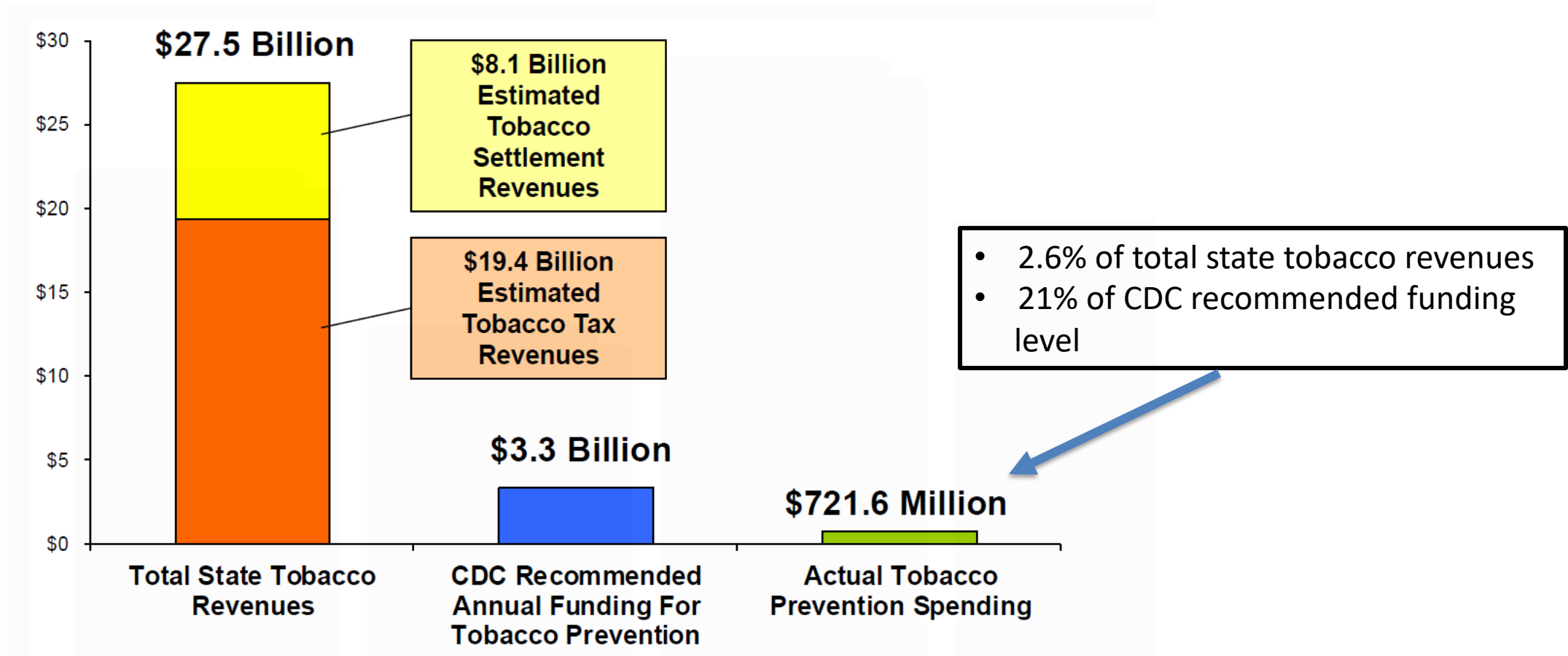


State Funding for Tobacco Control as Percent of CDC Recommendations, Fiscal Year 2018



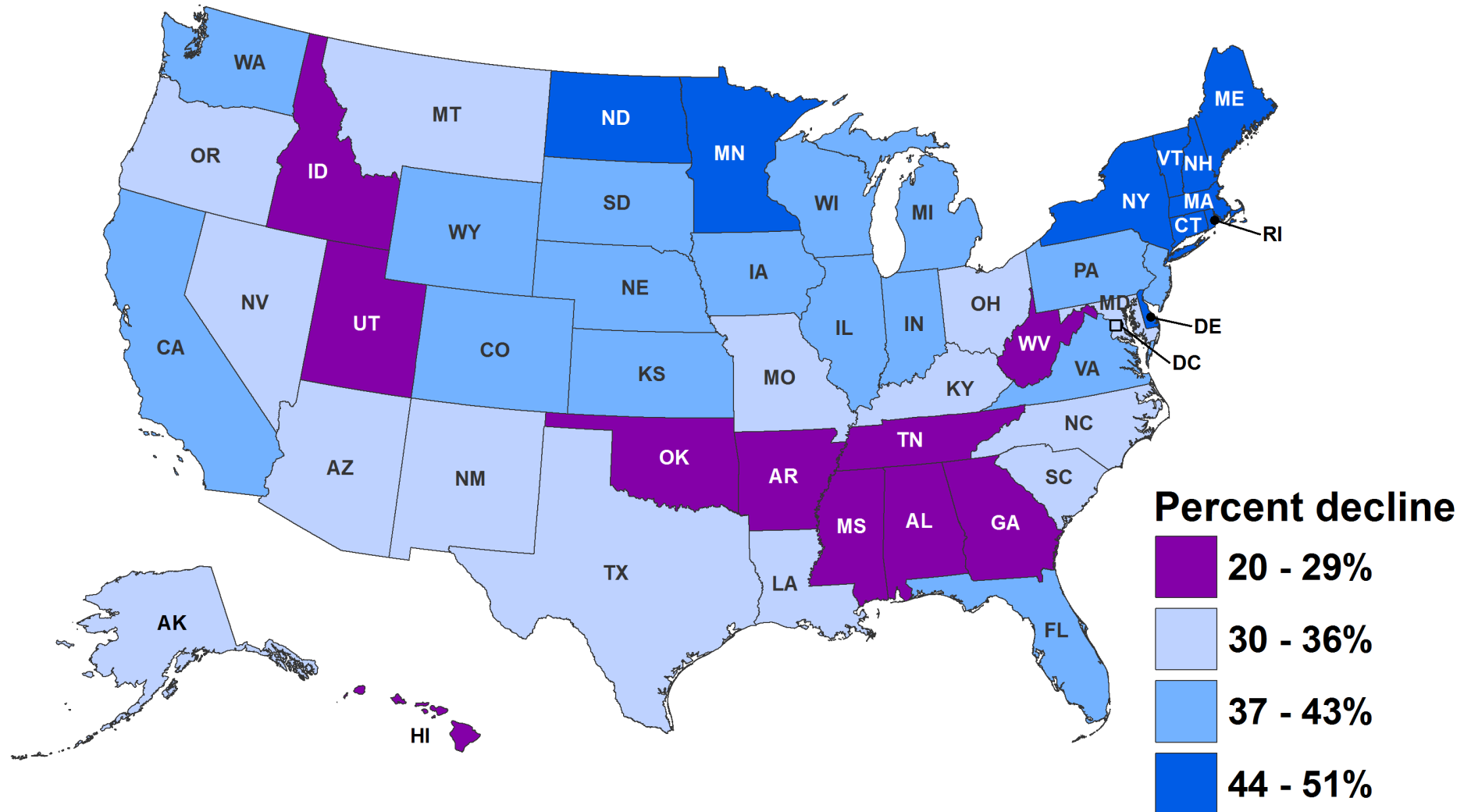
Sources: Truth Initiative, et. al., 2017. Centers for Disease Control and Prevention, 2014.

State Tobacco Prevention Spending vs. State Tobacco Revenue and CDC Recommendations, 2018

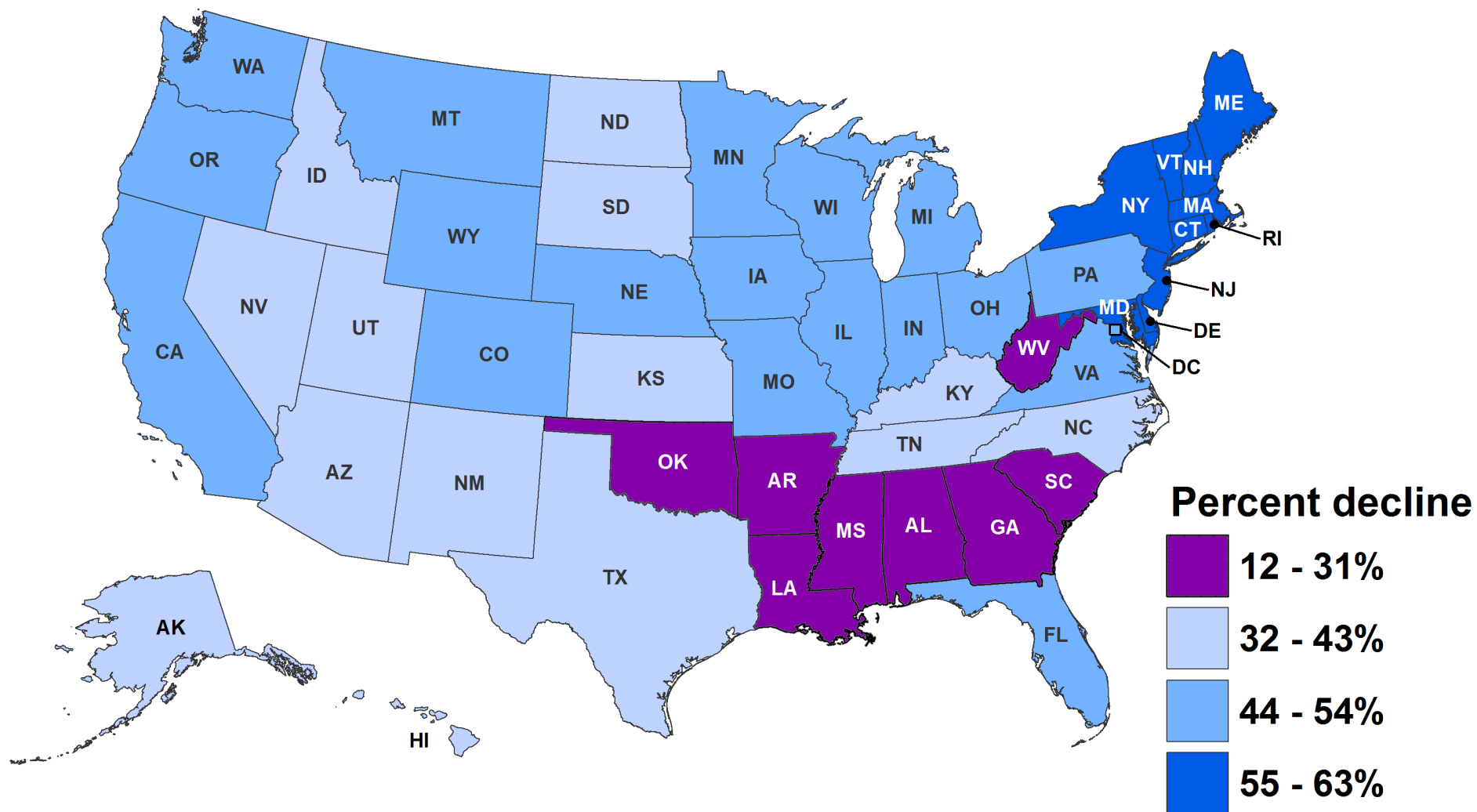


Source: Broken promises to our children: A state-by-state look at the 1998 tobacco settlement 19 years later

Decline in Female Breast Cancer Death Rates, 1988-90 to 2013-15 by State

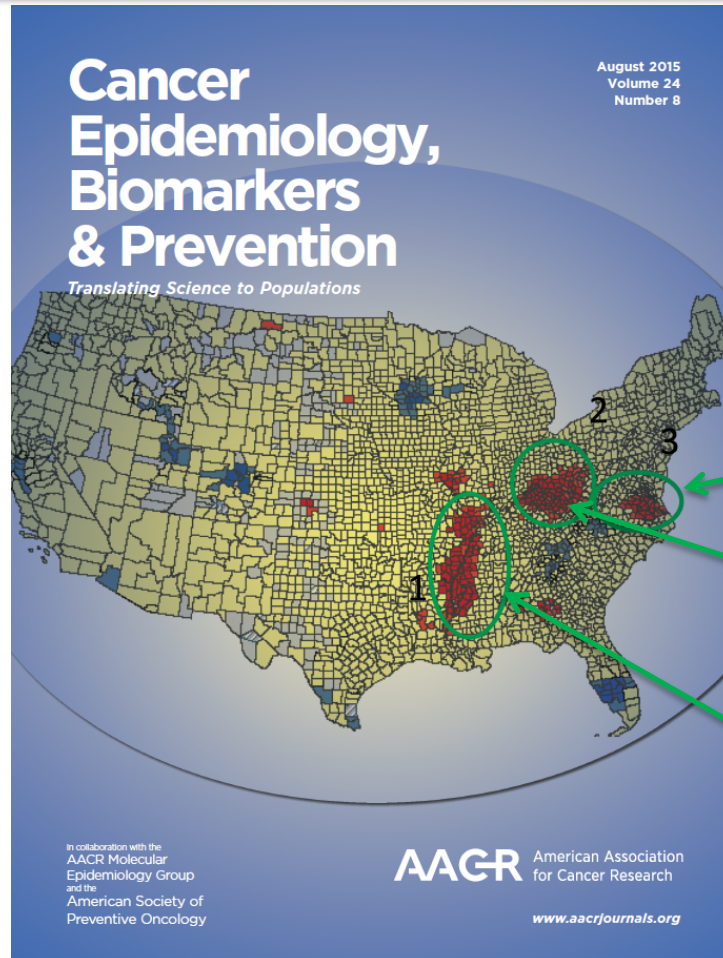


Decline in Colorectal Cancer Death Rates, 1980-82 to 2013-15 by state

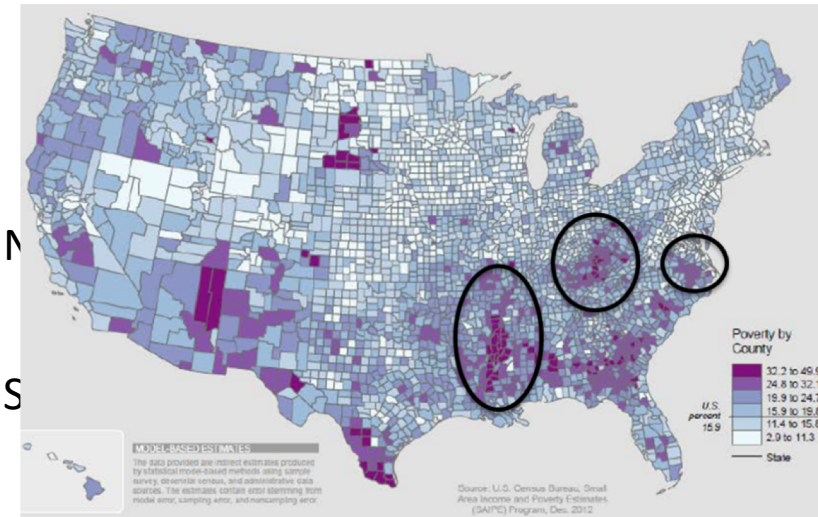


Where Can Colorectal Cancer Screening Interventions Have the Most Impact?

Rebecca L. Siegel, Liora Sahar, Anthony Robbins, and Ahmedin Jemal



Poverty rates by county, 2012



Lower Mississippi corridor

Early effects of the Affordable Care Act on Cancer Disparity

Affordable Care Act



March 2010
Signed into law

- Dependent coverage expansion
- Elimination of cost-sharing for preventive services



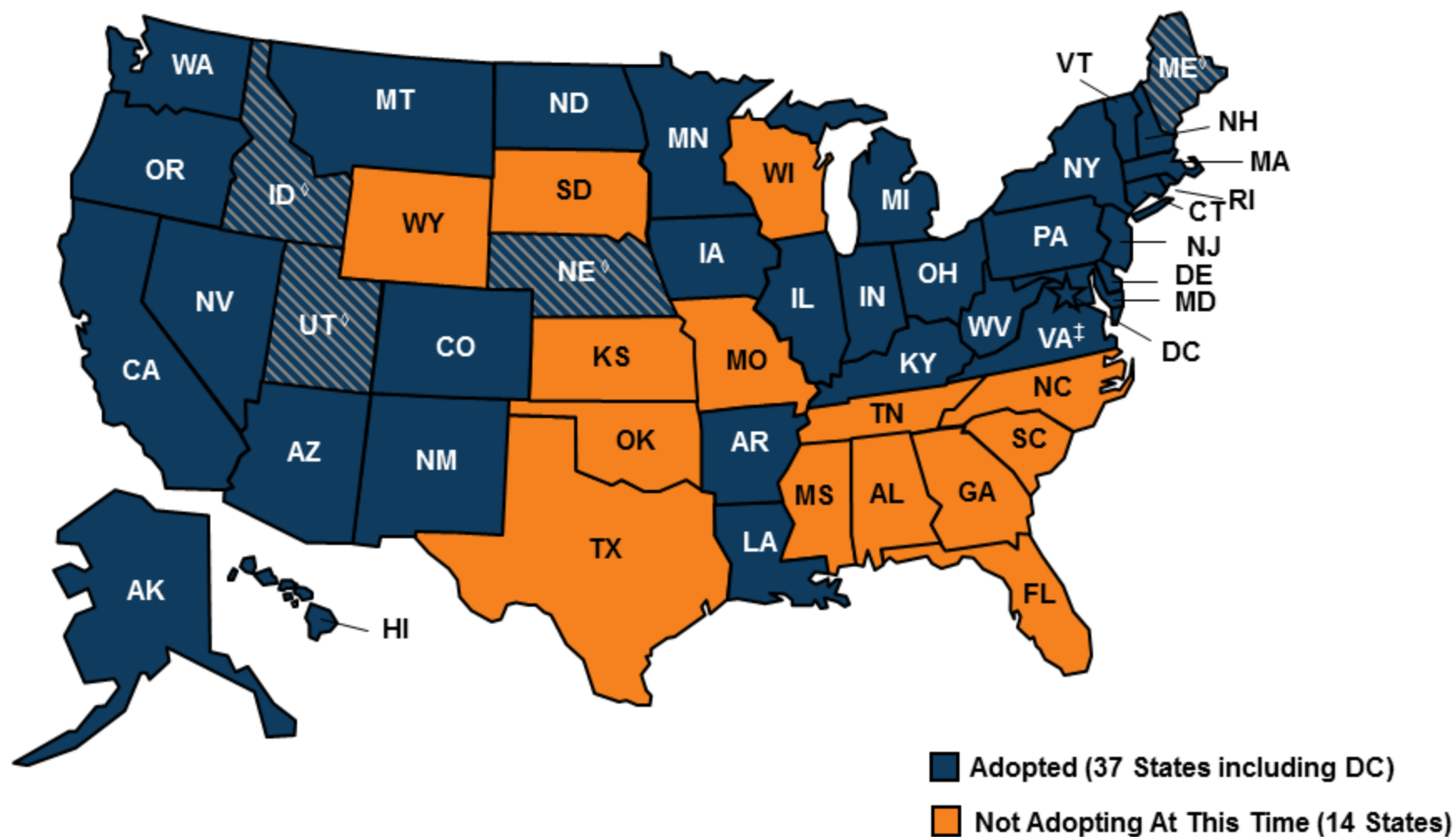
January 1, 2014

State Medicaid Expansion



To broad range of low-income adults <65 years with annual income of \$34,000 or less for a family of four in 2017

Status of State Medicaid Expansion Decisions

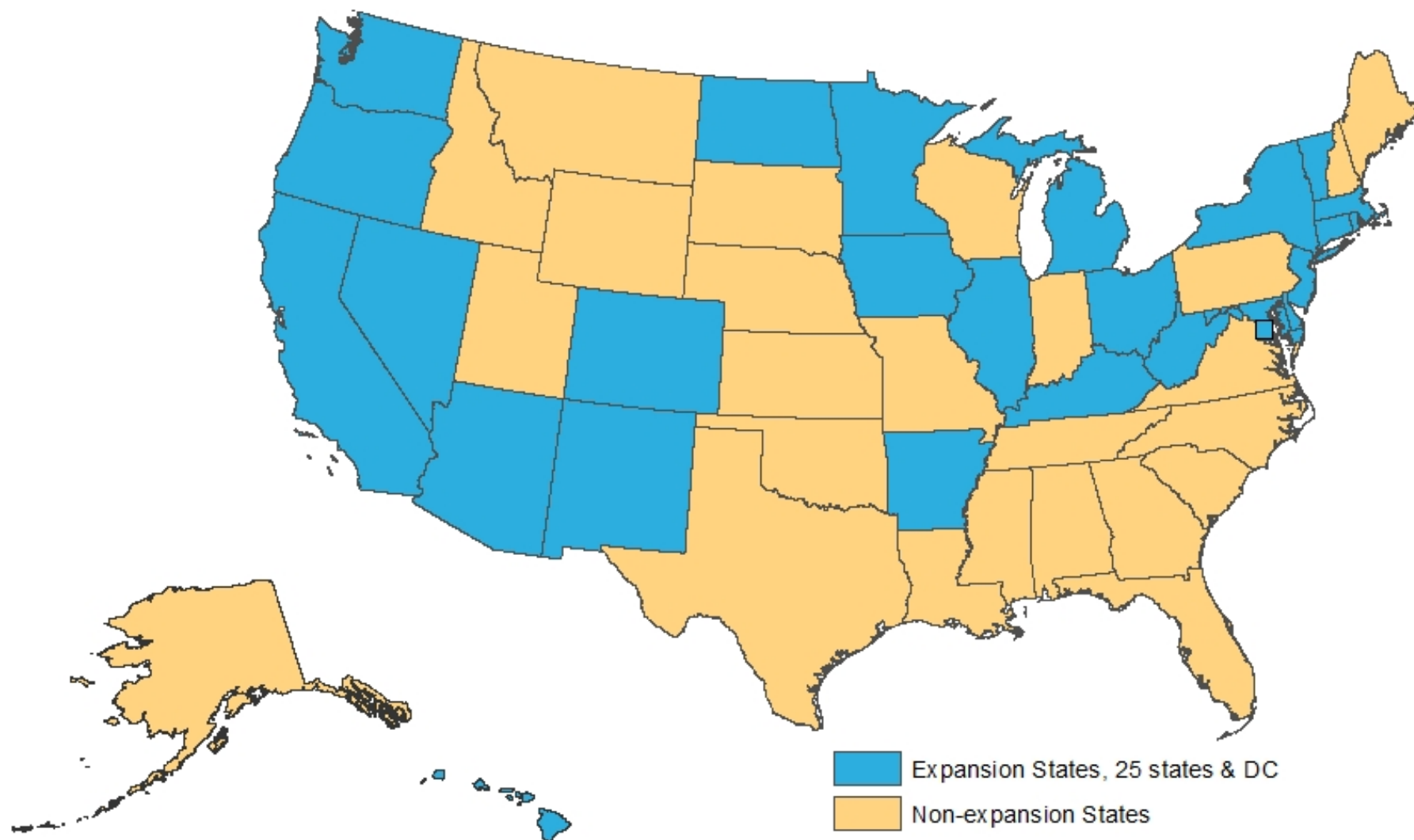


NOTES: Current status for each state is based on KFF tracking and analysis of state activity. ♦Expansion is adopted but not yet implemented in ID, ME, NE, and UT. †VA began enrollment on November 1, 2018 for Medicaid expansion coverage that will take effect on January 1, 2019. (See link below for additional state-specific notes).

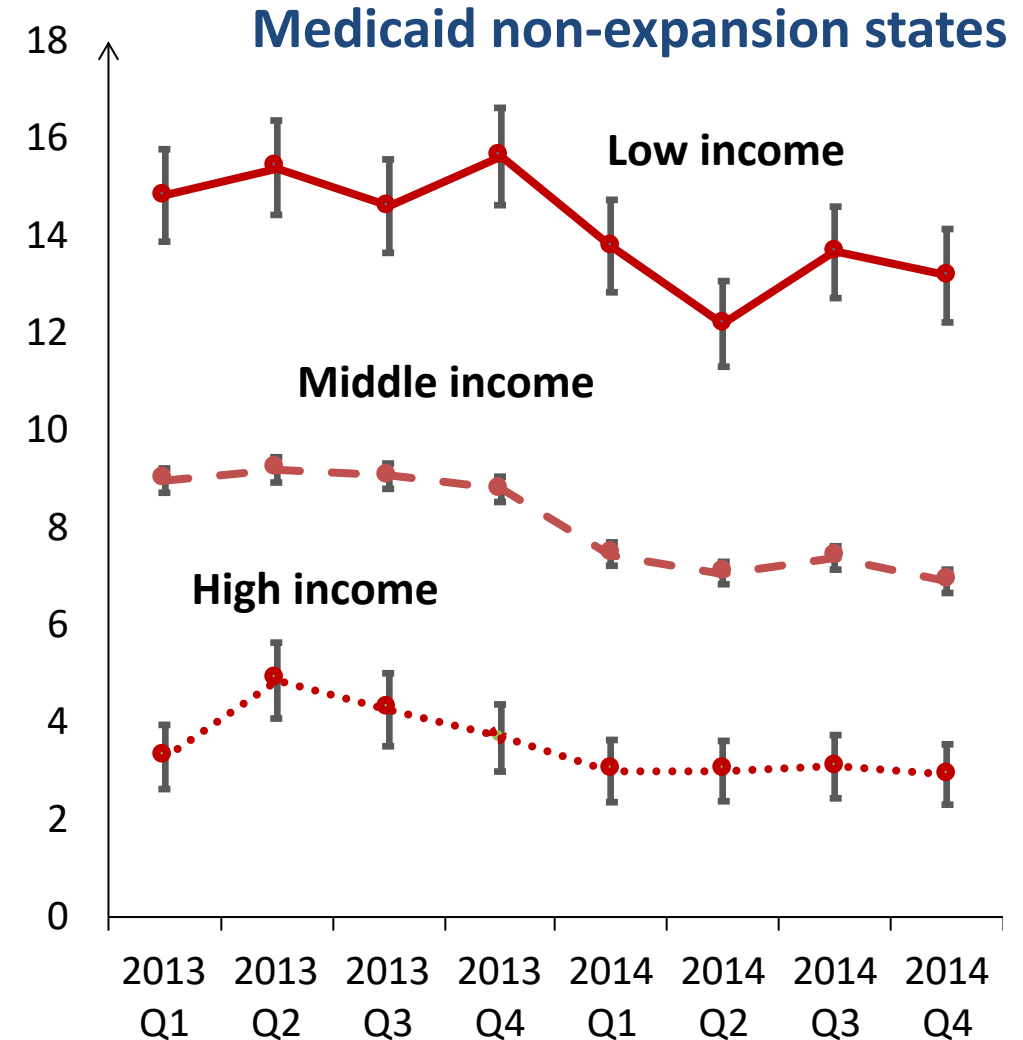
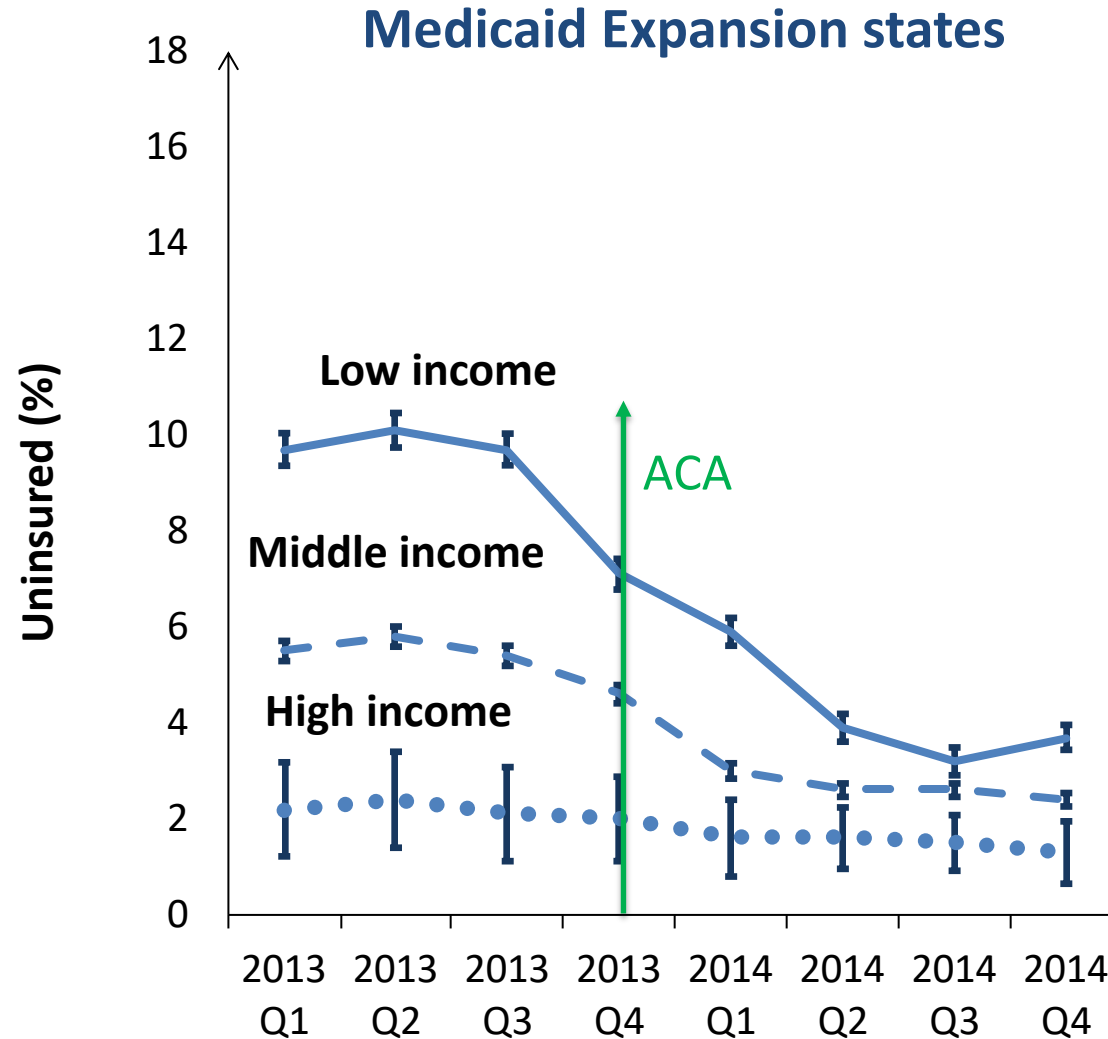
SOURCE: "Status of State Action on the Medicaid Expansion Decision," KFF State Health Facts, updated November 7, 2018.

<https://www.kff.org/health-reform/state-indicator/state-activity-around-expanding-medicaid-under-the-affordable-care-act/>

Studies on Early Effects of the ACA: Medicaid Expansion, January 1, 2014

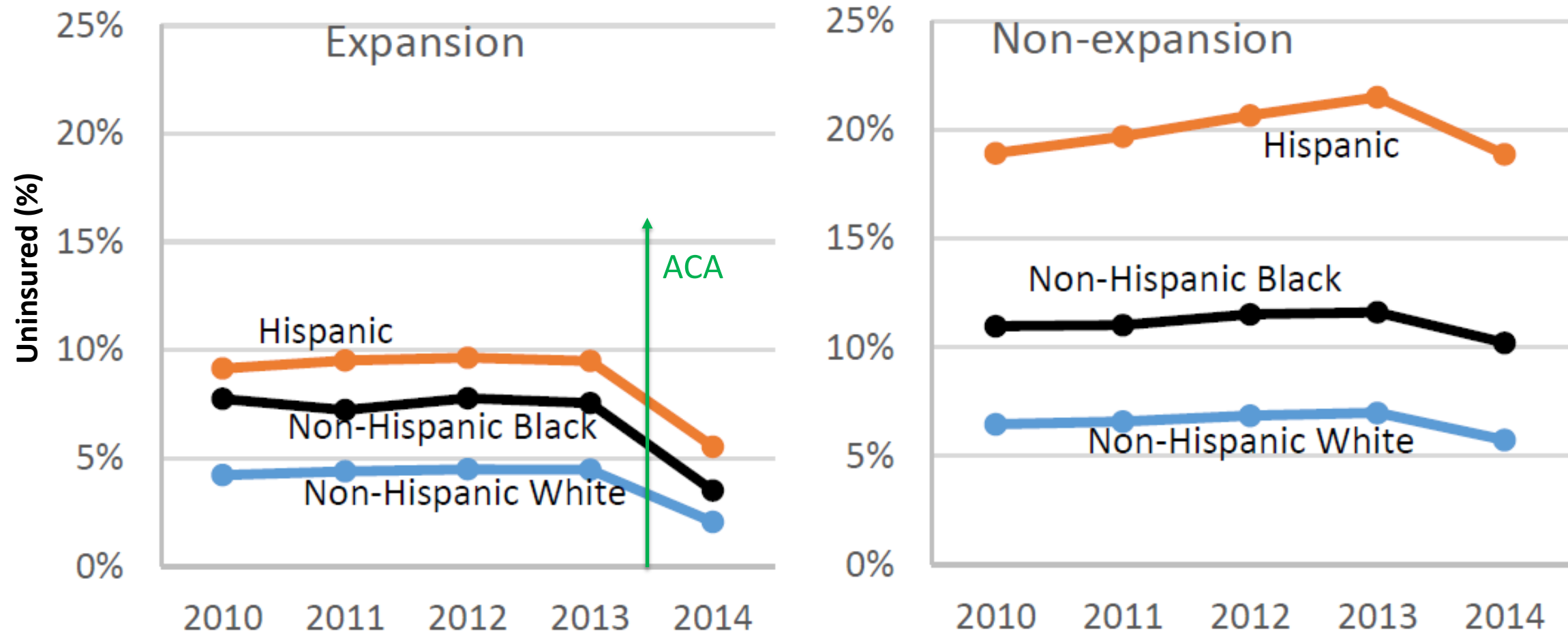


Changes in Quarterly Percent Uninsured in Newly Diagnosed Cancer Patients Ages 18-64 Years by Income Following the ACA, 2013-2014



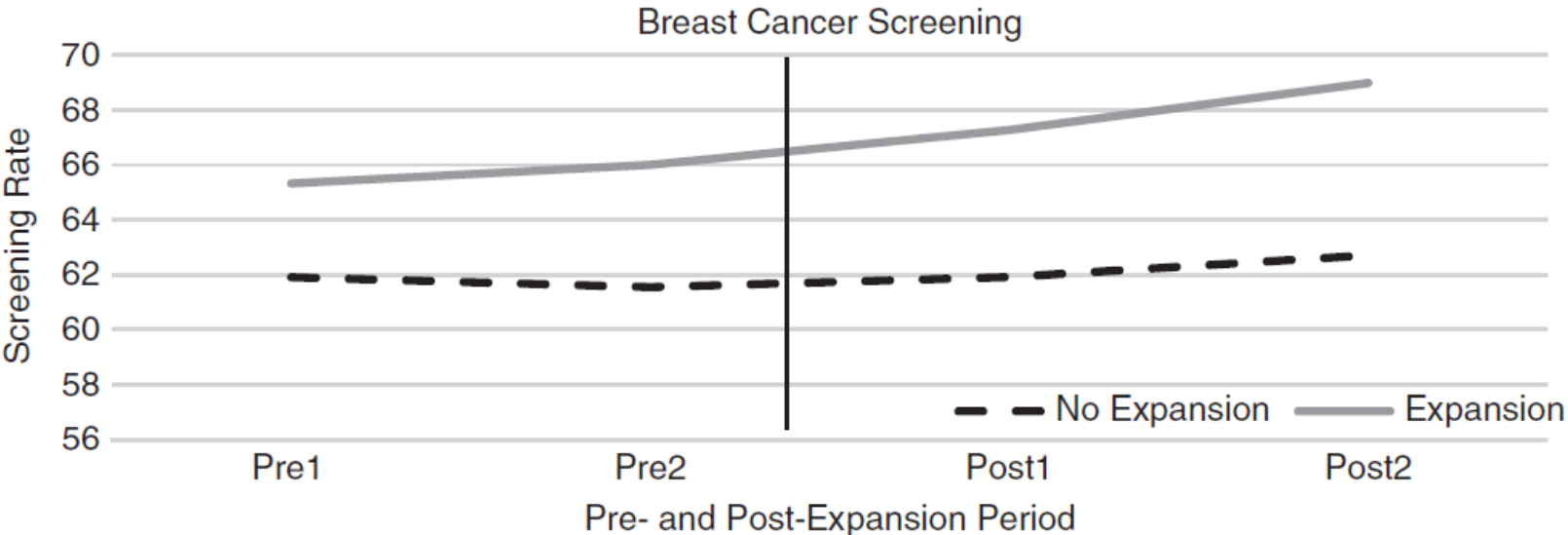
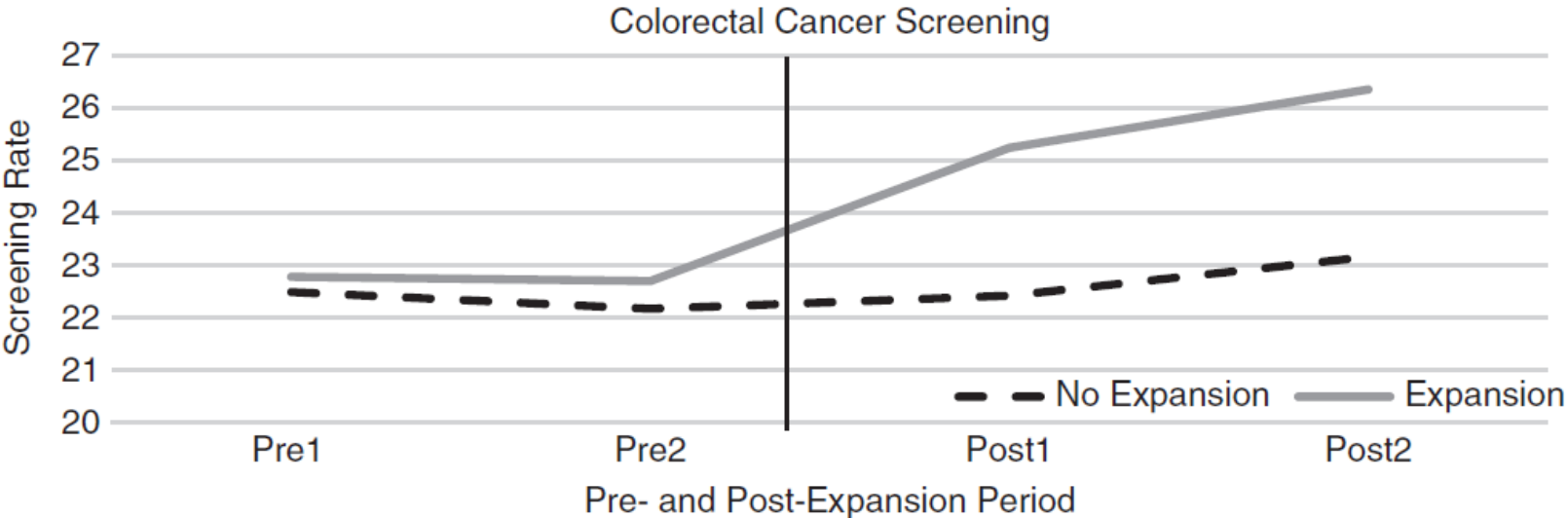
Source: Jemal et al. JCO, 2017

Changes in Percent Uninsured by Race/Ethnicity among Newly Diagnosed Cancer Patients Following the ACA

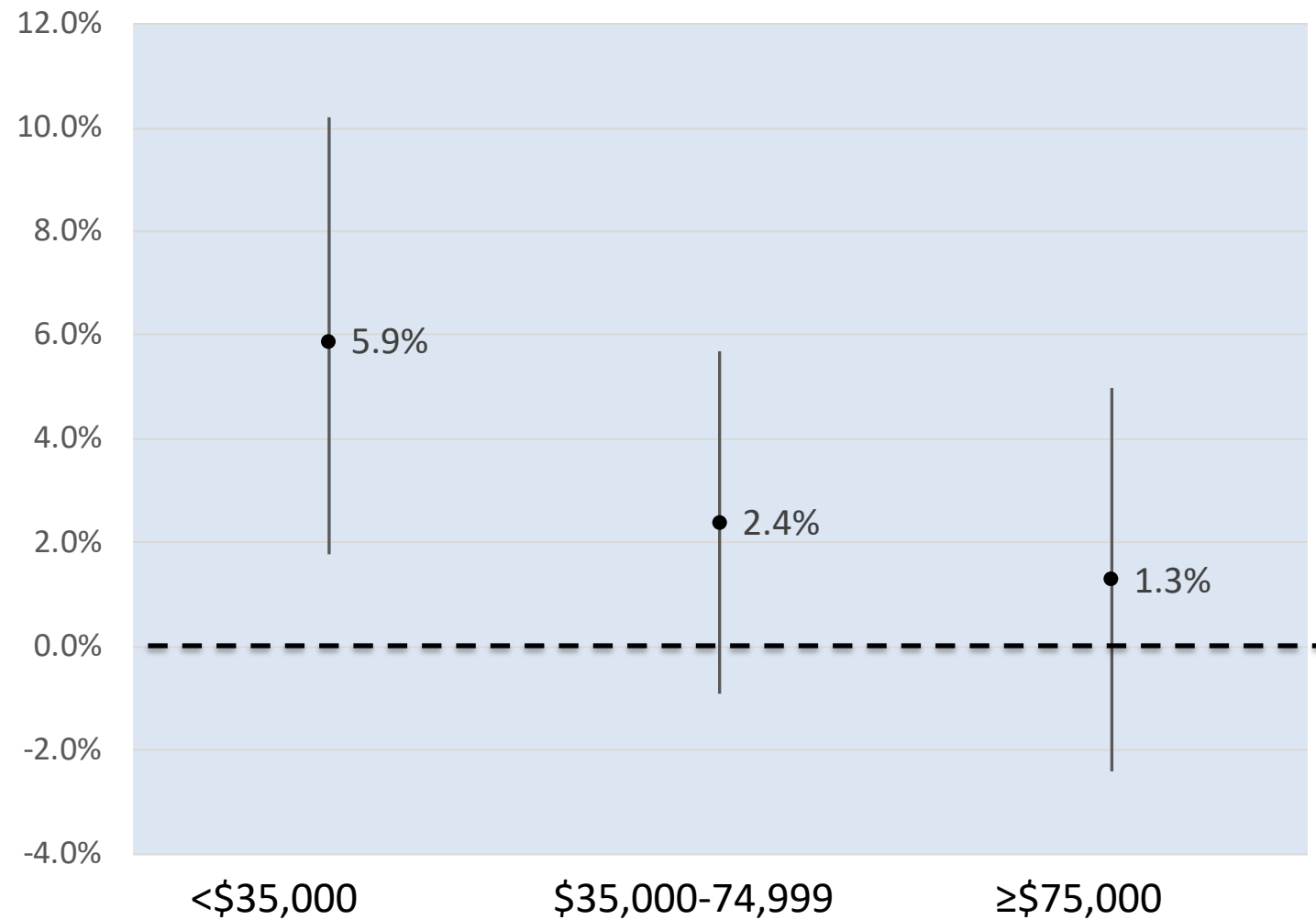


Increased Cancer Screening for Low-income Adults Under the Affordable Care Act Medicaid Expansion

Michael Hendryx, PhD* and Juhua Luo, PhD† Med Care 2018;56: 944–949)



Changes in CRC Screening Prevalence in Age 50-75 Years Following Elimination of Cost Sharing for Preventive Services (2008 vs 2013) by income



Conclusions

- Pervasive disparity in progress against cancer in the US
- Considerable opportunities for reducing disparities and accelerate progress against cancer
- Stronger policies and political commitment for broad and equitable dissemination of known interventions

Thank you!