

Session Twelve

Colorectal Cancer Facts & Figures: Key Findings



1:30 PM to 2:00 PM

Colorectal Cancer Facts & Figures: Key Findings



Rebecca Siegel
MPH



Colorectal Cancer Statistics 2023

Rebecca Siegel, MPH

Senior Scientific Director, Surveillance Research
American Cancer Society

Colorectal cancer statistics 2023

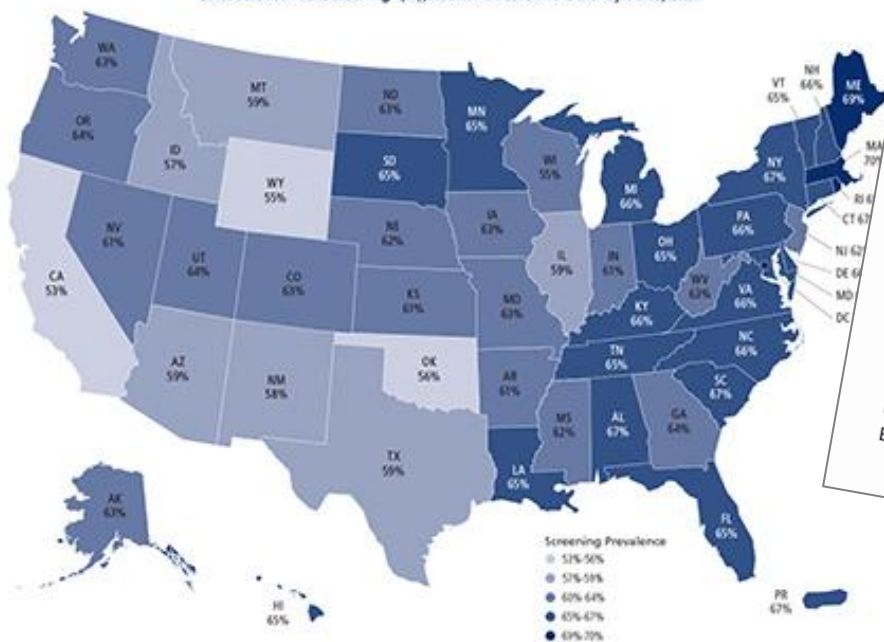


Rebecca Siegel, MPH
NCCRT Annual Meeting
November 16, 2023



Colorectal Cancer Facts & Figures 2023-2025

Colorectal Cancer Screening* (%), Adults 45 Years and Older by State, 2020



*Blood/DNA stool test, sigmoidoscopy, or colonoscopy in the past 1/3, 5, or 10 years, respectively. Note: Estimates are age adjusted to the 2000 US standard population and do not distinguish between examinations for screening and diagnosis. Source: Behavioral Risk Factors Surveillance System, 2020.

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ARTICLE

Colorectal cancer statistics, 2023

Rebecca L. Siegel MPH¹ | Andrea Cercek MD² | Robert A. Smith PhD³ | Nikita Sandeep Wagle MBBS, MHA, PhD¹ | Ahmedin Jemal DVM, PhD¹

¹Surveillance and Health Equity Science, American Cancer Society, Atlanta, Georgia, USA

²Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, New York, USA

³Early Cancer Detection Science, American Cancer Society, Atlanta, Georgia, USA

Correspondence

Rebecca L. Siegel, Surveillance Research, American Cancer Society, 3380 Chastain Meadows Parkway NW, Suite 200, Kennesaw, GA 30144, USA.
Email: rebecca.siegel@cancer.org

Abstract

Colorectal cancer (CRC) is the second most common cause of cancer death in the United States. Every 3 years, the American Cancer Society provides an update of CRC statistics based on incidence from population-based cancer registries and mortality from the National Center for Health Statistics. In 2023, approximately 153,020 individuals will be diagnosed with CRC and 52,550 will die from the disease, including 19,550 cases and 3750 deaths in individuals younger than 50 years. The decline in CRC incidence slowed from 3%–4% annually during the 2000s to 1% annually during 2011–2019, driven partly by an increase in individuals younger than 55 years of 1%–2% annually since the mid-1990s. Consequently, the proportion of cases among those younger than 55 years increased from 11% in 1995 to 20% in 2019. Incidence since circa 2010 increased

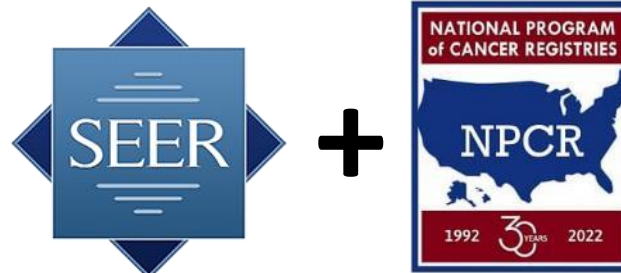
Objectives

- Monitor progress against colorectal cancer
- Report emerging trends
- Evaluate disparities
 - geography
 - race and ethnicity
 - American Indian & Alaska Native persons

Data sources

Incidence

- Surveillance, Epidemiology, & End Results (SEER) Program, National Cancer Institute
 - ✓ Long-term
 - ✓ Limited population coverage
 - ✓ Survival, probability of developing/dying, prevalence
- National Program of Cancer Registries (NPCR), CDC
 - ✓ Since 1995
 - ✓ More complete
- North American Association of Central Cancer Registries (NAACCR)
 - ✓ Near-complete population coverage
 - ✓ Delay-adjusted from 1998 (90% coverage)



Data sources and analysis



Mortality

National Center for Health Statistics (NCHS)

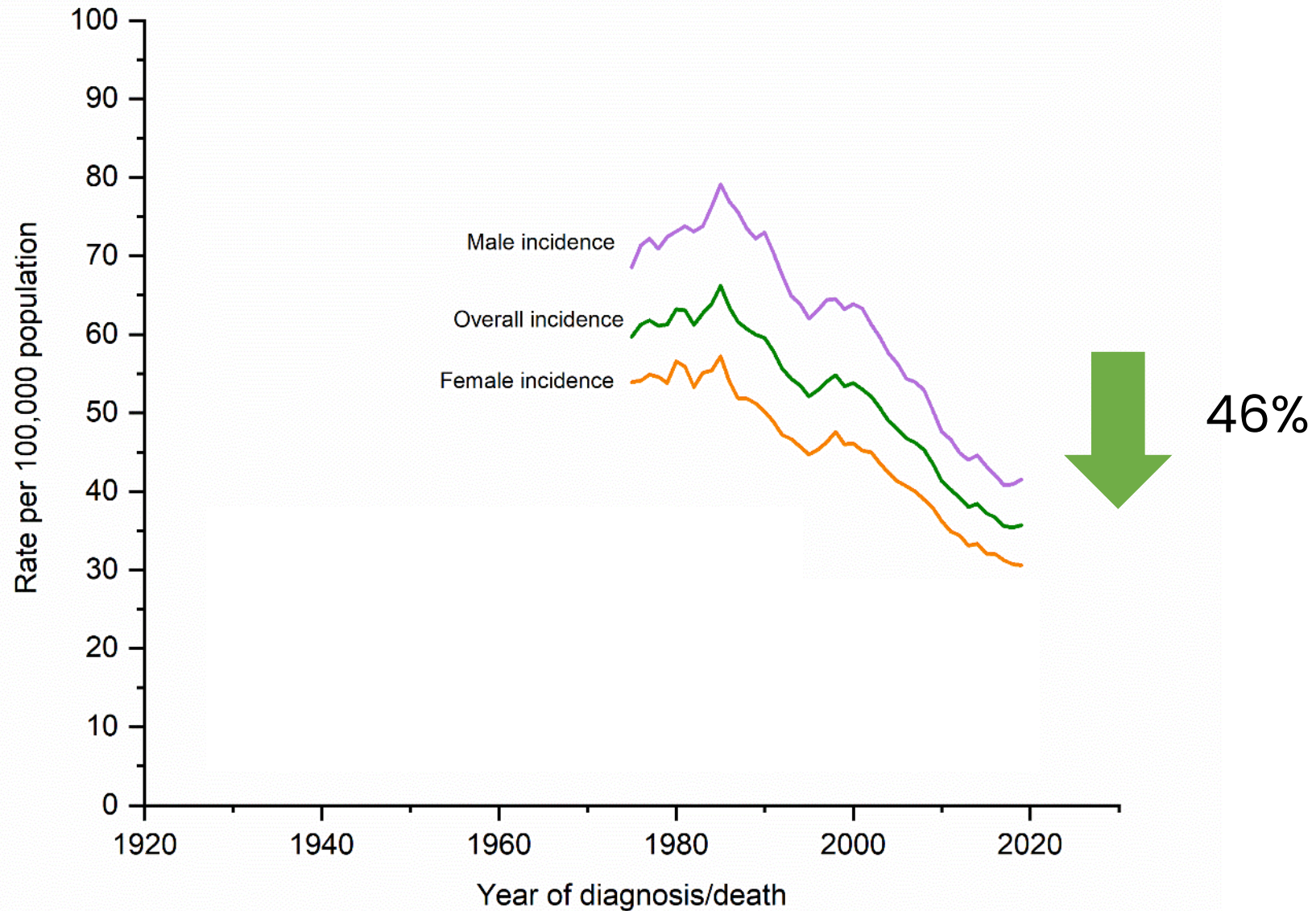
Underlying cause of death recorded on death certificates filed in 50 states & DC

- ✓ 1930-2020
- ✓ 99+% population coverage

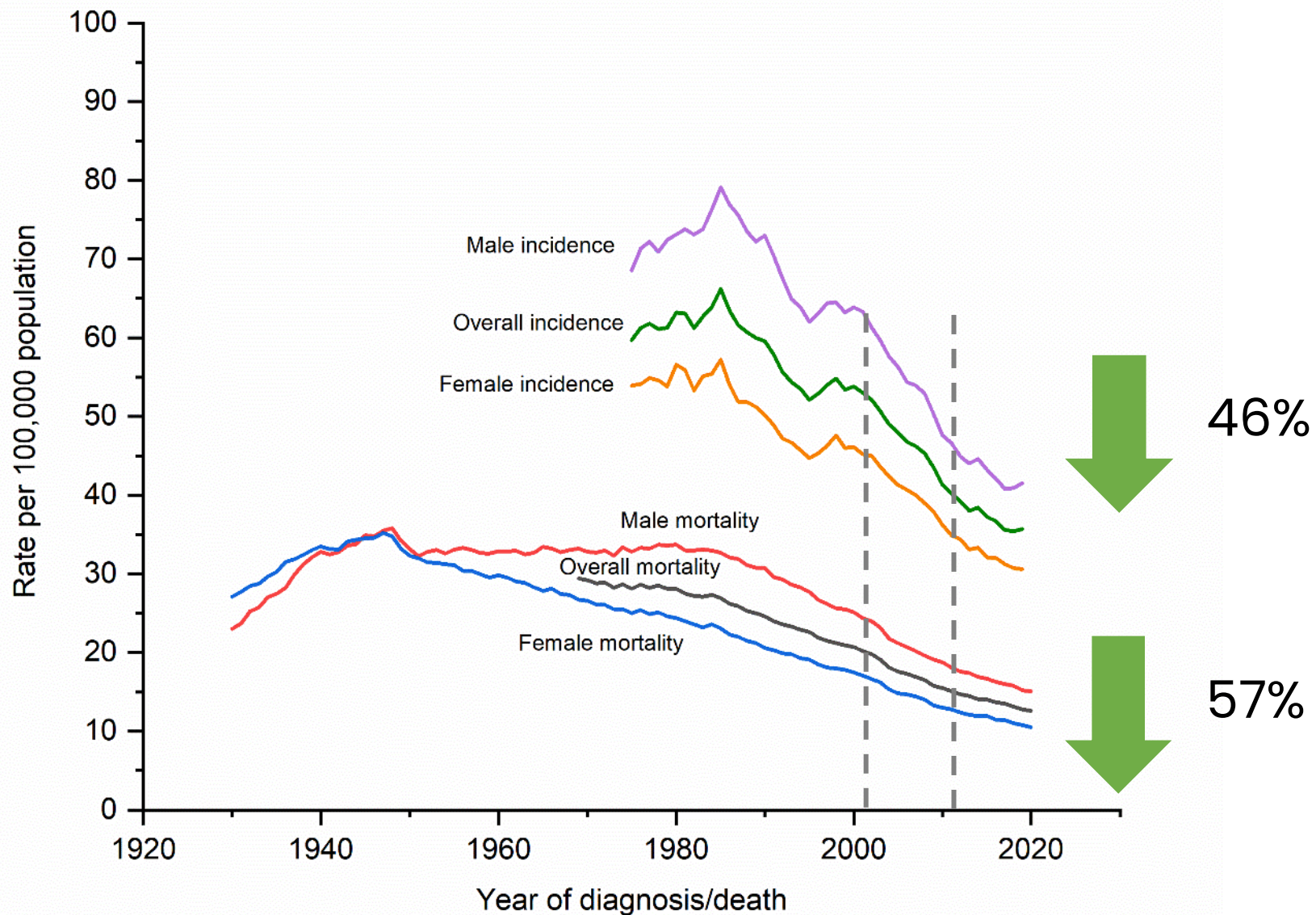
Additional statistics

- 2023 Case/Death Estimates
 - ✓ Spatio-temporal modeling & projection
 - ✓ Method revised in 2021
- Trend & other analyses – NCI software
 - ✓ SEER*Stat, version 8.3.9
 - ✓ Joinpoint Regression Program, version 4.9.0.1

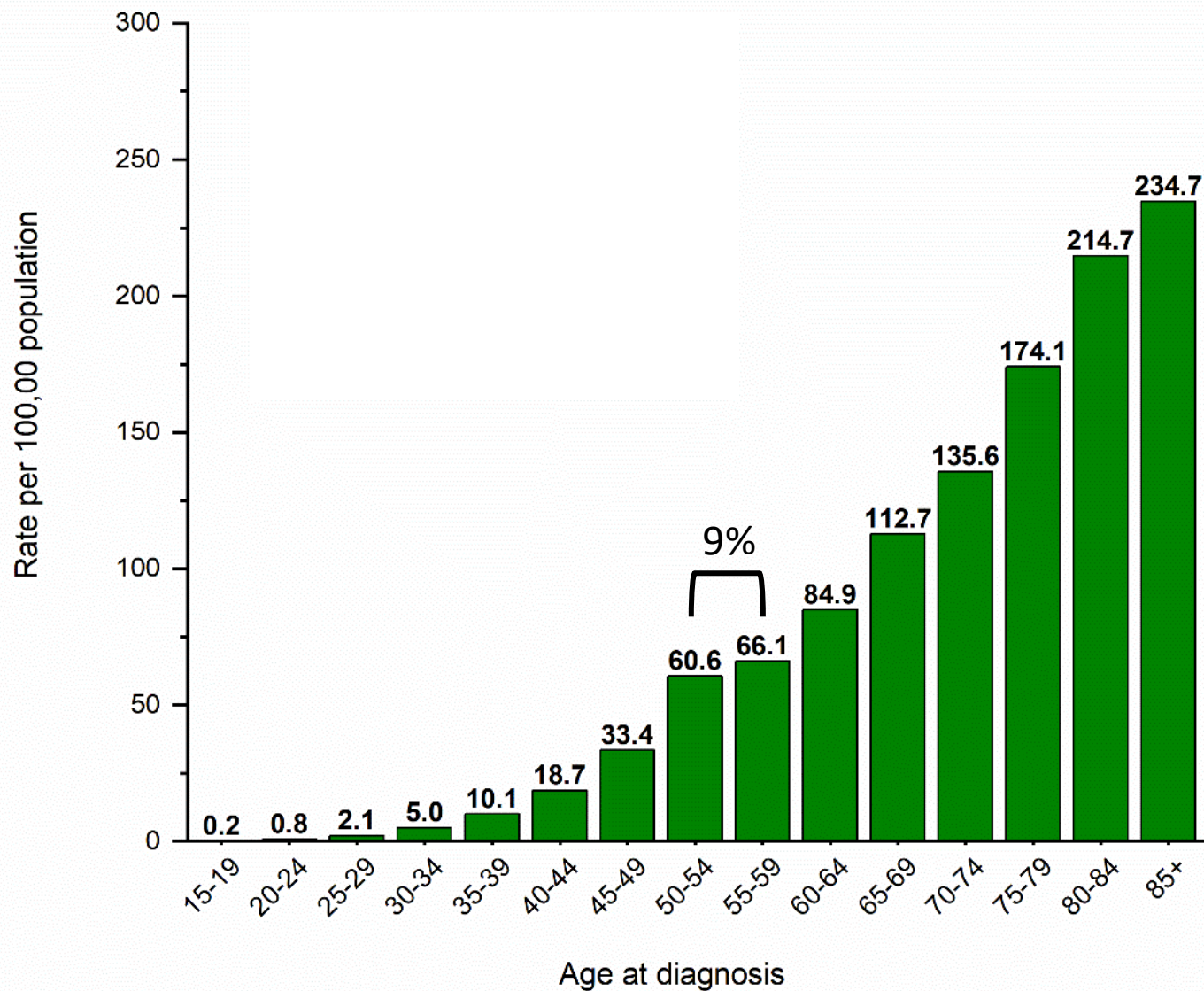
Long-Term Trends in Colorectal Cancer Incidence, 1975–2020 , US



Long-Term Trends in Colorectal Cancer Incidence, 1975–2020 , US



Age-specific Colorectal Cancer Incidence Rates, 2015–2019, US

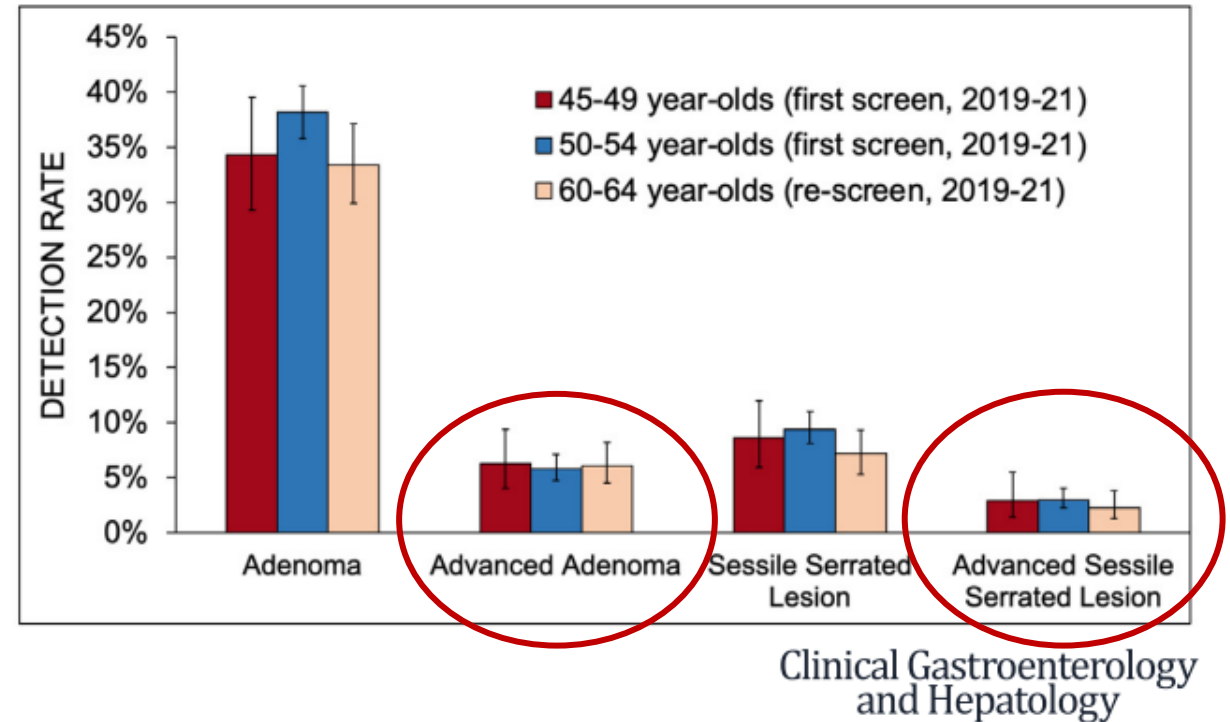
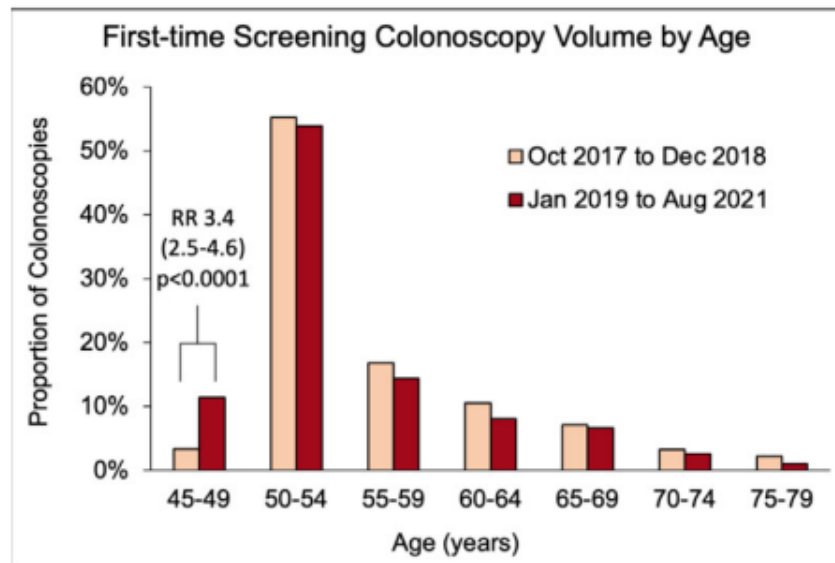


Adenoma and Sessile Serrated Lesion Detection Rates at Screening Colonoscopy for Ages 45–49 Years vs Older Ages Since the Introduction of New Colorectal Cancer Screening Guidelines

Uri Ladabaum,¹ John Shepard,² and Ajitha Mannalithara¹

Colonoscopy volume and lesion detection rates in 45-49 year-olds

- Modest increase in proportion of first-time screening colonoscopies at ages 45-49
- Yield comparable to ages 50-54 at first-time screening and ages 60-64 at repeat screening



Estimated New Colorectal Cancer Cases and Deaths in 2023

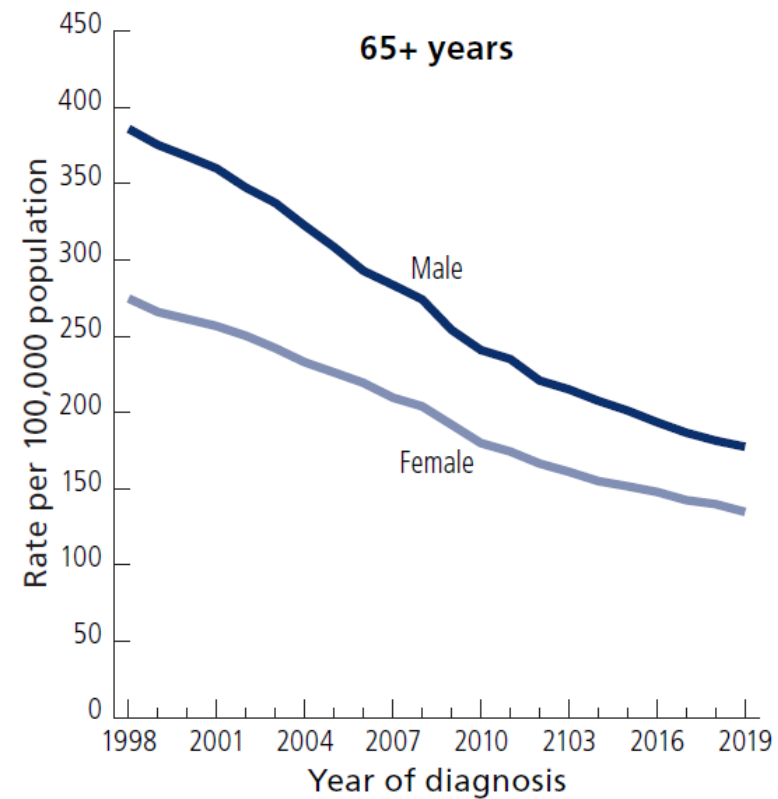
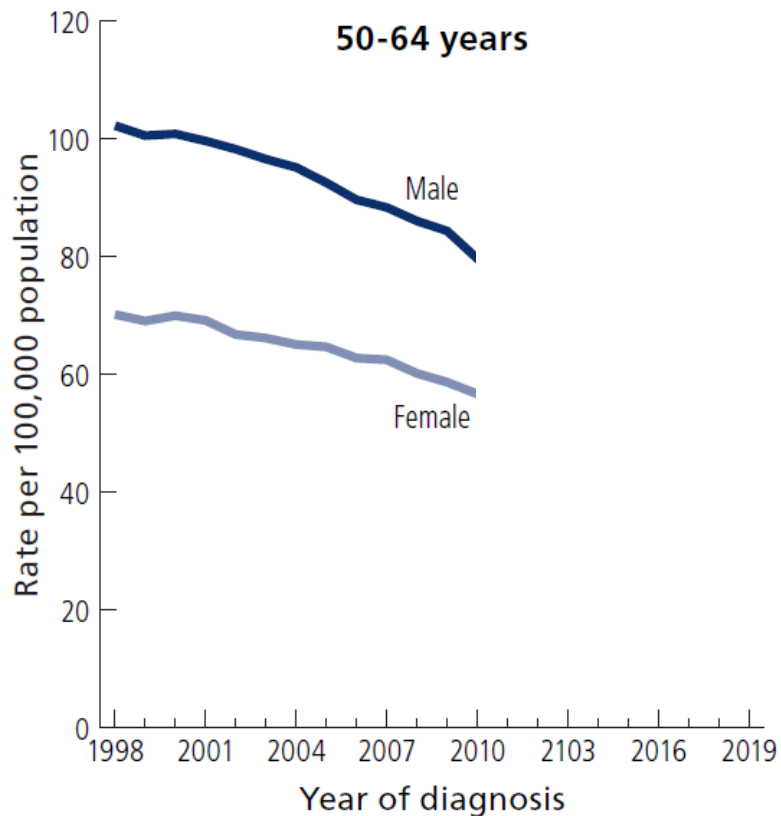
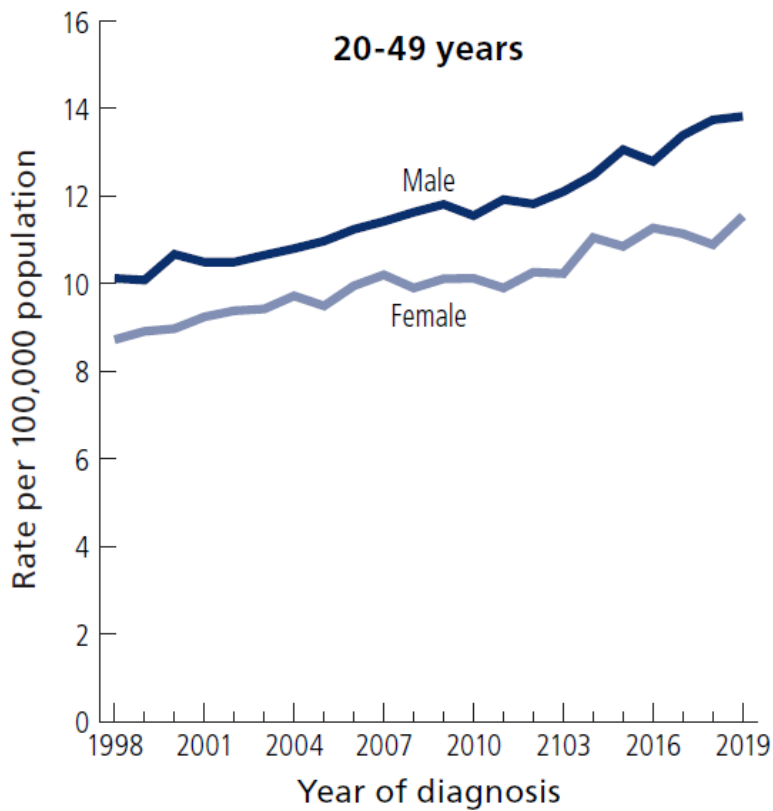
CASES		
Age, years	Total	Percent
0-49	19,550	13%
50-64	48,210	32%
65+	85,260	56%
All ages	153,020	100%

DEATHS		
Age, years	Total	Percent
0-49	3,750	7%
50-64	13,160	25%
65+	35,640	68%
All ages	52,550	100%

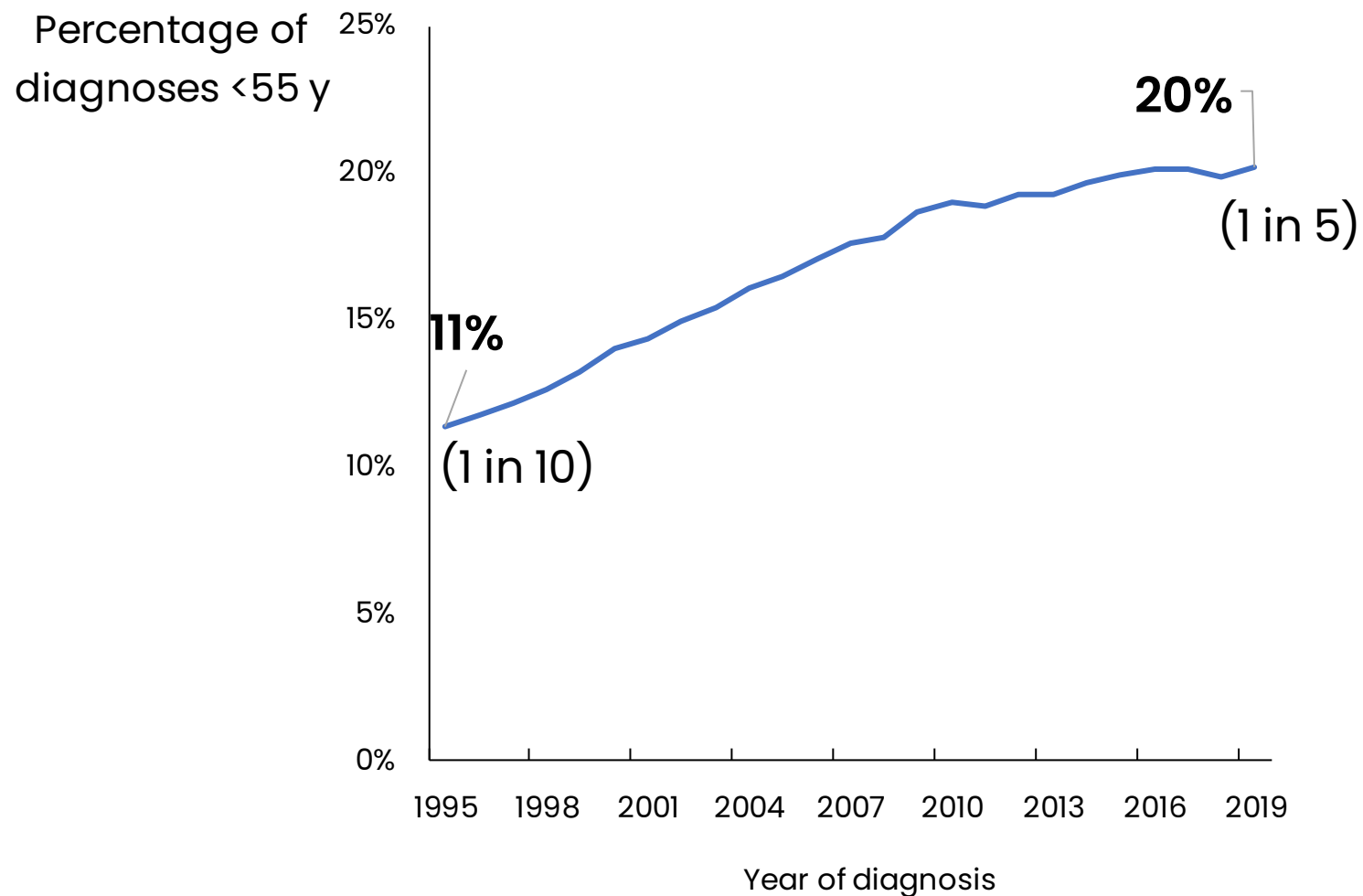
45% of cases in ages <65 yrs, up from **27%** in 1995



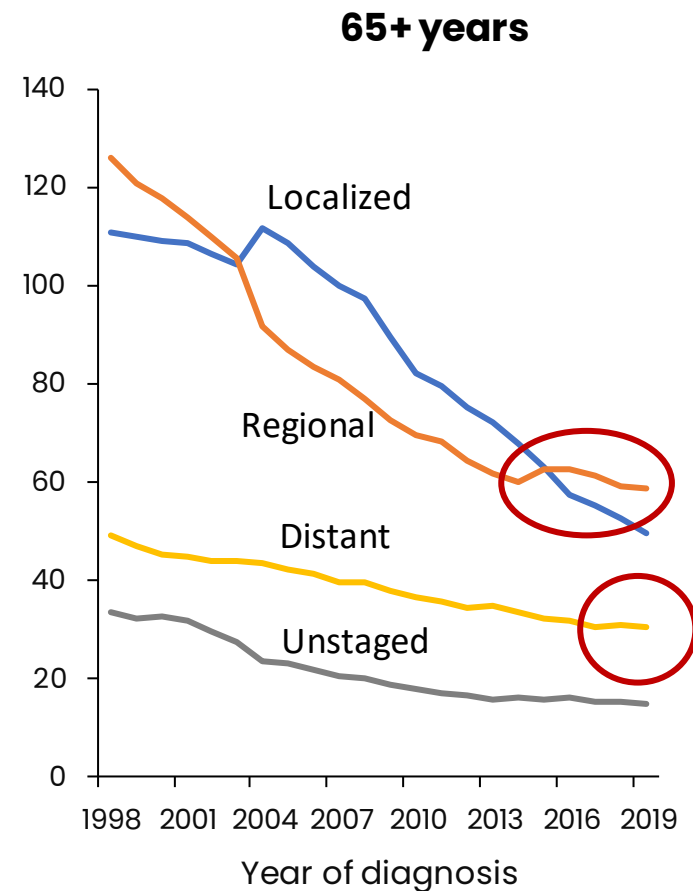
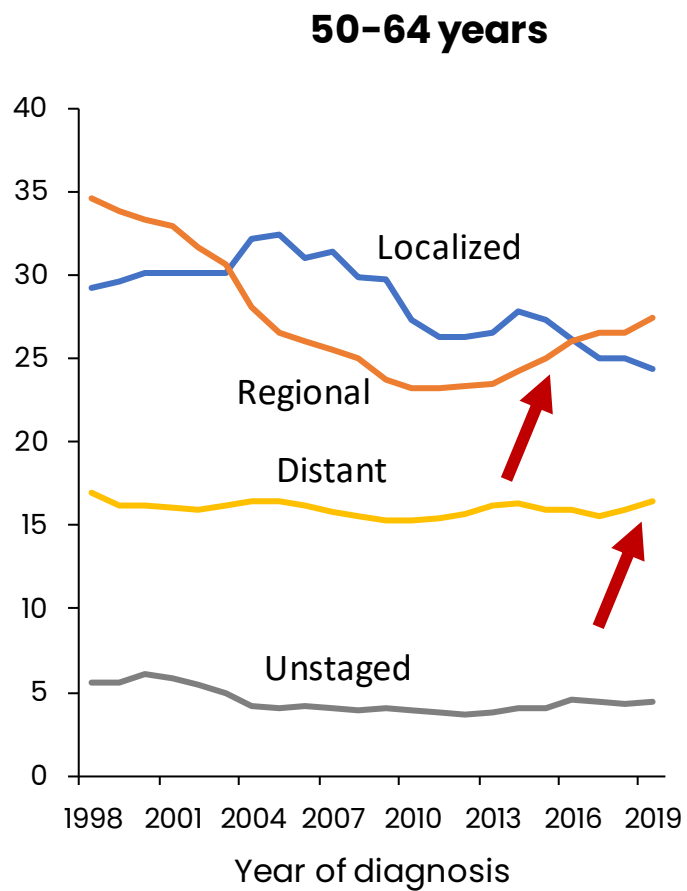
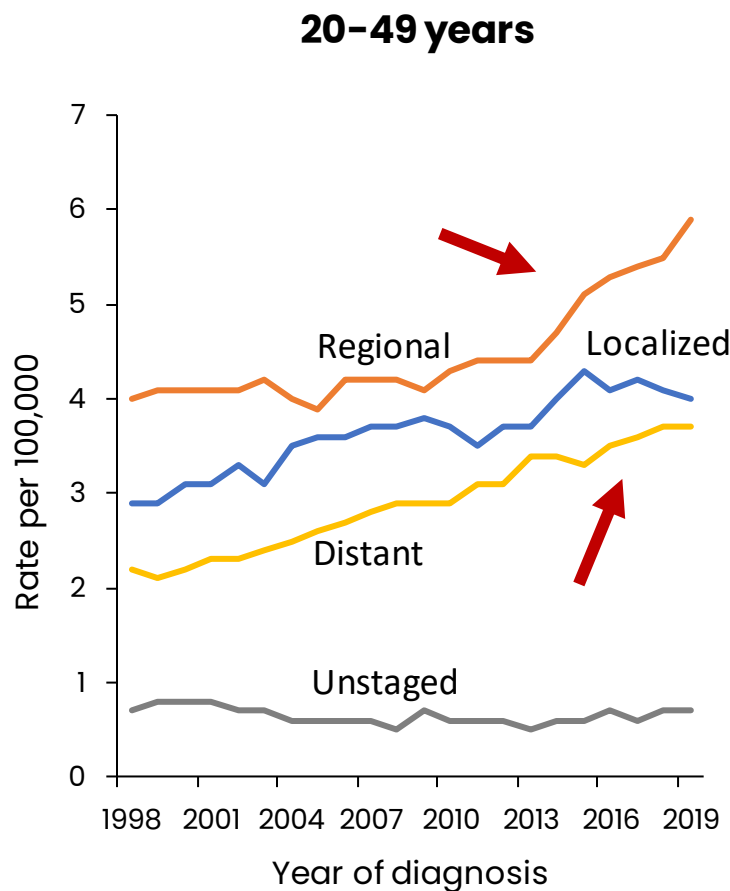
Trends in colorectal cancer incidence by age, 1998–2019



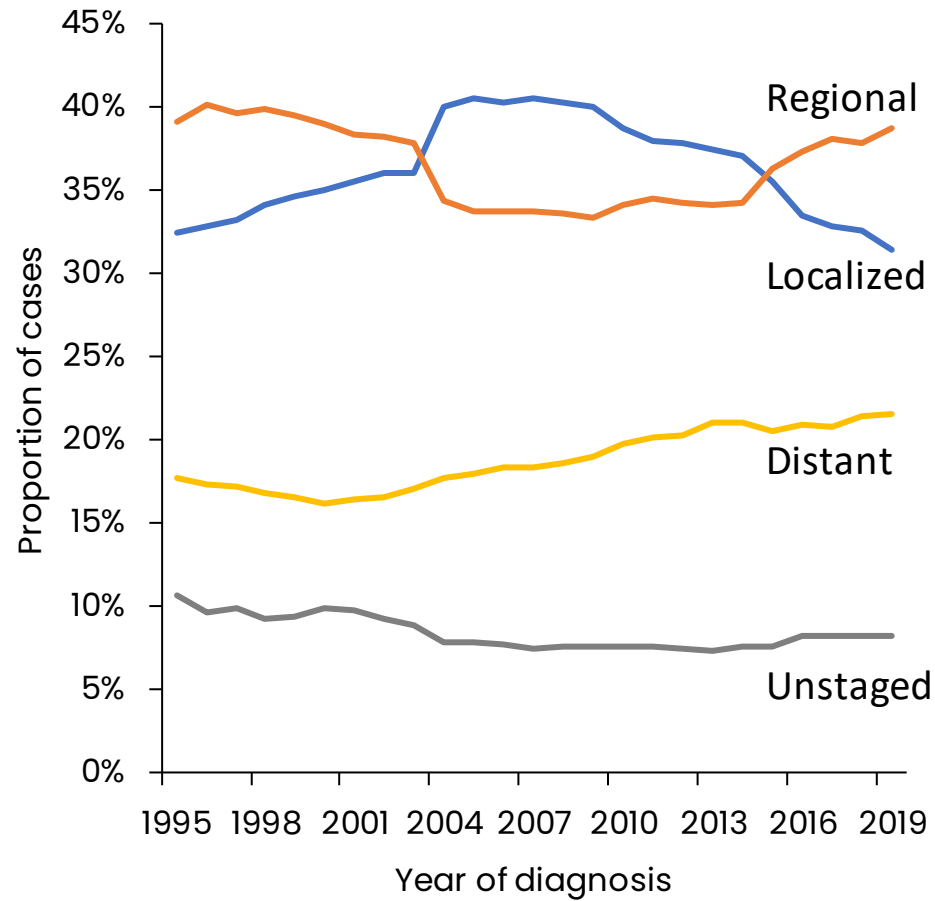
Trend in the percentage of people diagnosed before 55 years, 1995–2019




Trends in colorectal cancer incidence by age & stage at diagnosis



Trends in colorectal cancer stage at diagnosis (%)



Stage III is most common

advanced (reg/dist): **52%**  **60% (3 in 5)**



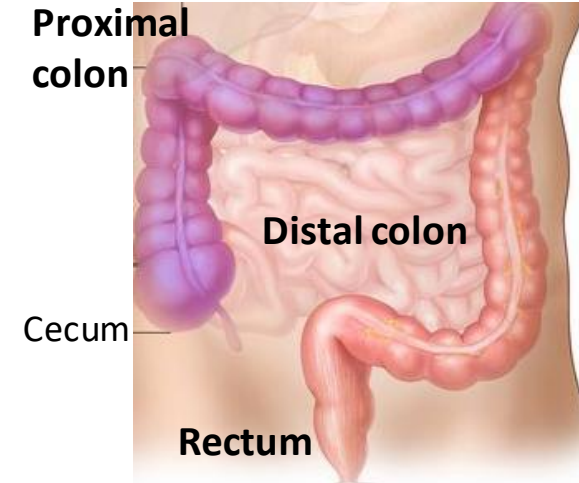
Trends in colorectal cancer incidence by subsite

JAMA[®]

October 10, 1977

Changing Distribution of Primary Cancers in the Large Bowel

James B. Rhodes, MD; Frederick F. Holmes, MD; Gary M. Clark, PhD



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ORIGINAL CONTRIBUTION: PDF ONLY

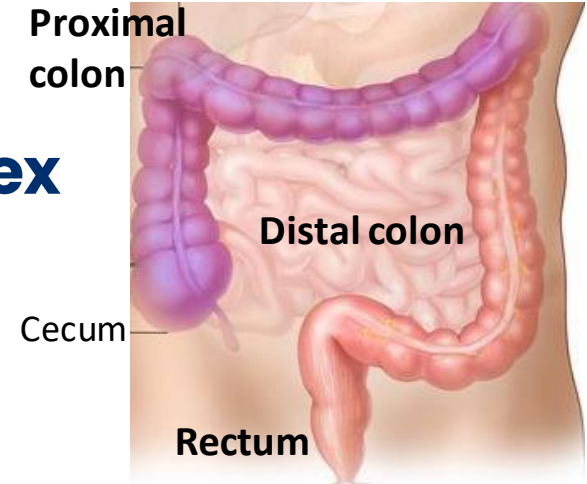
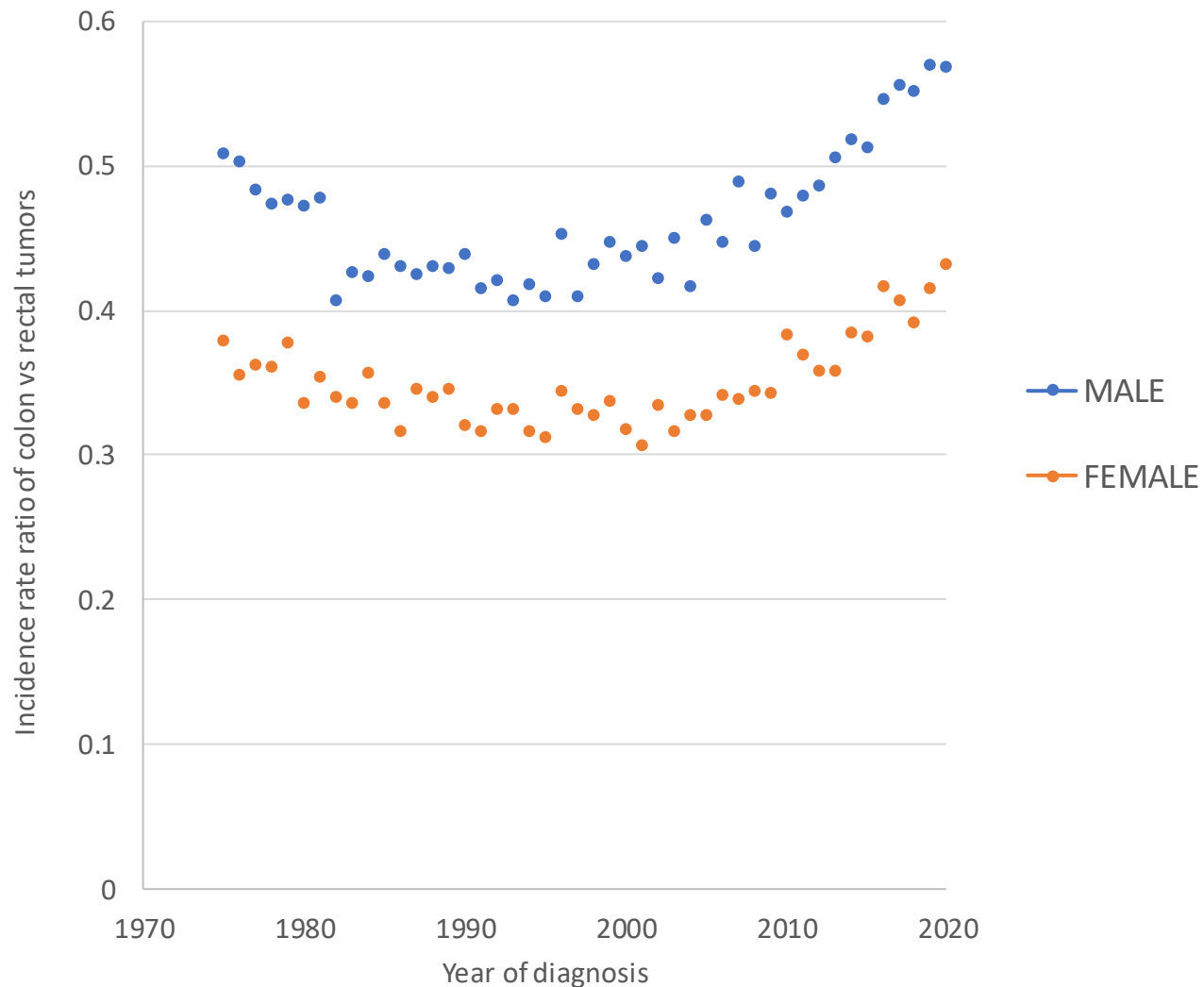
Continued Rightward Shift of Colorectal Cancer

Cucino. Claudia M.D.; Buchner. Anna M. M.D., Ph.D.; Sonnenberg. Amnon M.D., M.Sc.

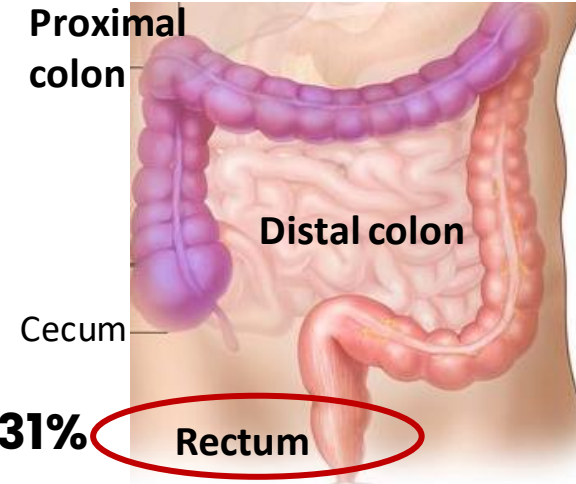
Diseases of the Colon & Rectum 45(8):p 1035-1040, August 2002. | DOI: 10.1007/s10350-004-6356-0



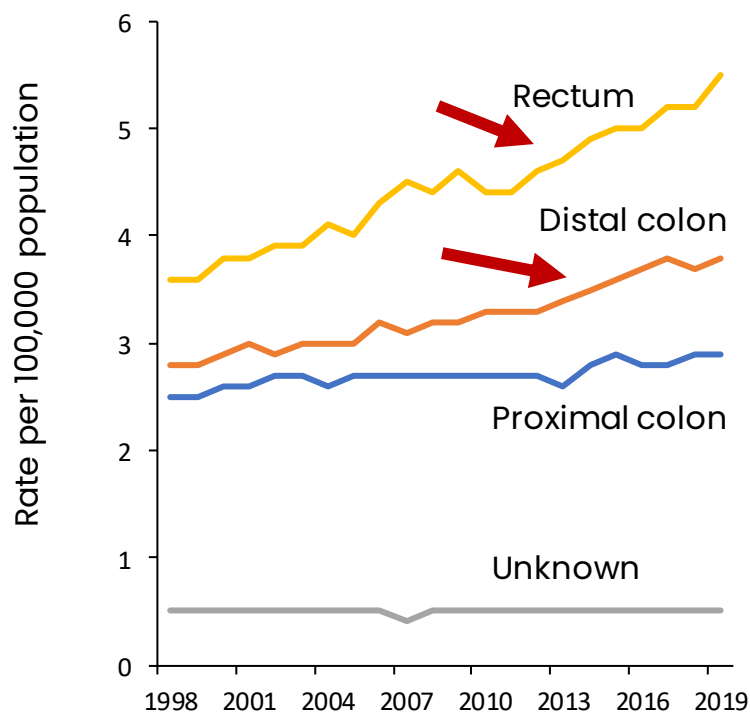
Trends in the ratio of colon vs rectal cancer incidence by sex



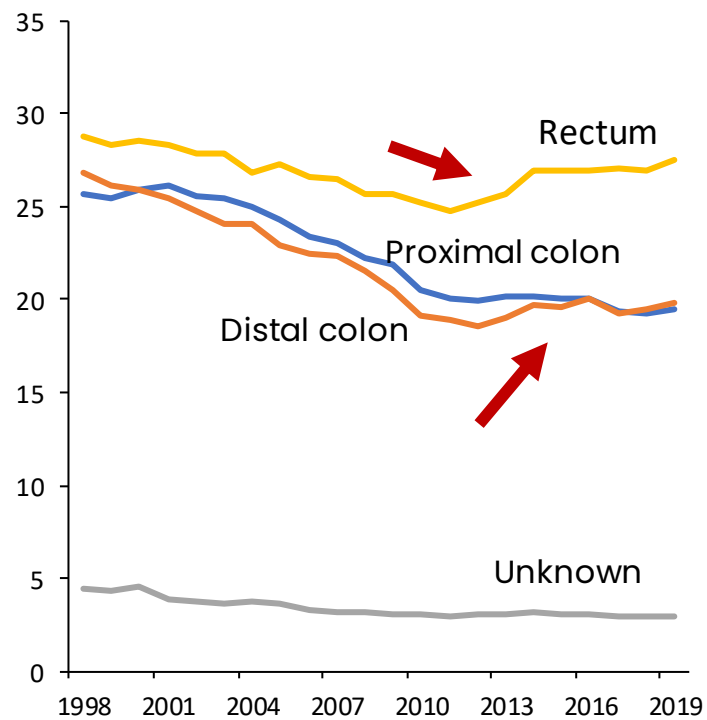
Trends in colorectal cancer incidence by subsite & age



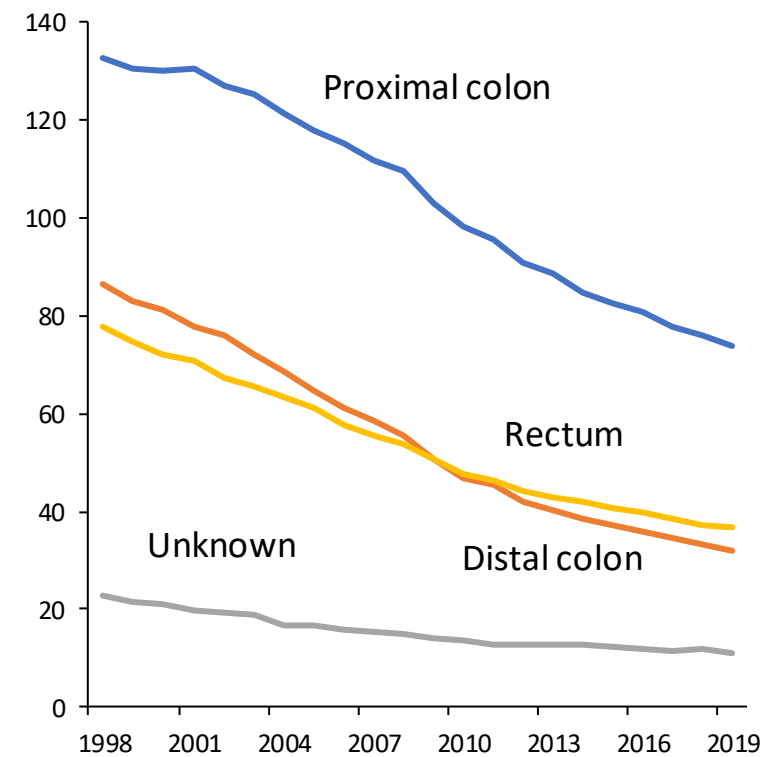
20-49 years



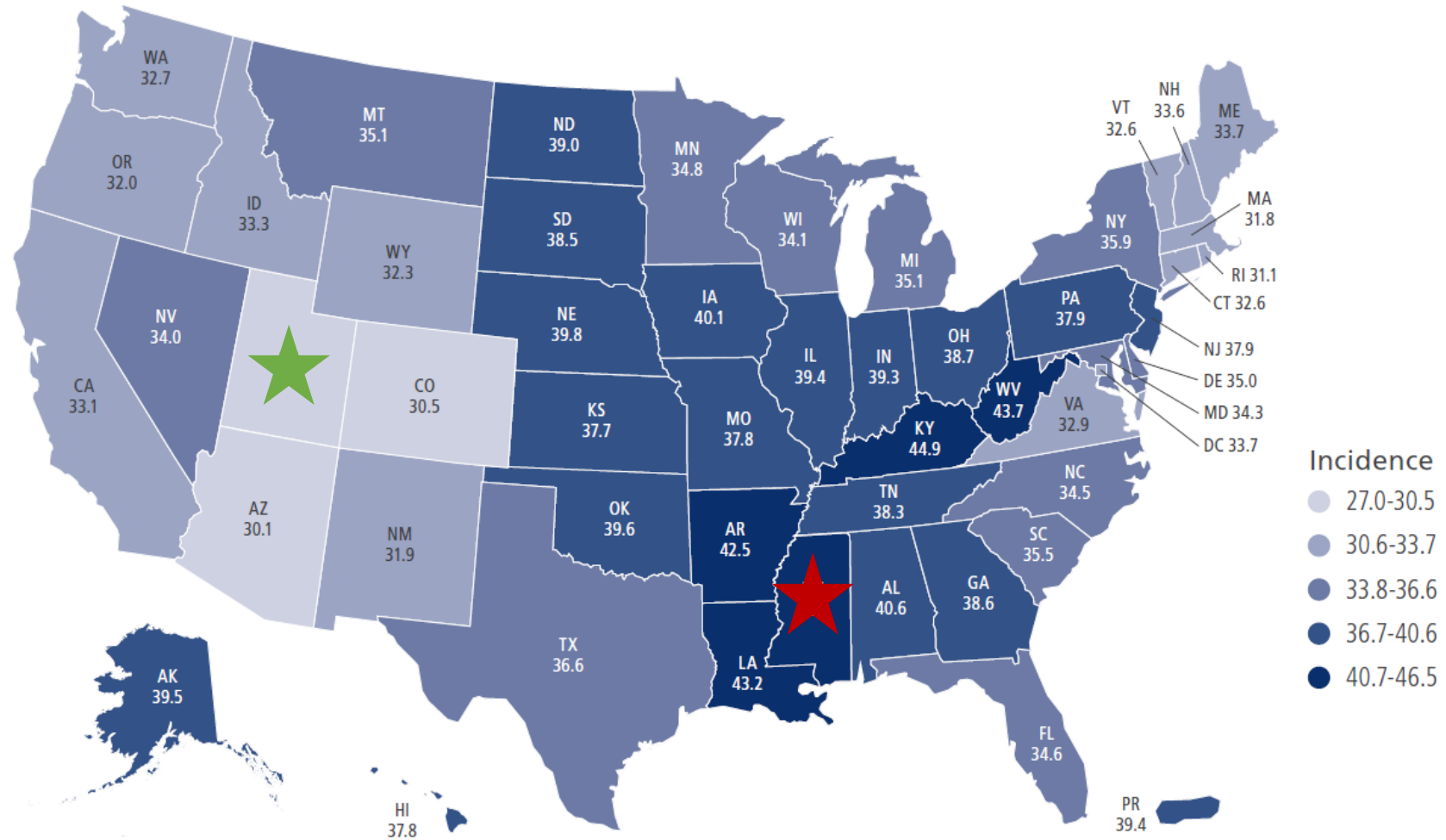
50-64 years



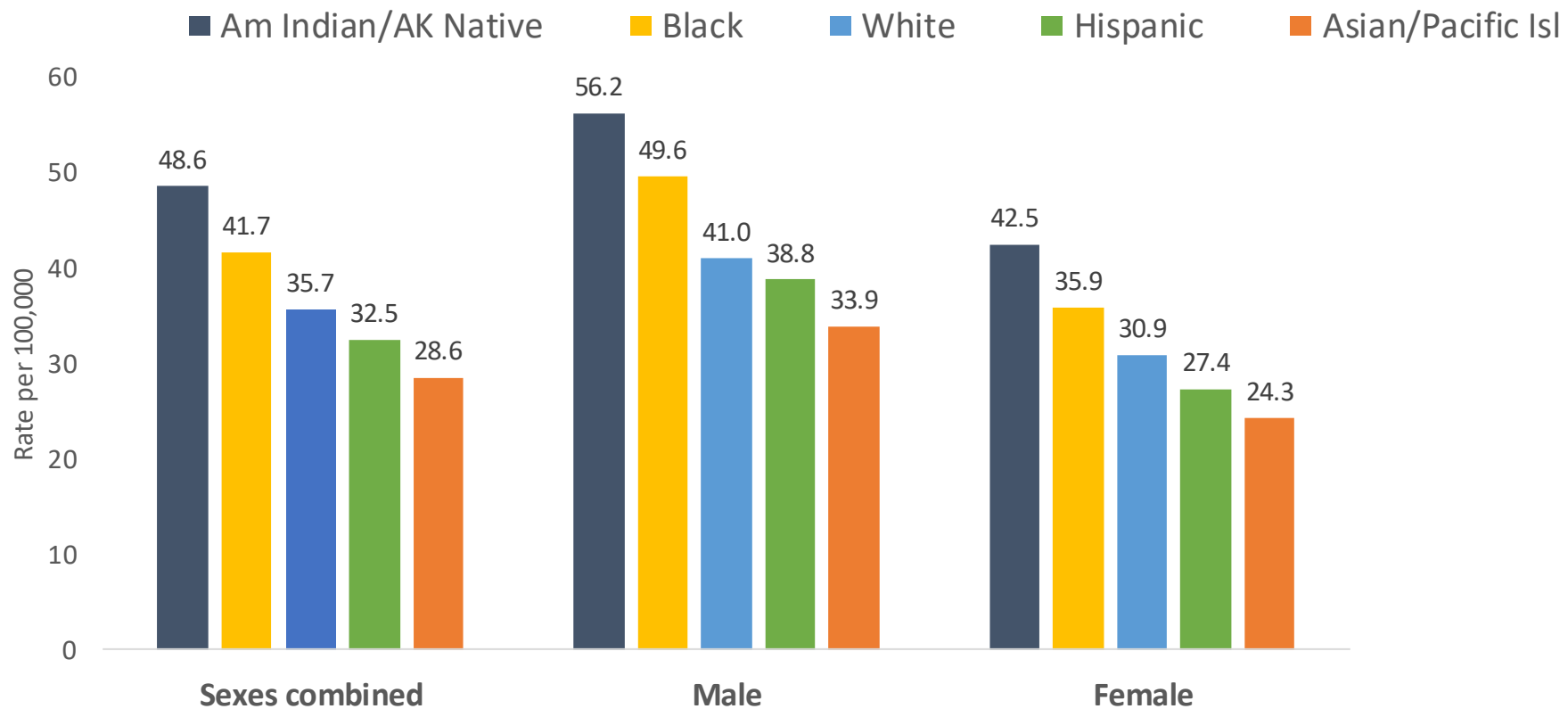
65+ years



Colorectal Cancer Incidence, 2015–2019



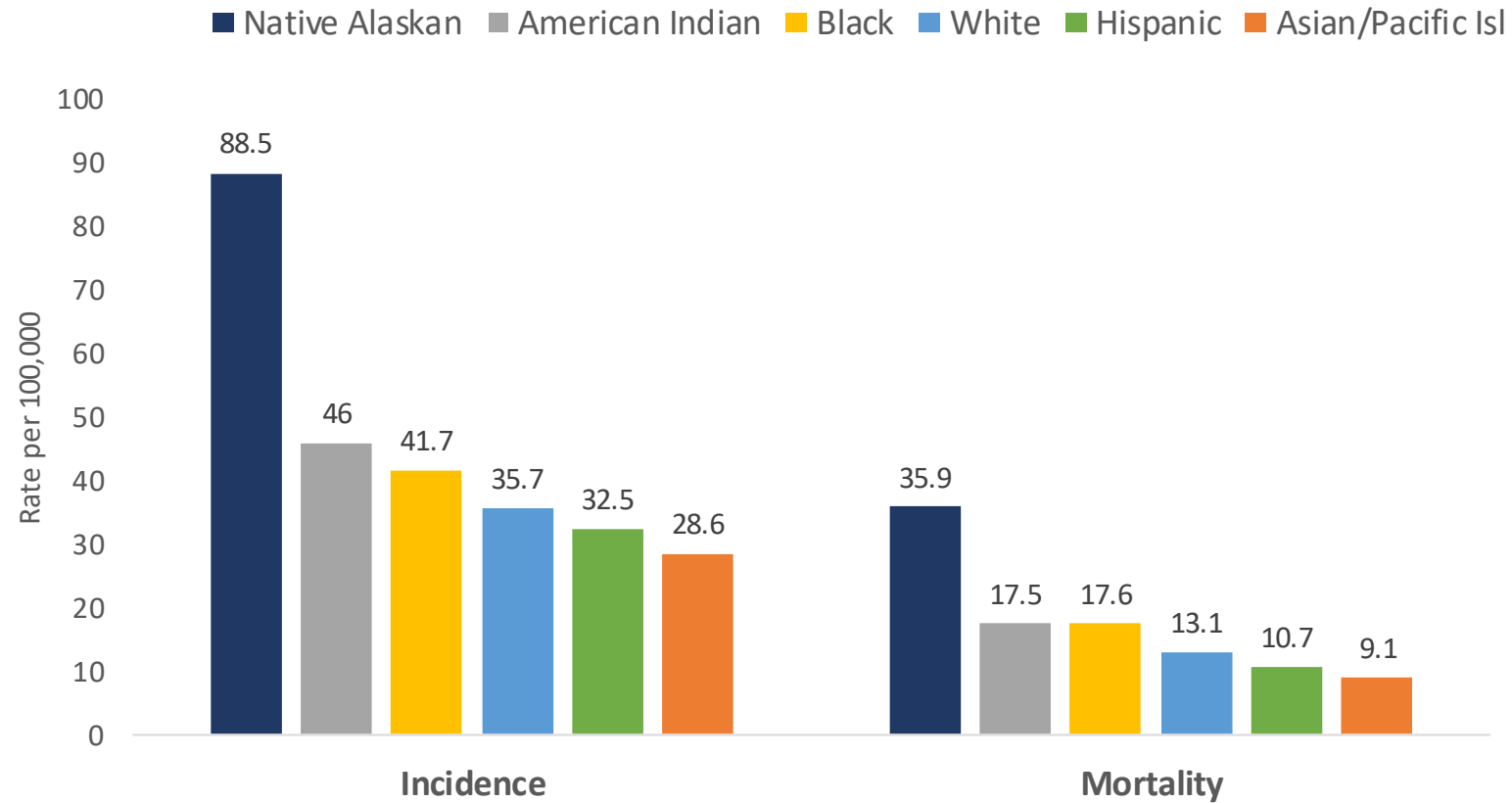
Disparities in incidence by race & ethnicity



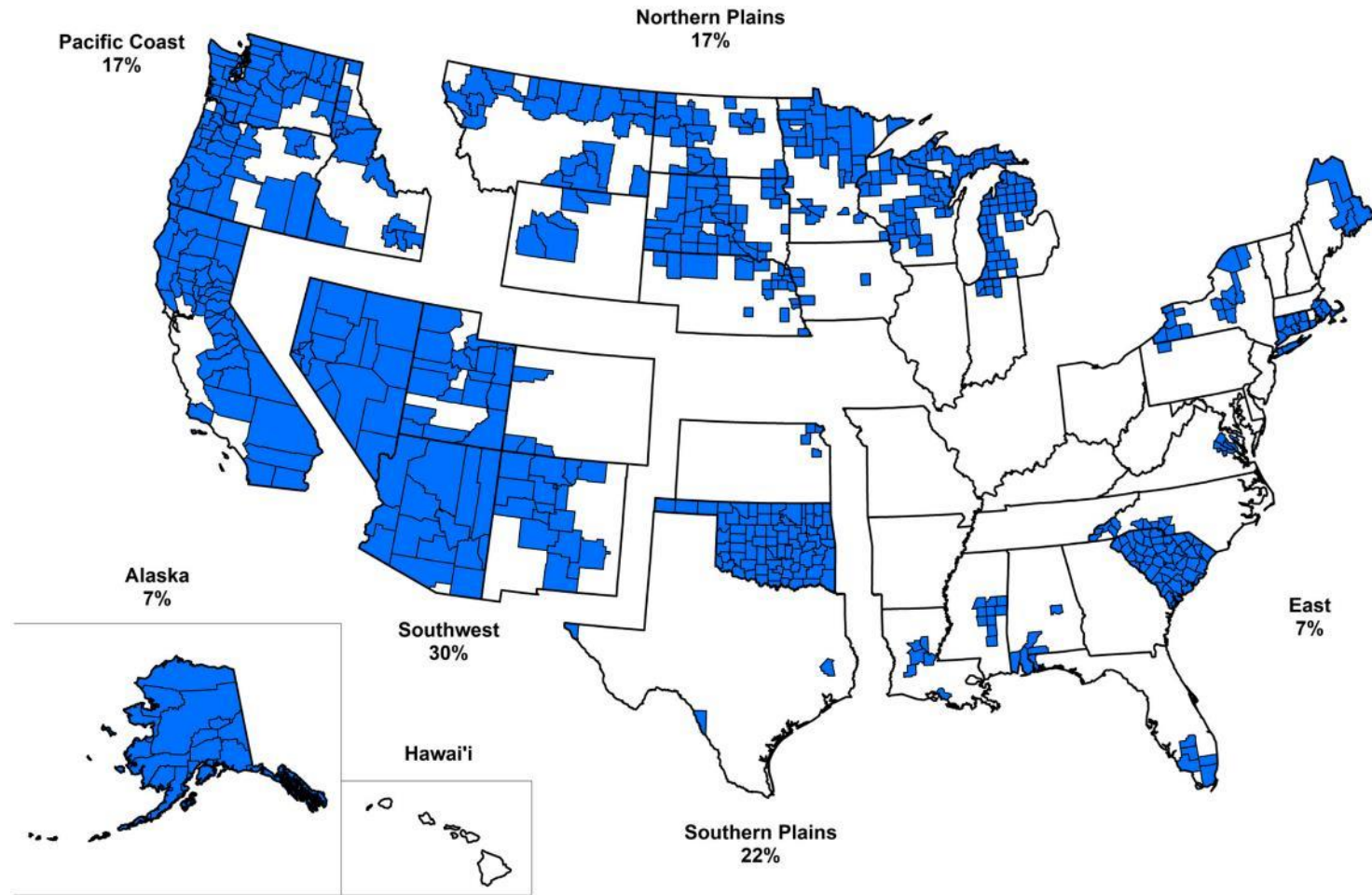
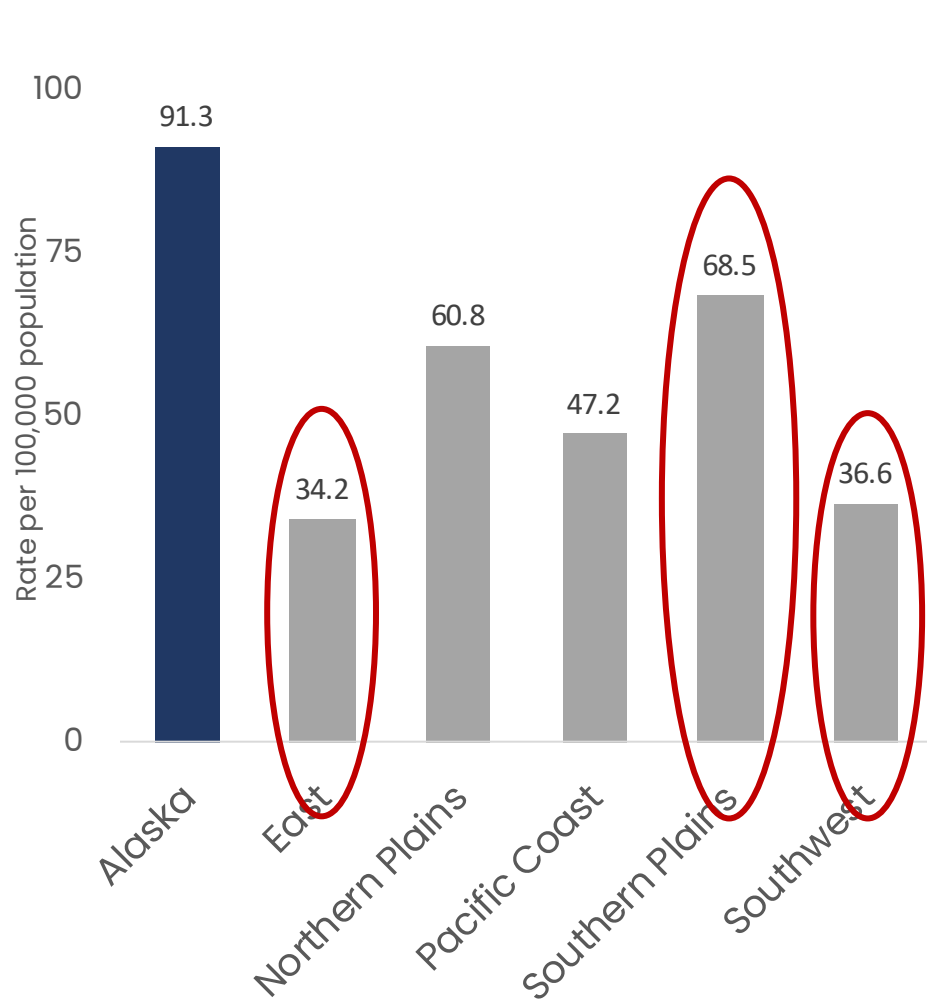
American Indian incidence limited to Purchased/Referred Care Delivery Area counties and mortality adjusted for racial misclassification.



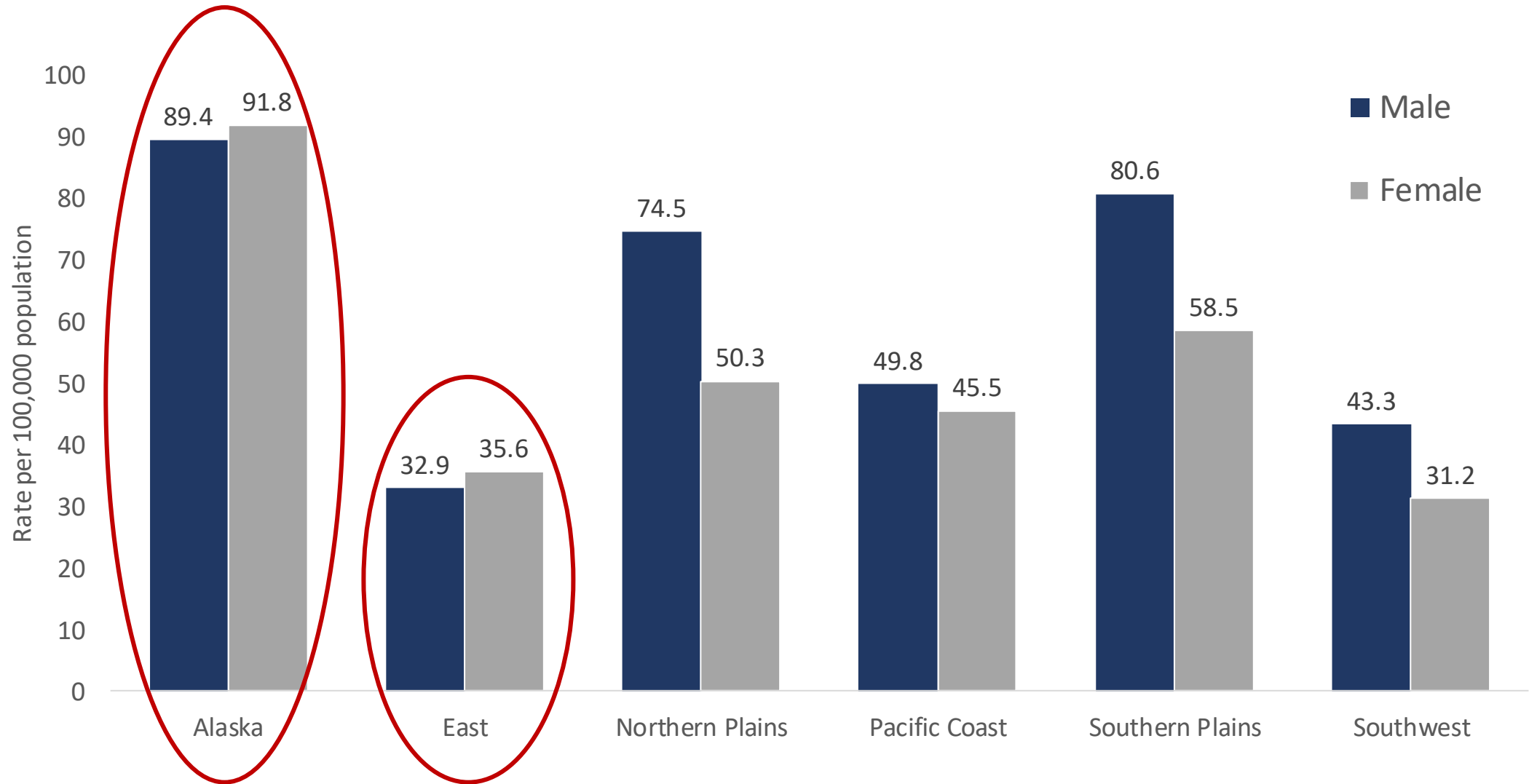
Colorectal Cancer Incidence (2015–2019) and Mortality (2016–2020) by Race & Ethnicity



CRC Incidence among Native American people by region, 2014–2018



CRC Incidence among Native American people by region & sex, 2014–2018

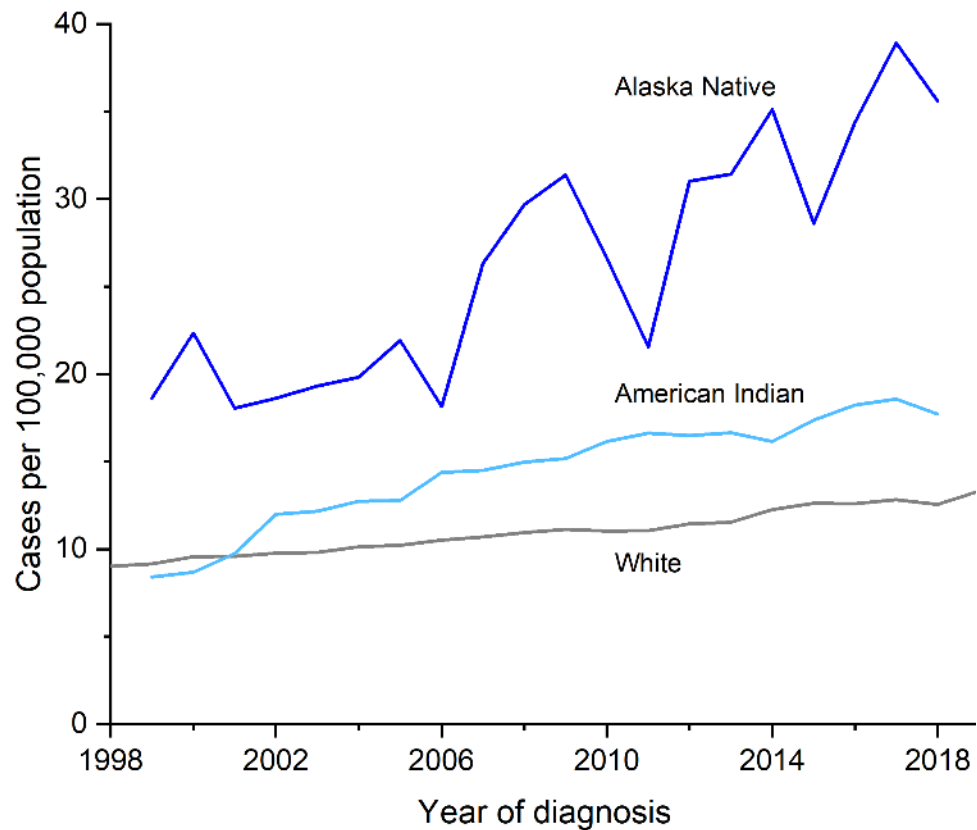


Source: Kratzer et. al. Cancer statistics for American Indian and Alaska Native individuals, 2022. Epub Nov 2022. *CA A Cancer J Clin*, 73:120–146.

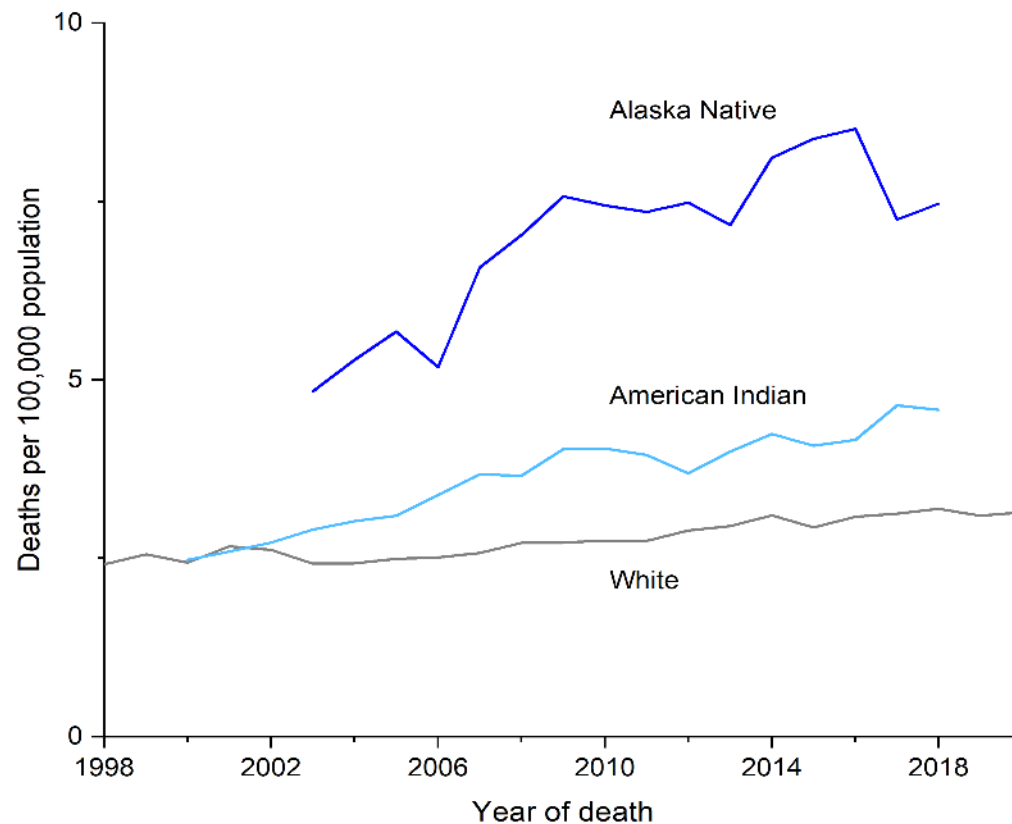


Early-onset colorectal cancer trends in Native Americans

Incidence



Mortality



Summary

- Continued progress confined to age 65+ years
- Shift to younger age: **20%** of cases <55 y, up from **11%** in 1995
- Shift to more advanced disease: **60%** of cases, up from **52%** in 2005
- Shift to left-sided tumors: **31%** rectal vs **27%** in 1995
- Stark disparities
 - State: **27** in Utah vs **47** in Mississippi
 - Racial/ethnic group: **29** in Asian/Pac Isl vs **89** in Native Alaskan
 - Wide variation within Native American groups; high burden in some women

Thank you!



Collaborators

Nikita Sandeep Wagle, PhD, MBBS, MHA

Bob Smith, PhD

Andrea Cercek, MD

Ahmedin Jemal, PhD, DMV



Questions



Thank You

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