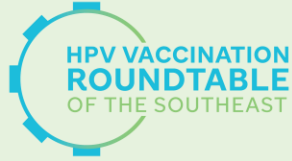




**HPV Cancer
Prevention
Program**



2025 HPV AWARENESS DAY SEMINAR SERIES

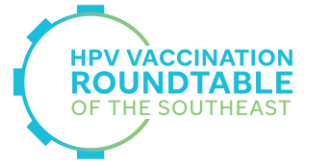
**Realizing a Regional Plan to Eliminate
HPV Cancers, Starting with Cervical
Cancer, as a Public Health Concern in
the Southeast**

March 5, 2025

stjude.org/hpv • [#EndHPVCancers](https://twitter.com/EndHPVCancers)



Organizers

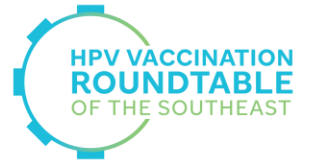


Madeline McNee, MPH
Program Coordinator
St. Jude HPV Cancer Prevention Program



Samantha Wells, MPH
Program Coordinator
St. Jude HPV Cancer Prevention Program

Welcome to the HPV Awareness Day Seminar Series



- Today's meeting will be recorded. The link to view the recording and PDF of materials will be shared with all who have registered. In addition, the recording link will be posted publicly in the future.
- If you have any issues during today's meeting, please use the chat or email PreventHPV@stjude.org.
- We will use the Q&A feature for questions. You can post questions at any time to engage with the presenters and organizers.

Learning Objectives



By the end of the seminar, participants will be able to:

- Discuss ongoing national efforts to eliminate cervical cancer as a public health problem
- Review and discuss a regional plan to eliminate HPV cancers, starting with cervical cancer as a public health problem in the southeast
- Discuss ongoing state-level efforts to eliminate cervical cancer as a public health problem

Jennifer S. Smith, PhD

MODERATOR

Professor

Department of Epidemiology

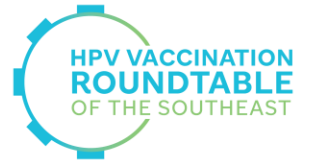
Gillings School of Global Public Health

University of North Carolina

stjude.org/hpv • #EndHPVCancers



Presenters



Eve McDavid
CEO and Founder, Mission-Driven Tech



Trisha Amboree, PhD
Assistant Professor,
Department of Public Health
Sciences, Medical University
of South Carolina



Ran Zhao, PhD
Researcher, University of
Minnesota School of Public
Health



William (Sam) Greenfield, MD
Professor, Obstetrics &
Gynecology, University of
Arkansas for Medical Sciences

Eve McDavid

SPEAKER

CEO & Co-Founder
Mission-Driven Tech





Mission-Driven Tech™

A Cervical Cancer innovation company.

Eve McDavid

Chief Executive Officer and Co-Founder



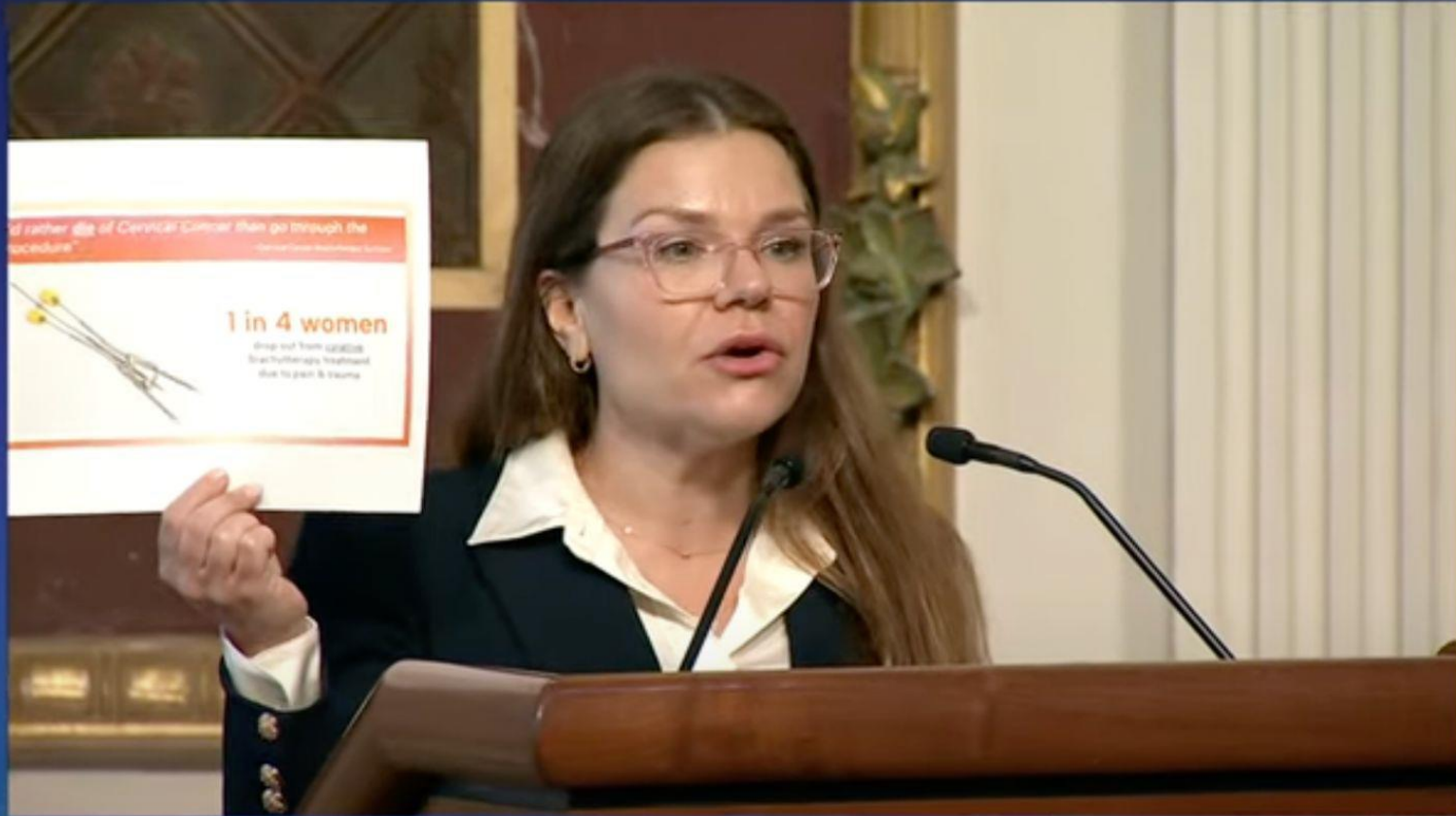
YouTube



Prepared for St. Jude HPV Awareness Day Seminar,
March 5, 2025







Cancer Moonshot

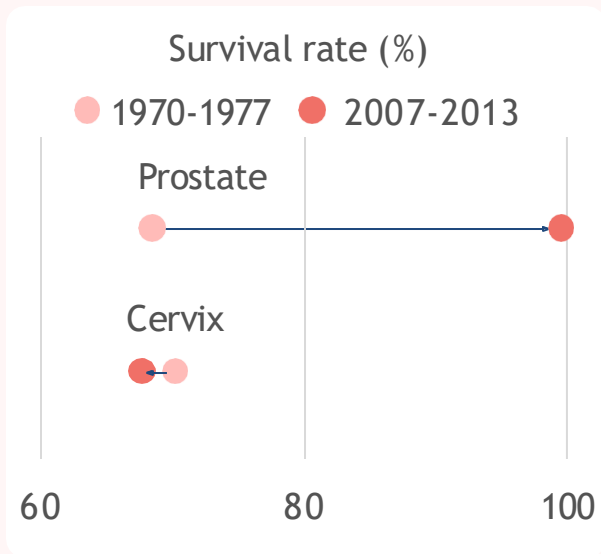
CERVICAL CANCER FORUM





A tale of two Brachytherapy outcomes:
Cervical Cancer survival rates have been stagnant for 50 years.
Prostate Cancer outcomes improved to nearly 100% over the same time period.

Stagnant 5-year survival rate



Late-stage diagnoses rising in the U.S.

AXIOS
Aug 19, 2022 - Health

Advanced cervical cancer rate jumps in U.S.

Tina Reed, author of *AXIOS Vitala*

Cancer facts you need to know
American Cancer Society Cancer Facts & Figures 2024

Rising incidences

- Cervical cancer in women ages 30 through 44

40% dropout rate from Brachytherapy

“I’d rather die of cervical cancer than go through the procedure.”

Cervical cancer
Brachytherapy patient



INVESTMENT



RESEARCH



INNOVATION

WE CAN END CERVICAL CANCER

An Urgent Call for Elimination



January is Cervical Cancer Awareness Month
FUND INNOVATION NOW



Mission-Driven Tech™



AN URGENT CALL FOR CERVICAL CANCER ELIMINATION: FUND INNOVATION NOW

To the women of the world.

We see you. You – and your cervix – deserve better.

We are female founders of cervical cancer treatment companies – clinicians, scientists, engineers, and survivors – representing voices of innovation.

This past November 17, 2023, our companies, along with the World Health Organization and leaders of the [Global Cervical Cancer Elimination Movement](#), gathered throughout the world to bend the arc of change toward elimination.

The movement, established in 2018 and approved by all 190 member nations, aims to mobilize efforts within every country across our planet to eliminate cervical cancer.

Why? Because cervical cancer is the only disease that can be:

- **Prevented** with HPV vaccination
- **Screened** for with HPV and Pap Testing
- **Treated to cure** with highly effective treatments including cryotherapy, thermal ablation, or LEEP for cervical pre-cancers and chemoradiation for invasive cervical cancer (ICC)

In order to reach elimination, all countries must adopt measures to increase vaccination and treatment rates to 90%, while screening rates must increase to 70%.

WORLD HEALTH ORGANIZATION CERVICAL CANCER ELIMINATION TARGETS



It can be done. But it isn't happening today.

Since 2020, more than 1,000,000 women – mothers, daughters, wives, sisters and friends – have died from cervical cancer. Currently, more than 600,000 women are diagnosed each year and 340,000 more are dying with a crushing ripple: as many as 100,000 children **will not survive childhood** after losing these women's protective presence.

¹The word "women" is used throughout this letter in an inclusive capacity, to include any person who is biologically female and/or a person with a cervix.

AN URGENT CALL FOR ELIMINATION: FUND INNOVATION NOW

We're calling for change. Here's how it happens:

1. INVESTMENT

Let's start with the **money: cervical cancer elimination is a profitable endeavor.**

It's our planet's simplest opportunity for millions of lives saved and billions of dollars made. Every \$1 spent to prevent a woman's death in her prime [returns \\$26](#) to the global economy. That's right – a 26X ROI. According to leading global nonprofit Together for Health, a [\\$10.5B global investment](#) would fulfill WHO elimination targets, to save millions of lives and also return a whopping \$273B to the global economy.

We are far from there.

The 2021 \$6.7B NCI domestic cancer research [budget](#) allocated 1% to cervical cancer. Prostate cancer, by contrast, commanded 4X the cervical cancer budget, totaling \$270M.

Funding matters – major funders and motivated philanthropists have produced staggering survival and quality of life gains in prostate cancer. Until investment increases to fund, at minimum, cervical cancer elimination targets, we can expect the same lethal trends.

2. RESEARCH

Experts in our field will say that any woman's cervical cancer diagnosis and death is a reflection of a systemic gap in the care continuum. It is. It's also a reflection of deeper questions: Why do women continue to fall through the cracks? Why aren't today's solutions enough? When we look to other fields of medicine for inspiration, the groundwork to answer these questions already exists. From polo to COVID, we have learned the opportunities and the challenges of global mass vaccination and intervention.

Green tea catechins, known to have efficacy against cervical precancers, have been explored for over 20 years, without adequate research committed to determining how to stabilize and deliver the compound to infected cervical cells.

Cryotherapy treatments for high-grade cervical dysplasia, known to be highly effective, have been inaccessible in a real-world setting due to cost-prohibitive, difficult-to-transport cryogen gas.

Brachytherapy, a curative yet brutalizing internal radiation procedure, is performed with medical devices designed in the 1970s, two decades before women's inclusion in clinical trials, despite long-established research that hardware designed specifically for the female anatomy vastly [improves procedural safety and outcomes](#), particularly for gynecologic procedures.

But in cervical cancer treatment, today's care features relics of the past, critical unmet needs under-researched and under-addressed. As researchers, we know the same strategies that got us here today won't get us to elimination. And so we must adapt, by ushering in a new era of properly funded cervical cancer research, to address the challenges of now and those of the future.



AN URGENT CALL FOR ELIMINATION: FUND INNOVATION NOW

Cervical cancer is often the leading cause of cancer-related death among women in low- and middle-income countries, and now also [on the rise among women 30-44 years old \(in the prime of their lives\)](#) here in the United States.

How did we get here?

High-risk strains of Human Papillomavirus (HPV), the most common sexually transmitted infections, are attributable to the development of almost all cervical cancer. More than 41M Americans 15-59 have a high-risk strain that can cause cervical cancer, 11M of which were [contracted in the last year](#). However, according to a [2022 National Cancer Institute \(NCI\) study](#), the American public's awareness of HPV's link to cervical cancer is at a 10-year low. During the COVID-19 pandemic, on-time childhood [vaccinations](#) and [preventive care screening appointments](#) dropped precipitously. All these factors combint into an ugly truth: later-stage diagnoses are [increasing](#). For years to come, more women each year will require more aggressive and invasive treatment to survive.

Each of our companies challenge today's treatment paradigm where women face insufficient options, despite readily available research and major technological breakthroughs.

Today, women who are diagnosed with low-grade cervical dysplasia (the precursor to invasive cervical cancer) receive repeat pelvic exam screenings without access to any treatment options, told to "watch and wait," until their next gynecologic exam to determine whether abnormal cervical cell changes are advancing into cancer.

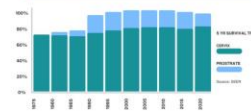
Today, women globally who are diagnosed with high-grade cervical dysplasia can't access highly effective, minimally-invasive cryoablation and other forms of treatment because the low cost of care is still considered too expensive for policymakers to fund.

Today, instead of being cured, women drop out from treatment and die preventable deaths because curative brachytherapy procedures are too brutalizing and traumatic to endure.

Today, women diagnosed with cervical cancer are [more likely to die from their diagnosis than they were in the 1970s](#). By comparison, men's 5-year survival rate for prostate cancer diagnoses has jumped to almost 100% over the same time period.

As leading OB/GYN and field expert Dr. Linda Eckert proclaims, "ENOUGH."

5 YEAR SURVIVAL TRENDS: CERVIX VS. PROSTATE CANCER



AN URGENT CALL FOR ELIMINATION: FUND INNOVATION NOW

3. INNOVATION

Innovation is the byproduct of investment and research.

It's the result of maniacally studying these challenges and having the capital to experiment with new ideas. It's been almost 25 years since the last major cervical cancer treatment advancement – when Cisplatin, a chemotherapy drug was [added to standard of care](#).

This lagging rate of change is unthinkable in other fields of cancer research.

As female founders, we begin at a deficit, taking home a paltry \$2 for every \$100 invested in male-founded companies. But the unflappable progress of our companies' research and development efforts demonstrates our will to overcome systemic barriers to bring lifesaving, innovative solutions into the world.

With proper industry investment and research, our new treatment technologies will become but a handful to select amongst, an innovative care continuum that features many new solutions that reflect the best of modern medicine and modern technology.

Cervical cancer innovation is bigger than the sum of its parts – it is a moonshot: for the first time in human history, human innovation will eradicate a cancer.

Shortly after our webinar, an open letter addressed to First Lady Dr. Jill Biden circulated throughout our networks. The letter underscored the systemic, historic deprioritization of women's health, wellbeing and outcomes. But also how supercharging long-term research, investment and innovation will reverse these deadly trends.

In just a couple weeks, almost 500 CEOs signed onto the letter, signaling our collective hunger and appetite for change.

We call for leaders and decision-makers at every level of government, private industry and philanthropy to do the right thing: to realize the monumental economic and societal significance of cervical cancer elimination and prioritize the investment, research and innovation to take us there.

The table is set. We've already started. [We invite you to join us.](#)



Orsi Balogh, MD Chief Medical Officer & Co-Founder, Mission-Driven Tech | Eve McDavid CEO & Co-Founder, Mission-Driven Tech | Aya Balaban Co-Founder & CEO, Amplified Therapeutics | Anna Parafitov Co-founder & CEO, Anya Health | Julie Yin Co-founder & Engineer, Anya Health



INVESTMENT

\$1 → \$26

**economic
impact**

'National action towards a world free of cervical
cancer for all women,' NIH, March 2022

TOTAL COST: GLOBAL CERVICAL CANCER ELIMINATION

\$10.5B

PACING TO FUNDING TARGET

15%



Brachytherapy cures invasive Cervical Cancers and is the standard of care, first-line treatment for ~70% of cases 1B-4A cases

+94%

5-year survival rate

+26%

tumor remission

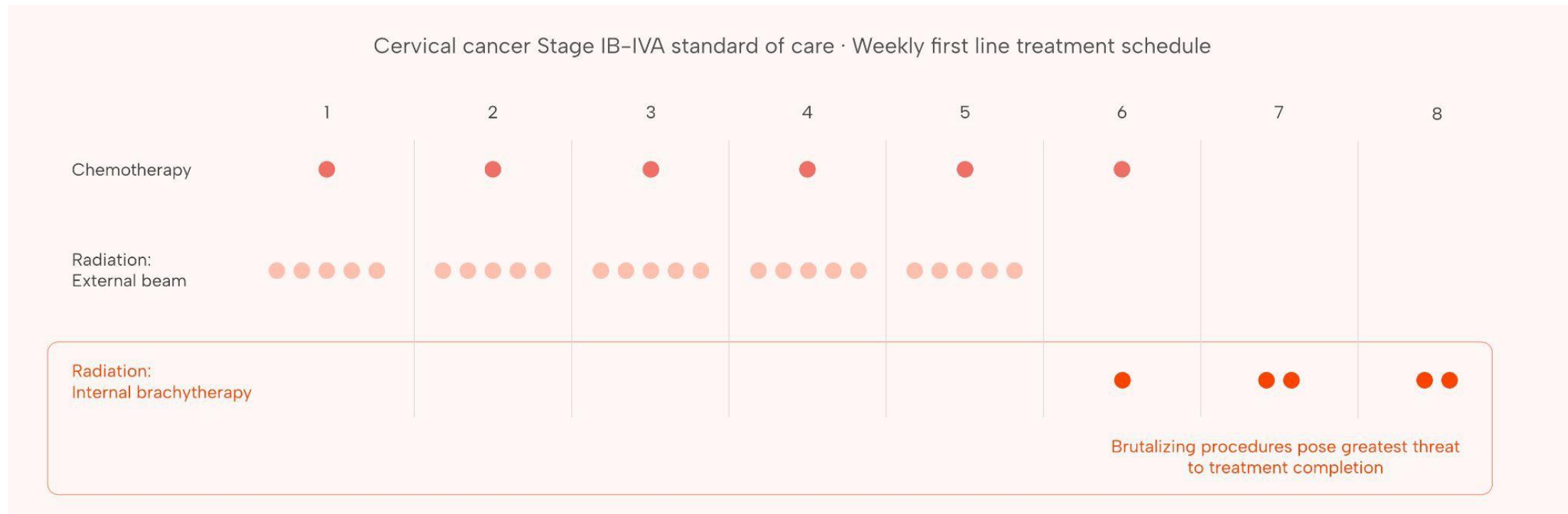
-16%

cancer remission



RESEARCH

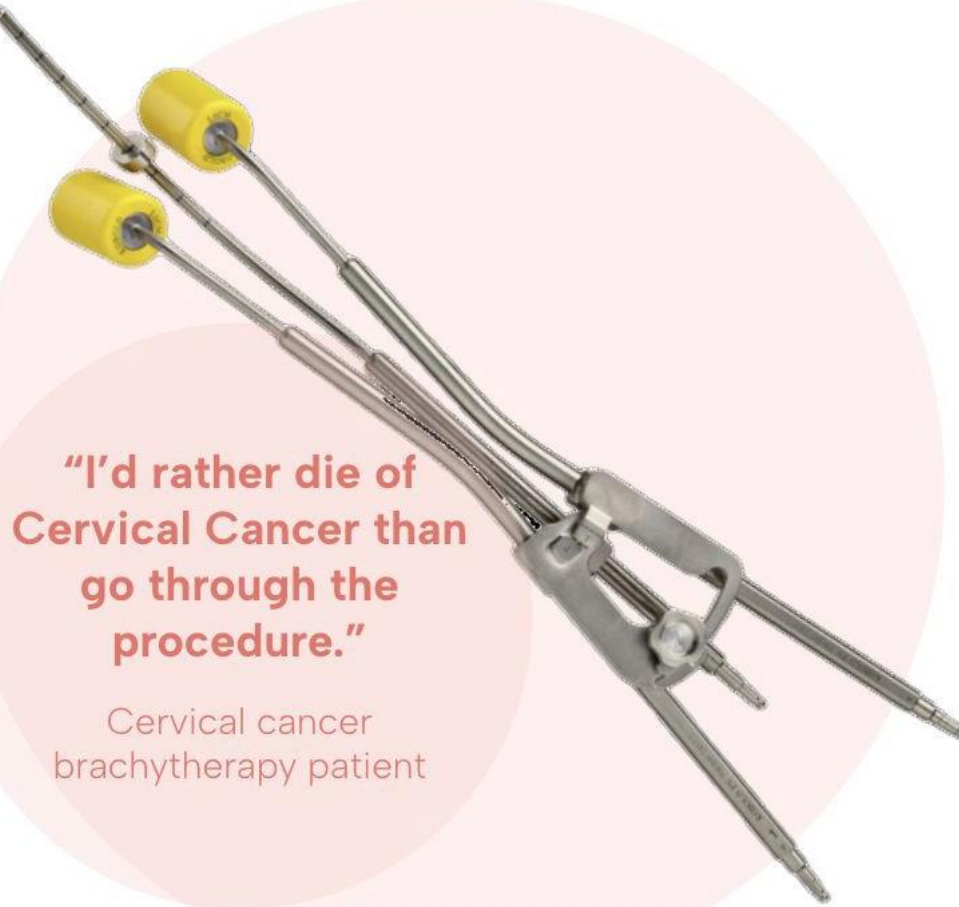
70% of diagnoses require the below standard of care
Established quality measure: **Complete within eight weeks for optimal patient outcomes**





RESEARCH

40% of brachytherapy patients prematurely drop out from the cure for cancer



"I'd rather die of Cervical Cancer than go through the procedure."

Cervical cancer brachytherapy patient

- **Designed in the 1970s**
20 years before clinical trials included women
- **Rigid, inflexible, cannot be adjusted**
Imprecise, sub-optimal dose delivery
- **Complications + side effects**
uterine perforation, vaginal laceration, hospital admittance, bladder, bowel and sexual dysfunction, post-traumatic stress disorder
- **\$\$ complications > \$\$ treatment costs**
\$60K complications per patient
failure to meet quality measures + treatment abandonment + recurrence + death



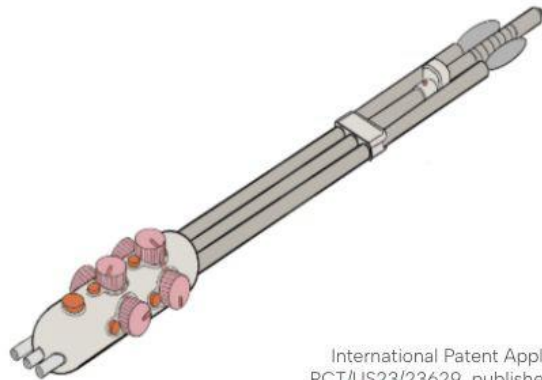
INNOVATION

Modern brachytherapy by **Mission-Driven Tech™**

The Blossom

A safer cure for cancer

medical device



International Patent Application Number:
PCT/US23/23629, published November 2023

BrachyStories

Improving care now

outcome improvement consulting – launched!





INNOVATION



Brachytherapy Today
Tandem & Civid

The medical devices used today in BRACHYTHERAPY were designed in the **1970s**

Mission-Driven Tech 

I was diagnosed when I was 34 years old.

ELIMINATION





Send us a note!
welcome@missiondriventech.com



Let's connect on LinkedIn!

Trisha Amboree, PhD

SPEAKER

Assistant Professor

Department of Public Health Sciences,
Medical University of South Carolina

Cancer Prevention and Control Program,
Hollings Cancer Center

stjude.org/hpv • #EndHPVCancers





Hollings Cancer Center
An NCI-Designated Cancer Center

A Case To Eliminate Cervical Cancer For All People in the Southeast Region

Trisha L. Amboree, PhD MPH
Assistant Professor, Public Health Sciences
Cancer Prevention and Control Program

HPV Awareness Day seminar series
March 5, 2025

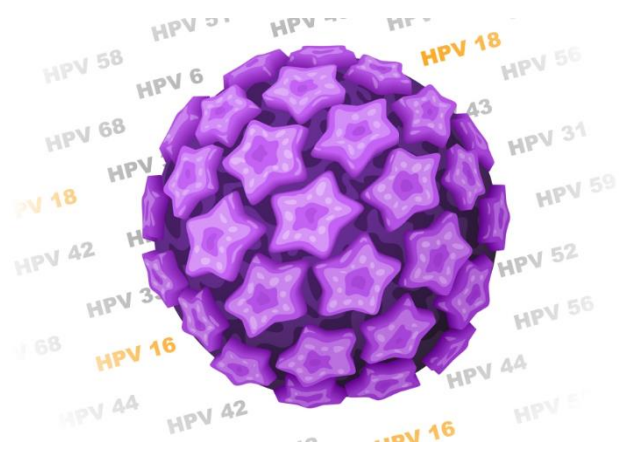


Disclosures

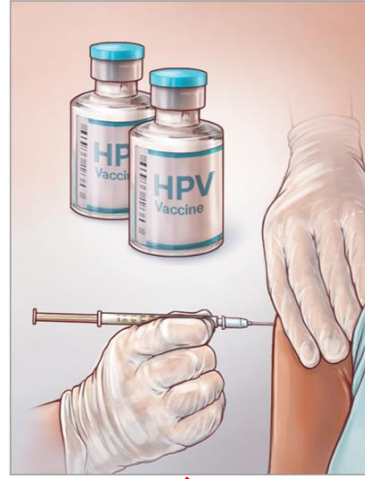
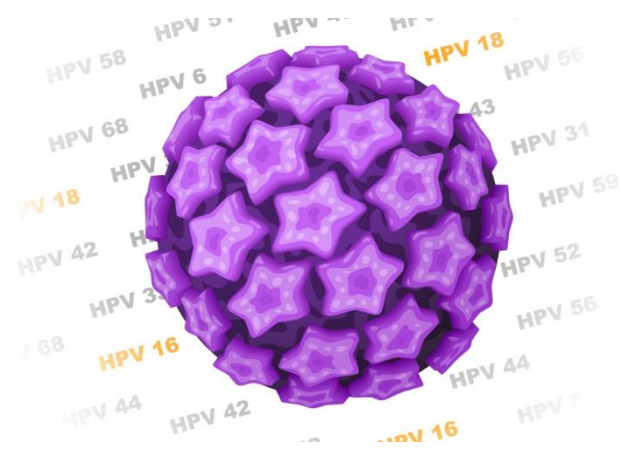
I have no financial relationships or conflicts of interest to disclose

The ideas presented in this talk are my own and do not necessarily represent my funder or employer.

What is cervical cancer and why does it matter?

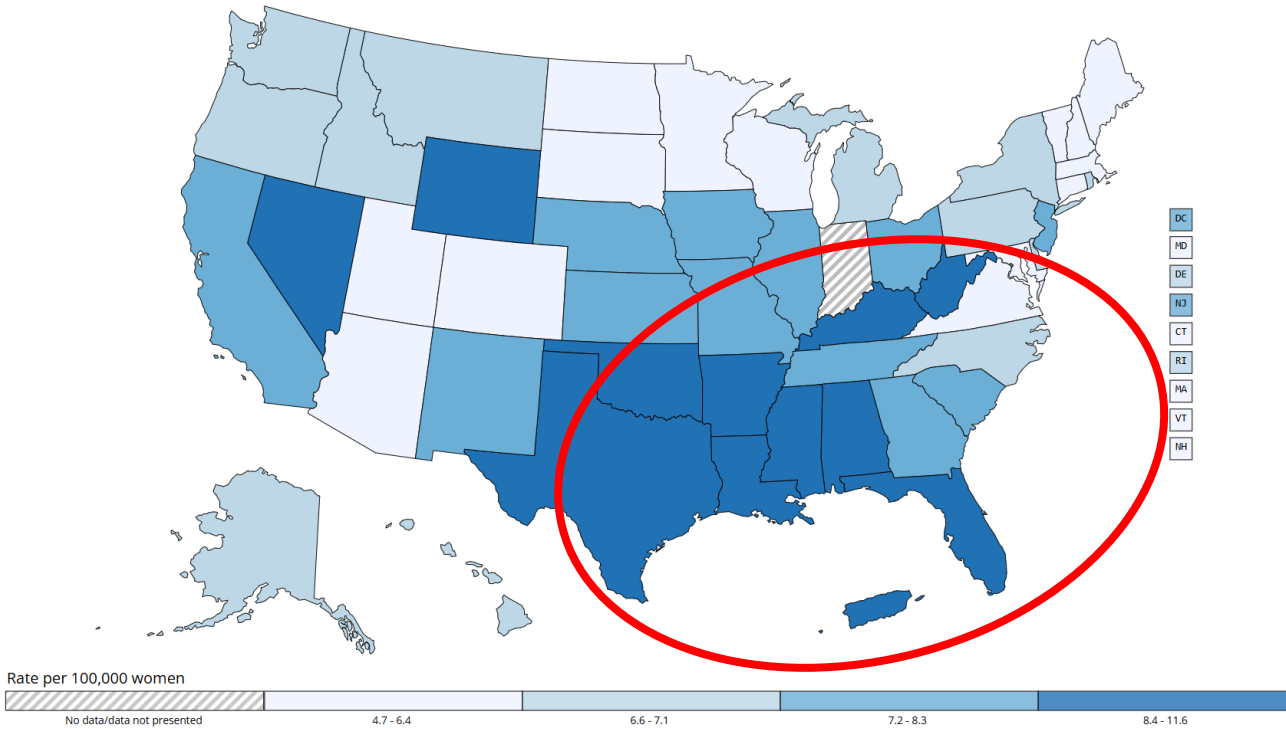


What is cervical cancer and why does it matter?



Higher Incidence in the South

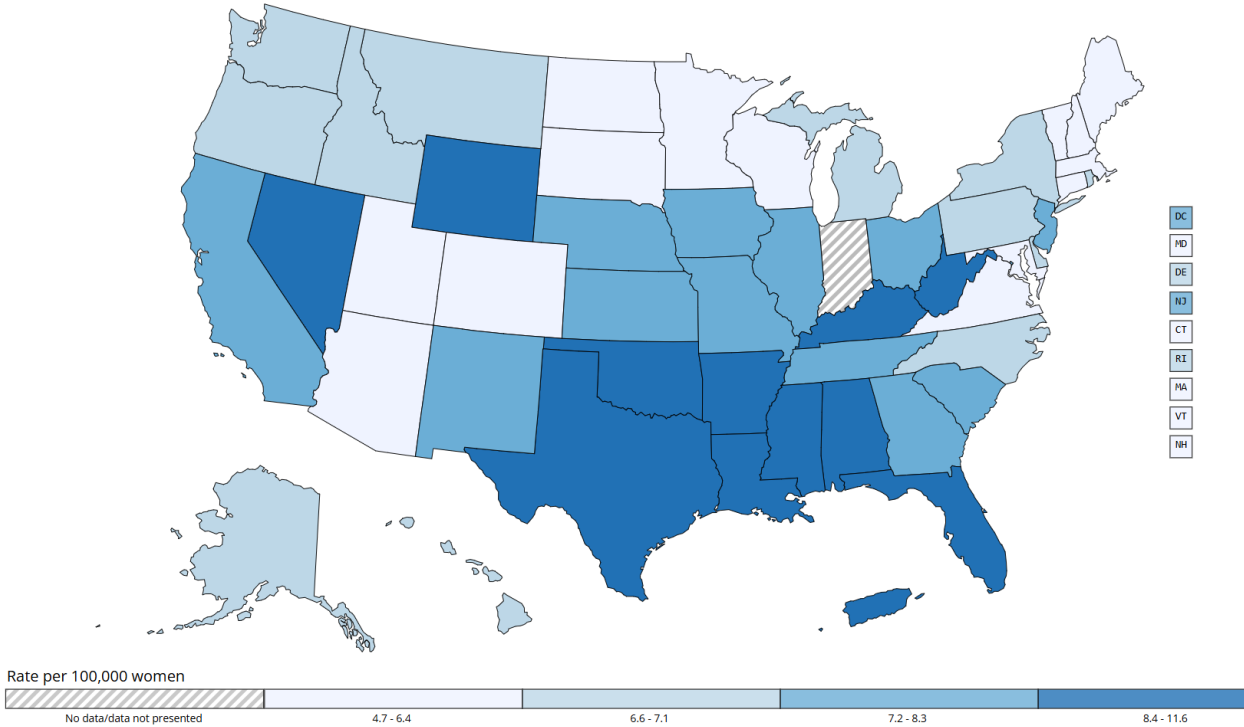
- Cervix Uteri: Age-Adjusted Incidence Rates, 2017-2021



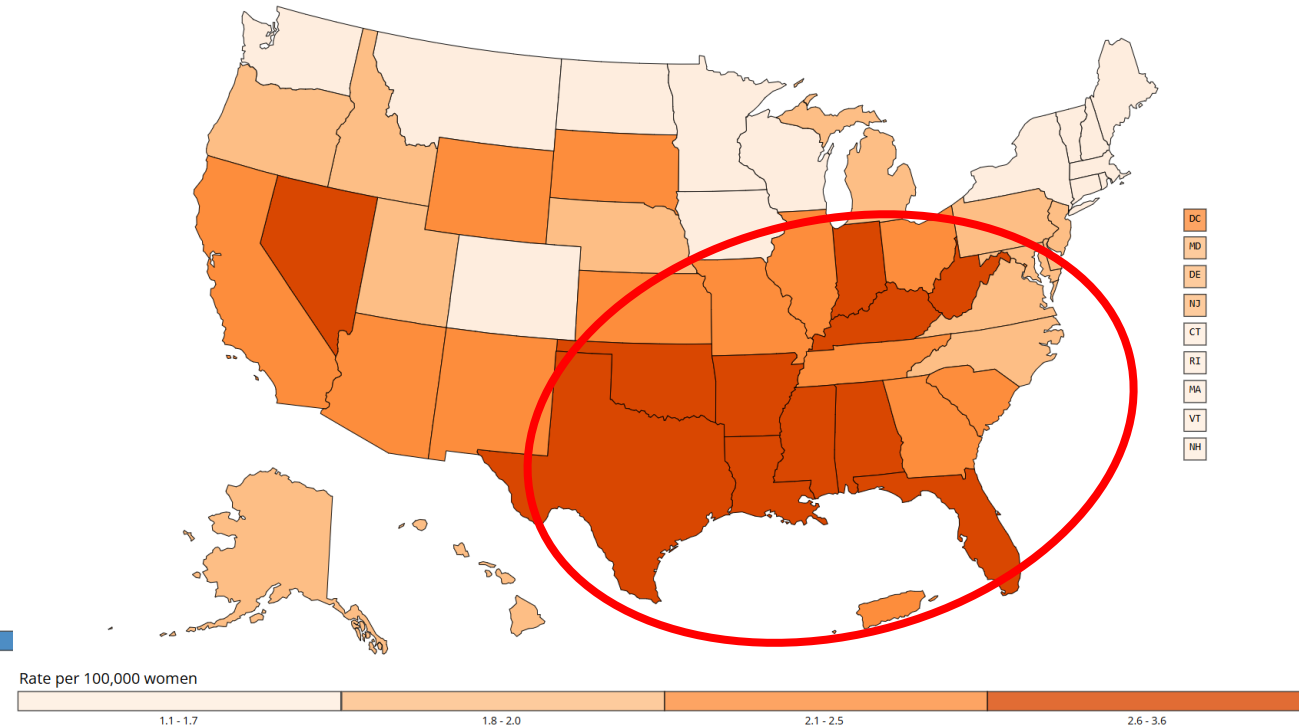
U.S. Cancer Statistics Data Visualizations Tool, 2024

Higher Mortality in the South

- Cervix Uteri: Age-Adjusted Incidence Rates, 2017-2021

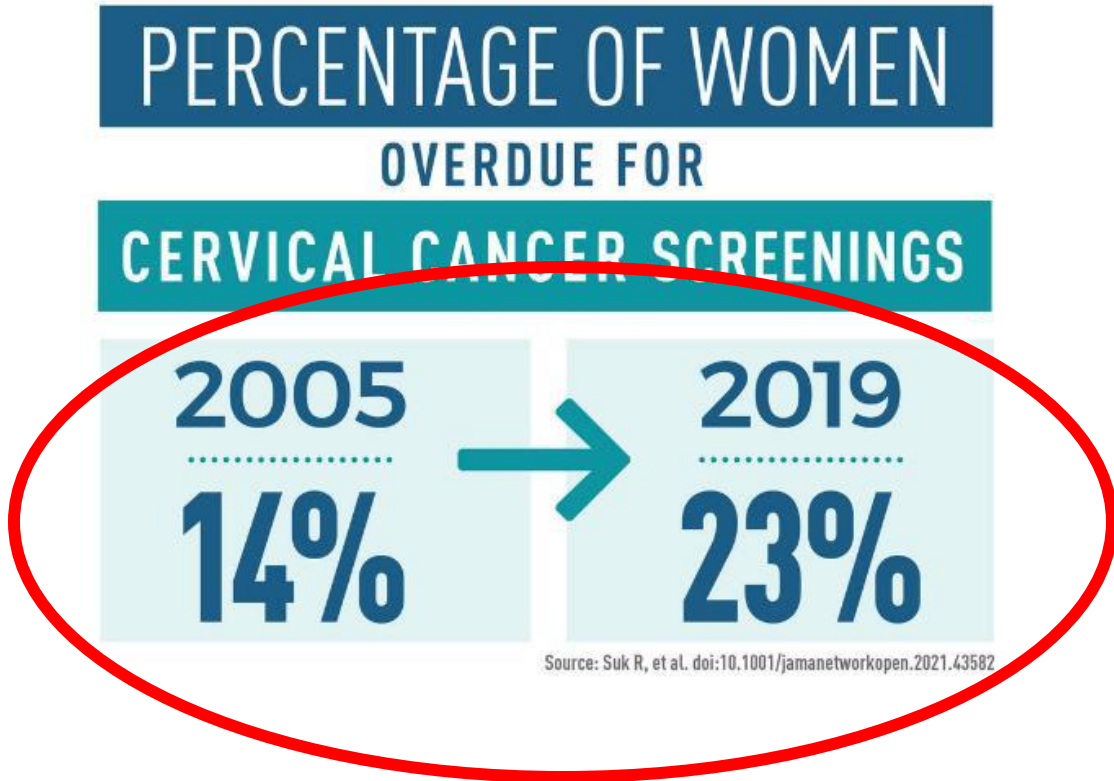


- Cervix Uteri: Age-Adjusted Mortality Rates, 2018-2022



U.S. Cancer Statistics Data Visualizations Tool, 2024

Low Screening Uptake



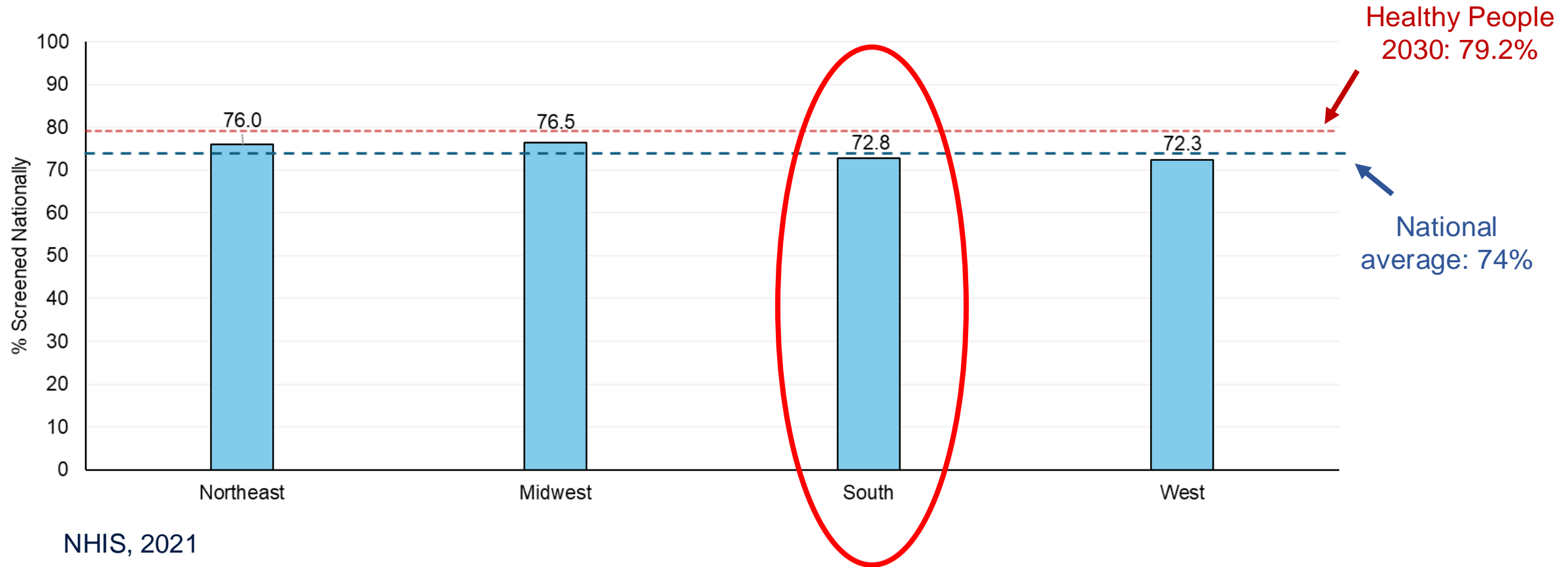
Suk et al., *JAMA Netw Open*, 2021

Predicted Probability of Overdue Screening

	Age 21-29y	Age 30-65y
Asian	36%	36%
Hispanic	31%	30%
NH Black	23%	21%
NH White	22%	21%
Other	28%	29%

	Age 21-29y	Age 30-65y
Private	20%	20%
Public	28%	28%
Other	24%	23%
None	41%	41%

Lower Cervical Cancer Screening in the South



DEFINING ELIMINATION

Elimination does not imply the complete absence of disease. Instead, it signifies the potential to significantly reduce the burden of HPV-related diseases, specifically cervical cancer, and their impact on communities. The World Health Organization (WHO) defines elimination as an incidence rate (new cases of cervical cancer) of less than 4 cases of cervical cancer per 100,000 women¹.

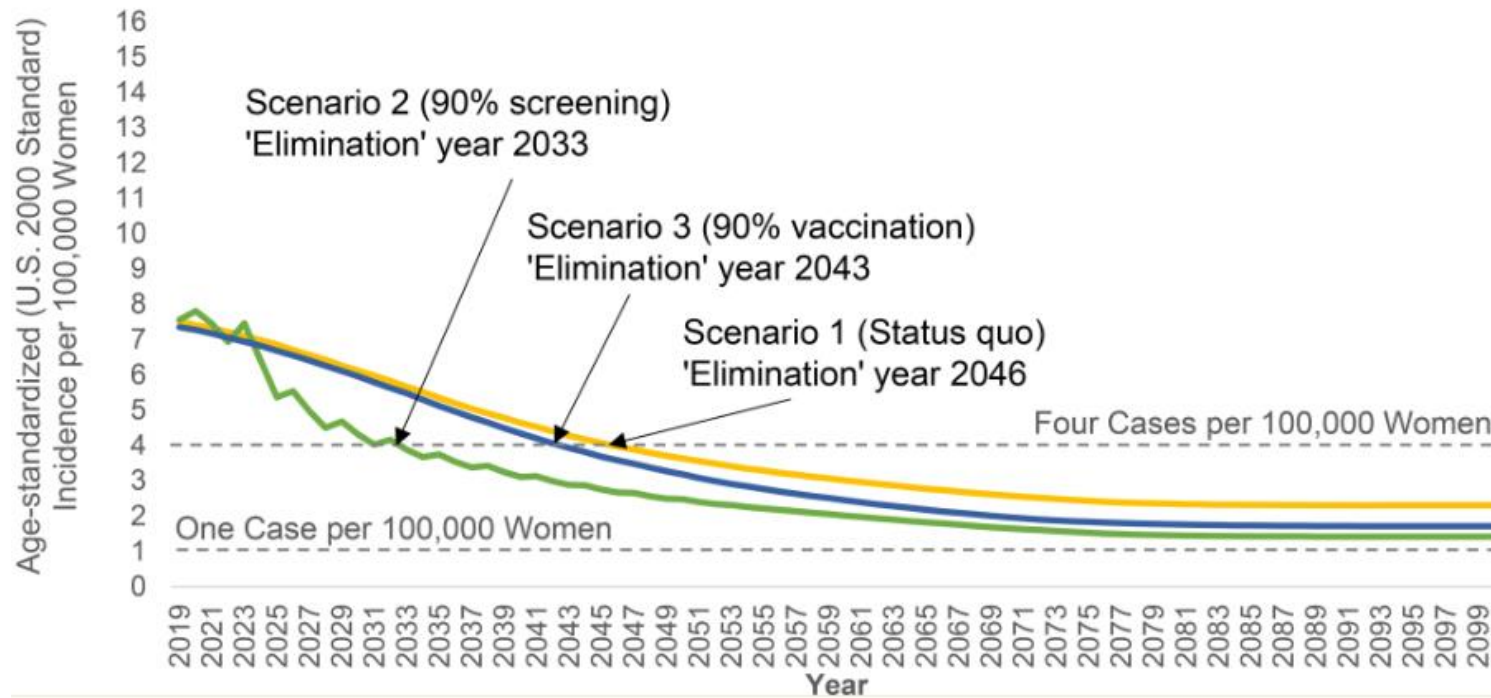


Elimination is not to be confused with eradication, and these terms should not be used interchangeably.

LESS THAN
4 CASES
OF CERVICAL
CANCER
PER 100,000
WOMEN¹

HPV Vaccination Roundtable of the Southeast, 2024

Mathematical models indicate that the United States can achieve the goal of cervical cancer elimination (reducing incidence from $\sim 7/100,000$ to $< 4/100,000$) by 2030 if we meet the goals set for the country for both vaccination and screening/treatment. The fastest way to achieve the goal is to ensure that all age-eligible women follow cervical



AR Giuliano, "The Road to Cervical Cancer Elimination", 2022

Burger, *Lancet Public Health*, 2021

The WHO Global Strategy to Accelerate Cervical Cancer Elimination¹, which focuses on girls and women, includes 90-70-90 targets for HPV vaccination, cervical cancer screening, and cervical cancer treatment:



of girls fully vaccinated with the HPV vaccine by the age of 15;



of women screened using a high-performance test by the age of 35, and again by the age of 45; and



of women identified with cervical disease receive treatment (90% of women with pre-cancer treated and 90% of women with invasive cancer managed).

HPV Vaccination Roundtable of the Southeast, 2024

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Human papillomavirus self-collection test



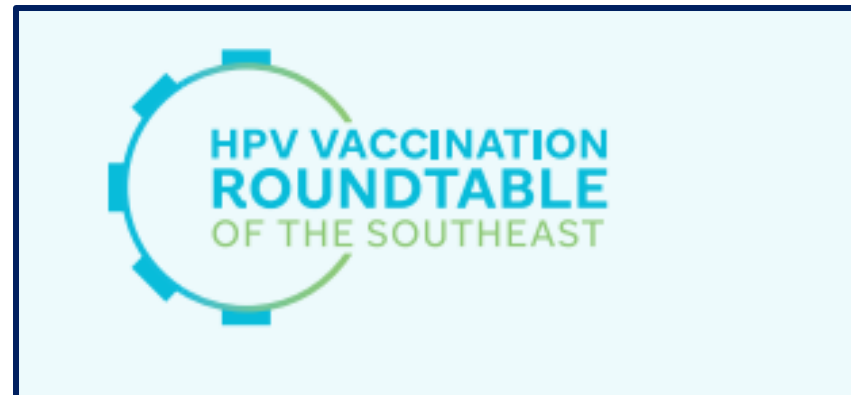
CLINICAL PRACTICE

Self-Collected Vaginal Specimens for HPV Testing: Recommendations From the Enduring Consensus Cervical Cancer Screening and Management Guidelines Committee

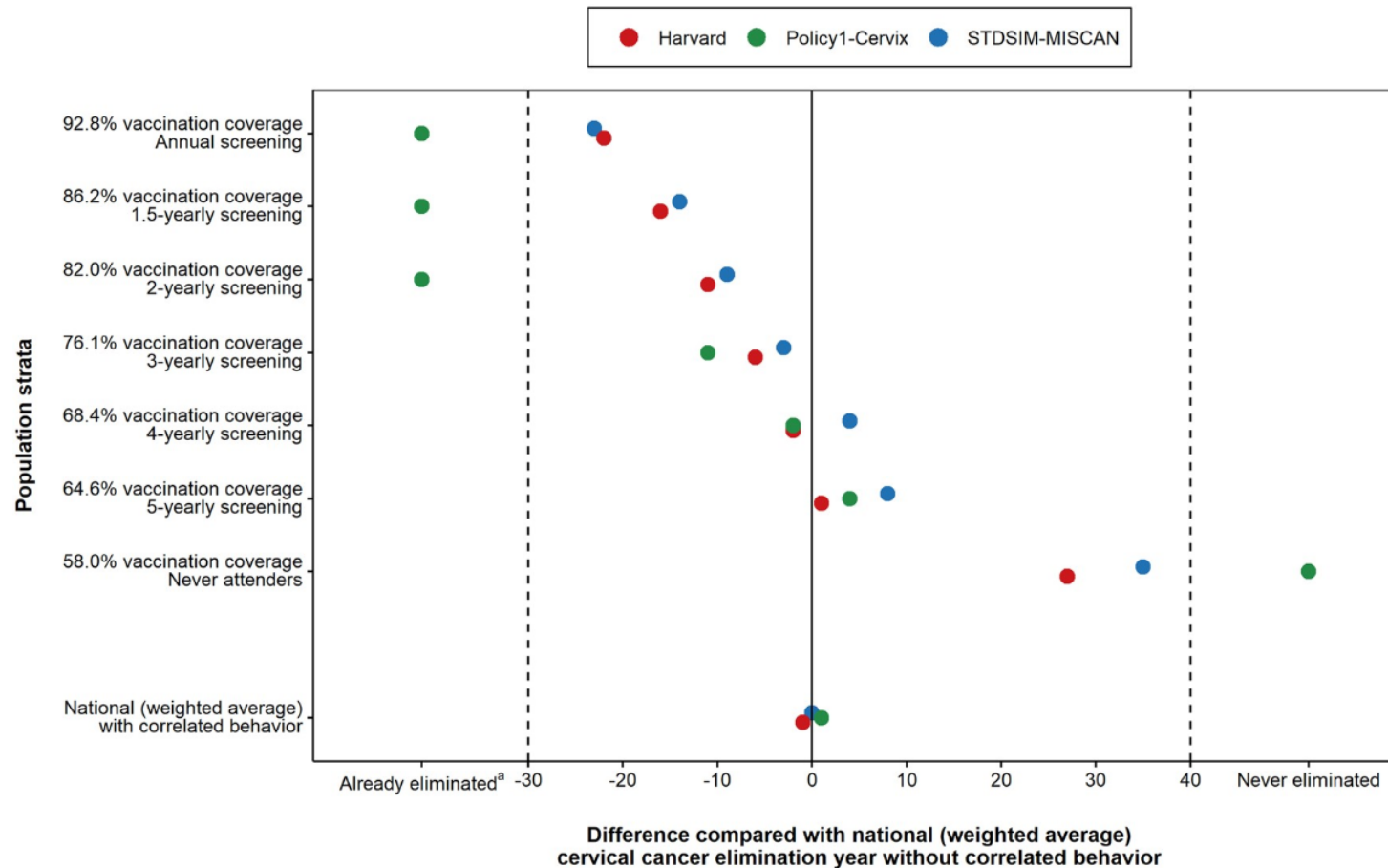
Wentzensen, Nicolas MD, PhD¹; Massad, L. Stewart MD²; Clarke, Megan A. PhD¹; Garcia, Francisco MD, MPH³; Smith, Robert PhD⁴; Murphy, Jeanne PhD, CNM⁵; Guido, Richard MD⁶; Reyes, Ana MS⁷; Phillips, Sarah MS¹; Berman, Nancy MSN, ANP-BC, NCMP, FAANP⁸; Quinlan, Jeffrey MD⁹; Lind, Eileen NP¹⁰; Perkins, Rebecca B. MD¹¹; Enduring Consensus Cervical Cancer Screening and Management Guidelines Committee

[Author Information](#)

Journal of Lower Genital Tract Disease ():10.1097/LGT.0000000000000885, February 21, 2025. | DOI: 10.1097/LGT.0000000000000885

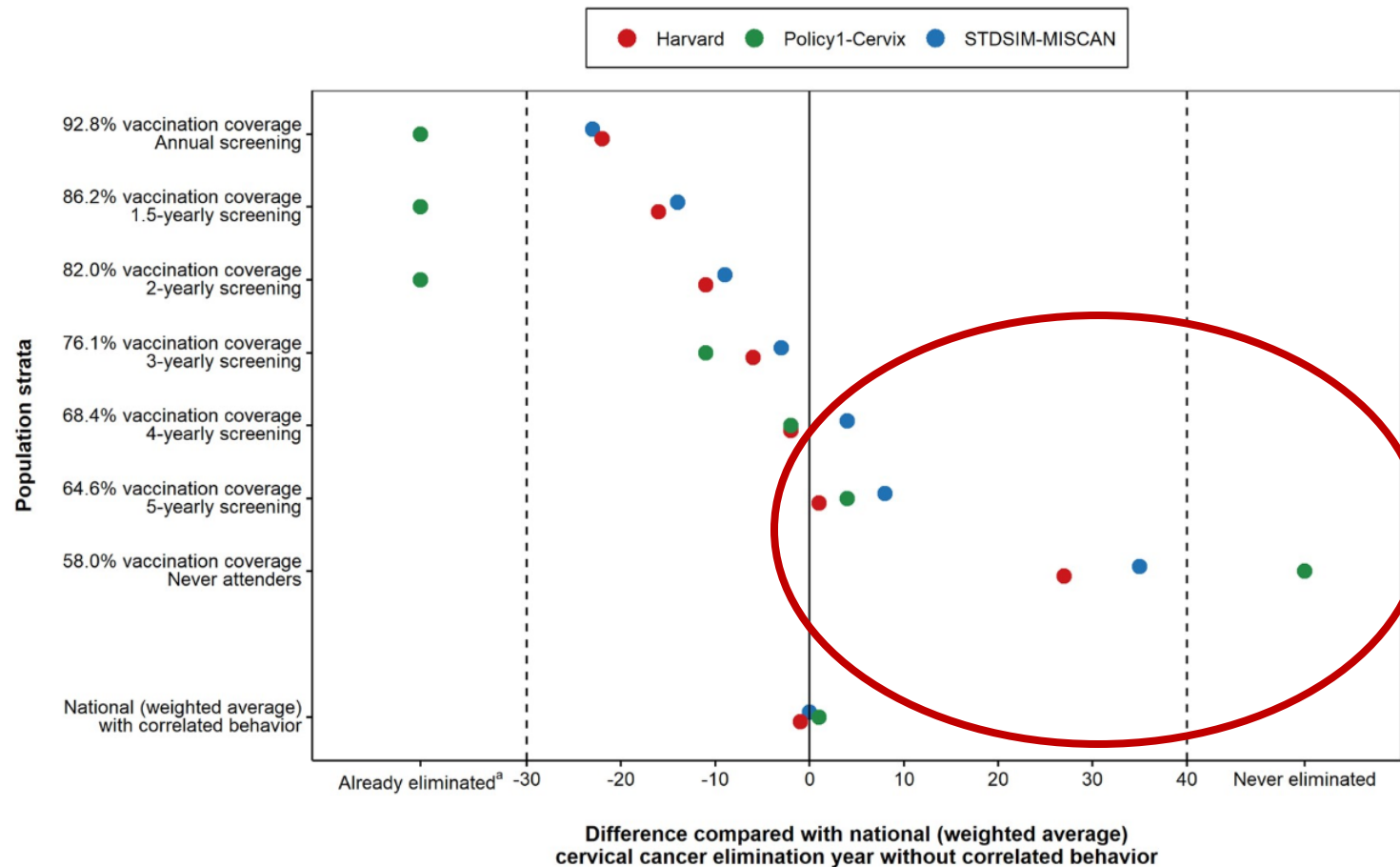


A Case for Elimination in ALL People



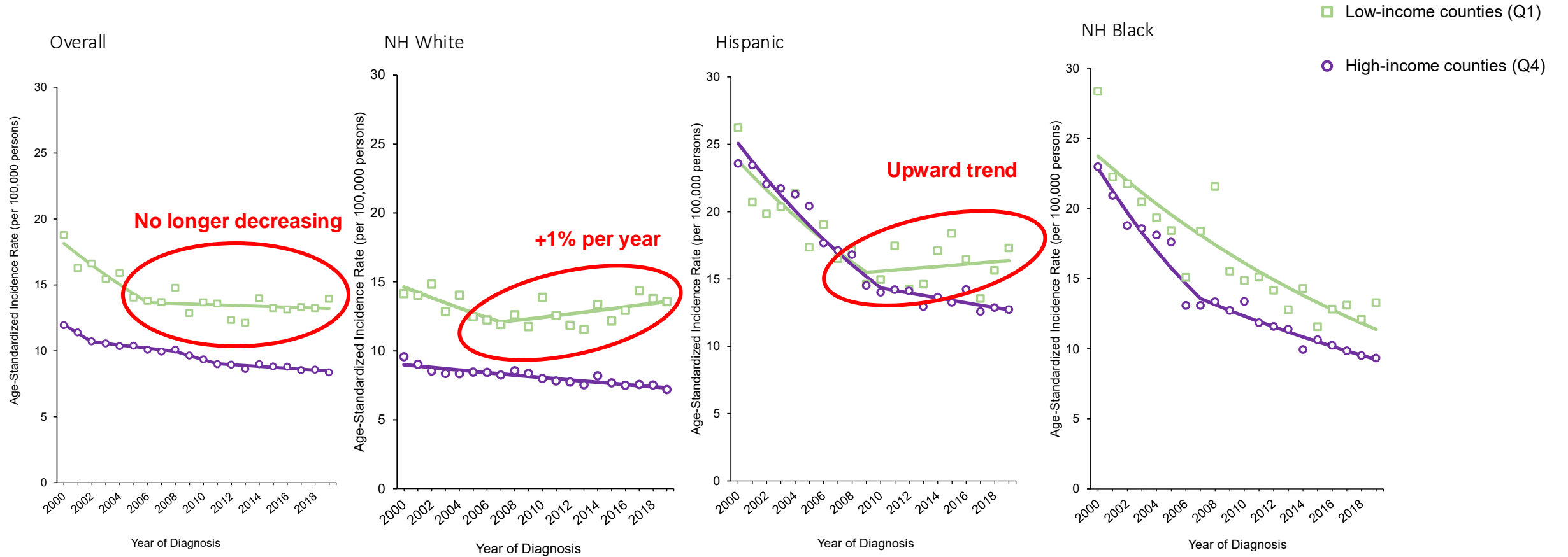
Burger et al., *JNCI*, 2025

A Case for Elimination in ALL People



Burger et al., *JNCI*, 2025

Differences in Rising Incidence



Amboree et al., *Int J Cancer*, 2024

Differences in Rising Advanced Stages

Troubling increase of distant-stage diagnoses within low-income quartile

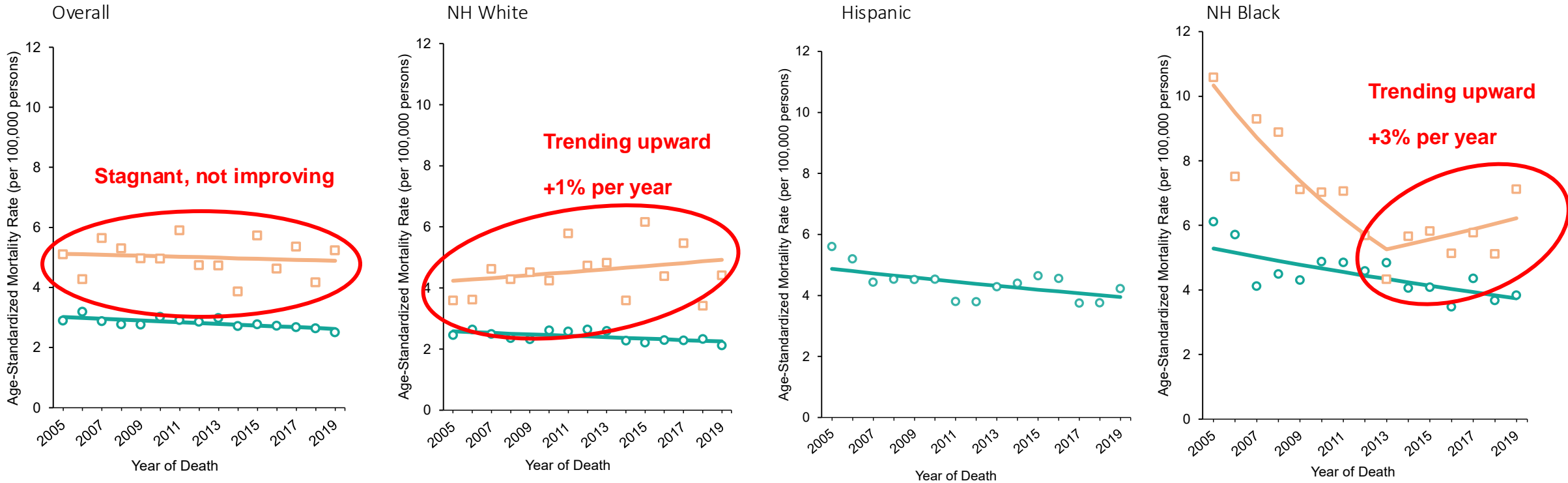
Race and ethnicity	Year	APC	(95%CI)
All	2004-2019	1.5%	-0.3% to 3.6%
NH White	2004-2019	4.4% *	1.7% to 7.5%
Hispanic	2004-2019	1.5%	-0.6% to 4.1%
NH Black	2004-2019	-4.1% *	-7.8% to -0.5%

* denotes statistical significance

Amboree et al., *Int J Cancer*, 2024

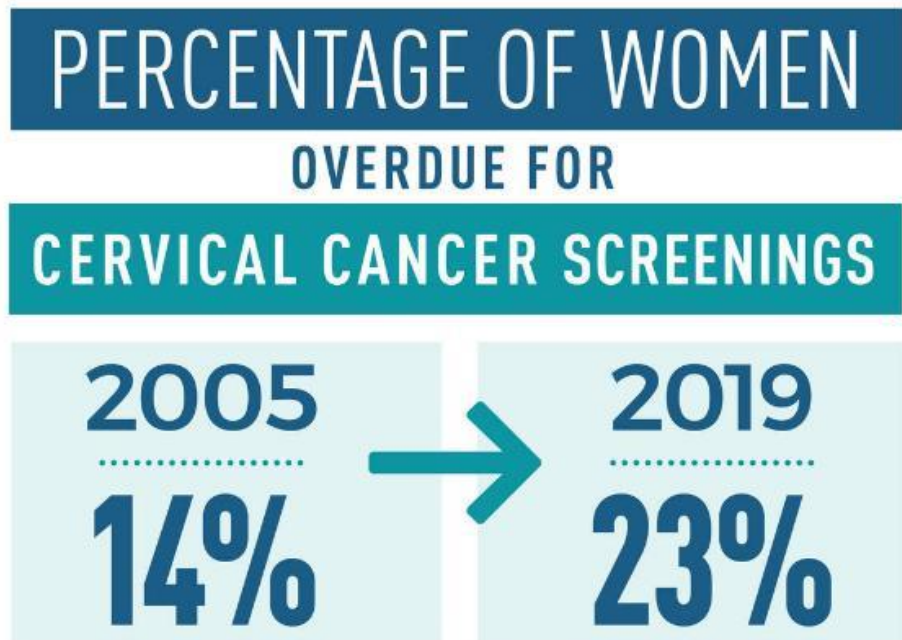
Differences in Cervical Cancer Mortality

- Low-income counties (Q1)
- High-income counties (Q4)



Amboree et al., *Int J Cancer*, 2024

Differences in Screening Uptake



Source: Suk R, et al. doi:10.1001/jamanetworkopen.2021.43582

Suk et al., *JAMA Netw Open*, 2021

Predicted Probability of Overdue Screening

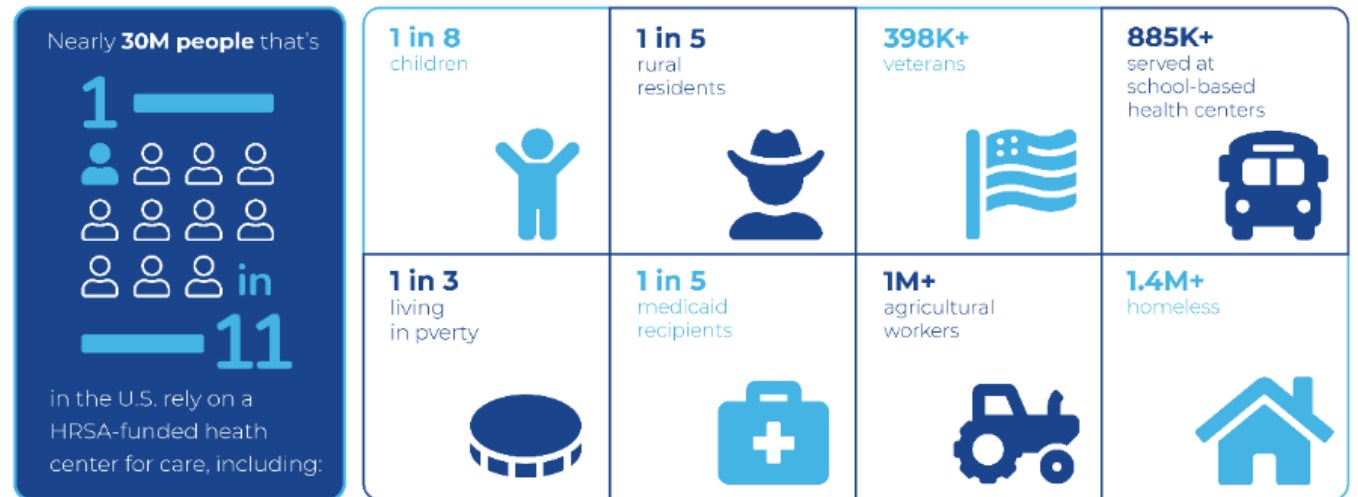
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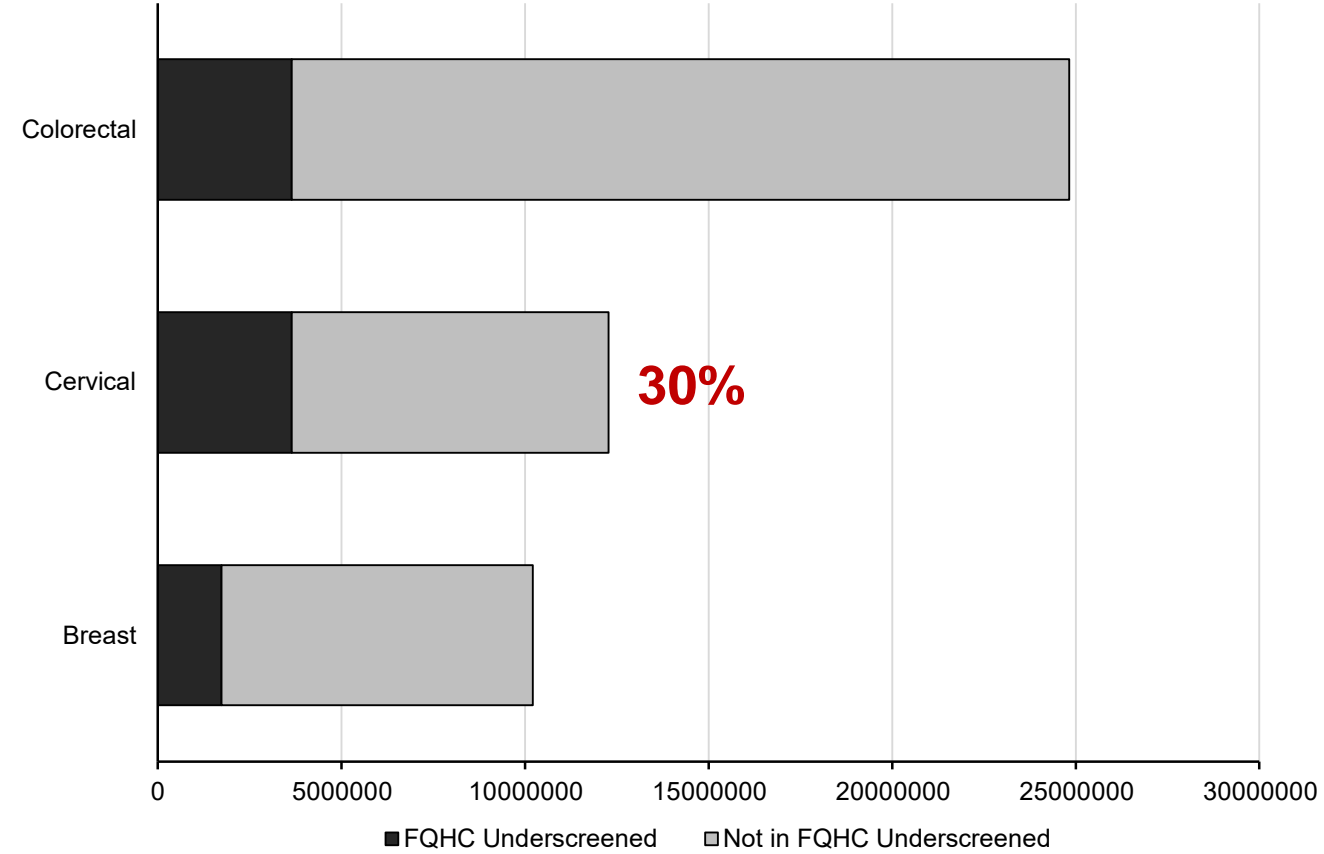
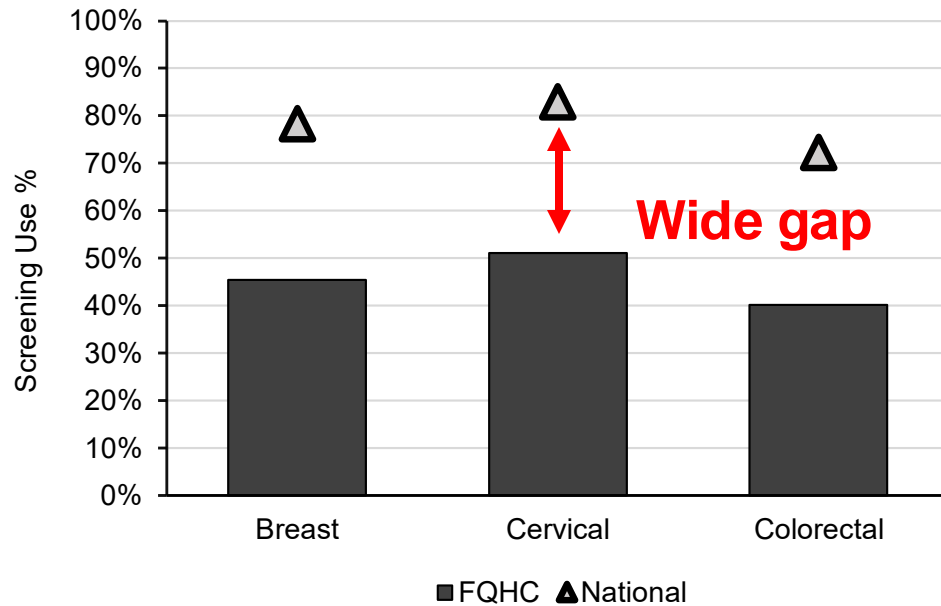
Settings servicing low-resourced populations



HRSA-Funded Health Centers Improve Lives

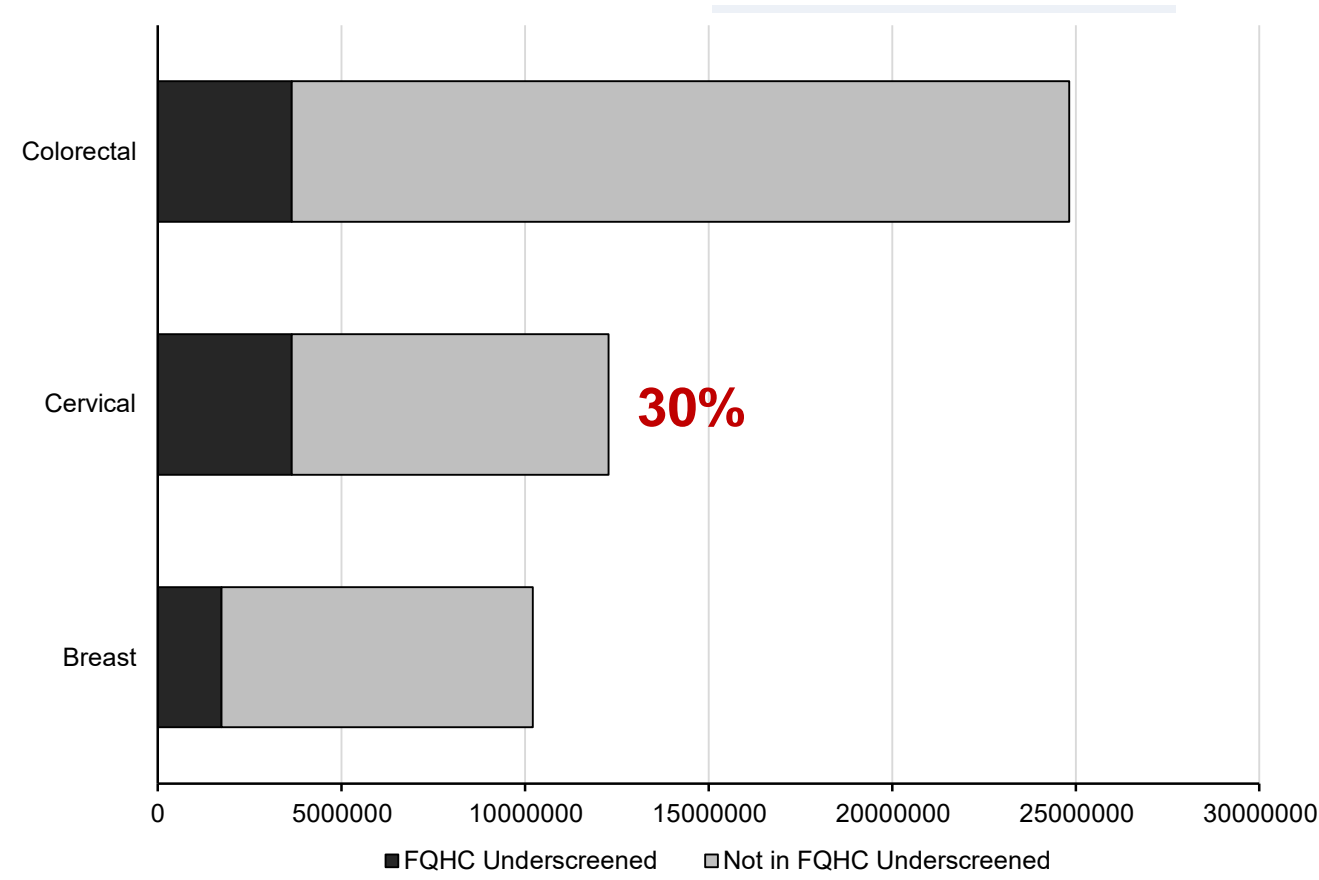
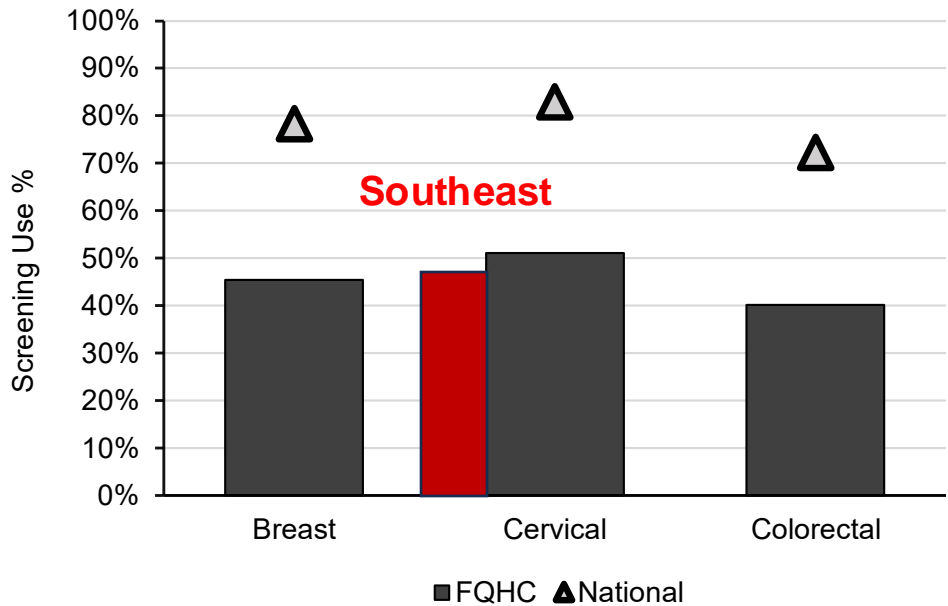


Lower screening uptake



Amboree et al., *JAMA Int Med*, 2024

Lower screening uptake

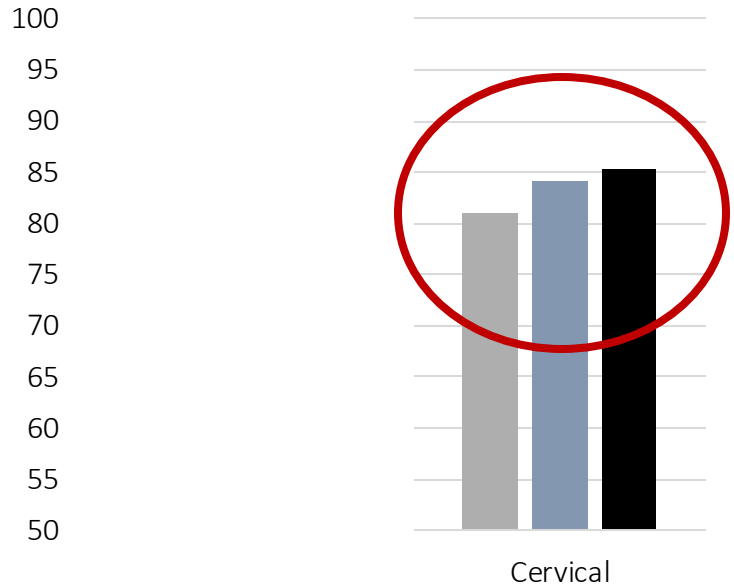


Amboree et al., *JAMA Int Med*, 2024

Scale Up Scenarios

Healthy People 2030

Current HP2030
51.0% → 79.2%



Mitigate racial/ethnic differences

- R&E Minority Screened (Before) ■ NH White Screened
- R&E Minority Screened (After)

Amboree et al., *JAMA Int Med*, 2024

Original Investigation

April 29, 2024

National Breast, Cervical, and Colorectal Cancer Screening Use in Federally Qualified Health Centers

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> Author Affiliations | Article Information

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A Case for Elimination in ALL People

Targeted improvements in low-resourced settings

- FQHCs
- Safety net health settings
- Rural and low-income areas

A Case for Elimination in ALL People



A Case for Elimination in ALL People



There is HOPE! We can do this!

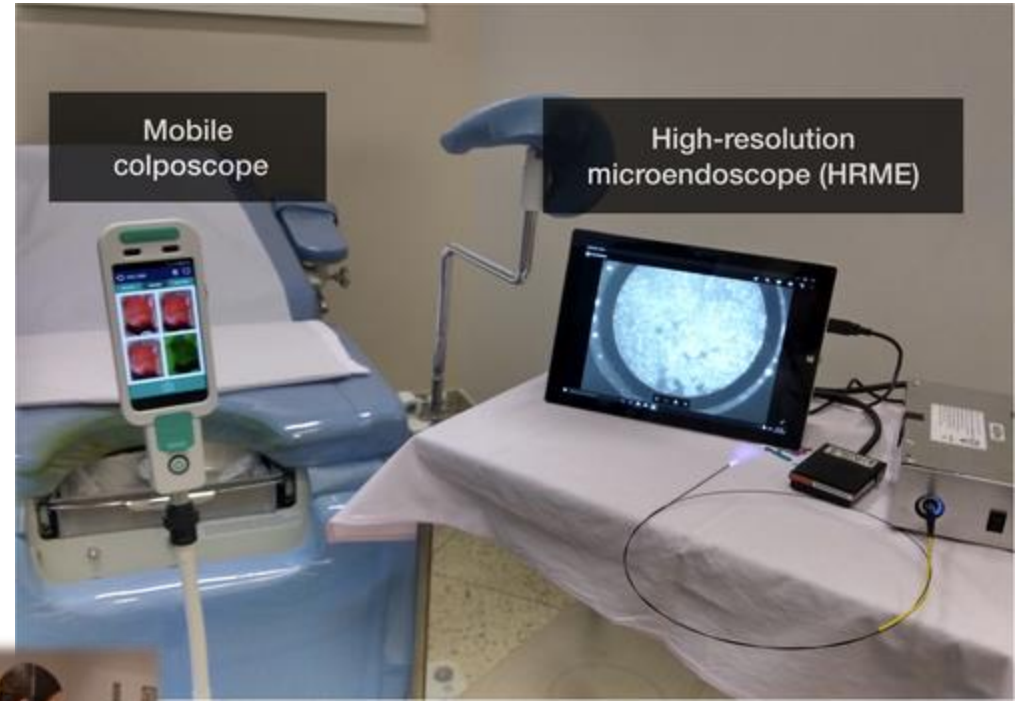
There is HOPE! We can do this!



POC Testing,
Richards-Kortum Lab
Rice University



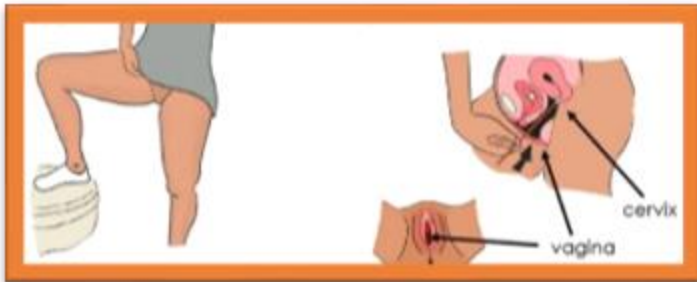
Pocket Colposcope
(Beta), Duke University
Global Health Institute



Patient Navigation

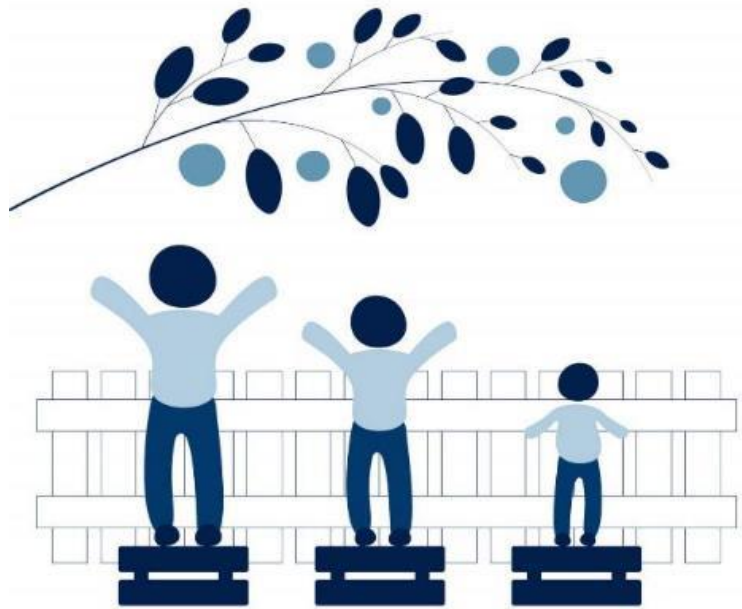
Drs. Rebecca Richards-
Kortum and Kathleen
Schmeler

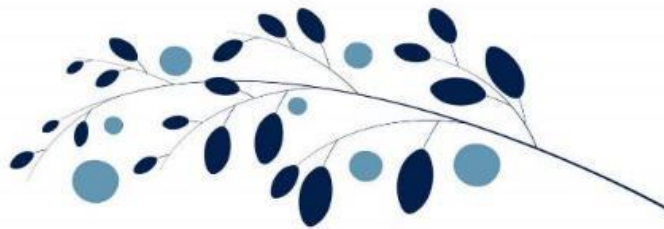
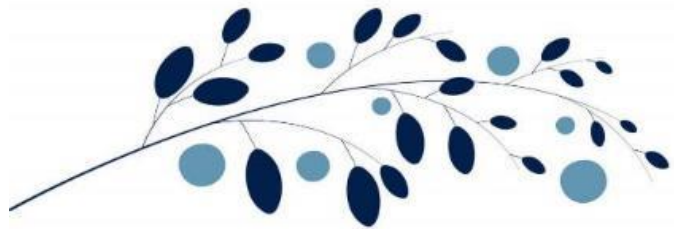
Hunt et al, Int J Cancer, 2022



Self-collection







We can eliminate cervical cancer as a public health problem among ALL people!



Primary Funding

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- HCC Health Equity Scholars Award

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SPEAKER

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State-level Disparities in Cervical Cancer Prevention and Outcomes

A modeling study

Presenter: Ran Zhao, PhD MPH
Department of Epidemiology and Community Health

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 - National Cancer Institute (U01- CA253912) as part of the Cancer Intervention and Surveillance Modeling Network (CISNET) (Supplement PI: Shalini Kulasingam)
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- No conflicts of interest

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Background

- Cervical cancer causes a significant economic burden in the US.
- Prophylactic interventions include
 - cervical cancer screening: targeting women aged 21-65 years old
 - HPV vaccination: targeting adolescents (age 9-14 years old) with possible catch-up in adulthood up to age 45 years old
- Both interventions are effective in reducing the CC disease burden

Yabroff KR, Mariotto A, Tangka F, et al. Annual Report to the Nation on the Status of Cancer, Part 2: Patient Economic Burden Associated With Cancer Care. *JNCI J Natl Cancer Inst.* 2021;113(12):1670-1682. doi:10.1093/jnci/djab192

Howlader N, Noone AM, Krapcho M, Miller D, Brest A, Yu M, Ruhl J, Tatalovich Z, Mariotto A, Lewis DR, Chen HS, Feuer EJ, Cronin KA (eds). SEER Cancer Statistics Review, 1975-2016, National Cancer Institute. Bethesda, MD, https://seer.cancer.gov/csr/1975_2016/, based on November 2018 SEER data submission, posted to the SEER web site, April 2019.

Healthy People 2030 Initiatives

HPV vaccination

Status: Improving 

[Learn more about our data release schedule](#)



Most Recent Data:
58.5 percent (2021)



Target:
80.0 percent



Desired Direction:
Increase desired



Baseline:
48.0 percent of adolescents aged 13 through 15 years received recommended doses of the HPV vaccine by 2018

Cervical cancer screening

Status: Little or no detectable change 

[Learn more about our data release schedule](#)



Most Recent Data:
73.9 percent (2021) *



Target:
79.2 percent ¹ *



Desired Direction:
Increase desired



Baseline:
75.0 percent of females aged 21 to 65 years received a cervical cancer screening based on the most recent guidelines in 2019 ² *

* Age adjusted to the year 2000 standard population.

Available at:

https://odphp.health.gov/healthypeople/search?query=all%20objectives&f%5B0%5D=content_type%3Ahealthy_people_objective

Background

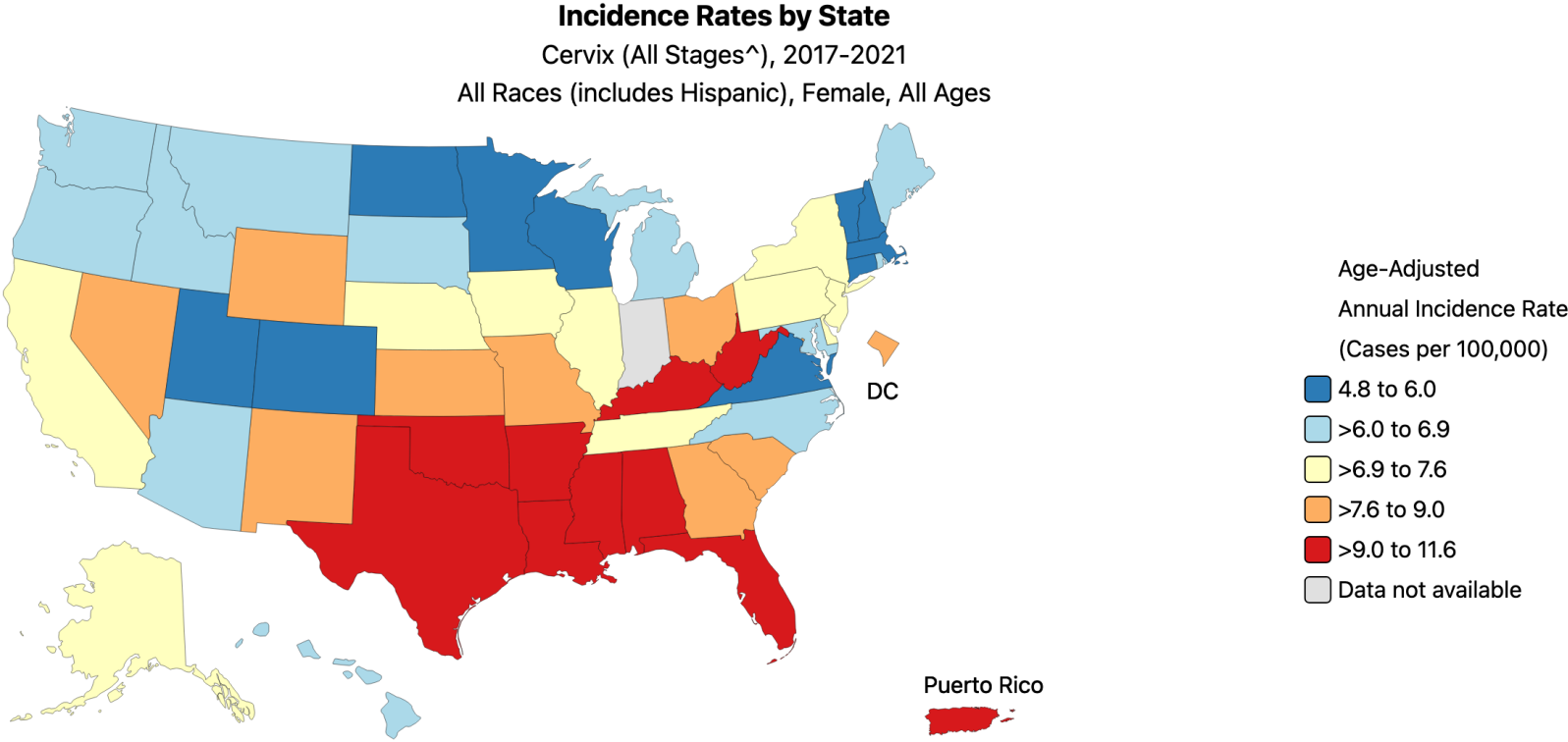
- American Cancer Society cervical cancer elimination goal: reduce cervical cancer incidence to 4 per 100,000 life-years
- Geographic disparities exist in terms of cervical cancer outcomes and prevention

ACS Elimination Statement on HPV Cancers. <https://www.cancer.org/content/dam/cancer-org/online-documents/en/pdf/flyers/acs-elimination-statement-on-hpv-cancers.pdf>

Hirth J. Disparities in HPV vaccination rates and HPV prevalence in the United States: a review of the literature. *Hum Vaccin Immunother*. 2019;15:146-155. <https://doi.org/10.1080/21645515.2018.1512453>

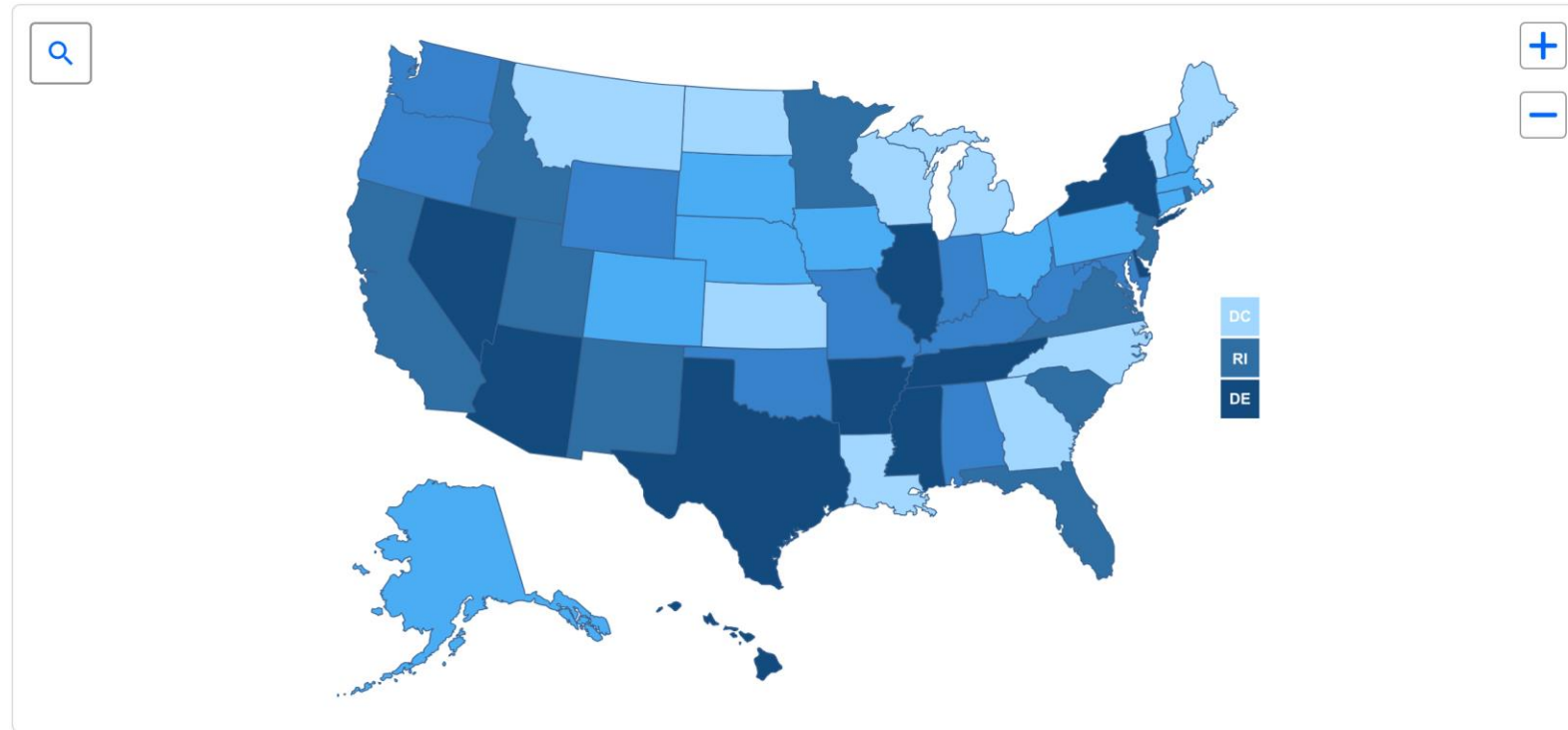
Spencer JC, Brewer NT, Coyne-Beasley T, Trogon JG, Weinberger M, Wheeler SB. Reducing poverty-related disparities in cervical cancer: the role of HPV vaccination. *Cancer Epidemiol Biomarkers Prev*. 2021;30:1895-1903. <https://doi.org/10.1158/1055-9965.EPI-21-0307>

Cervical Cancer Incidence

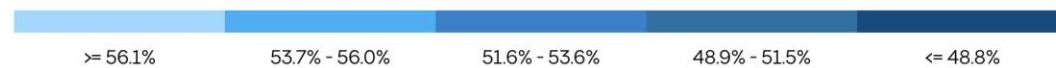


Link: <https://statecancerprofiles.cancer.gov/map/map.withimage.php?state=057&00&2&01&0&1&5&0#results>

Percentage of women ages 25-44 who reported receiving cervical cancer screening consistent with the USPSTF guidelines



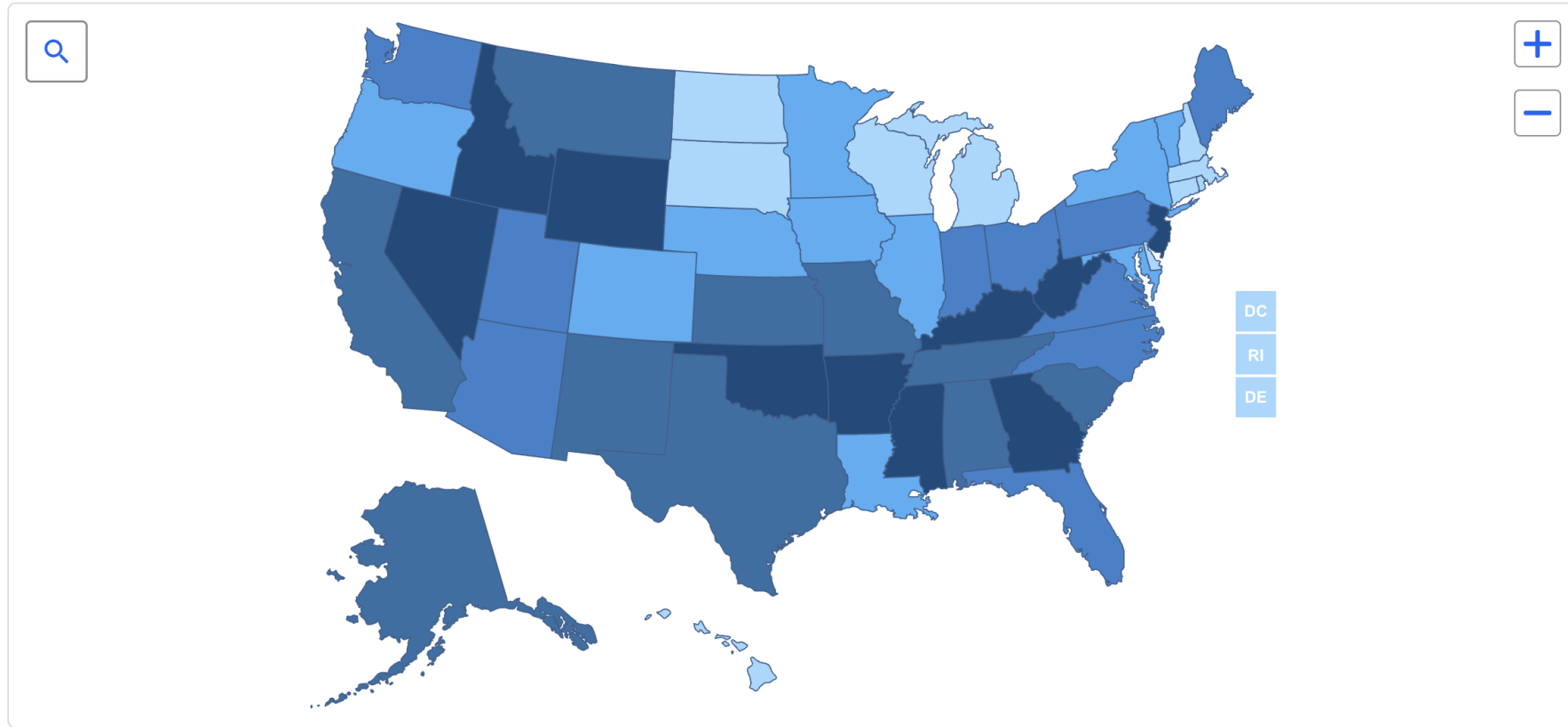
Data from CDC, Behavioral Risk Factor Surveillance System, 2022



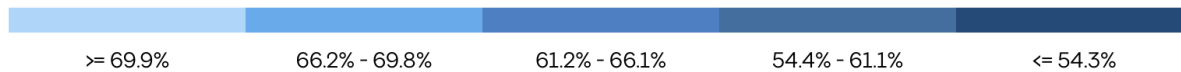
• Data Unavailable

Link: https://www.americashealthrankings.org/explore/measures/cervical_cancer_screen_women

HPV vaccine coverage 2023 both genders

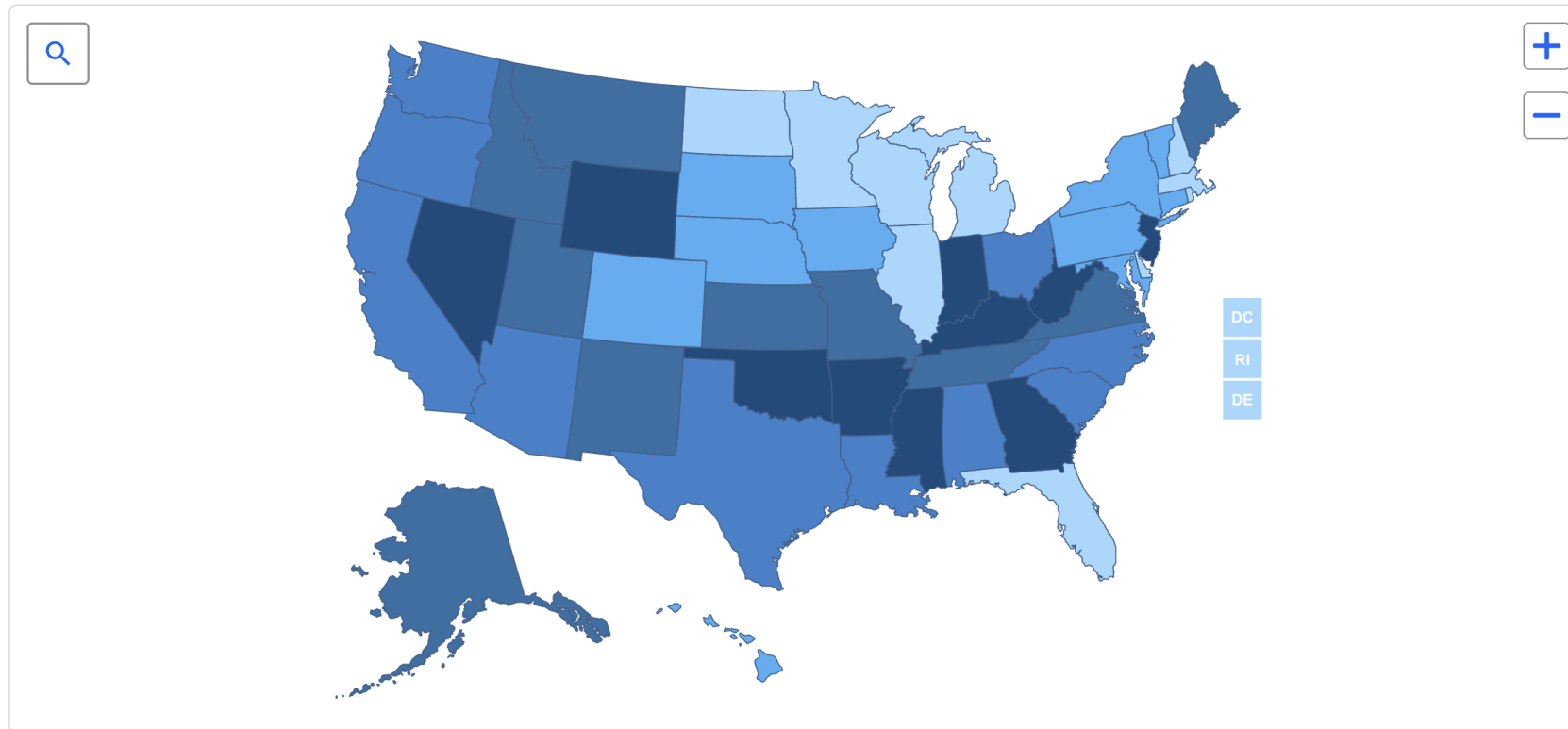


Data from CDC, National Immunization Survey-Teen, 2023

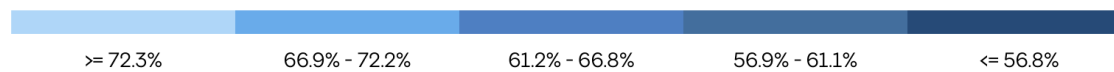


https://www.americashealthrankings.org/explore/measures/Immunize_HPV

HPV vaccine coverage 2023 girls

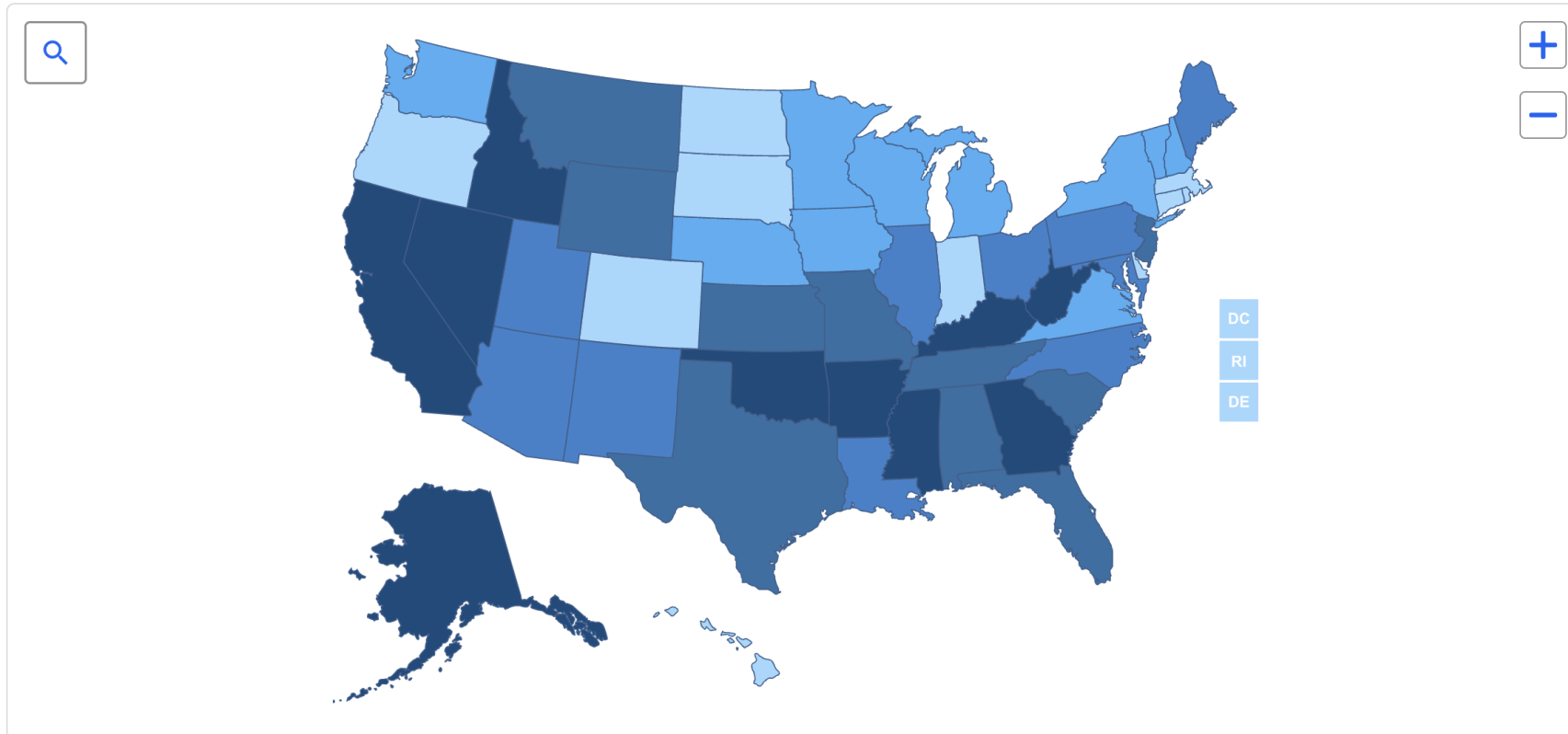


Data from CDC, National Immunization Survey-Teen, 2023

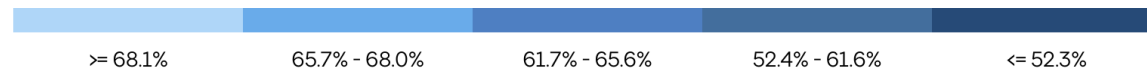


https://www.americashealthrankings.org/explore/measures/Immunize_HPV

HPV vaccine coverage 2023 boys



Data from CDC, National Immunization Survey-Teen, 2023



https://www.americashealthrankings.org/explore/measures/Immunize_HPV

Background

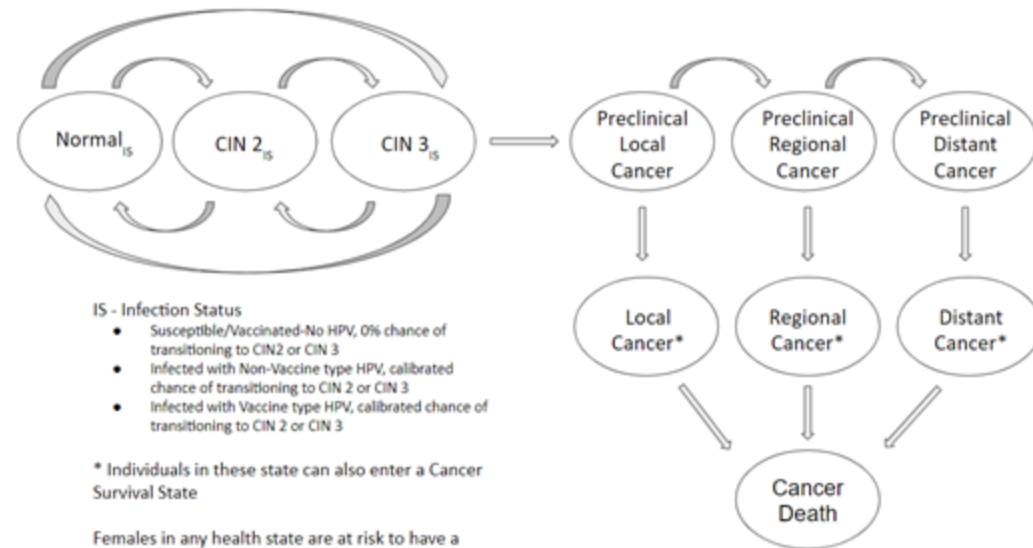
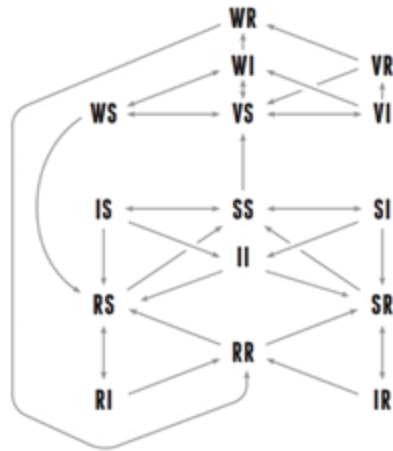
- The state-level variations may potentially impact the long-term reduction in cervical cancers and cancer deaths of the elimination efforts
- Mathematical modeling can be used to project the effect of different interventions over time

Model Overview

- CISNET Cervix Collaborative (C3) model
- Tailored to the 50 US states
- Used to simulate state variations in cervical cancer incidence and mortality and predict the impact of different assumptions about efforts to increase screening and vaccination uptake

Methods

- C3 state-level model of HPV and cervical cancer accounts for:
 - Transmission of HPV
 - Development of cervical cancer
 - Impact of screening
 - Impact of vaccination



- IS - Infection Status
- Susceptible/Vaccinated-No HPV, 0% chance of transitioning to CIN2 or CIN 3
 - Infected with Non-Vaccine type HPV, calibrated chance of transitioning to CIN 2 or CIN 3
 - Infected with Vaccine type HPV, calibrated chance of transitioning to CIN 2 or CIN 3

* Individuals in these state can also enter a Cancer Survival State

Females in any health state are at risk to have a hysterectomy for benign reasons based on state level data

State-level Data

Population age structure: US population by age, state, and gender (American Community Survey)

Background mortality (United State Mortality Database)

Hysterectomy: age-specific hysterectomy rate for noncancerous conditions (National Hospital Discharge Survey Data)

Demographic parameters

State-level Data

Sexual behavior parameters

State-specific age of
sexual debut (Durham et
al.)

State-level Data

Screening and vaccination uptake

Cervical cancer
screening (Behavioral
Risk Factor Surveillance
System)

HPV vaccination
(National-Immunization
Survey- Teen)










Analysis 1

Three example states: California, Texas, New York
Intervention considered: HPV vaccination

Leading author: Dr. Fernando Alarid-Escudero

Collaborators: Valeria Gracia, MS, Marina Wolf, MD, Ran Zhao, PhD, Caleb W Easterly, BS, Jane J Kim, PhD, Karen Canfell, DPhil, Inge M C M de Kok, PhD, Ruanne V Barnabas, MB, ChB, PhD, Shalini Kulasingam, PhD

State-level disparities in cervical cancer prevention and outcomes in the United States: a modeling study

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Abstract

Background: Despite human papillomavirus (HPV) vaccines' availability for over a decade, coverage across the United States varies. Although some states have tried to increase HPV vaccination coverage, most model-based analyses focus on national impacts. We evaluated hypothetical changes in HPV vaccination coverage at the national and state levels for California, New York, and Texas using a mathematical model.

Methods: We developed a new mathematical model of HPV transmission and cervical cancer, creating national- and state-level models, incorporating country- and state-specific vaccination coverage and cervical cancer incidence and mortality. We quantified the national- and state-level impact of increasing HPV vaccination coverage to 80% by 2025 or 2030 on cervical cancer outcomes and the time to elimination defined as less than 4 per 100 000 women.

Results: Increasing vaccination coverage to 80% in Texas over 10 years could reduce cervical cancer incidence by 50.9% (95% credible interval [CrI] = 46.6%-56.1%) by 2100, from 1.58 (CrI = 1.19-2.09) to 0.78 (CrI = 0.57-1.02) per 100 000 women. Similarly, New York could see a 27.3% (CrI = 23.9%-31.5%) reduction from 1.43 (CrI = 0.93-2.07) to 1.04 (CrI = 0.66-1.53) per 100 000 women, and California a 24.4% (CrI = 20.0%-30.0%) reduction from 1.01 (CrI = 0.66-1.44) to 0.76 (CrI = 0.50-1.09) per 100 000 women. Achieving 80% coverage in 5 years will provide slightly larger and sooner reductions. If the vaccination coverage levels in 2019 continue, cervical cancer elimination could occur nationally by 2051 (CrI = 2034-2064), but state timelines may vary by decades.

Conclusion: Targeting an HPV vaccination coverage of 80% by 2030 will disproportionately benefit states with low coverage and higher cervical cancer incidence. Geographically focused analyses can better inform priorities.

Simulated Scenarios

1

Status quo
States continue at the
2019 level of vaccination

2

Healthy People 5 years
80% vaccination of males
and females ages 13-15,
achieved in five years

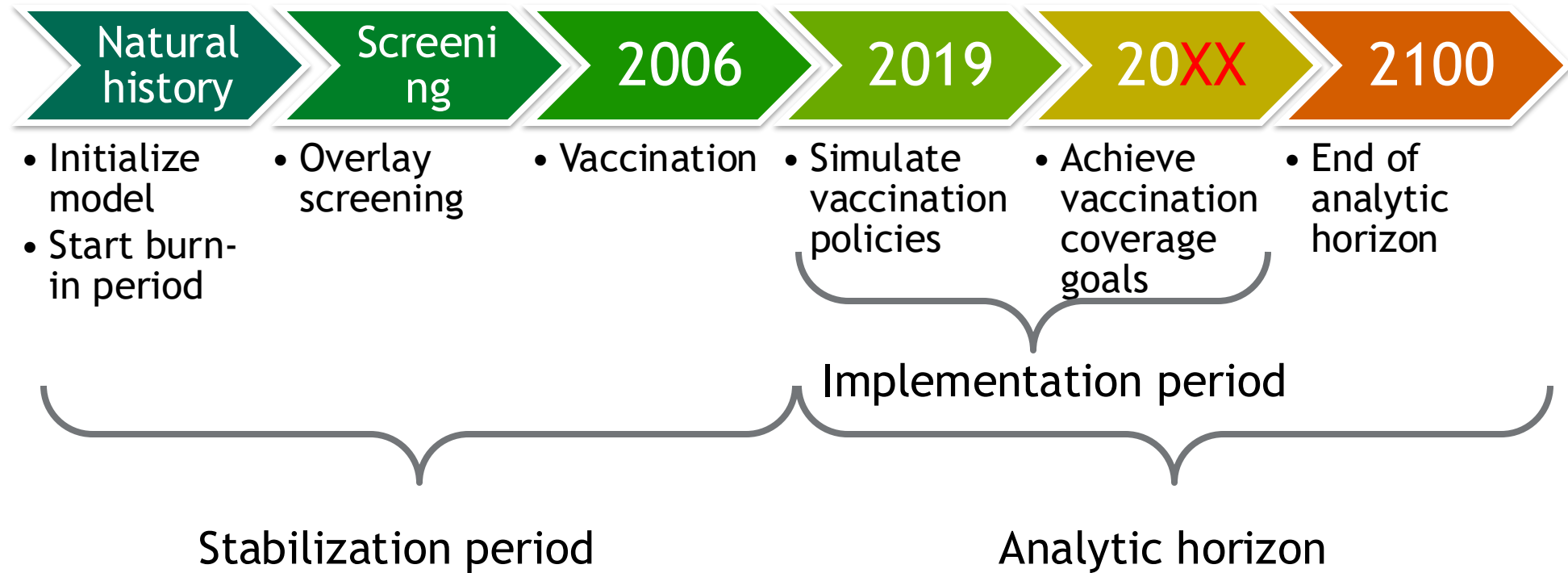
3

Healthy People 10 years
80% vaccination of males
and females ages 13-15,
achieved in ten years

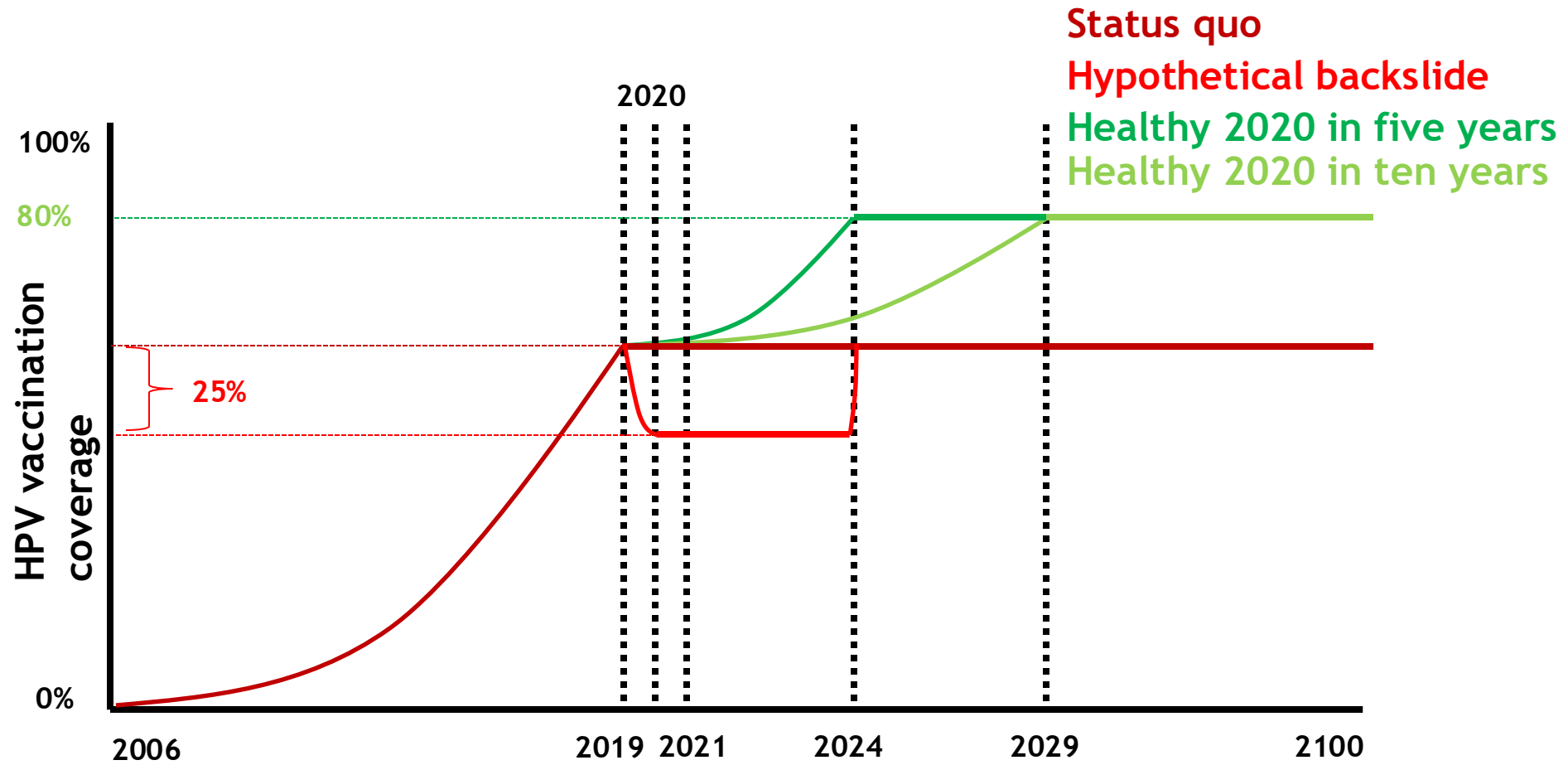
4

Hypothetical backslide
25% decrease in both
vaccinations and
screening from the status
quo for five years due to
the COVID-19 pandemic

Timeline



Vaccination scenarios



Screening and Vaccination Assumptions for Status Quo Scenario

Table 1. Country and state-specific vaccination and screening coverage

Country or state	Vaccination coverage in 2019 ^{a,25}		Screening coverage in 2020 ^{a,26}
	At least 2 doses of HPV vaccine, boys aged 13-17 years	At least 2 doses of HPV vaccine, girls aged 13-17 years	Women aged 21-65 years who have had a Pap test in the past 3 years
United States	54.8%	60.7%	77.7%
California	54.5%	70.9%	79.3%
New York	57.1%	64.0%	79.8%
Texas	49.6%	54.2%	75.0%

^a Vaccination coverage is defined as the proportion of boys or girls aged 13-17 years who have received at least 2 doses of the HPV vaccine. Screening coverage is defined as the proportion of women aged 21-65 years who have had a Pap test in the past 3 years. The denominator has been adjusted for women who had hysterectomy. HPV = human papillomavirus.

Analysis

Primary outcomes: cervical cancer incidence and mortality over time

Results: percent reduction in incidence and mortality compared to status quo at the end of the simulation

Results

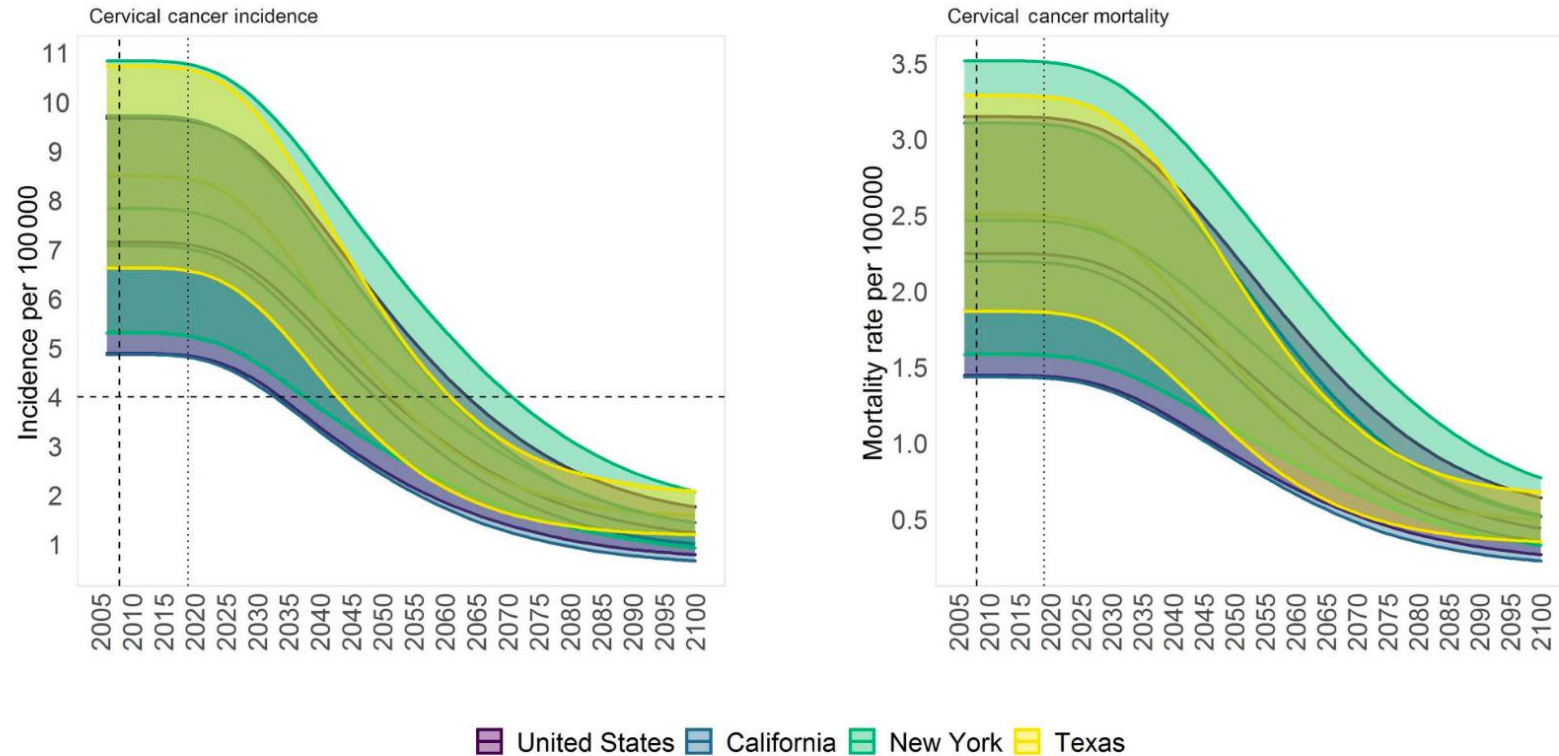


Figure 1. Cervical cancer incidence and mortality over time for the United States, California, New York, and Texas, assuming human papillomavirus vaccination coverage in 2019. The **vertical dashed line** denotes the US Food and Drug Administration approval of the human papillomavirus vaccine for women. The **vertical dotted line** denotes the beginning of the predicted outcomes. The **horizontal dashed line** in cervical cancer incidence at 4 per 100 000 represents the cervical cancer elimination goal. The **shaded area** shows the 95% posterior model-predictive credible interval (CrI) of the outcomes. The **solid lines** show the posterior model-predicted mean based on 1000 simulations using samples from the posterior distribution.

Results

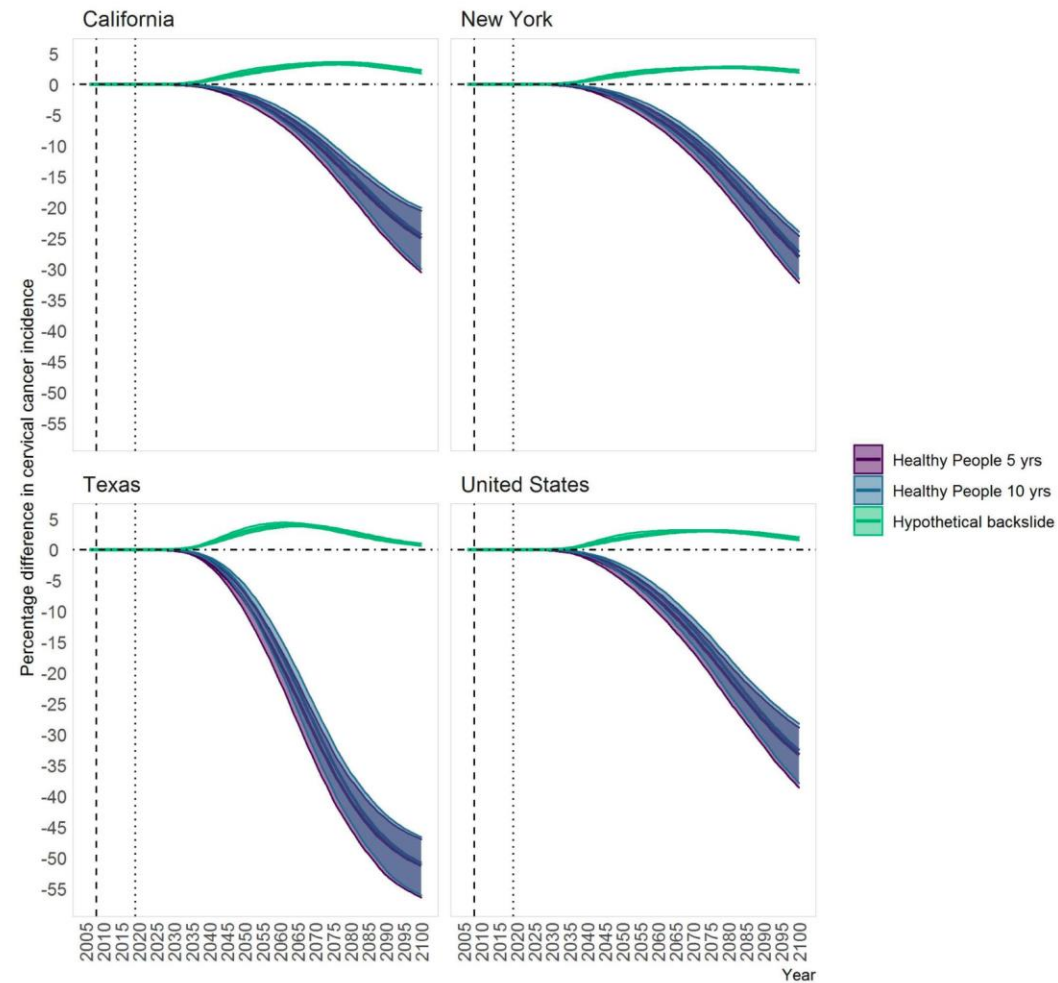


Figure 2. Percentage difference in cervical cancer incidence over time for different human papillomavirus vaccination coverage scenarios (ie, 25% reduction in vaccination coverage for 5 years [backslide] or reaching 80% vaccination coverage [Healthy People] in 5 or 10 years) relative to continuing with coverage in 2019 for the United States and 3 states. The **shaded area** shows the 95% posterior model-predictive credible interval of the outcomes. The **solid lines** show the posterior model-predicted mean based on 1000 simulations using samples from the posterior distribution.

Results

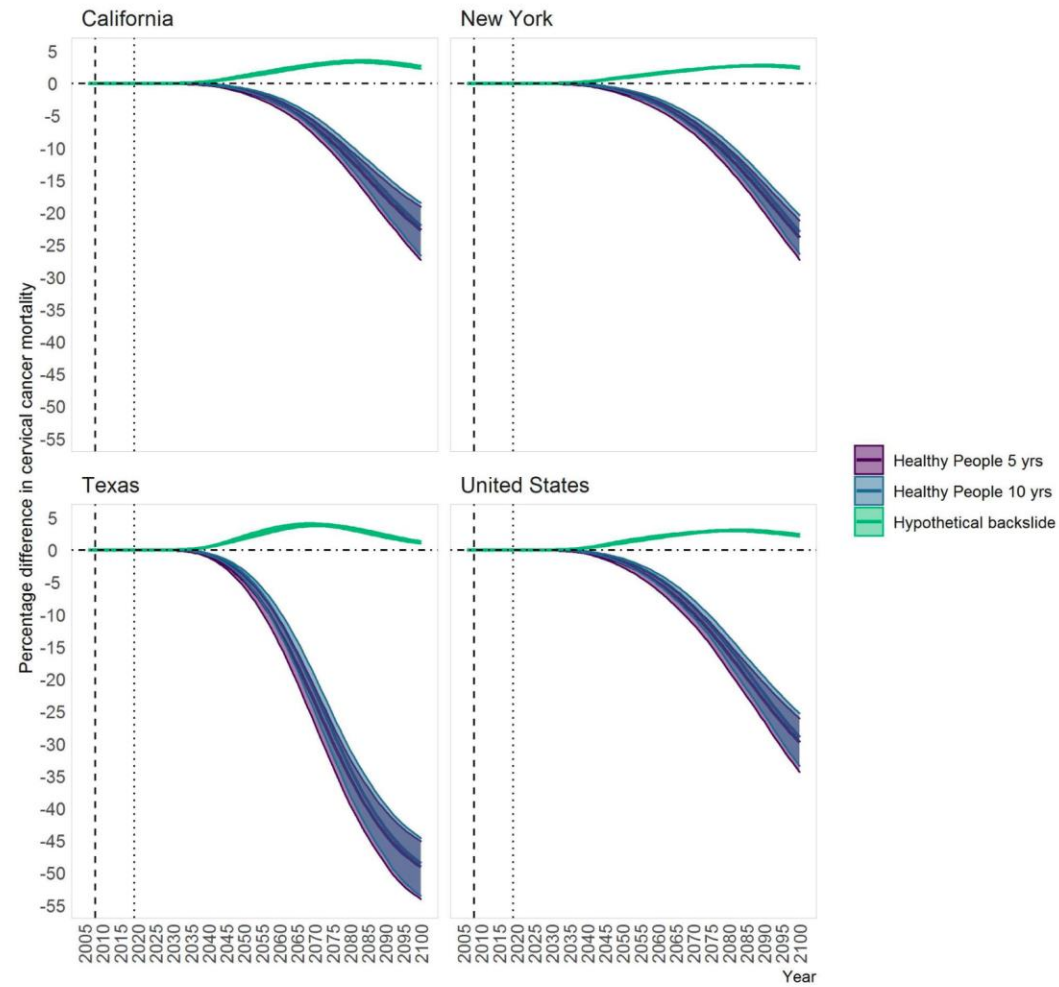


Figure 3. Percentage difference in cervical cancer mortality over time for different human papillomavirus vaccination coverage scenarios (ie, 25% reduction in vaccination coverage for 5 years [backside] or reaching 80% vaccination coverage [Healthy People] in 5 or 10 years) relative to continuing with coverage in 2019 for the United States and 3 states. The shaded area shows the 95% posterior model-predictive credible interval of the outcomes. The solid lines show the posterior model-predicted mean based on 1000 simulations using samples from the posterior distribution.

Conclusion

- Achieving HPV vaccination coverage target of 80% by 2030 will disproportionately benefit states with low coverage and higher cervical cancer incidence
- Geographically focused analyses can better inform priorities

Current Work

All 50 states

Intervention considered: both cervical cancer screening and HPV vaccination

Leading author: Dr. Ran Zhao

Collaborators

CISNET -- Shalini Kulasingam, PhD, Fernando Alarid-Escudero, PhD Madalyn Nones, MPH; Inge M.C.M. de Kok, PhD; Jan A.C. Hontelez, PhD; Daniel D. de Bondt, MSc

ACS: Adair K Minihan, MPH; Priti Bandi, PhD; Debbie Saslow, PhD; Ahmedin Jemal

Disparities in Screening and Vaccination uptake

- HPV vaccination coverage in 2021 (states with the lowest coverage in female adolescents)

State	Female	Male	Region
Mississippi	35.2	32.8	Southeastern
Kentucky	50.0	67.0	Southeastern
Montana	50.9	58.6	Western
Wyoming	51.0	47.7	Western
Florida	53.5	53.4	Southeastern
Nevada	56.9	58.0	Western
Texas	57.1	50.0	Southern
Oklahoma	57.2	60.8	Southern
Arkansas	58.9	58.5	Southeastern
Alabama	60.0	68.5	Southeastern
Alaska	60.9	53.1	Western
Louisiana	63.1	69.3	Southeastern
South Carolina	63.2	67.4	Southeastern
Oregon	63.3	70.6	Western
New Jersey	63.31	51.04	Northeastern

- Cervical cancer screening uptake (states with the highest proportion of never-screeners among age 30-65 years old women)

State	Age 21-29	Age 30-65	Region
Illinois	36.1	35.3	Midwestern
Hawaii	36.4	30.6	Western
Texas	31.2	25.5	Southern
New Jersey	38.6	22.6	Northeastern
New York	38.2	22.1	Northeastern
Mississippi	18.2	22.0	Southeastern
Nevada	25.3	21.8	Western
Idaho	39.0	20.8	Western
Alaska	40.8	20.3	Western
Massachusetts	46.2	19.4	Northeastern
Oklahoma	31.9	19.0	Southern
Florida	31.7	18.8	Southeastern
Missouri	29.5	18.6	Southeastern
Virginia	36.1	18.3	Southeastern
Pennsylvania	29.7	17.6	Northeastern

Simulated Scenarios

1

Status quo

No additional efforts to increase HPV vaccination coverage or screening uptake

2

Increase in vaccination coverage only

80% (or 90%) vaccination in adolescents (both boys and girls) in 2030

3

Increase in screening uptake only

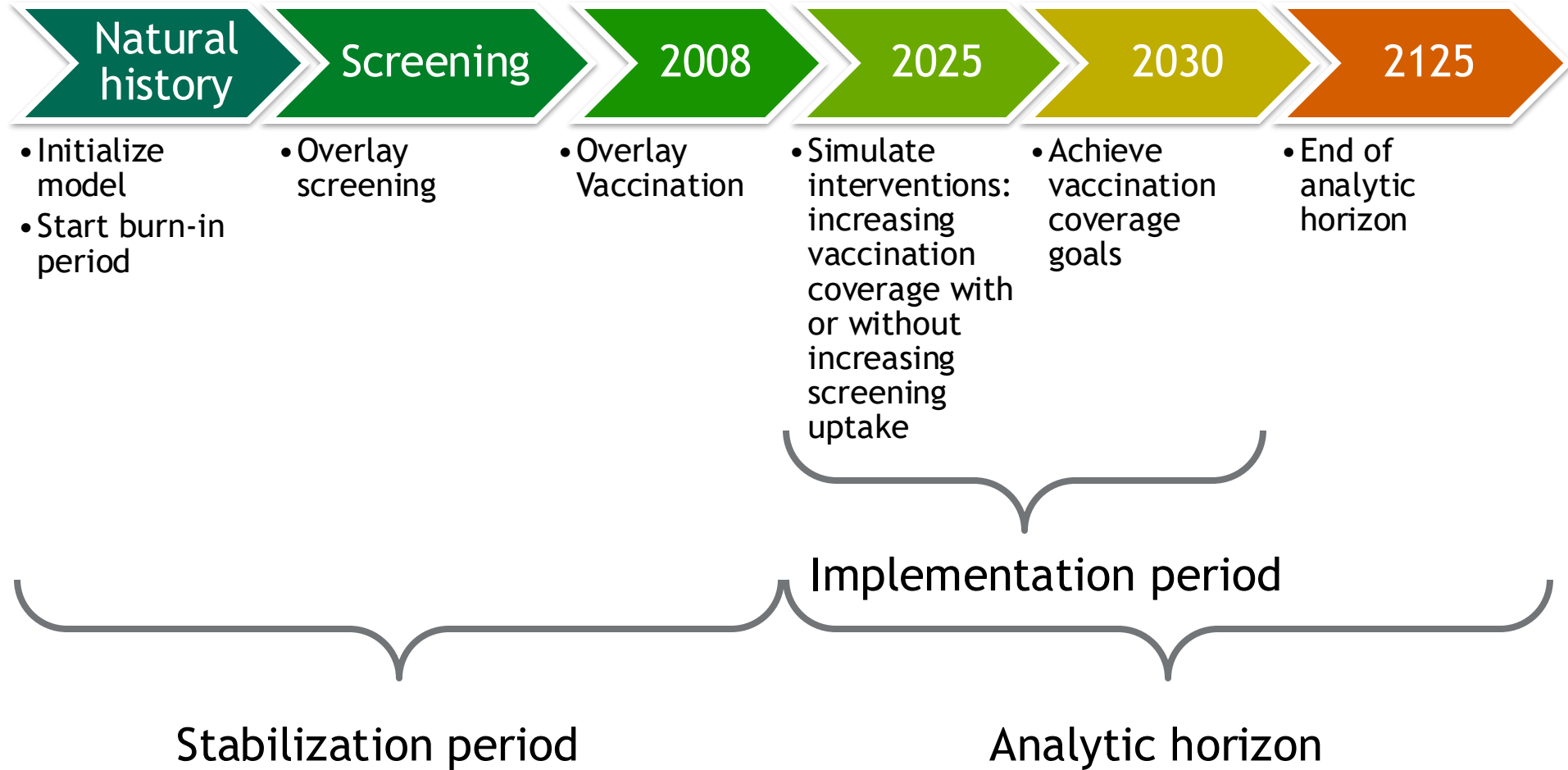
5% of the never-screeners would participate in screening using a self-collected primary HPV test every 5 years

4

Increase in both vaccination coverage and screening uptake

Combine scenarios 2 and 3

Timeline



To be continued....

Presenter:

Dr. Ran Zhao

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William (Sam) Greenfield, MD

SPEAKER

Professor
Obstetrics & Gynecology
University of Arkansas for
Medical Sciences

stjude.org/hpv • #EndHPVCancers



Cervical Cancer in Arkansas: A Public Health Perspective

William Greenfield, MD

Professor

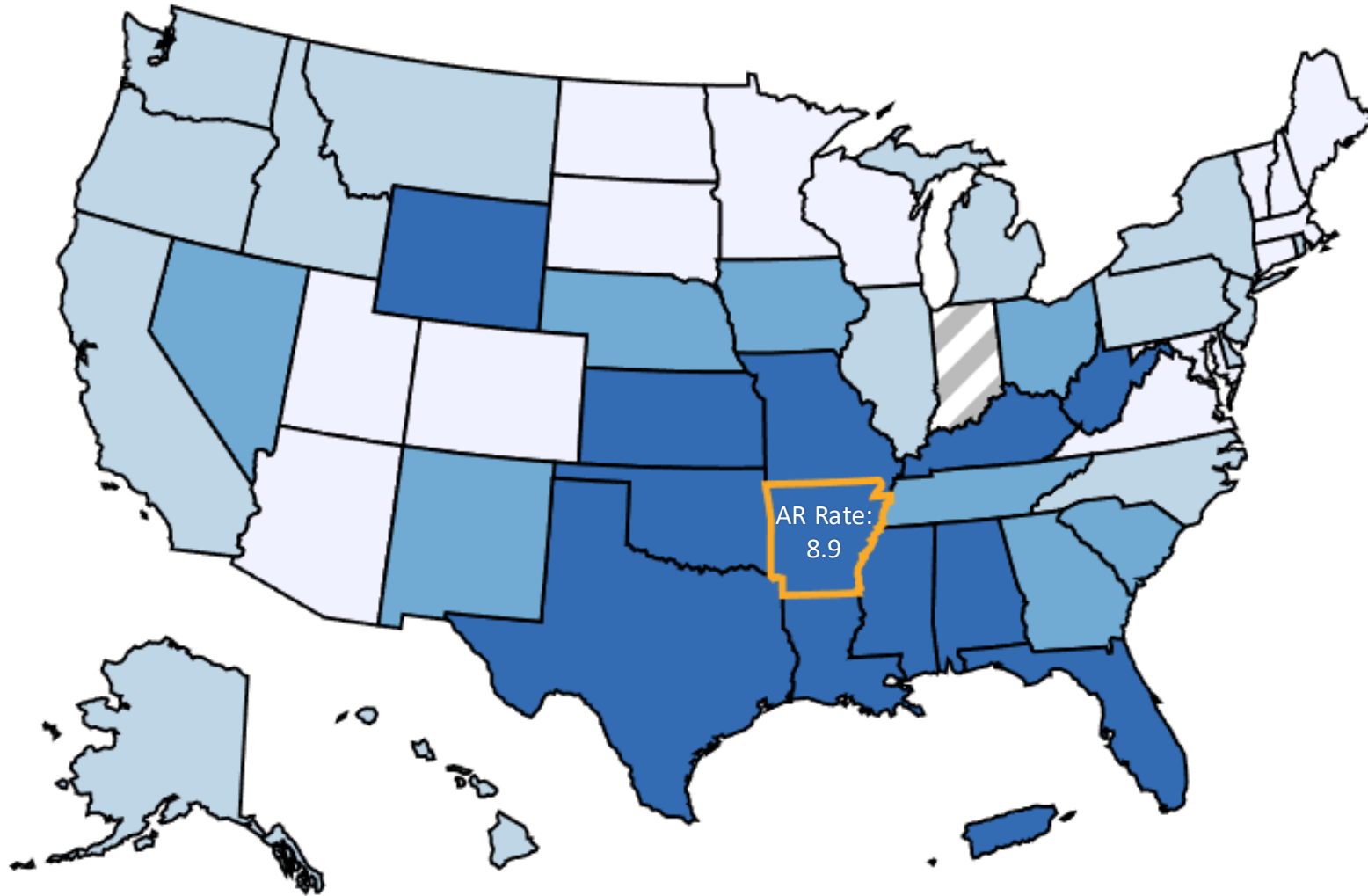
Obstetrics & Gynecology

University of Arkansas for Medical Sciences

March 5, 2025



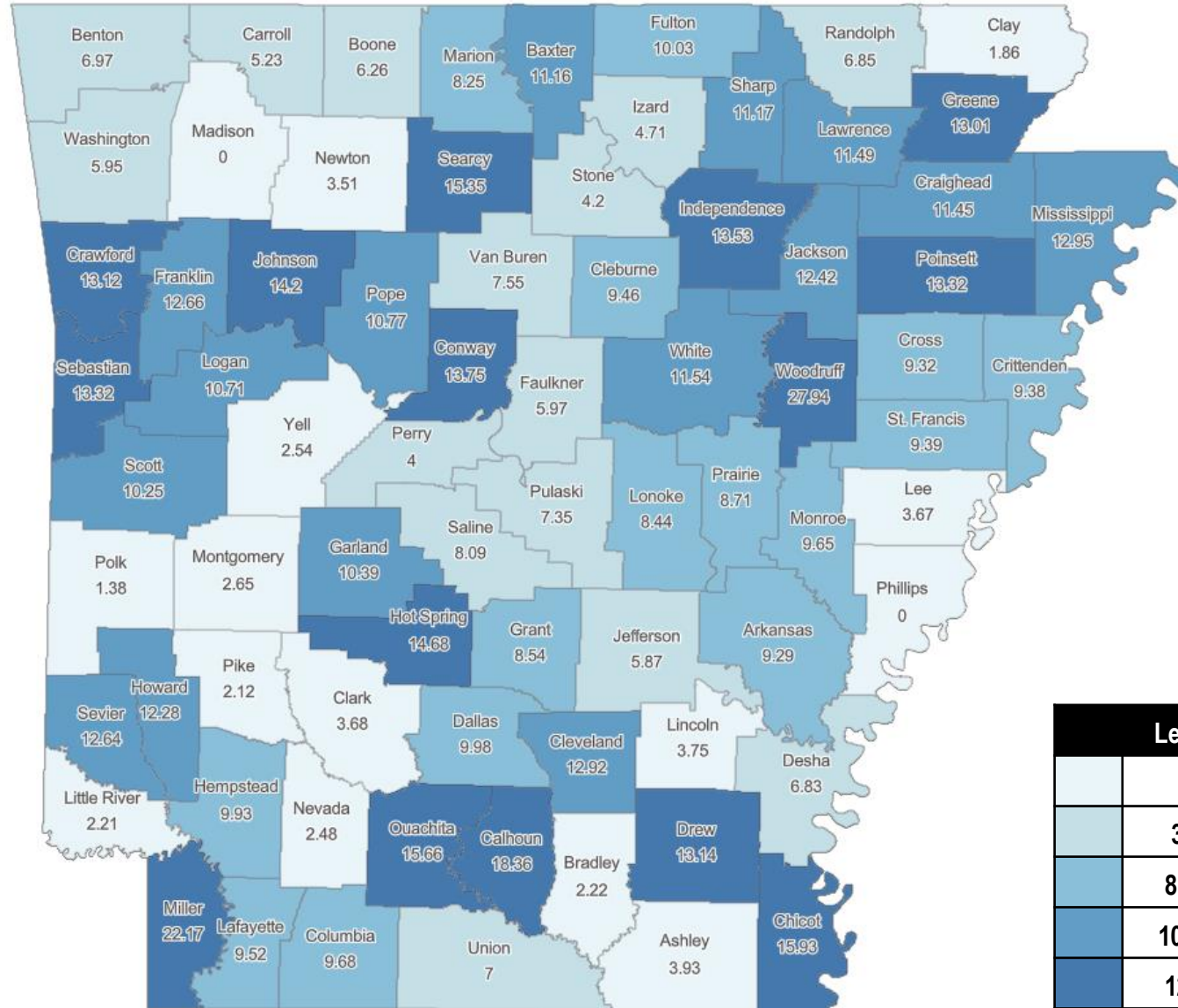
Map of HPV-associated cervical cancer incidence rate among females, US, 2017 – 2021



US Rate:
7.1

Legend	
Light blue	4.6 – 6.1
Medium-light blue	6.2 – 6.9
Medium blue	7.1 – 7.8
Dark blue	7.9 – 11.0
Hatched pattern	Data unavailable

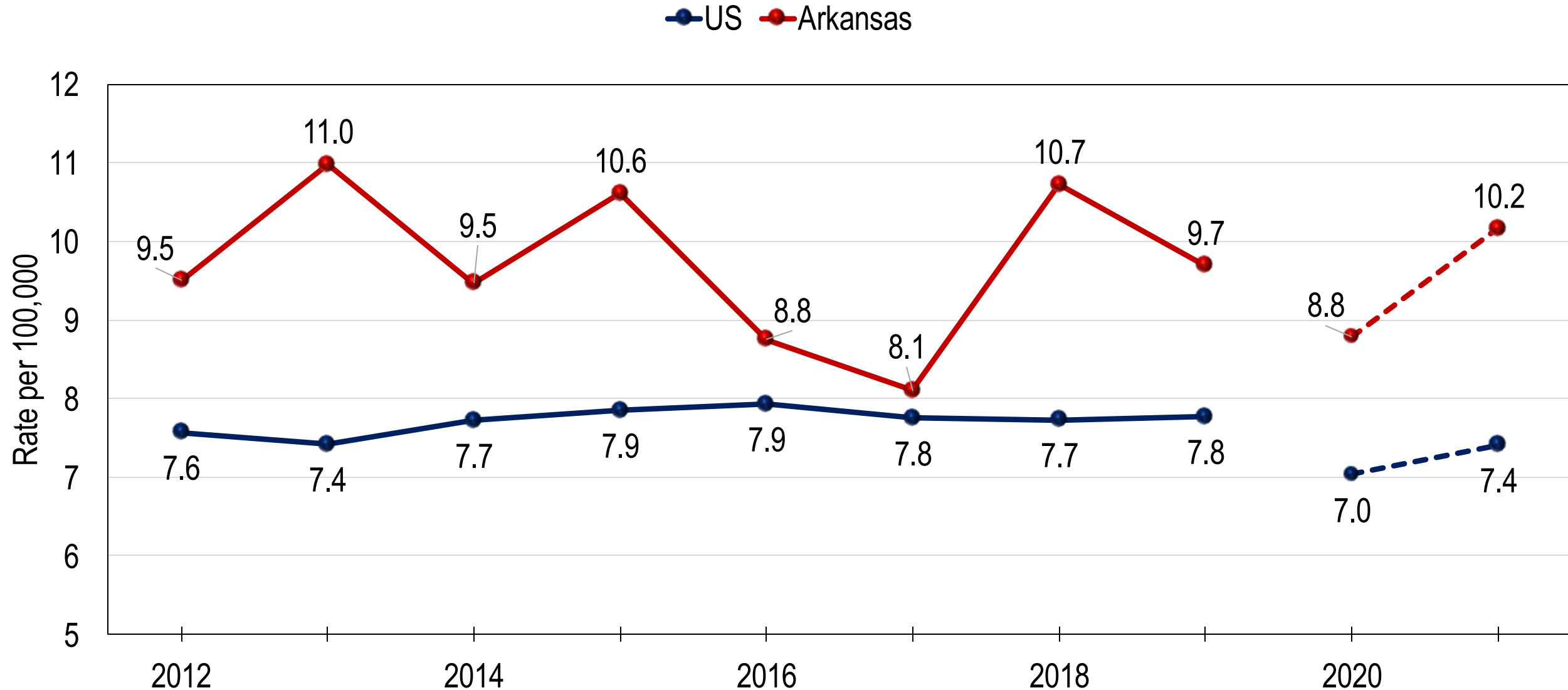
Map of HPV-Associated Cervical Cancer Age-Adjusted Incidence Rate by County, Arkansas, 2017-2021



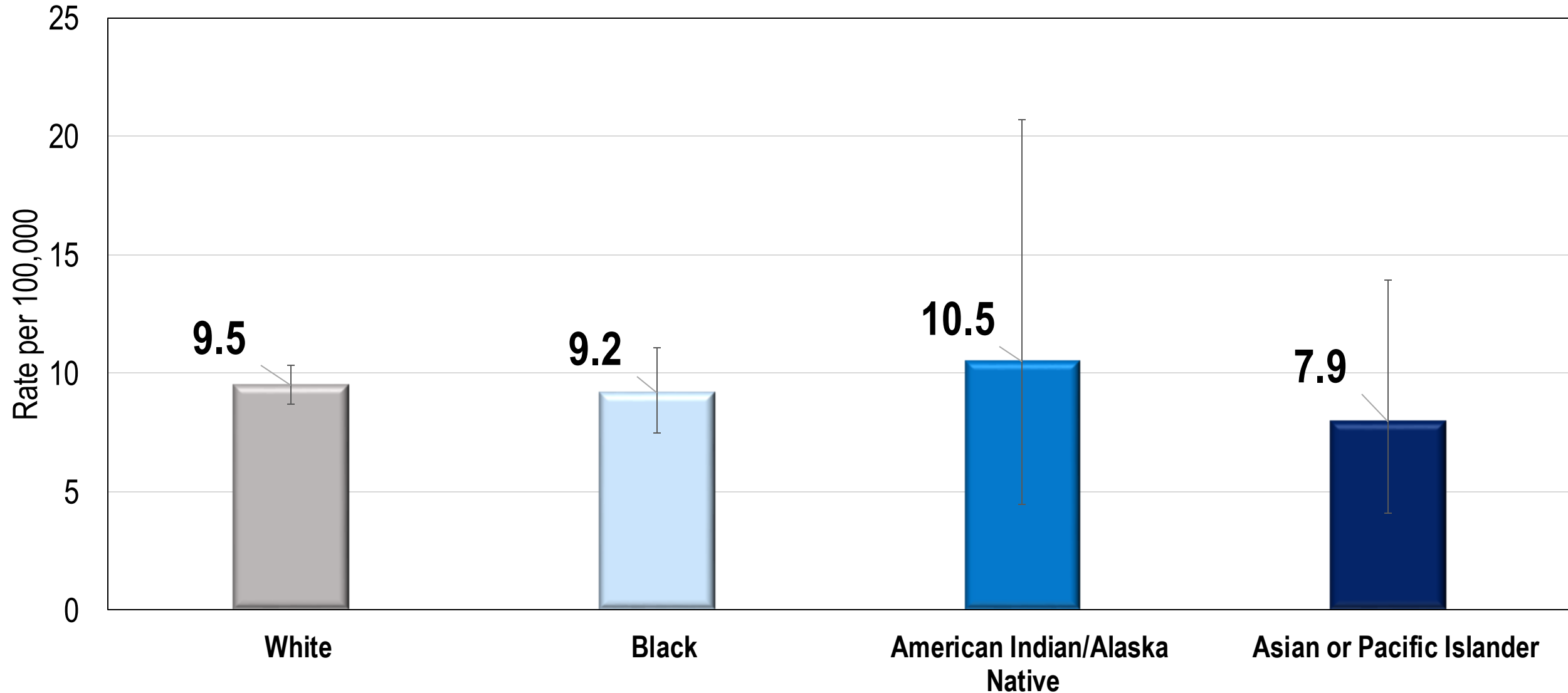
**State Rate:
8.96**

Legend	
Lightest Blue	0 – 3.90
Light Blue	3.91 – 8.08
Medium Blue	8.09 – 10.00
Dark Blue	10.01 – 12.90
Darkest Blue	12.91 – 27.9

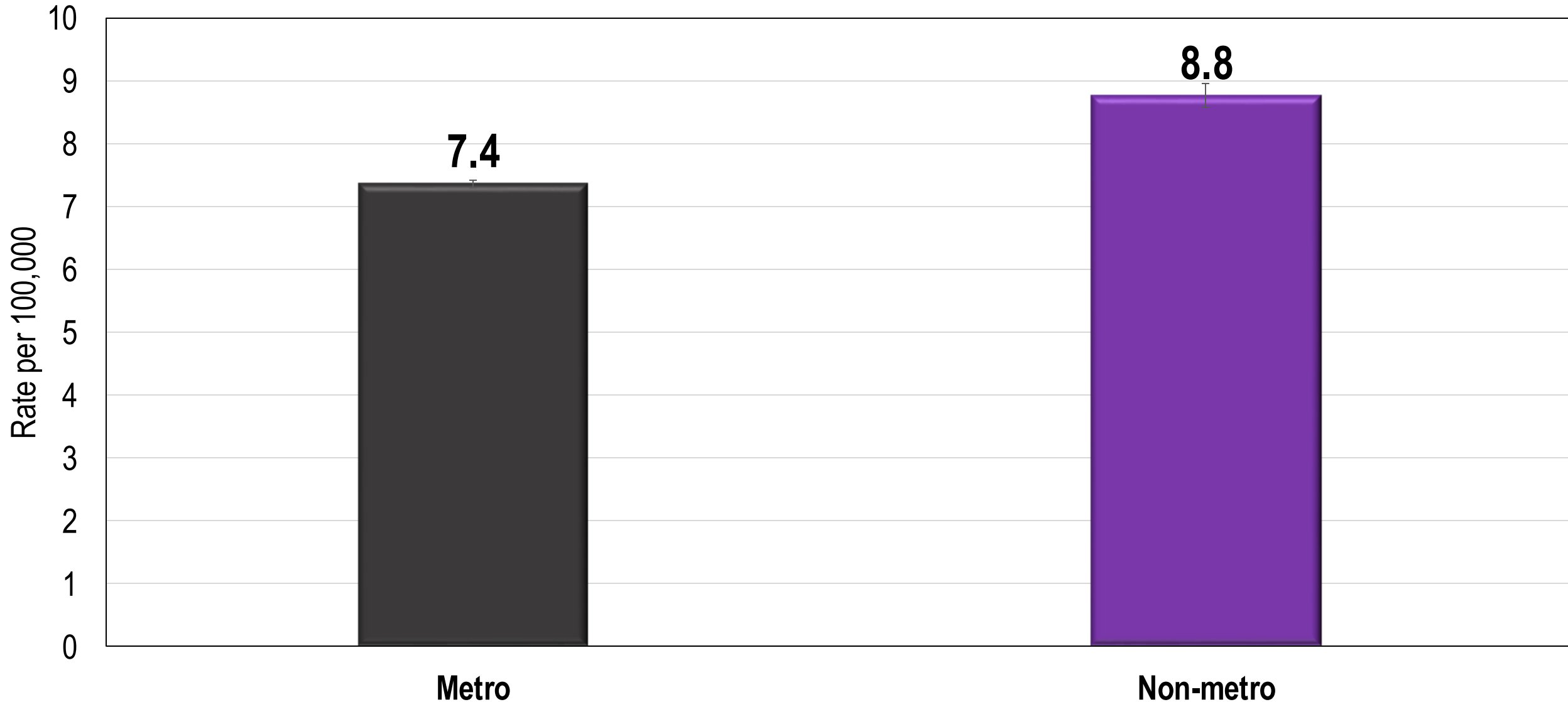
Cervical Cancer Age-Adjusted Incidence Trend Rate, US and Arkansas, 2001 – 2021



Cervical Cancer Age-Adjusted Incidence Rate by Race, Arkansas, 2017 – 2021



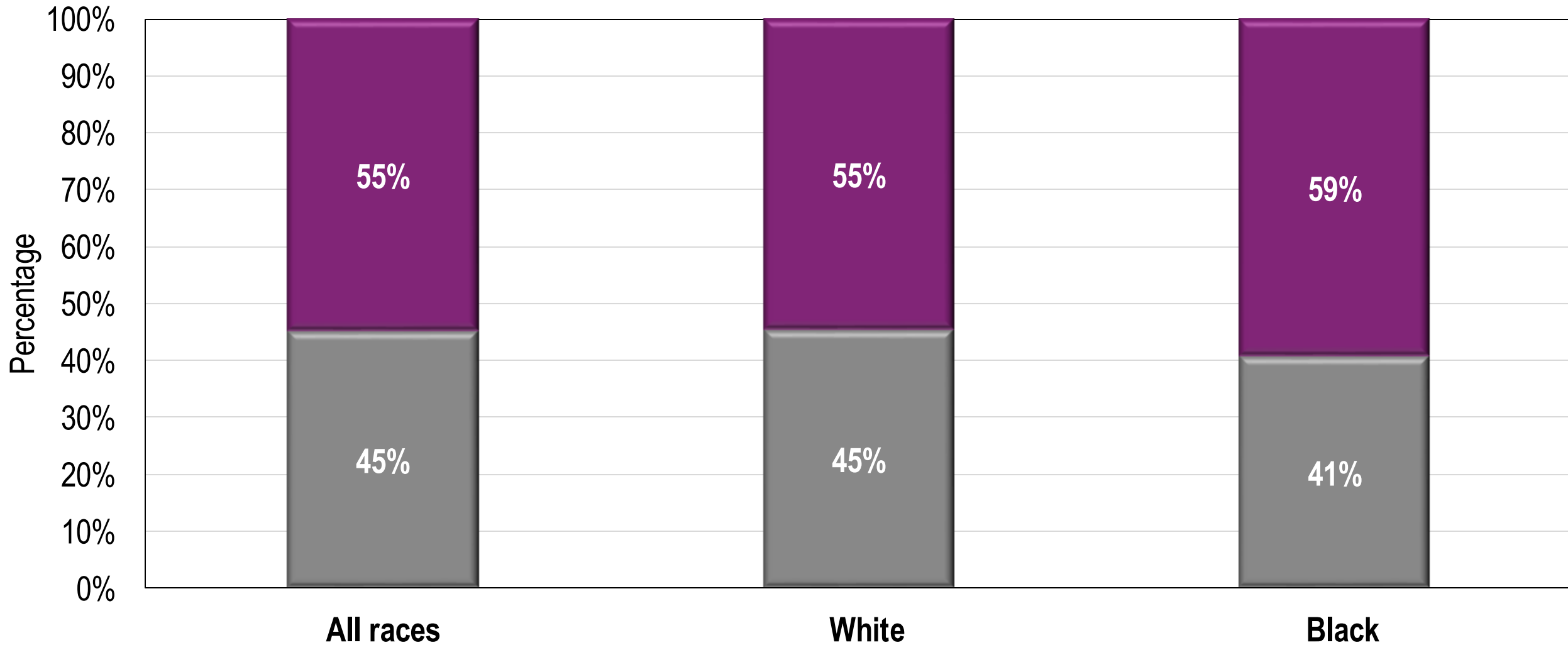
Cervical Cancer Age-Adjusted Incidence Rate by Rural Urban Continuum Codes, Arkansas, 2017 – 2021



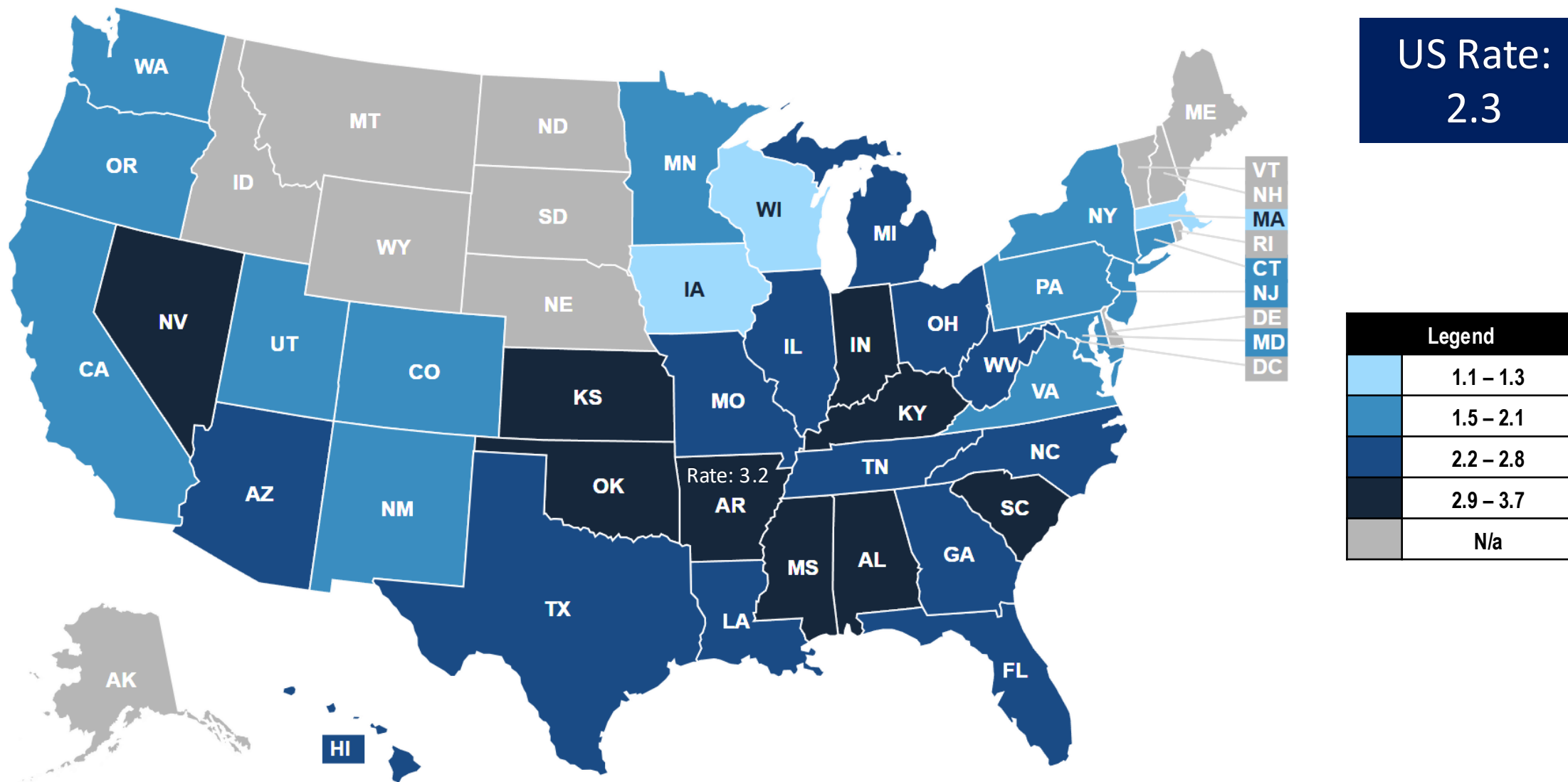
Percentage of Cervical Cancer by Stage and Race, Arkansas, 2017 – 2021



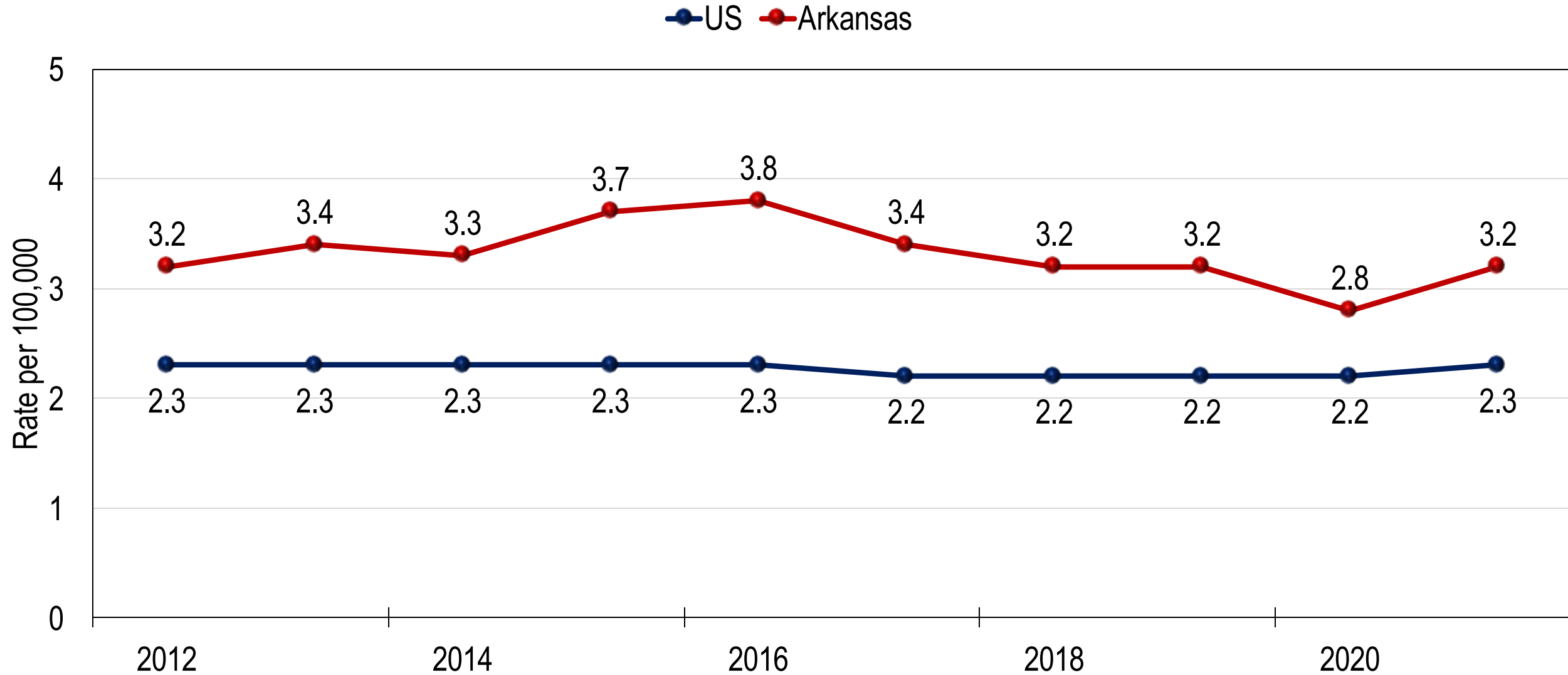
■ Early stage ■ Late stage



Map Overview of Cervical Cancer Mortality Rate Among Females, US, 2021



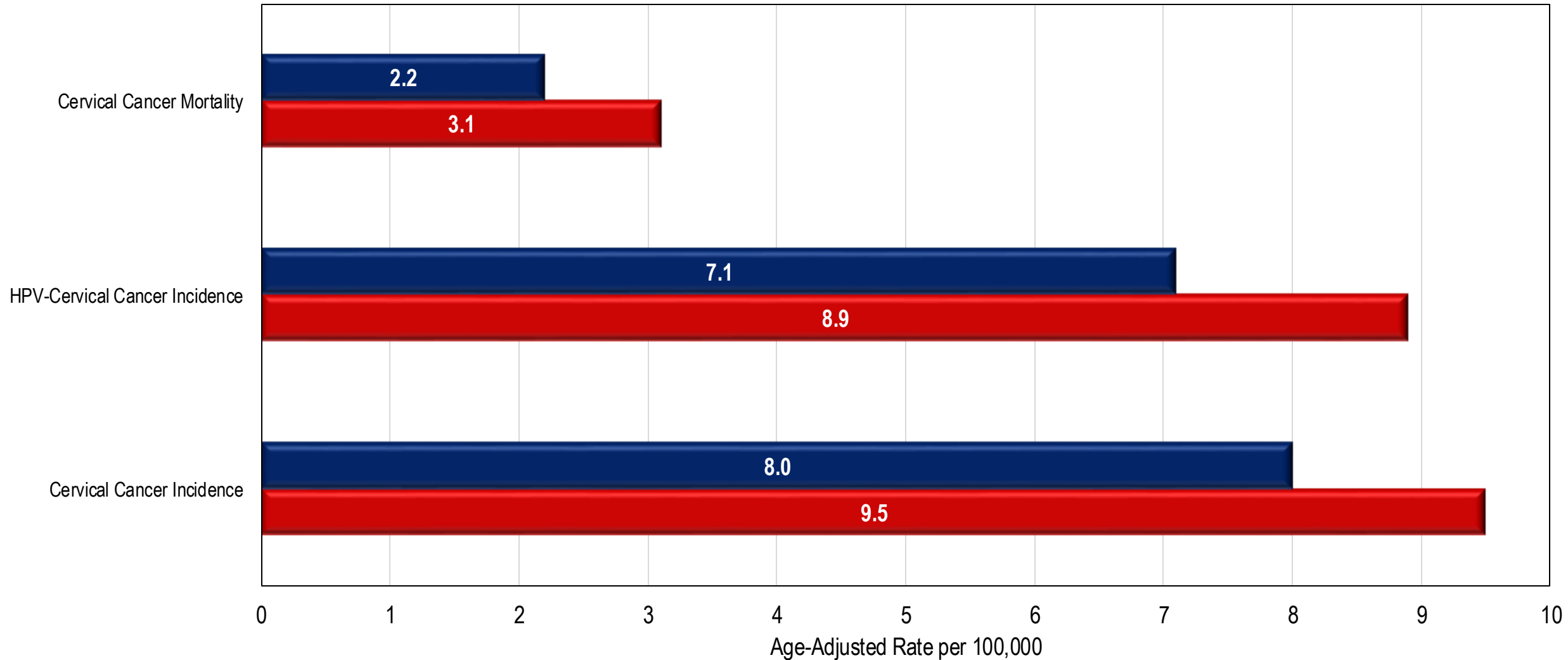
Cervical Cancer Age-Adjusted Mortality Trend Rate, US and Arkansas, 2012 – 2021



Comparison overview of incidence and mortality, US and Arkansas, 2017-2021



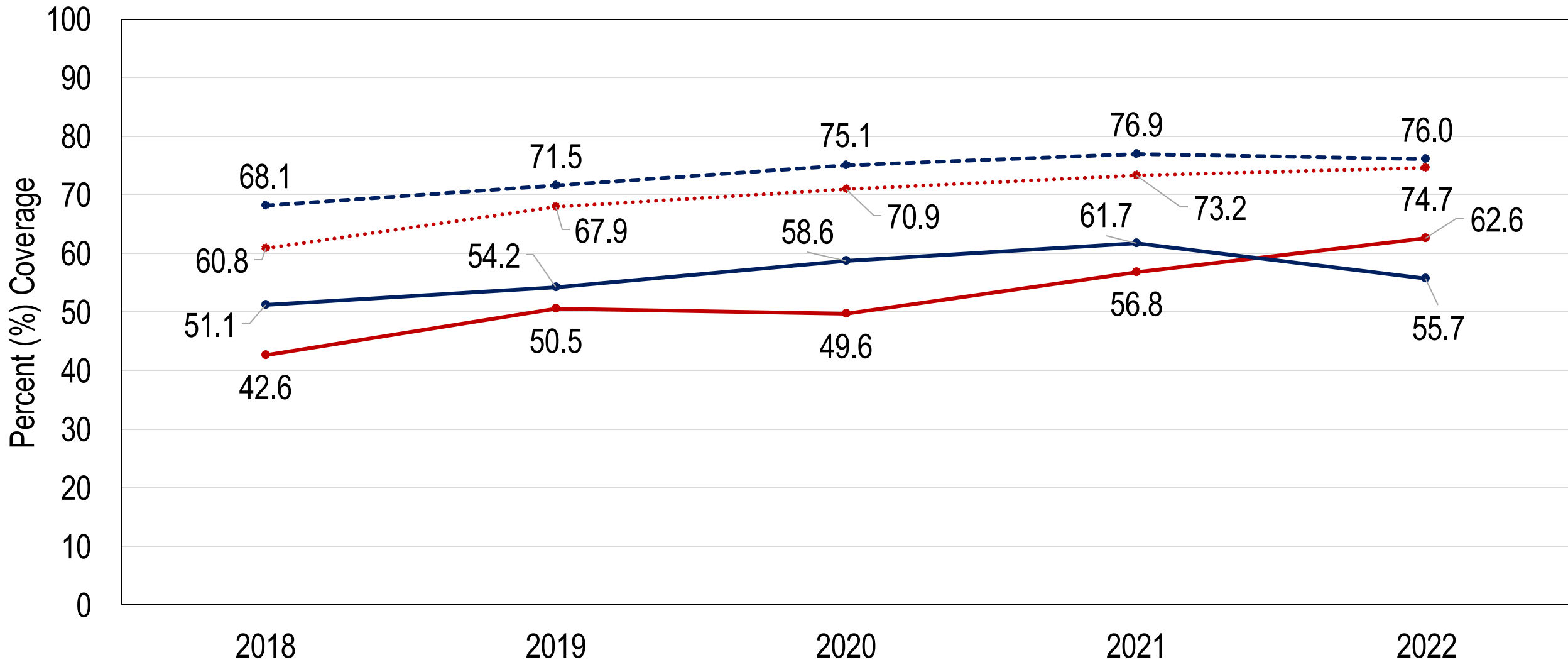
■ US ■ Arkansas



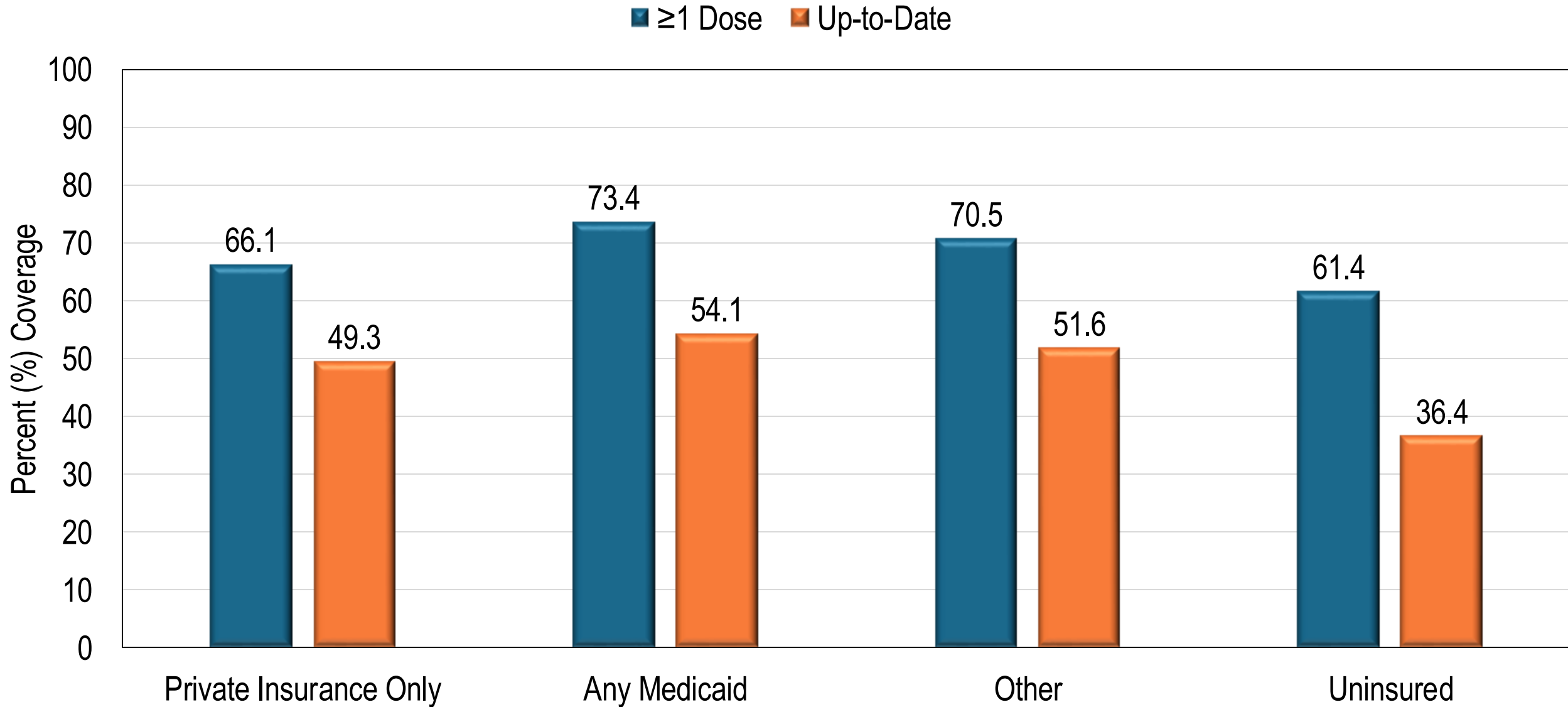
Estimated coverage percent of HPV vaccination among males and females (ages 13-17) by dose and year, US and Arkansas, 2018-2022



—●— Arkansas, UTD
 —●— US, UTD
 -.-●-.- Arkansas, ≥1 Dose
 -.-●-.- US, ≥1 Dose



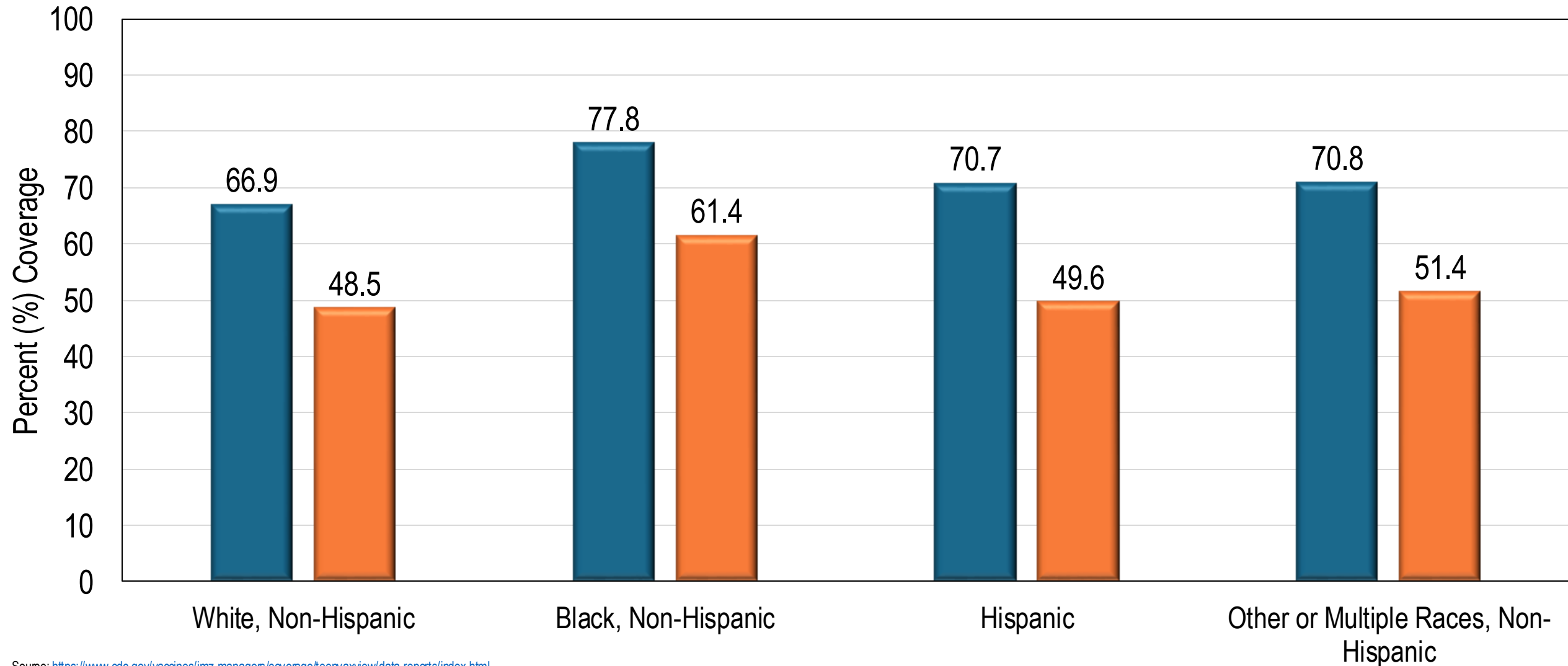
Estimated coverage percent of HPV vaccination among males and females (ages 13-17) by dose and insurance coverage, Arkansas, 2018-2022



Estimated coverage percent of HPV vaccination among males and females (ages 13-17) by dose, race, and ethnicity, Arkansas, 2018-2022



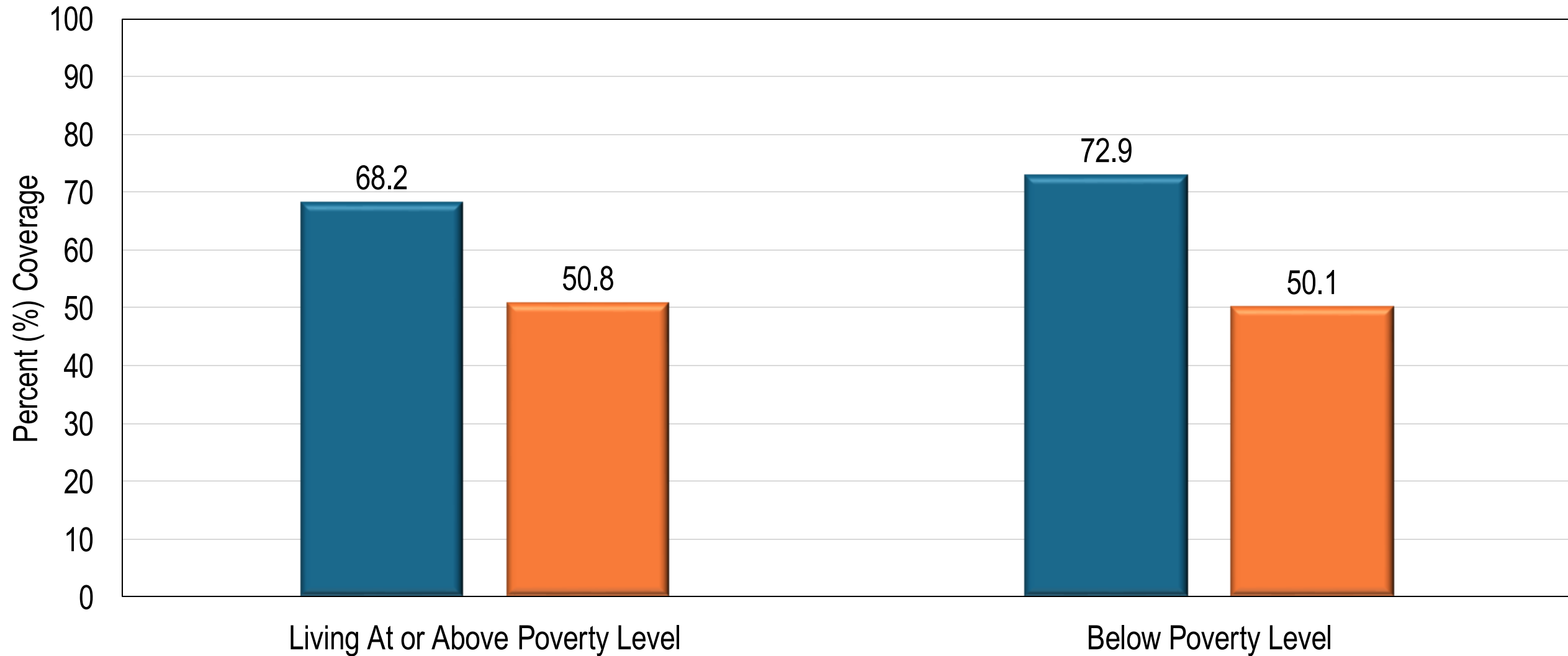
■ ≥ 1 Dose ■ Up-to-Date



Estimated coverage percent of HPV vaccination among males and females (ages 13-17) by dose and poverty level, Arkansas, 2018-2022



■ ≥ 1 Dose ■ Up-to-Date



To increase the rate of early detection of breast and cervical cancer and reduce the morbidity and mortality rates of breast and cervical cancer among women in Arkansas by lowering barriers to screening that result from lack of information, financial means, or access to quality services.



Eligibility Requirements



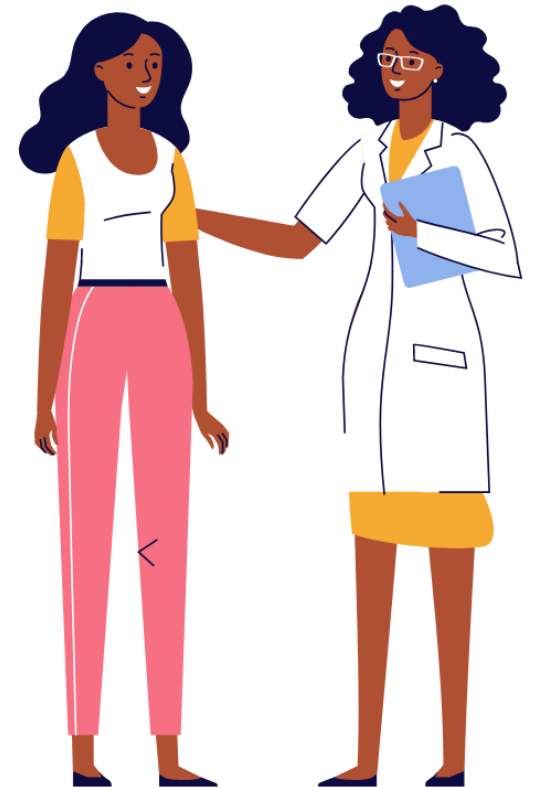
- Arkansas resident
- 21-64 years old for cervical cancer services
- 40-64 years old for breast services
- Under 40 years old with breast symptoms
- Household income at or below 250% of the federal poverty level (FPL)
- Uninsured
- Underinsured requiring diagnostic testing AND meets the criteria for financial barrier



Available Services



- Clinical Breast Exam (CBE)
- Mammogram
- Breast MRI
- Diagnostic Testing
- Treatment services (Based on certain criteria, referral needed to Regional Care Coordinator)
- Pelvic Exam
- Pap Testing
- Human Papillomavirus (HPV) Testing
- Patient Navigation



Tele Colposcopy



UAMS Expands Access to Cervical Cancer Testing in Arkansas

By David Robinson



Chuck Hitt, M.D., (left) and Gordon Low, an advanced practice nurse, are leading a telecolposcopy program to help rural Arkansas women.

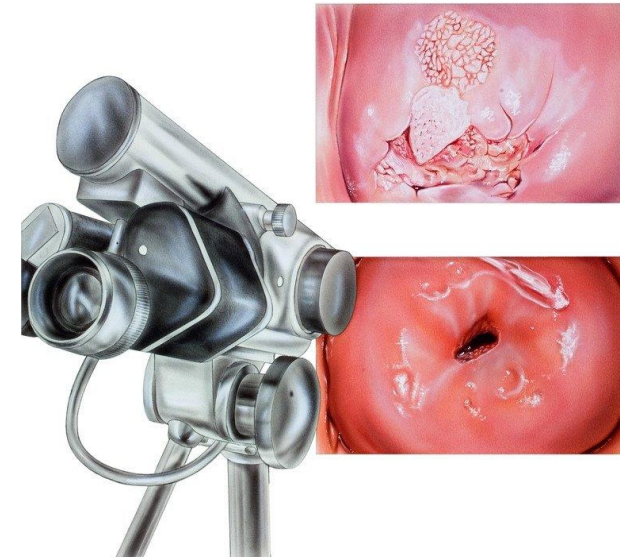
Application of a Telecolposcopy Program in Rural Settings

Wilbur C. Hitt, MD, FACOG¹; Gordon M. Low, MSN, APN¹; Christian E. Lynch, MPH¹; C. Heath Gauss, MS²; Everett F. Magann, MD¹; Curtis L. Lowery, MD¹; and Hari Eswaran, PhD¹

Departments of ¹Obstetrics and Gynecology and ²Biostatistics, University of Arkansas for Medical Sciences, Little Rock, Arkansas.

Introduction

Increasingly across the United States, where an individual lives can often determine their level of access to healthcare. Currently, 49% of the 3,107 counties in the United States, in which 9.5 million Americans reside, do not have a single obstetrician/gynecologist.¹ This is especially true in rural states, where access to specialty care is limited due to the





Moderated Discussion



Eve McDavid
CEO and Founder, Mission-
Driven Tech



Trisha Amboree, PhD
Assistant Professor,
Department of Public Health
Sciences, Medical University
of South Carolina



Ran Zhao, PhD
Researcher, University of
Minnesota School of Public
Health



William (Sam) Greenfield, MD
Professor, Obstetrics &
Gynecology, University of
Arkansas for Medical Sciences

Closing Remarks



Seminar Evaluation, March 5

Thank you for joining us! Please take a brief moment to complete an evaluation of today's seminar. Your feedback is important to us and will be used to plan future offerings.



Upcoming HPV Awareness Day Seminars

Register at
stjude.org/HAD2025



2025 SEMINAR SERIES

HPV Awareness Day

March 3 - 7, 2025

All seminars will be held from
Noon - 1:15 p.m. Central Time

Virtual | Webex

The St. Jude HPV Cancer Prevention Program is hosting a series of five virtual seminars in recognition of HPV Awareness Day on March 4.

HPV Awareness Day is a global movement dedicated to raising awareness about HPV cancers. This webinar series offers an opportunity to learn more about increasing HPV vaccination rates for all children through education, promotion of best practice models, and strategic partner engagement.



Monday
March 3 **Vaccines in the U.S.:
A Journey Through History**

Tuesday
March 4 **Promoting HPV Vaccination
Policy to Prevent HPV Cancers**

Wednesday
March 5 **Realizing a Regional Plan
to Eliminate HPV Cancers,
Starting with Cervical Cancer,
as a Public Health Concern in
the Southeast**

Thursday
March 6 **Closing the HPV Vaccination
Gap and Preventing HPV
Cancers from Boys to Men**

Friday
March 7 **Harvesting Best Practices
to Prevent Rural HPV Cancers**

REGISTER NOW

Register for one seminar or the entire series. Seminars will be recorded for those who are unable to join live.



Scan to register

If you have questions, please email PreventHPV@stjude.org,
stjude.org/HAD2025



2025 HPV AWARENESS DAY SEMINAR SERIES

Closing the HPV Vaccination Gap and Preventing HPV Cancers from Boys to Men

March 6, 2025
12:00 - 1:15 PM CST

Virtual | Webex

This virtual seminar will discuss strategies to continue to narrow the HPV vaccination gap between boys and girls to reinforce efforts to prevent growing rates of HPV cancers in men.

Seminar Moderator



David Winterflood
Director
NOMAN is an Island: Race to End HPV

Seminar Speakers



Carlton Allen, MS
Program Manager for Prevention
Cancer Prevention & Research Institute of Texas



Ashish Deshmukh, PhD
Professor
Public Health Sciences
SmartState Distinguished Endowed Chair in Cancer Equity
Co-leader, Cancer Prevention and Control Program,
Hollings Cancer Center



Jason Mendelsohn
Oral Cancer Survivor



Staci Sudenga, PhD
Assistant Professor of Medicine
Vanderbilt University Medical Center

REGISTER NOW

Register for one seminar or the entire series. Seminars will be recorded for those who are unable to join live.



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If you have questions, please email PreventHPV@stjude.org,
stjude.org/HAD2025

ENOUGH Book Club

Science Alone Can't Do It: Stories & the Fight Against Cervical Cancer



Science Alone Can't Do It: *Stories & the Fight Against Cervical Cancer*

Join Chief Visionary of Cervivor, Inc. Tamika Felder for an inspiring discussion with Dr. Linda Eckert, author of *Enough: Because We Can Stop Cervical Cancer*.

Explore powerful survivor stories, the urgent role of HPV vaccination in preventing HPV cancers, and the barriers—political, economic, and gender-based—that have allowed this preventable disease to persist.

Wednesday, April 30
Noon - 1:15 PM

Join Us Virtually **RSVP Today!**

Spots are limited! Register before March 31 to receive a copy of "Enough"

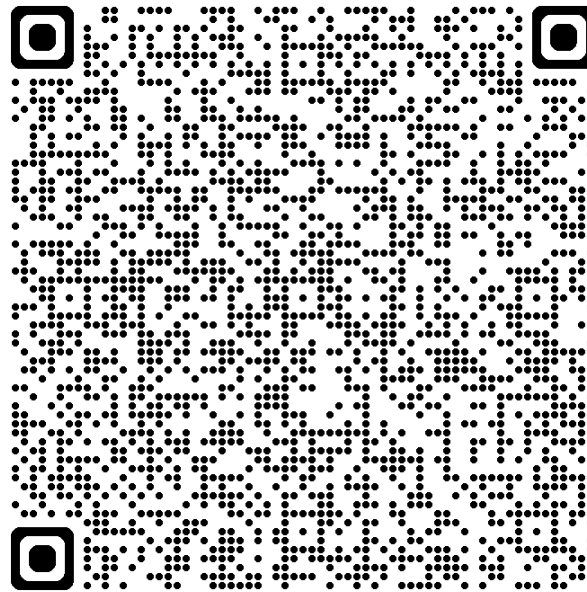
Dr. Linda Eckert
Professor of OB/GYN and
Department of Global Health
at the University of Washington

Be part of the movement
to eliminate cervical
cancer. Together, we
can say "enough."

Tamika Felder
Chief Visionary
of Cervivor, Inc.



Wednesday, April 30
Noon - 1:15 PM Central Time



Be part of the
movement to
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Spots are limited. RSVP
today!

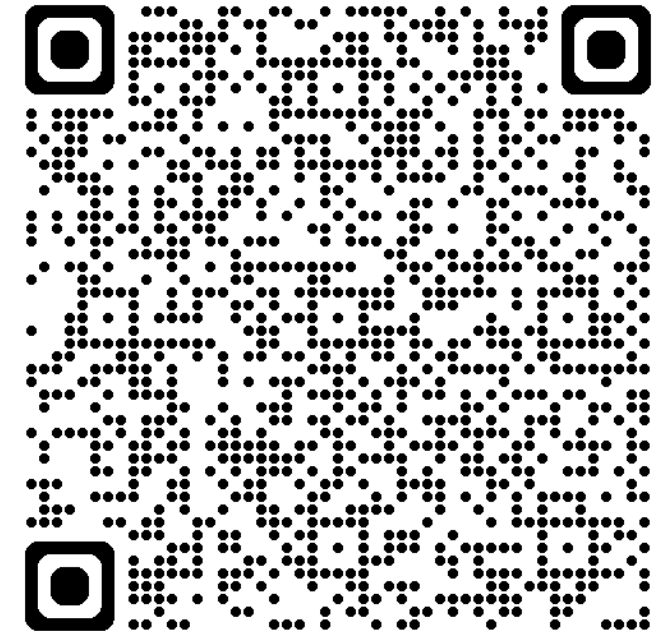
Join the HPV Vaccination Roundtable of the Southeast

With participation from organizations and leaders throughout the Southeast, we will support each other's efforts to improve HPV vaccination coverage and prevent HPV cancers. Join the Southeast Roundtable by completing a brief membership form.



Check out the Southeast Roundtable resources at stjude.org/southeast-roundtable.

One Less Worry Campaign 2025



Mobile Colposcopy: *Bringing Change to a State Colposcopy Program*

MOBILE COLPOSCOPY

Bringing Change to a State Colposcopy Program

Thursday, March 20 | 1 p.m. EST

Webinar Objectives:

- Recognize healthcare barriers in the U.S.
- Provide an overview of Alabama's mobile colposcopy program and its role in cervical cancer detection and prevention.
- Explore the program's journey, including Nurse Practitioner Senior training and NP/PA credentialing.
- Highlight the current success and promising results of the mobile colposcopy initiative.
- Discuss future directions for the program and strategies to "Wipe Out Cervical Cancer."
- Explore the expansion of mobile colposcopy to other states.

Presentation by:

Gary Pugh, D.O., F.A.C.O.G.
Medical Officer - Family Health Service
Alabama Department of Public Health



**Thank you for joining
us today!**

Email PreventHPV@stjude.org with any questions!

stjude.org/hpv · stjude.org/southeast-roundtable · [#EndHPVcancers](https://twitter.com/EndHPVcancers)

