



**HPV Cancer  
Prevention  
Program**

**2025 HPV AWARENESS DAY SEMINAR SERIES**

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

**March 6, 2025**

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



# Organizer



**Madeline McNee, 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.
- During the moderated discussion, please use the Q&A feature to pose questions to panelists.
- If you have any issues during today's meeting, please use the chat or email [PreventHPV@stjude.org](mailto:PreventHPV@stjude.org).

# Learning Objectives

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

- Review and discuss HPV cancers affecting men, and the importance of HPV vaccination as a method of prevention.
- Discuss ongoing efforts to encourage men to get vaccinated against HPV.
- Discuss relevant programs and research related to HPV vaccination and HPV cancers among men.

# David Winterflood

MODERATOR

Director

NOMAN is an Island: Race to  
End HPV

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# Presenters



**Jason Mendelsohn**  
*Oral Cancer Survivor*  
*Founder, SupermanHPV*



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



**Ashish Deshmukh, PhD**  
*Professor, Public Health*  
*Sciences, Hollings Cancer*  
*Center*



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

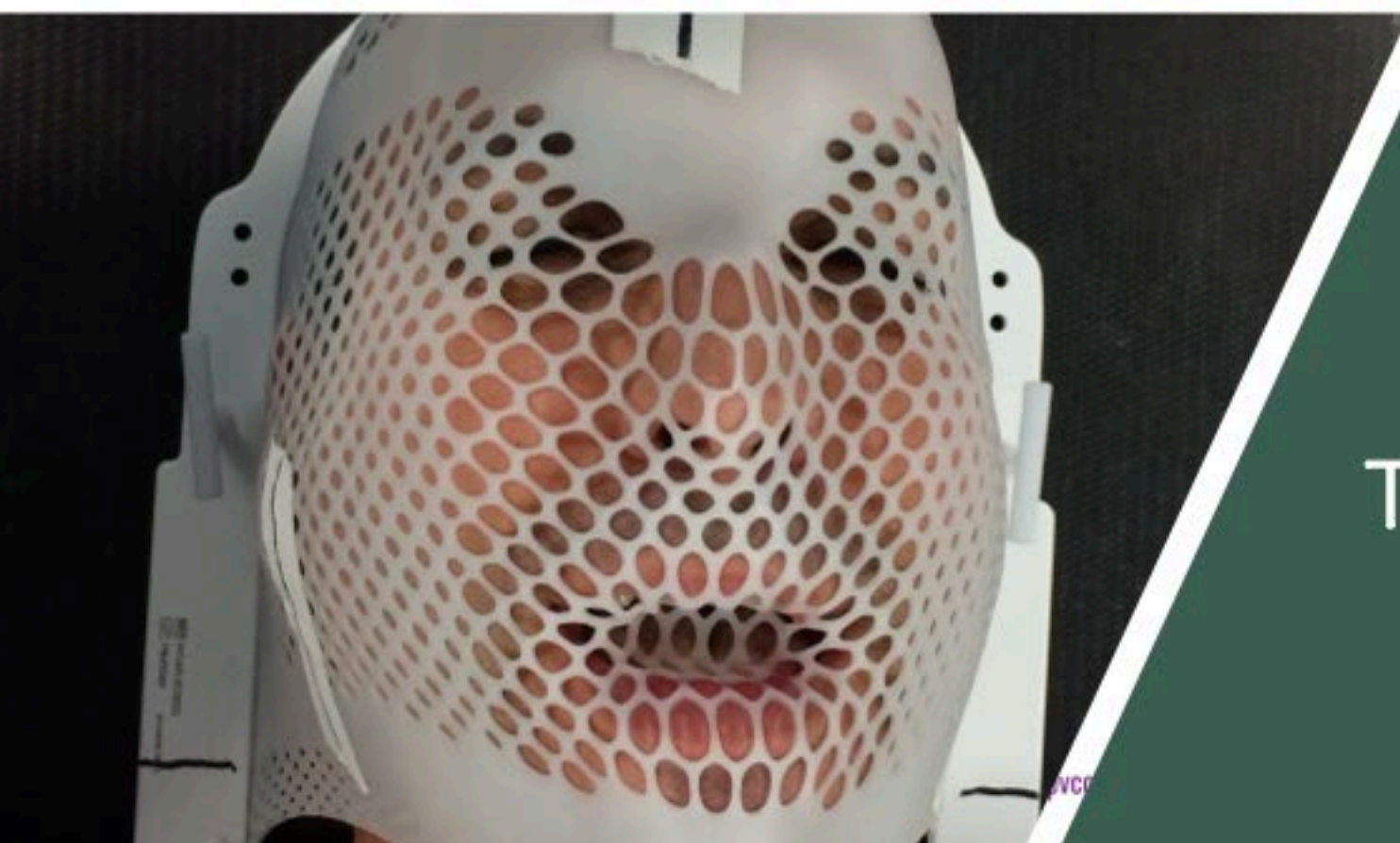
# Jason Mendelsohn

**SPEAKER**

Founder, SupermanHPV  
Oral Cancer Survivor







The Hell of  
Treatment & Helping  
Others Survive It

# Staci Sudenga, PhD

**SPEAKER**

Assistant Professor of Medicine  
Vanderbilt University Medical  
Center

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

**Staci L. Sudenga, Ph.D., M.P.H.**

**Assistant Professor of Medicine**

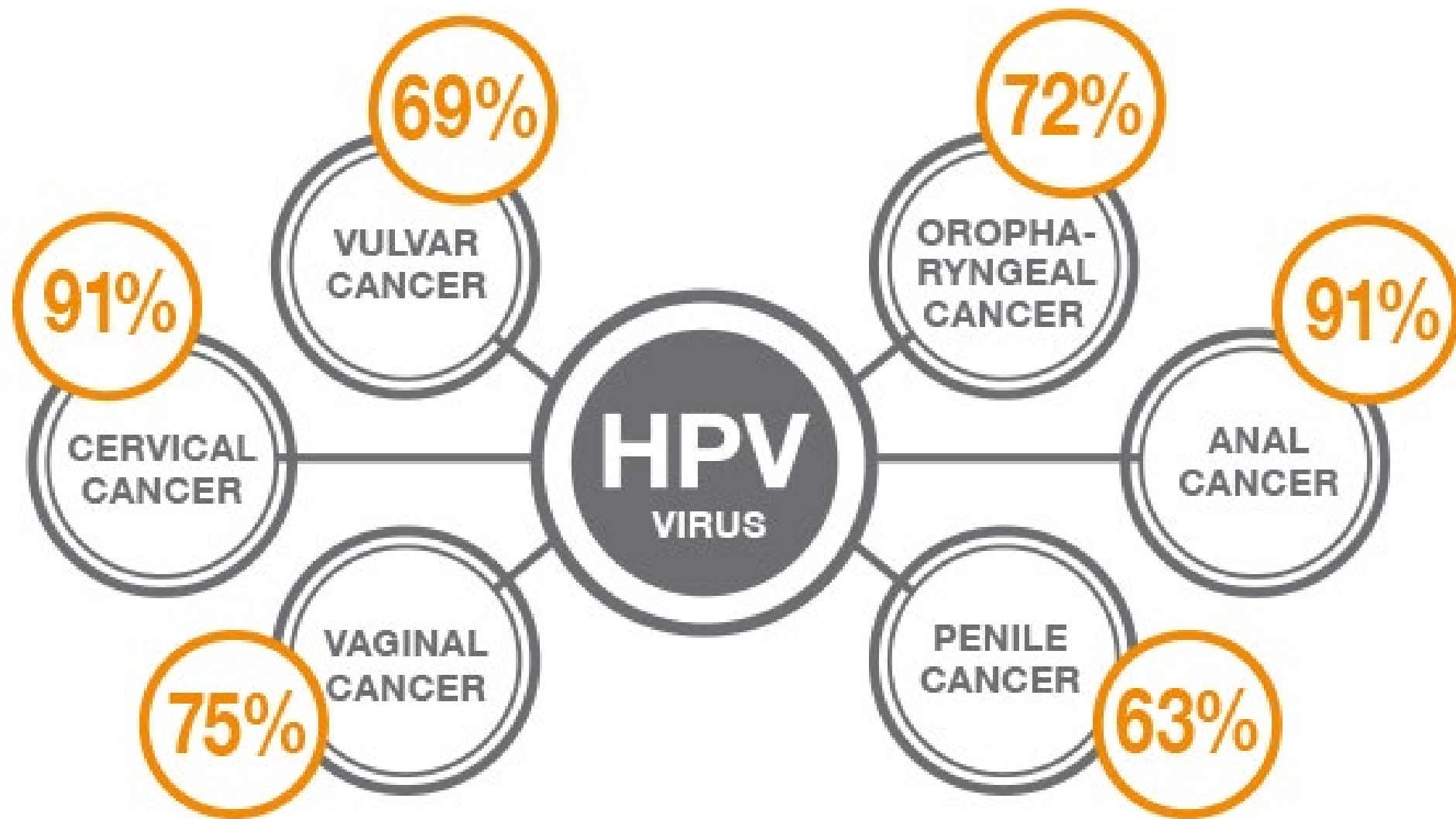
**Division of Epidemiology**

VANDERBILT  UNIVERSITY

MEDICAL CENTER

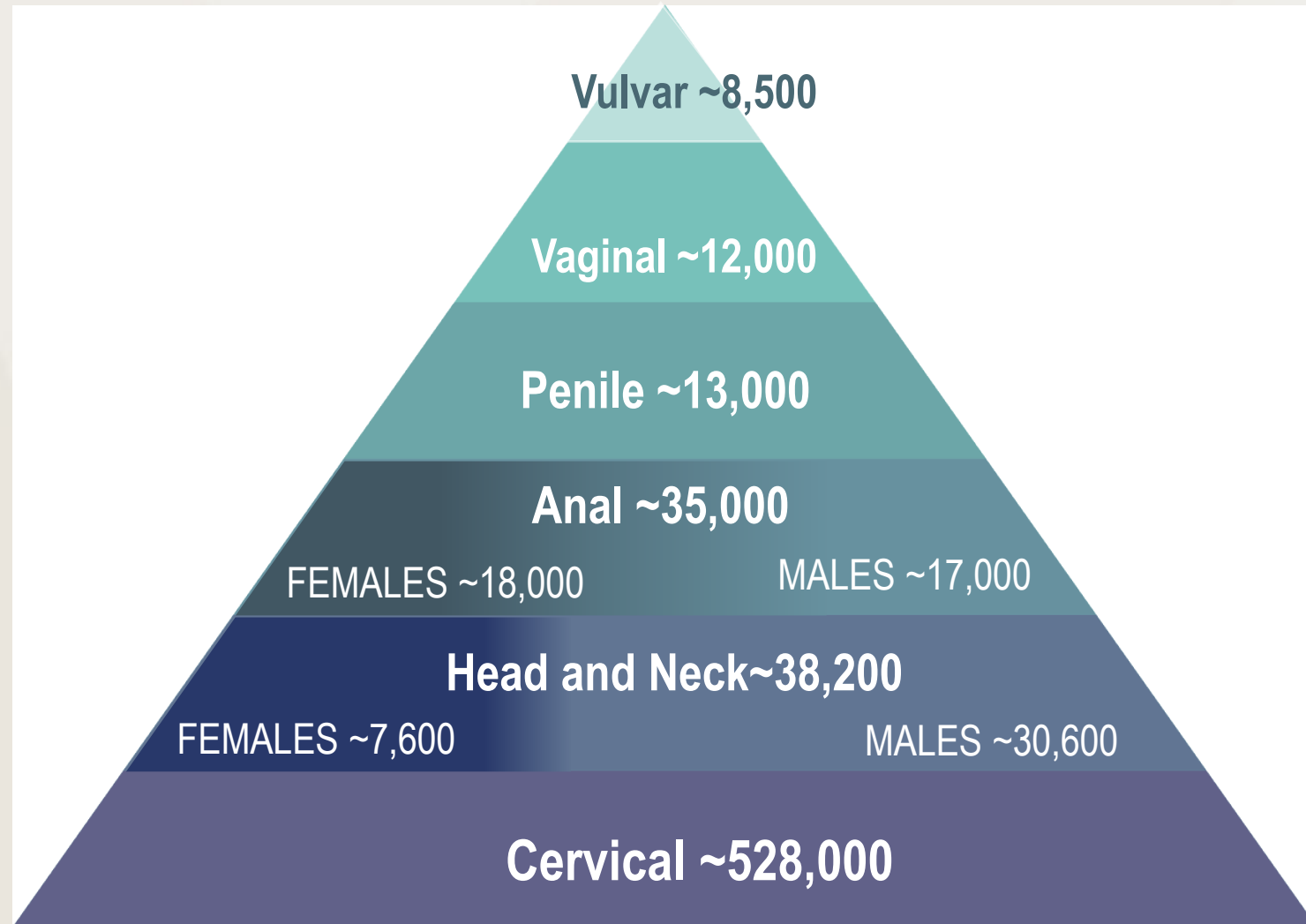


# HPV CAUSES SIX TYPES OF CANCER



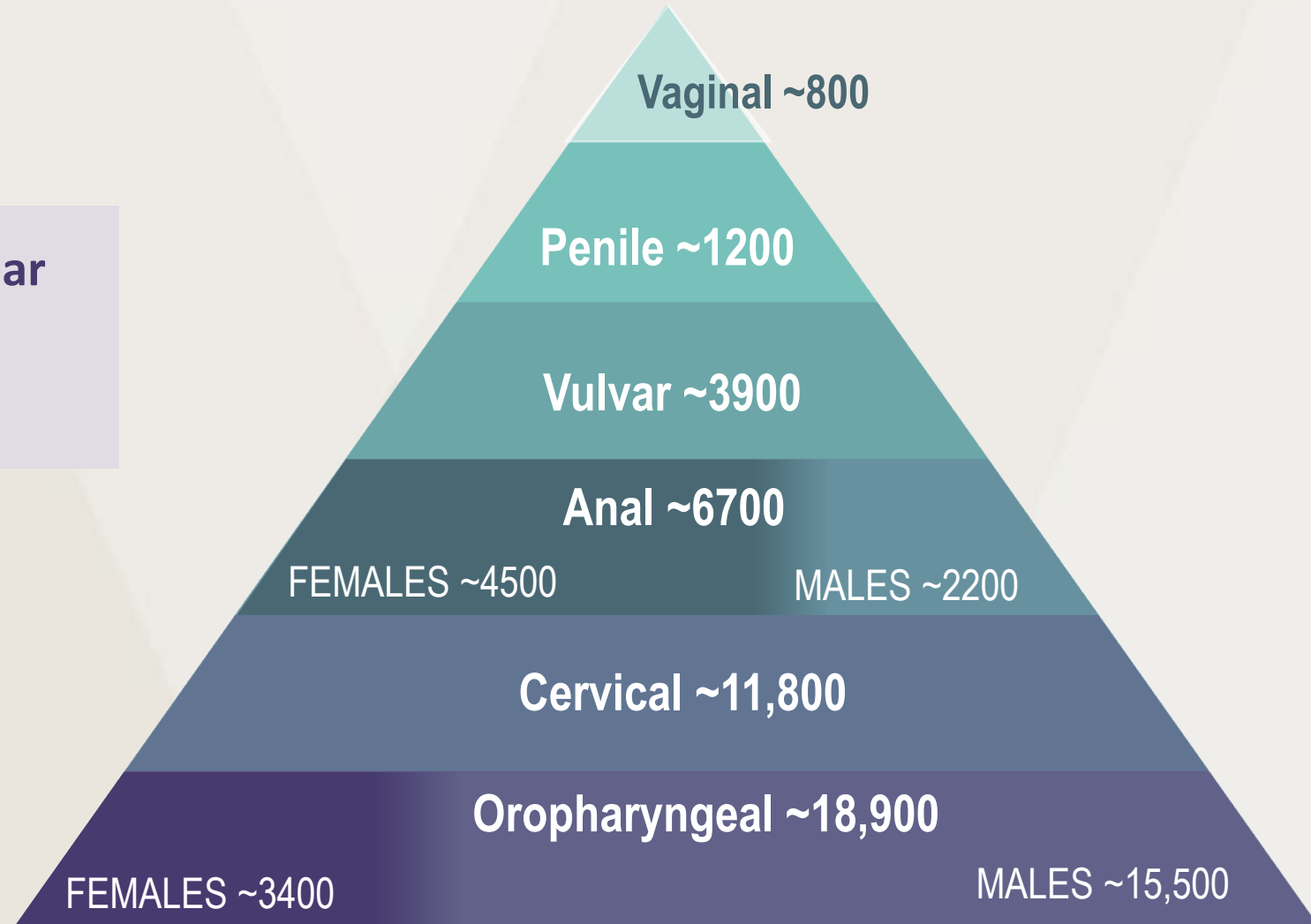
# Annual HPV-Related Cancers **Worldwide**

- ~106,700 non-cervical HPV-related cancers each year are diagnosed each year
- Incidence of many of these cancers is increasing



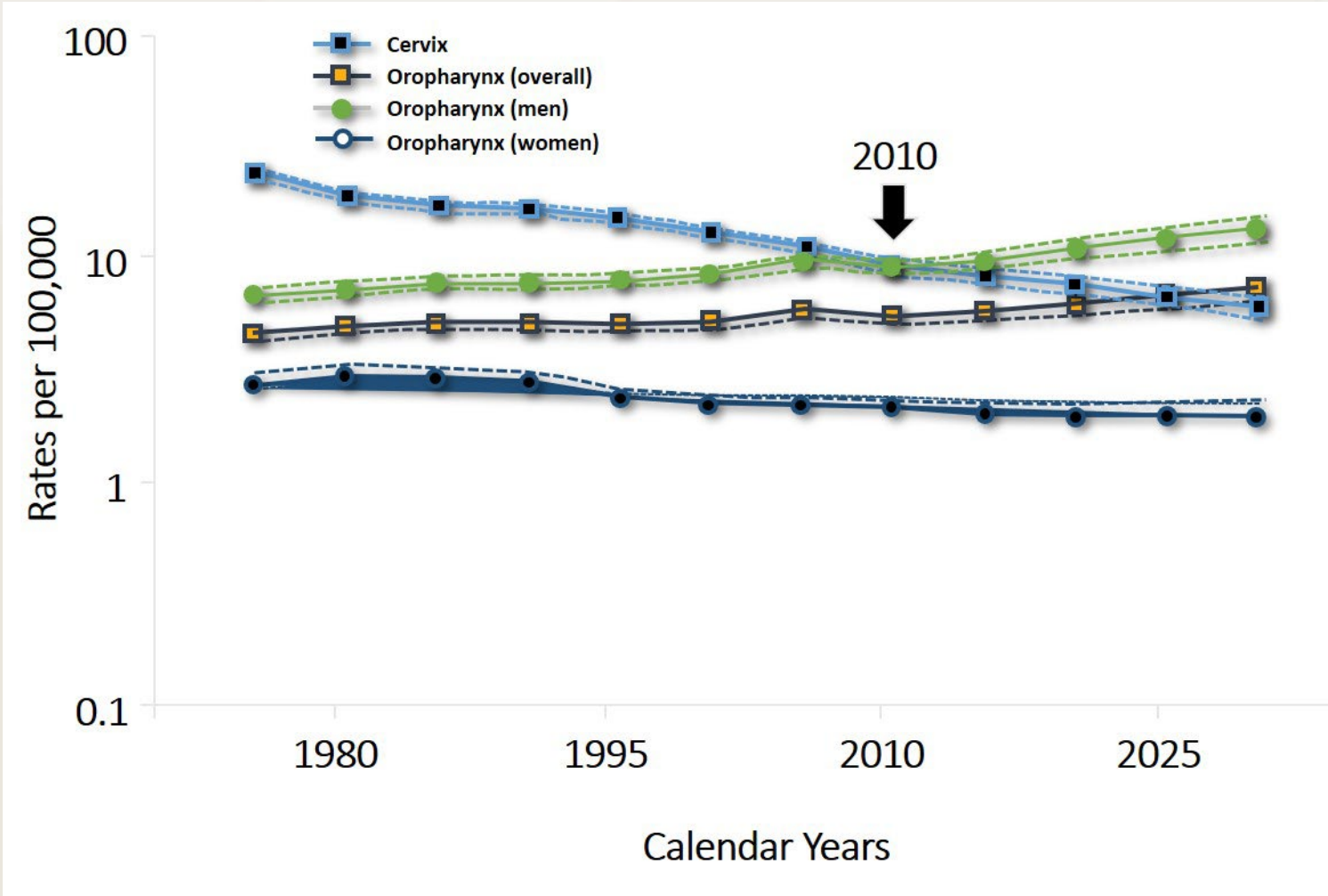
# HPV-Related Cancers Among Men and Women in the US

- ~18,900 oropharyngeal cases each year
- Incidence ~5x higher in males than females



Observed and Projected Incidence Rates for Oropharyngeal Cancers and Cervical Cancer

The HPV disease burden in the United States has shifted to males

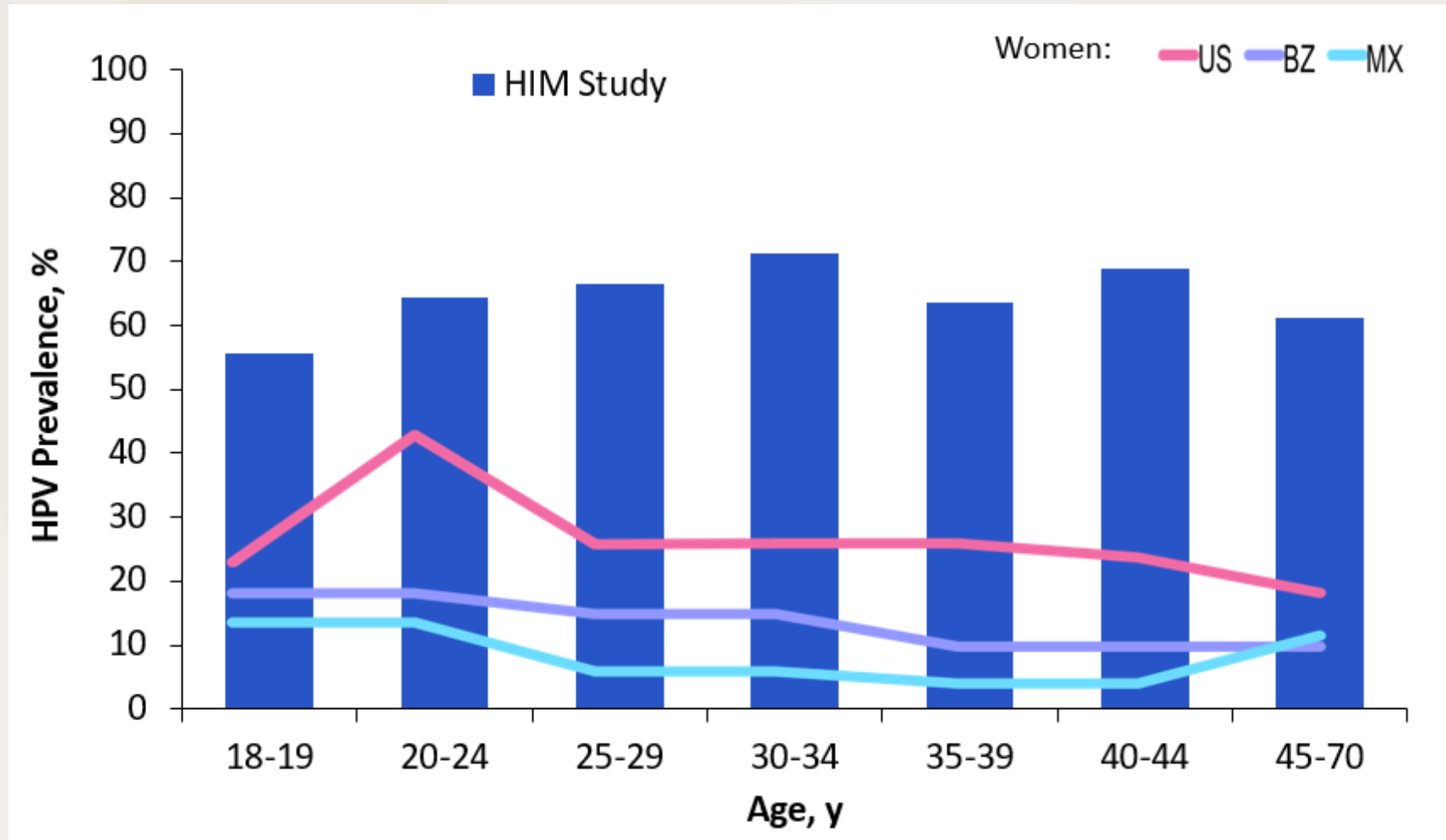


# Genital HPV

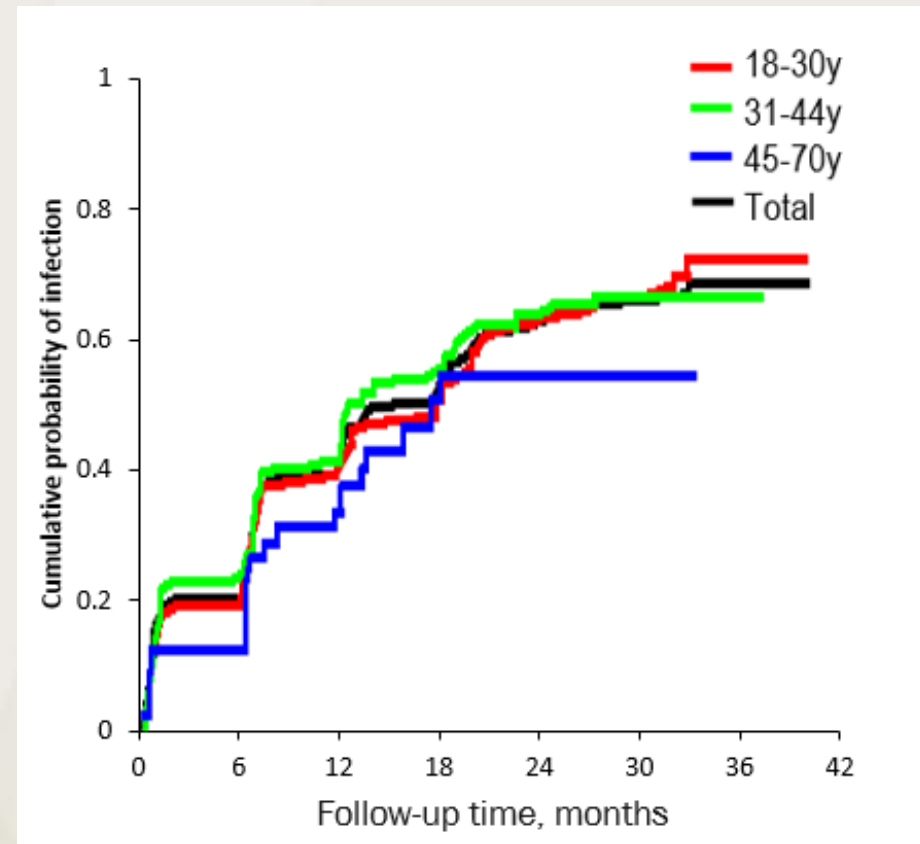
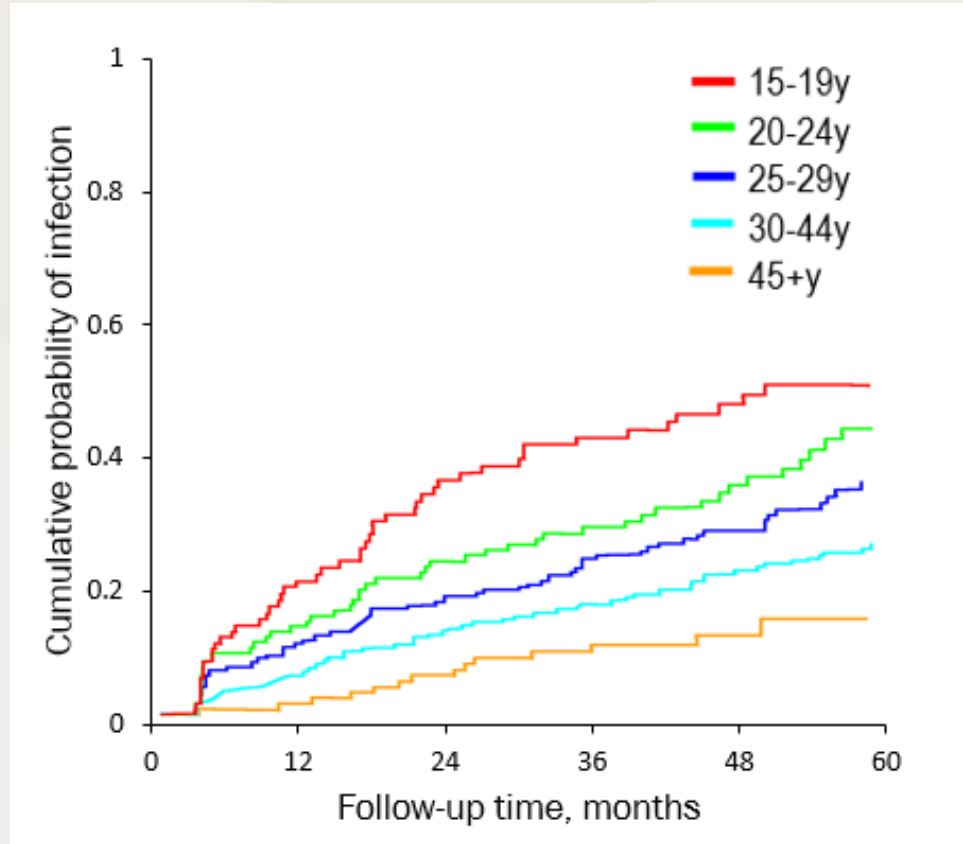


Image from American Sexual Health Association

# Genital HPV Prevalence is Higher in **Men** than **Women** and Does Not Vary with Age

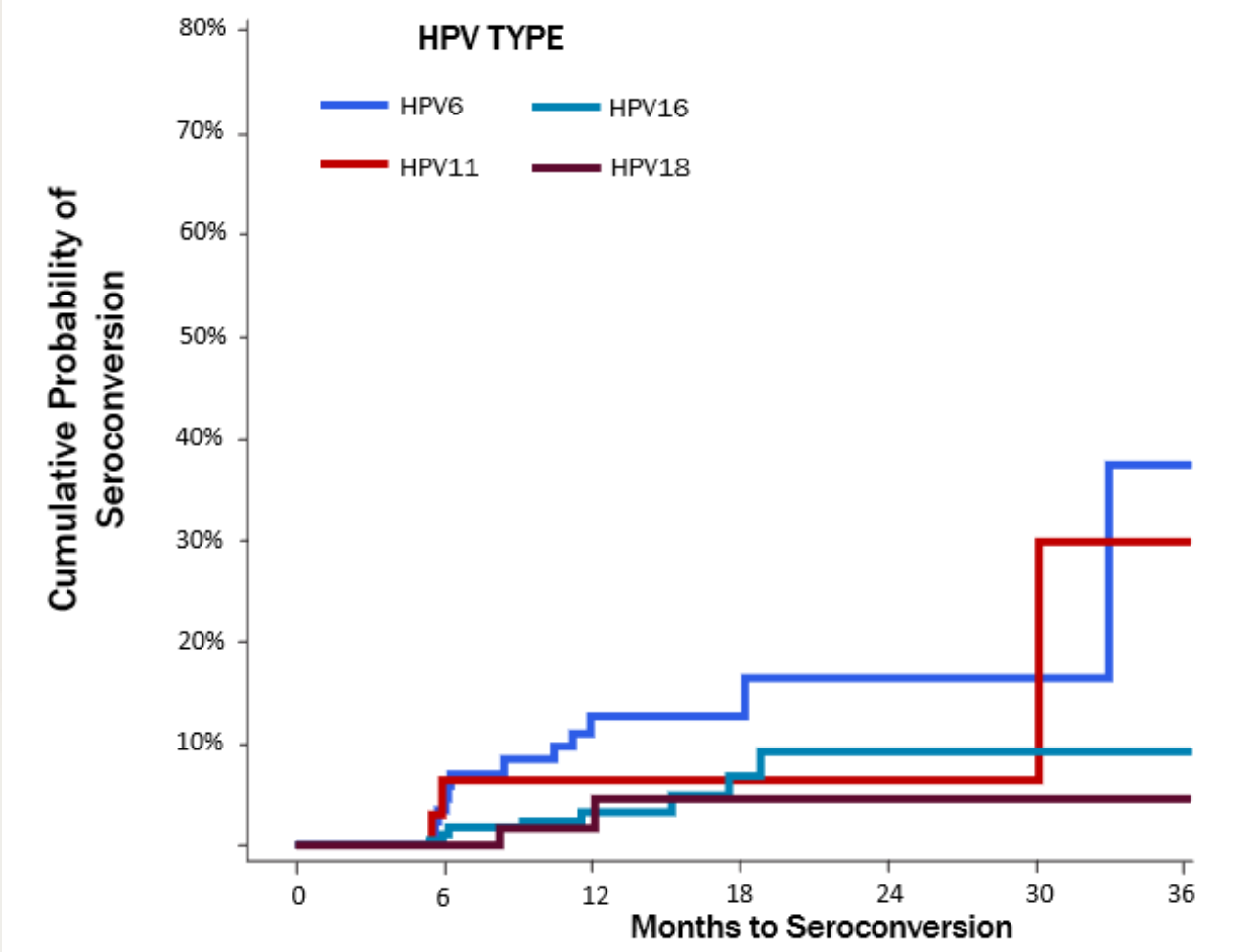


# Genital HPV Incidence Lowest in Older Women but Does NOT Vary with Age in Men



Any HPV

# Men Have Low Rate of Seroconversion Following Genital HPV Infection



	% Seroconversion	
Type	Males	Females
HPV6	19.3%	68.8%
HPV11	8.6%	
HPV16	3.6%	59.5%
HPV18	3.4%	54.1%

# Antibodies to Natural Infection Do Not Protect Against New Infections in Men, except for HPV18

	Seropositive n / N	Seronegative n / N	Crude HR (95% CI)
<b>6-month persistent infection</b>			
HPV 6	7 / 283	100 / 3105	0.80 (0.37-1.72)
HPV 11	2 / 513	37 / 3132	0.33 (0.08-1.35)
HPV 16	21 / 420	120 / 2912	1.25 (0.79-1.99)
<b>HPV 18</b>	<b>2 / 391</b>	<b>74 / 3202</b>	<b>0.22 (0.05-0.91)</b>

n: number of infections; N: number of men

*Seropositivity is not associated with decreased anal or oral HPV 16 incidence*

# High Rates of HPV Infection Progression to Genital Warts in Men

HPV Type	Genital Warts		PeIN	
	Proportion of infections that progress,%	Median Time to EGL	Proportion of infections that progress, %	Median Time to EGL
6	26.4	7.8	0.8	3.4
11	23.6	4.1	1.4	1.2
16	1.1	7.4	1.6	19.0
18	0.7	5.7	0.0	NE

HPV progression to genital wart and PeIN do not vary by age – men ages 18-74 years

# Anal HPV

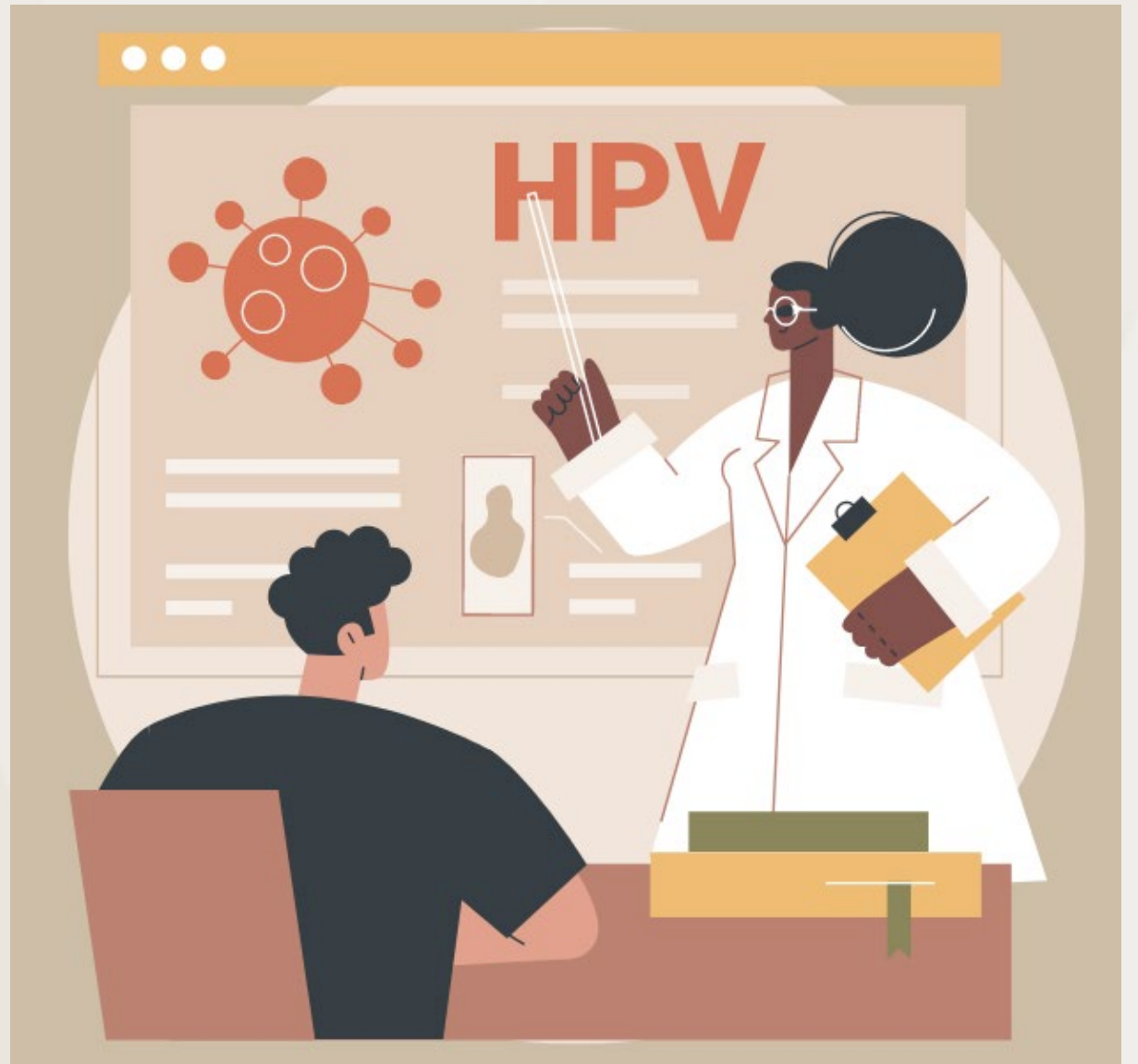
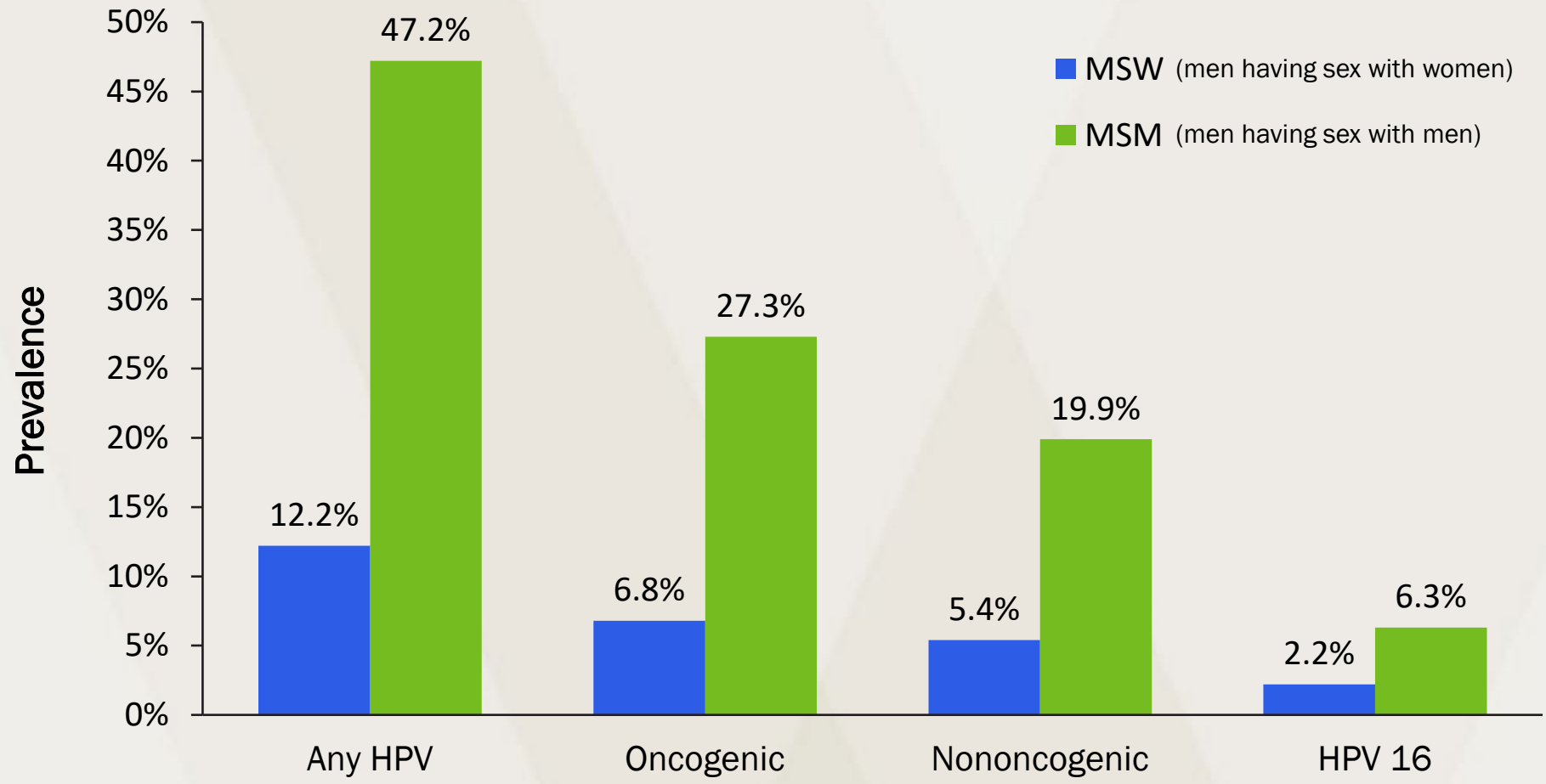


Image from American Sexual Health Association

# Anal Canal HPV Prevalence in Men by Sexual Behavior



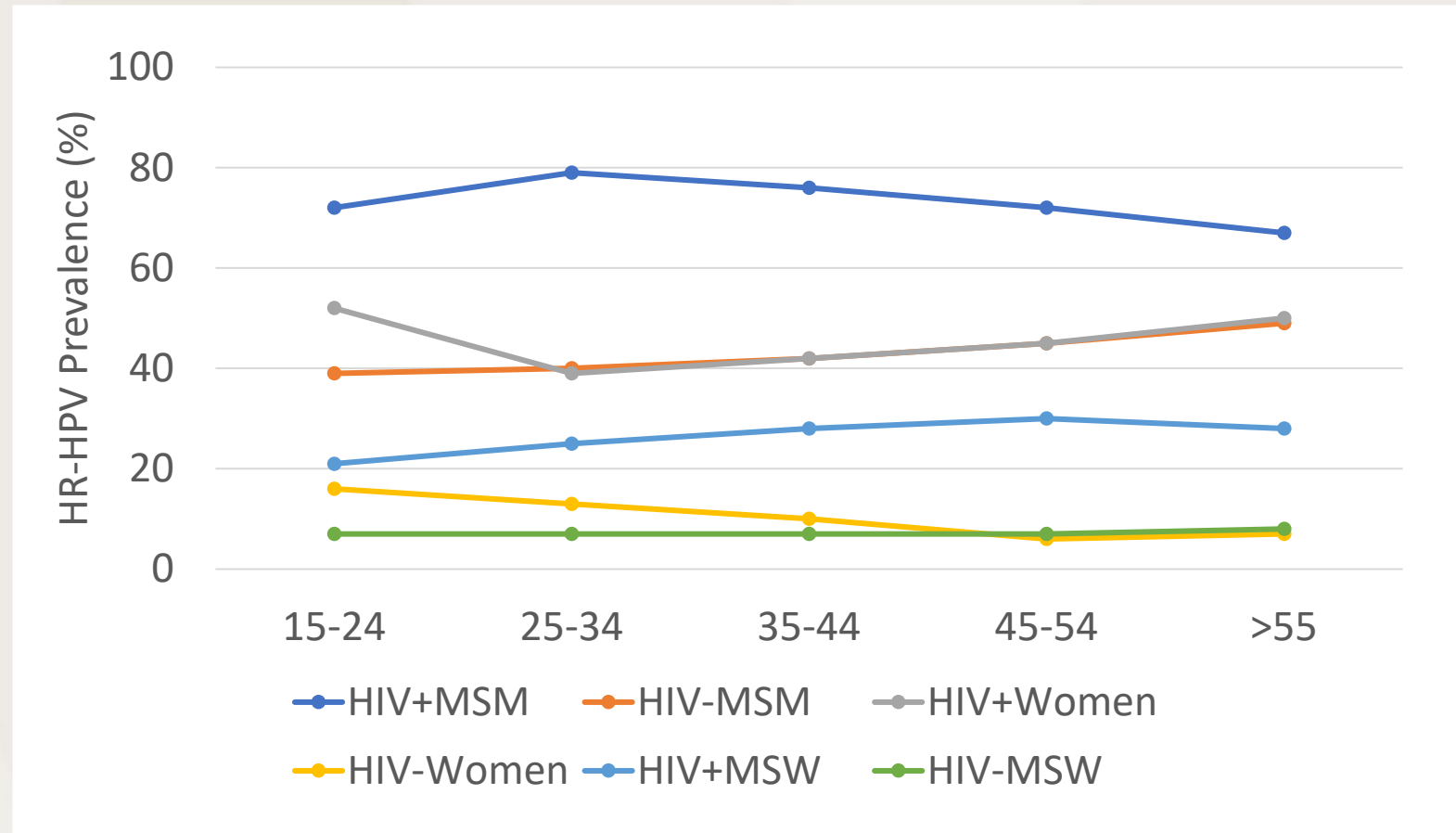
# Risk of Sequential Acquisition of Anal HPV Infection Following Genital HPV Infection among MSW

HPV Type	Crude HR (95% CI)	Adjusted HR <sup>a</sup> (95% CI)	Adjusted <sup>b</sup> HR (95% CI)
Any	2.2 (1.1, 4.4)	2.3 (1.1, 4.7)	2.5 (1.2, 5.3)
Low risk	5.4 (1.2, 24.2)	5.2 (1.2, 23.2)	7.8 (1.4, 43.2)
<b>High Risk</b>	<b>2.9 (1.4, 6.0)</b>	<b>3.1 (1.4, 6.8)</b>	<b>3.3 (1.5, 7.3)</b>
HPV 6	4.6 (0.9, 22.8)	4.7 (0.9, 23.6)	6.2 (1.0, 37.3)
HPV 11	NE	NE	NE
<b>HPV 16</b>	<b>4.6 (1.4, 15.2)</b>	<b>4.5 (1.3, 14.9)</b>	<b>6.4 (1.9, 21.7)</b>
HPV 18	NE	NE	NE

Due to small numbers, bivariate analyses were conducted. Adjustments were for the following as time-varying covariates

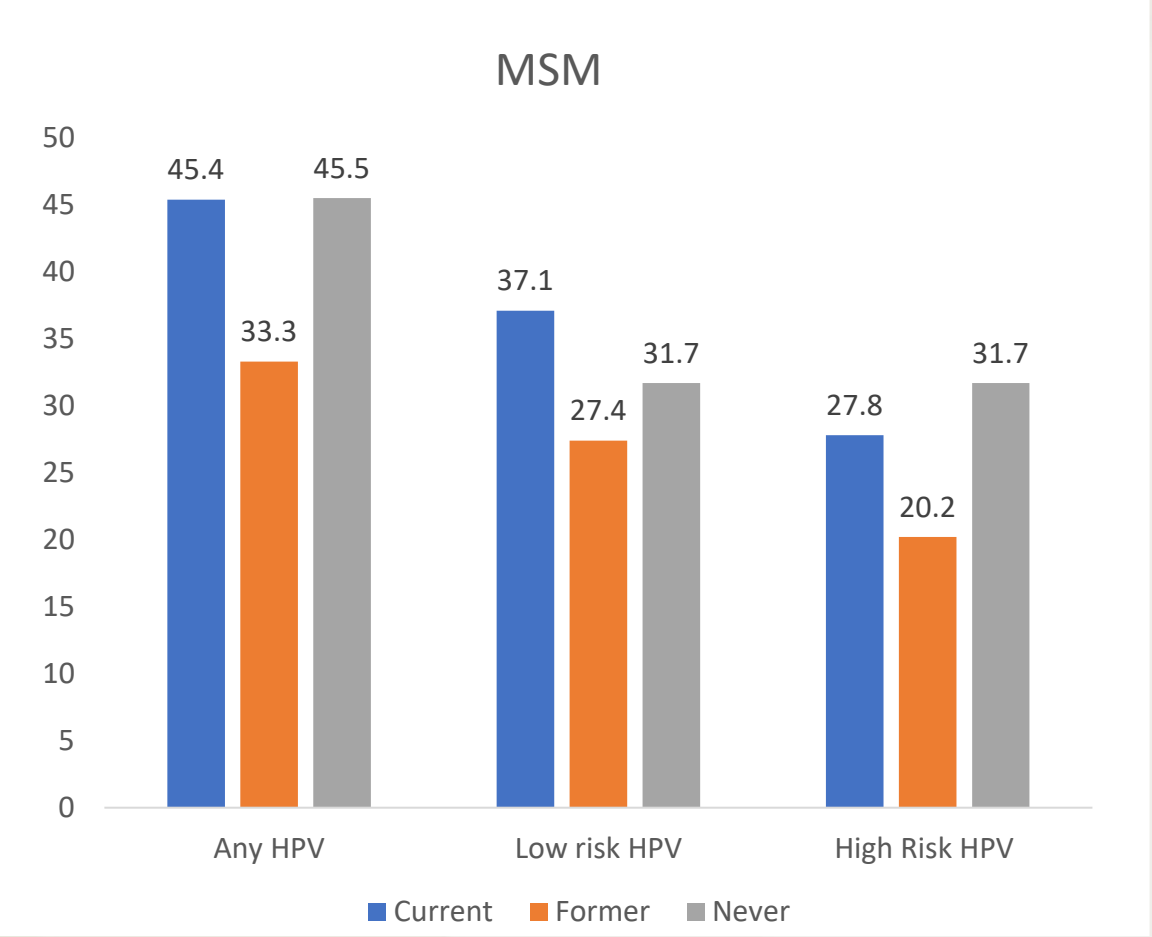
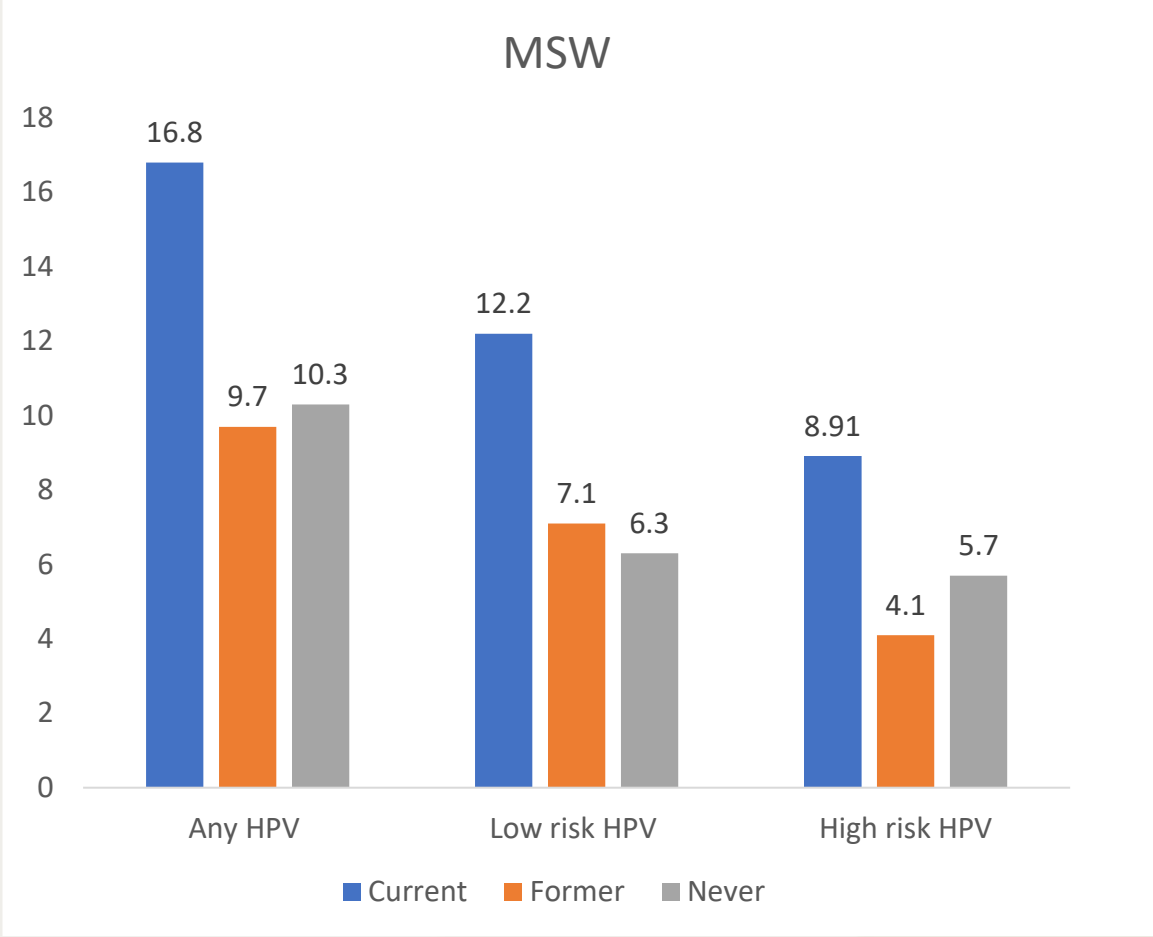
a. alcohol use; b. lifetime number of female sex partners

# Age-specific prevalence of anal high-risk HPV among men and women with and without HIV



*MSM: men who have sex with men; MSW: men who have sex with women*

# Anal HPV Prevalence by Sexual Orientation and Smoking



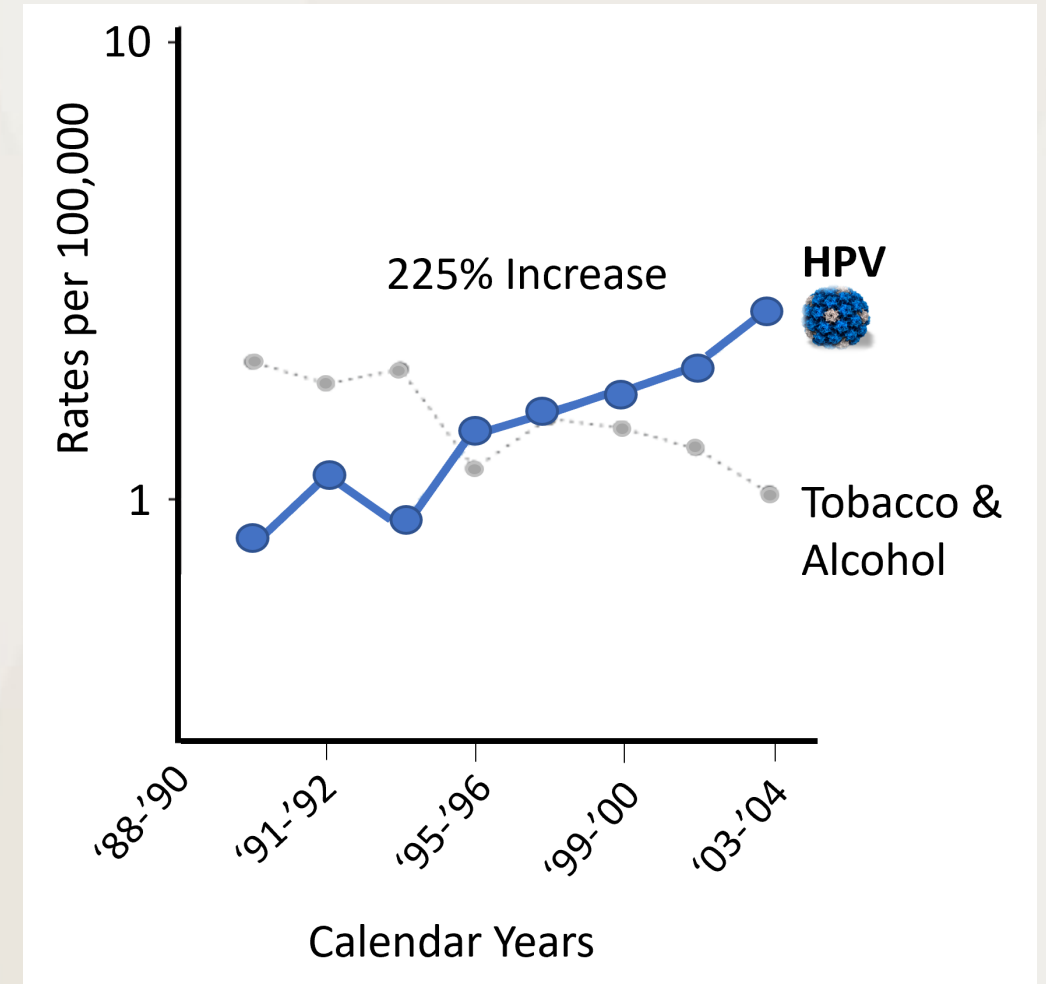
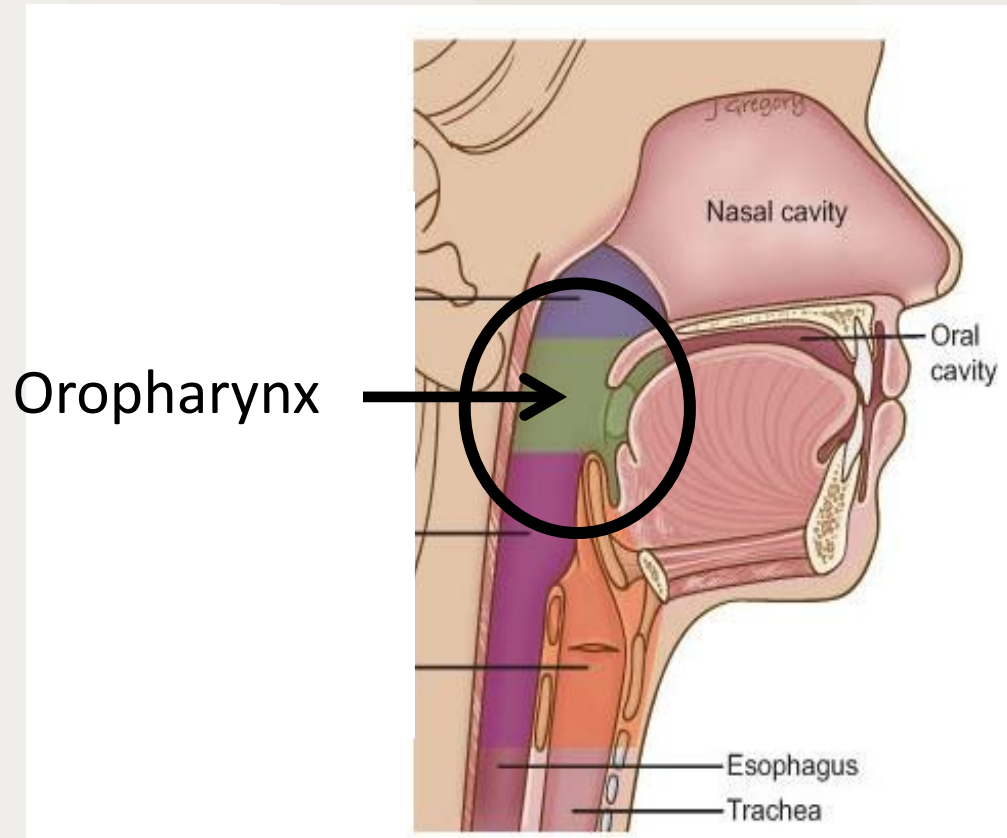
MSM: men who have sex with men; MSW: men who have sex with women

# Oral HPV



Image from American Sexual Health Association

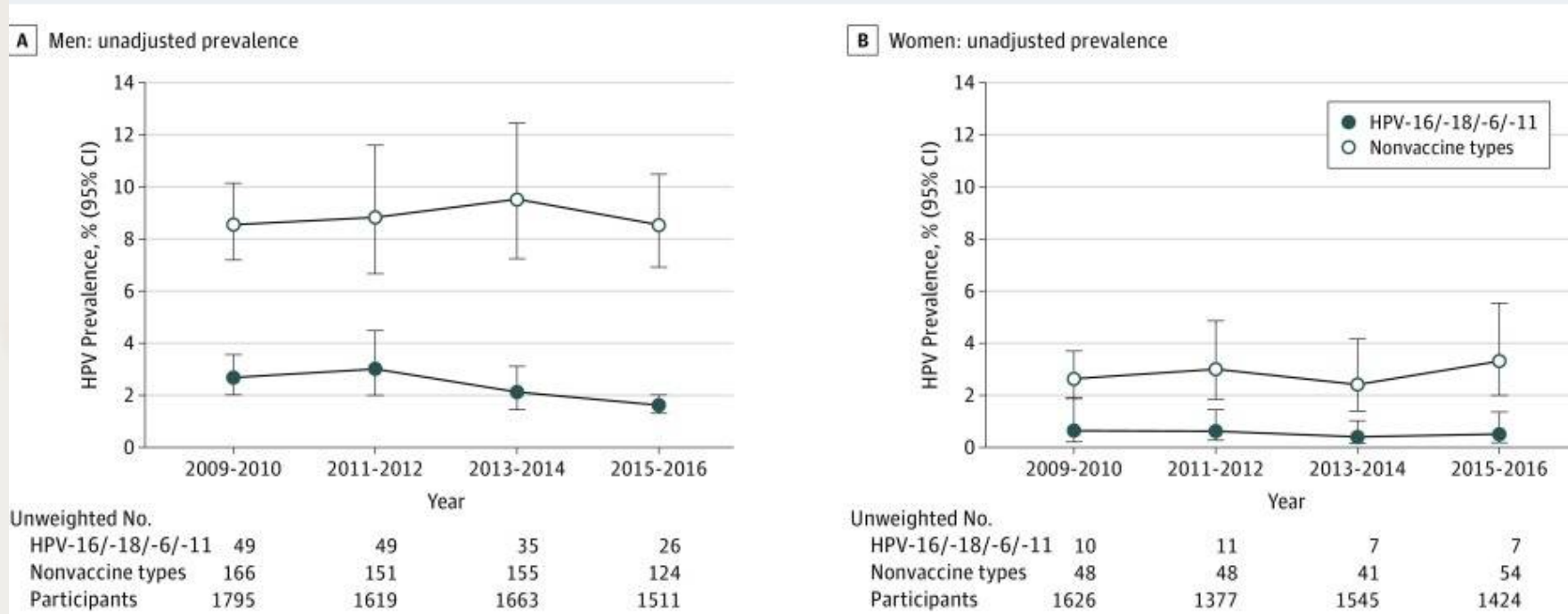
# Increasing rates of OPC in US



# No Difference in Oral Oncogenic HPV Incidence by Age Group

Age group (Years)	Incidence per 1000 Person-Months (95% CI)
18-24	2.9 (2.4 – 3.5)
25-32	2.2 (1.8 – 2.7)
33-41	2.2 (1.8 – 2.7)
42+	2.5 (2.1 – 3.1)

# Prevalence of Oral HPV Infection in Unvaccinated Men and Women in the United States, 2009-2016



# Screening and vaccination for HPV-related cancers among males

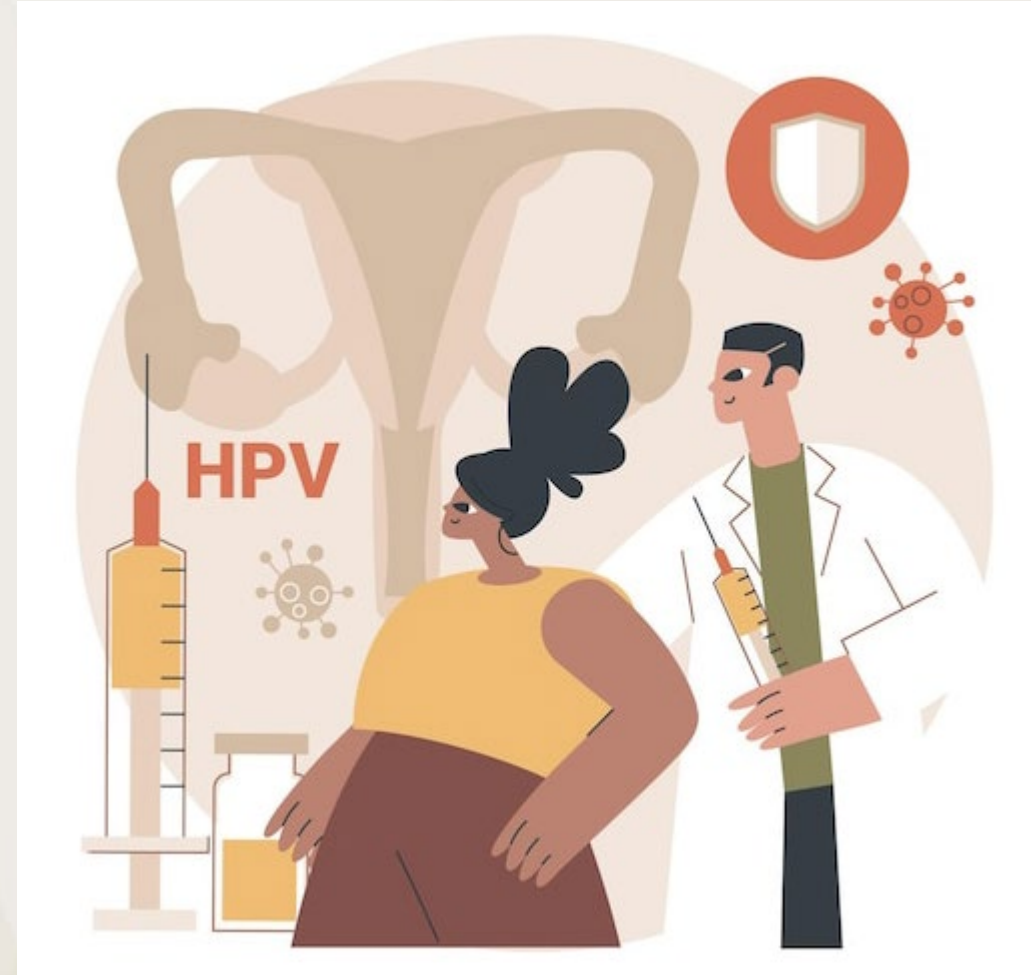
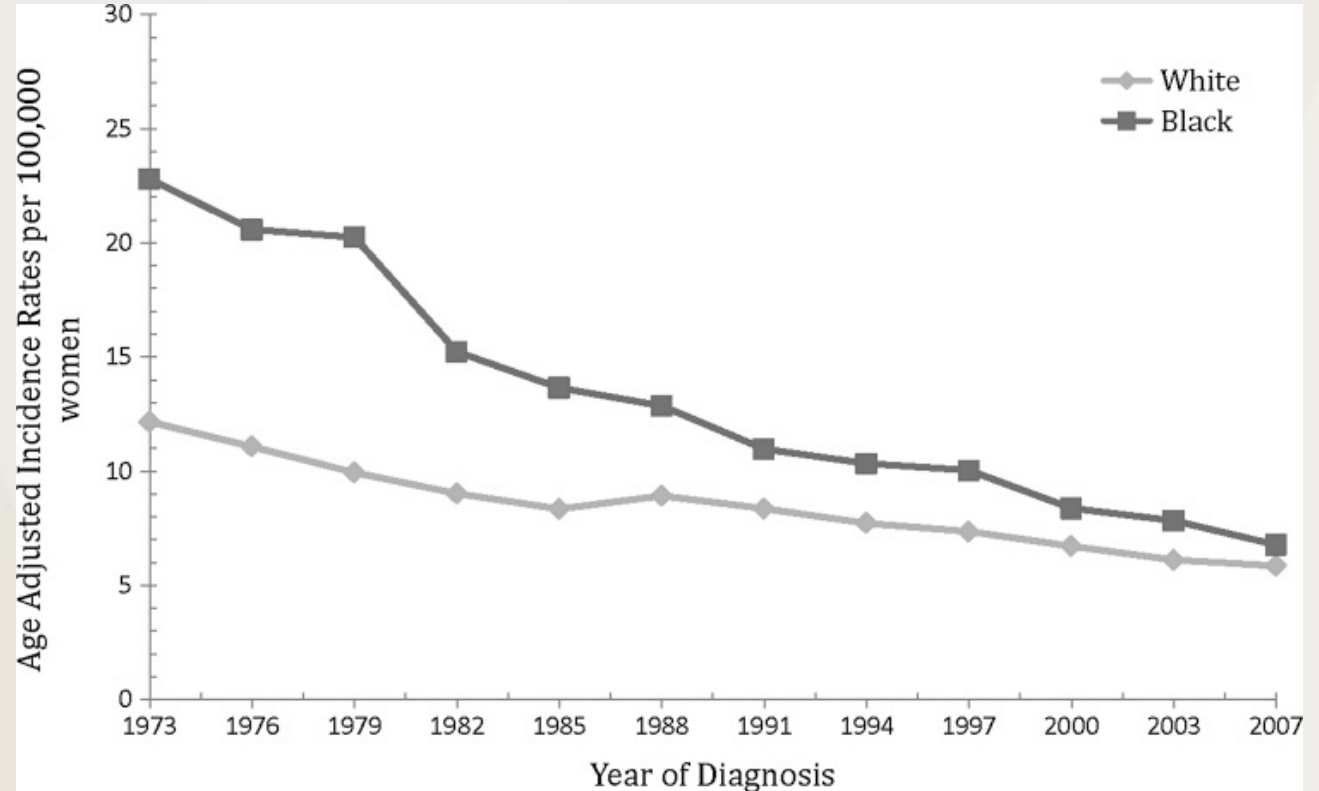


Image from American Sexual Health Association

# Screening for HPV-associated Cancers

Cervical: screening using cytology, HPV-genotyping, visual inspection with acetic acid (VIA)

Routine Screening and removal of precancerous cells has reduced Cervical Cancer rate by 80% since the 1940s

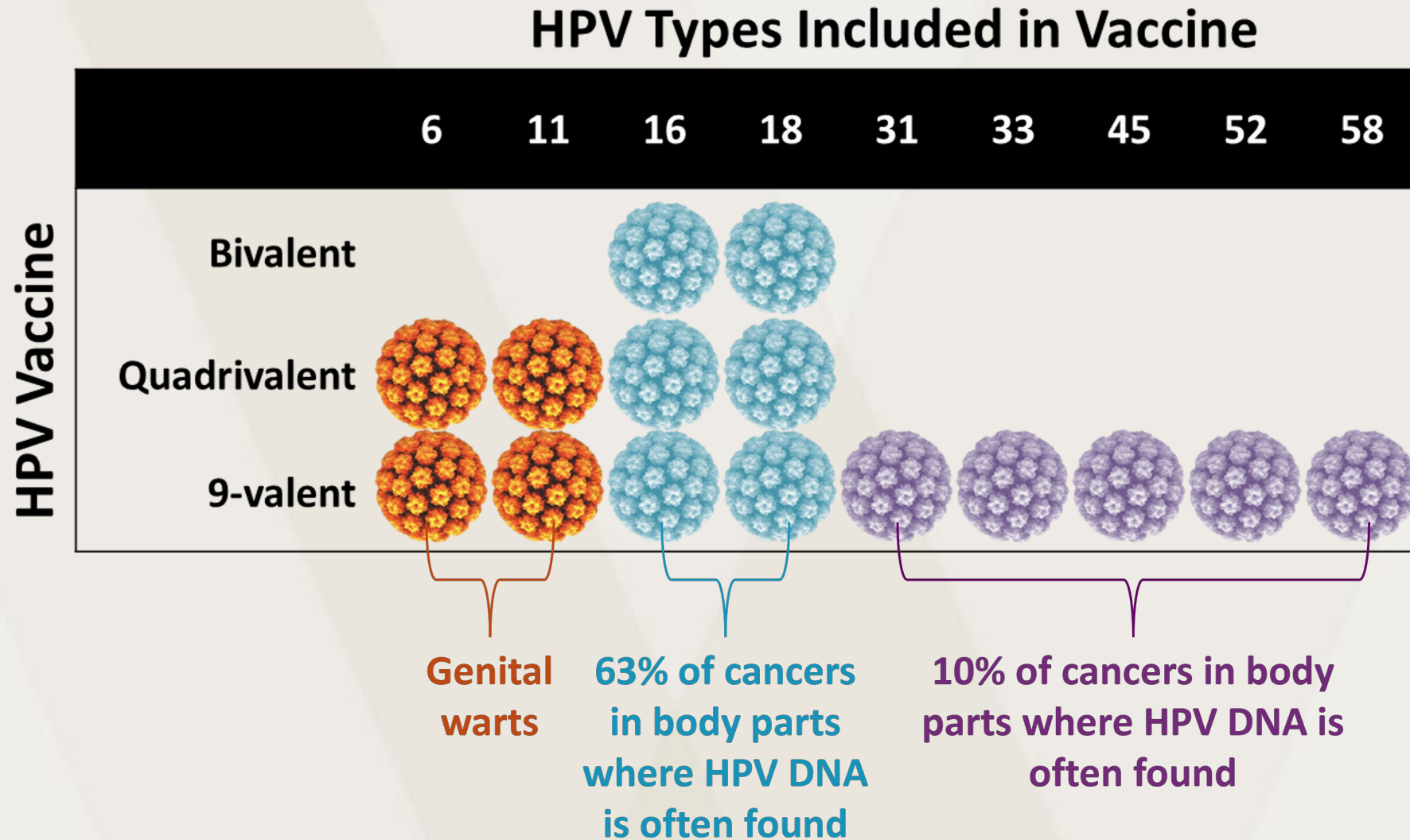


Vulvar, vaginal, anal\*, penile, and oropharyngeal...

There are currently **no** national recommended screening guidelines for these cancers

\*anal cancer screening occurs in high-risk populations only

# HPV Vaccine Comparison



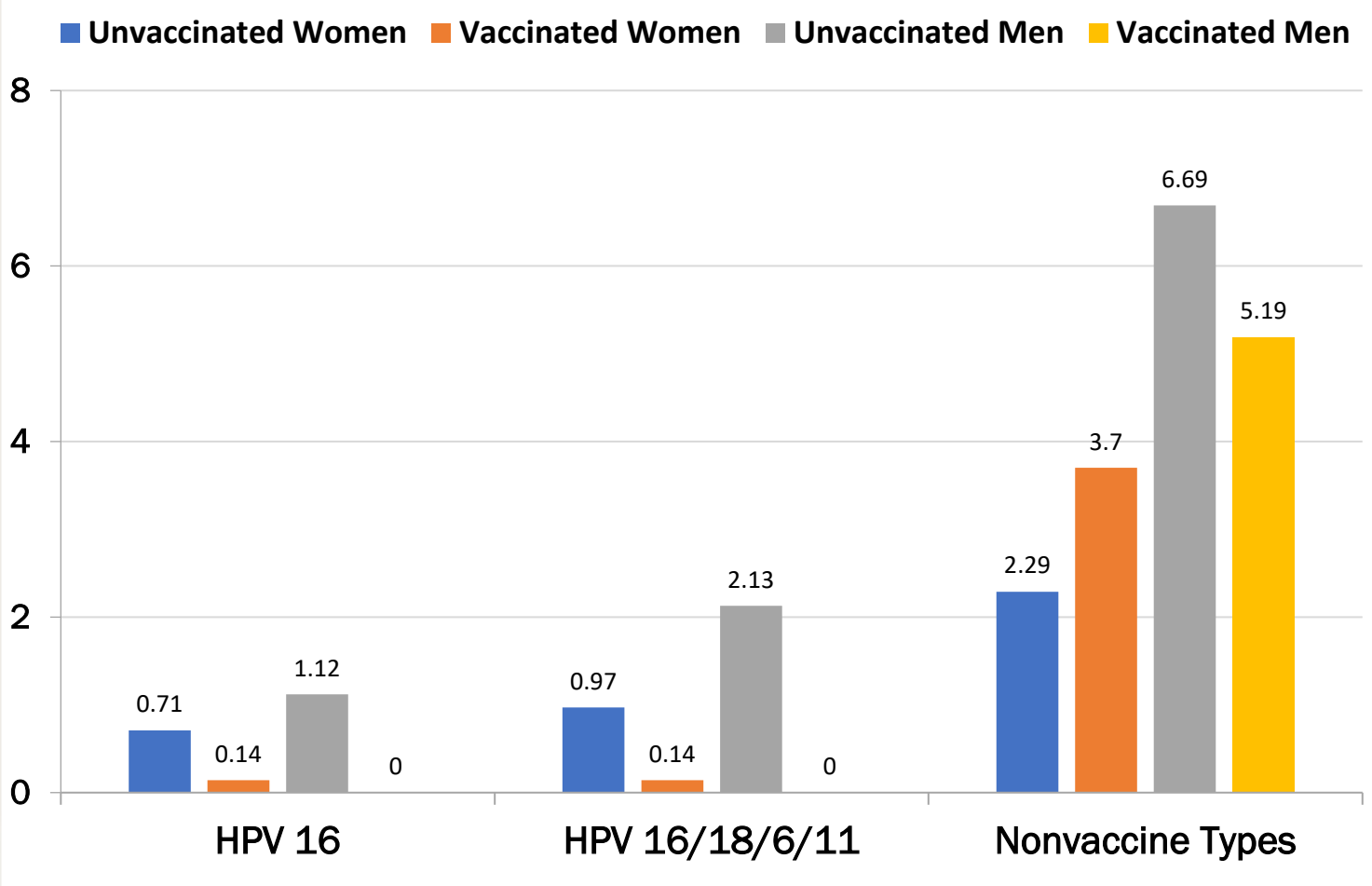
# Male Vaccination Confers Long-Term Protection (7+ yrs.) Against External Genital Lesions and AIN

		Participants	Person-Years Follow-up	Incidence per 10,000 PY (95% CI)
<b>External genital lesions related to HPV 6, 11, 16, or 18</b>				
Per-Protocol population	Base study	2/731	1728.4	<b>11.6 (1.4 – 41.8)</b>
	Long-term follow-up	0/730	4798.4	0.0 (0.0 – 7.7)
MiTT population	Base study	8/848	2444.5	<b>32.7 (14.1 – 64.5)</b>
	Long-term follow-up	0/848	5603.0	0.0 (0.0 – 6.6)

# 4vHPV Vaccine High Efficacy Against Related External Genital Lesions (EGL) in Males

Endpoint	qVaccine (n = 1,397)		Placebo (n = 1,408)		% Efficacy	95% CI
	Cases	Inc. per 100 PY	Cases	Inc. per 100 PY		
Genital Warts	3*	0.1	28	1.0	89.4	65.5, 97.9
PIN 1	0	0.0	2	0.1	--	--
PIN 2/3	0	0.0	1	0.0	--	--
Penile/perineal/perianal cancer	0	0.0	0	0.0	--	--

# Oral HPV Decline Among Males and Females Ages 18-33 Years Post-Vaccination, USA



Declines even with only ~18% of US population ages 18-33 years vaccinated

Outside of Bahrain, Canada, Hong Kong, Kuwait, Mauritius, Philippines, Qatar, Taiwan, Thailand, UAE and the US currently no HPV vaccines are approved for the prevention of oropharyngeal cancer and other head and neck cancers.

# FDA Approves Gardasil 9 for Prevention of Oropharyngeal, Head & Neck Cancers Caused by HPV

June 15, 2020

By Hannah Slater

Article



*The FDA approved an expanded indication for the HPV 9-valent vaccine, recombinant for the prevention of oropharyngeal and other head and neck cancers caused by HPV types 16, 18, 31, 33, 45, 52, and 58.*

# Conclusions

- HPV can cause infections at multiple anatomic sites in men: genitals, anal canal, and oral cavity
- Men remain susceptible to HPV throughout their lifetime
- HPV infection and disease incidence is high in men and remains high through mid-adult years
- Men rarely develop immunity following natural HPV infection, regardless of age
- Antibodies acquired from natural HPV infection do not protect against subsequent infection or disease

***Vaccination is the only reliable method to ensure protection against HPV in men***

Preventing cancer is better than treating it.



HPV infections can cause **six types** of cancer, but doctors only routinely screen for cervical cancer. The other five types may not be detected **until** they cause health problems.



HPV vaccination provides safe, effective, and long-lasting protection.

With nearly



doses distributed in the U.S., data continues to show HPV vaccine is safe and effective.



**THANK YOU!**

# Ashish Deshmukh, PhD

## SPEAKER

Professor

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

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

**Ashish A. Deshmukh, PhD, MPH**

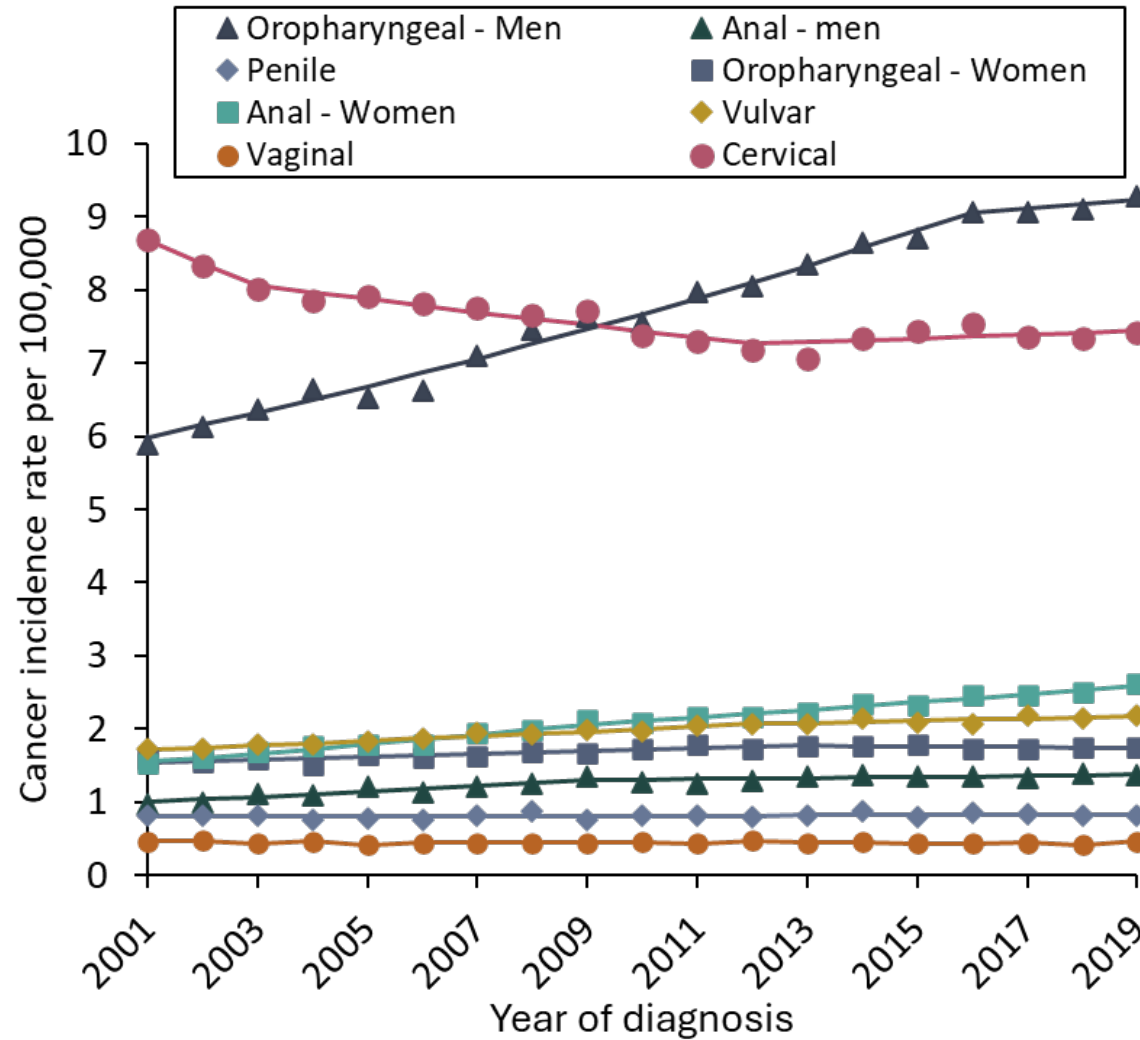
Professor, Public Health Sciences

Co-leader, Cancer Prevention and Control Program, Hollings Cancer Center

SmartState Distinguished Endowed Chair in Cancer Equity

Medical University of South Carolina

# Continued rise in cancers caused by HPV

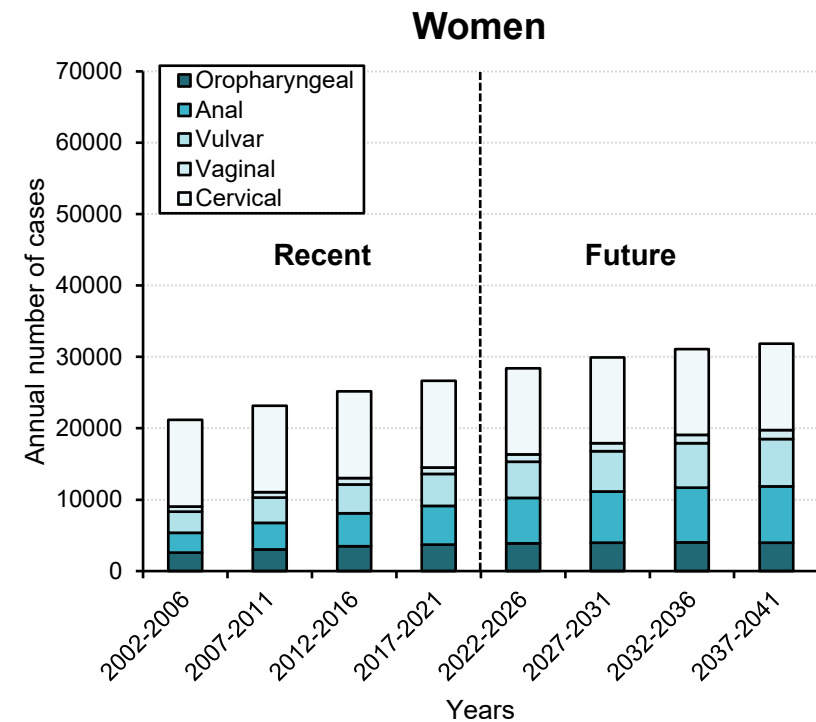
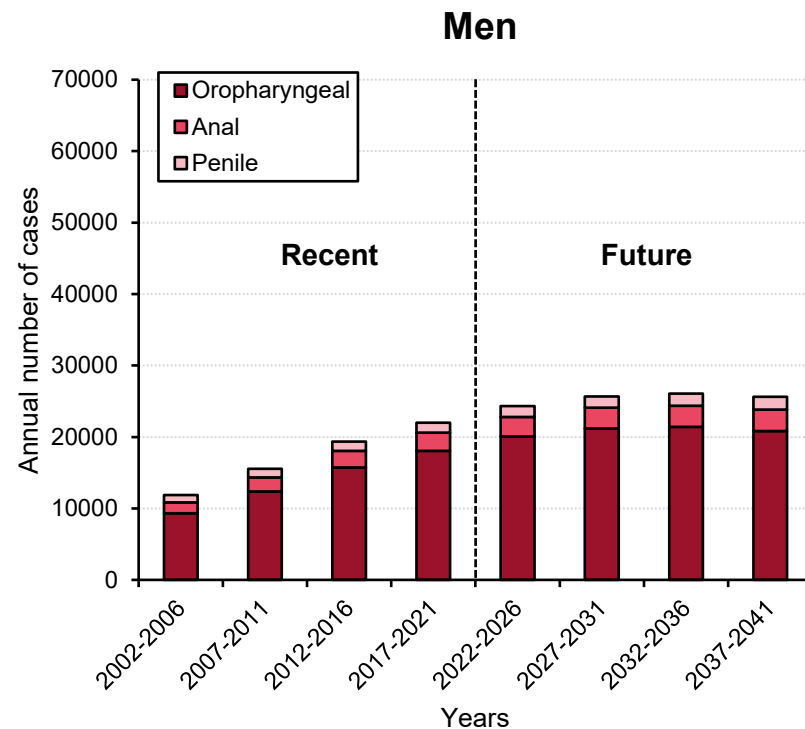
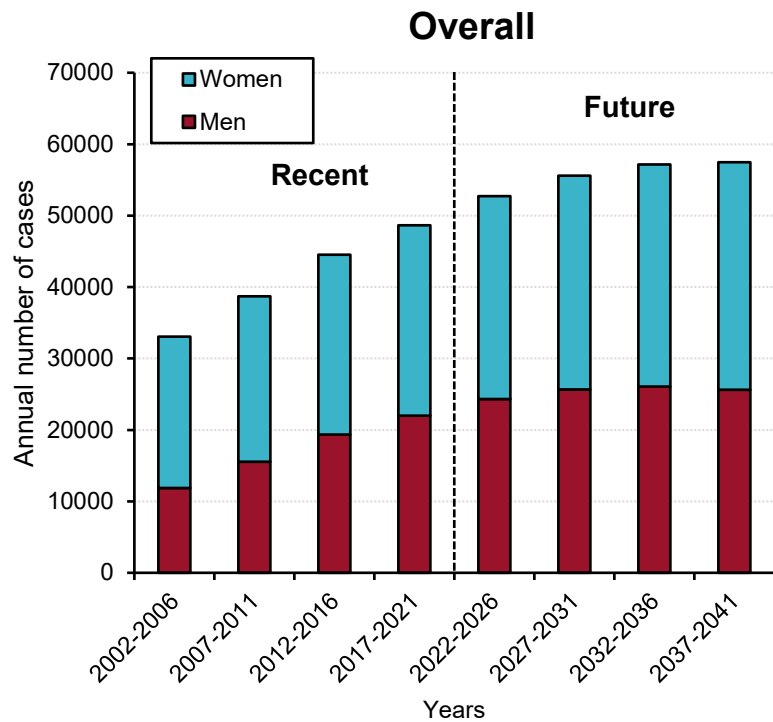


## HPV-associated cancer trends

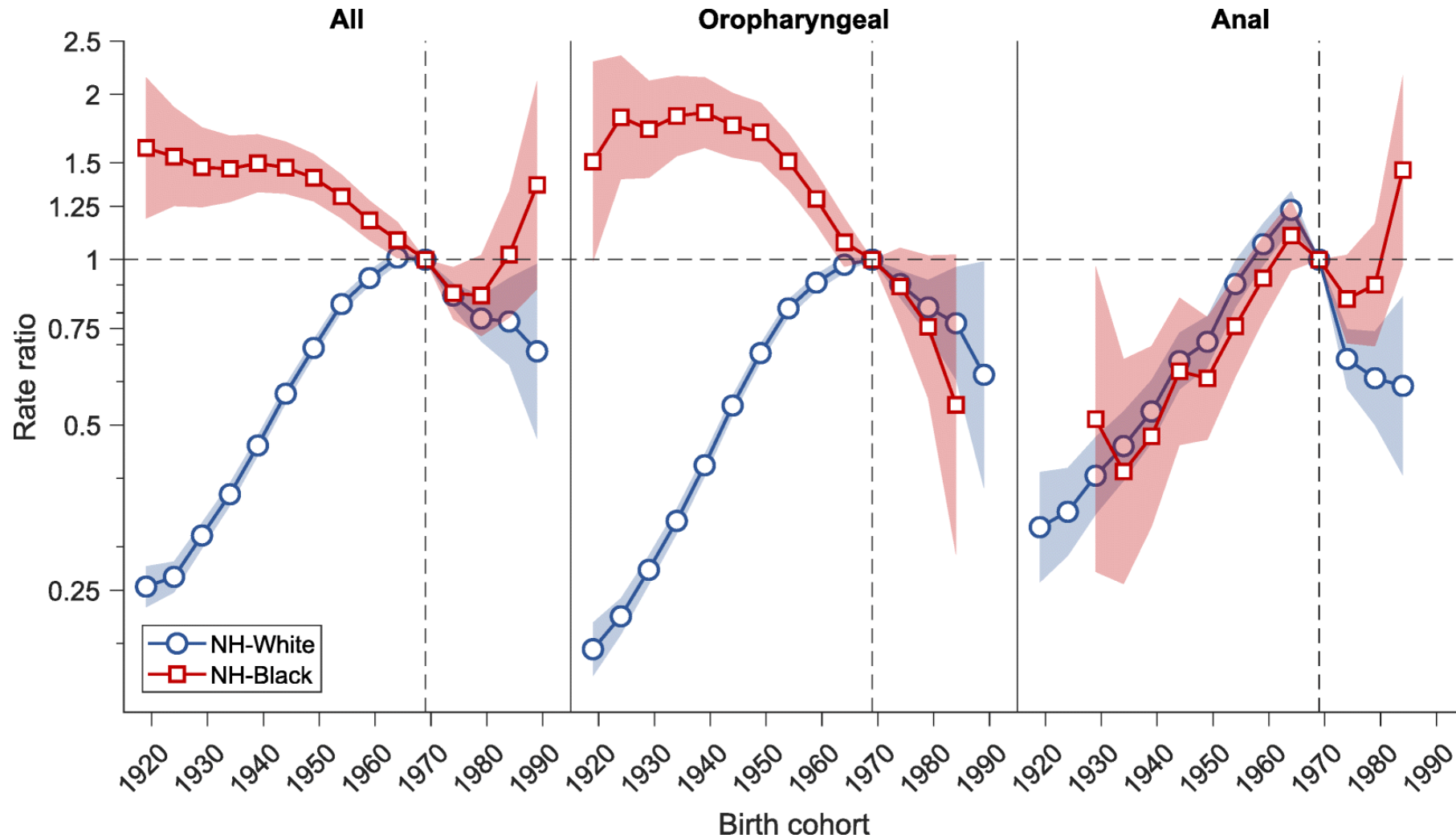
- Cervical Cancer (recently stabilized)
- Vaginal Cancer (rise)
- Vulvar Cancer (rise)
- Oropharyngeal Cancer (rise)
- Anal Cancer (rise)
- Penile Cancer (rise)

Deshmukh et al JNCI 2021; Deshmukh et al JNCI 2020

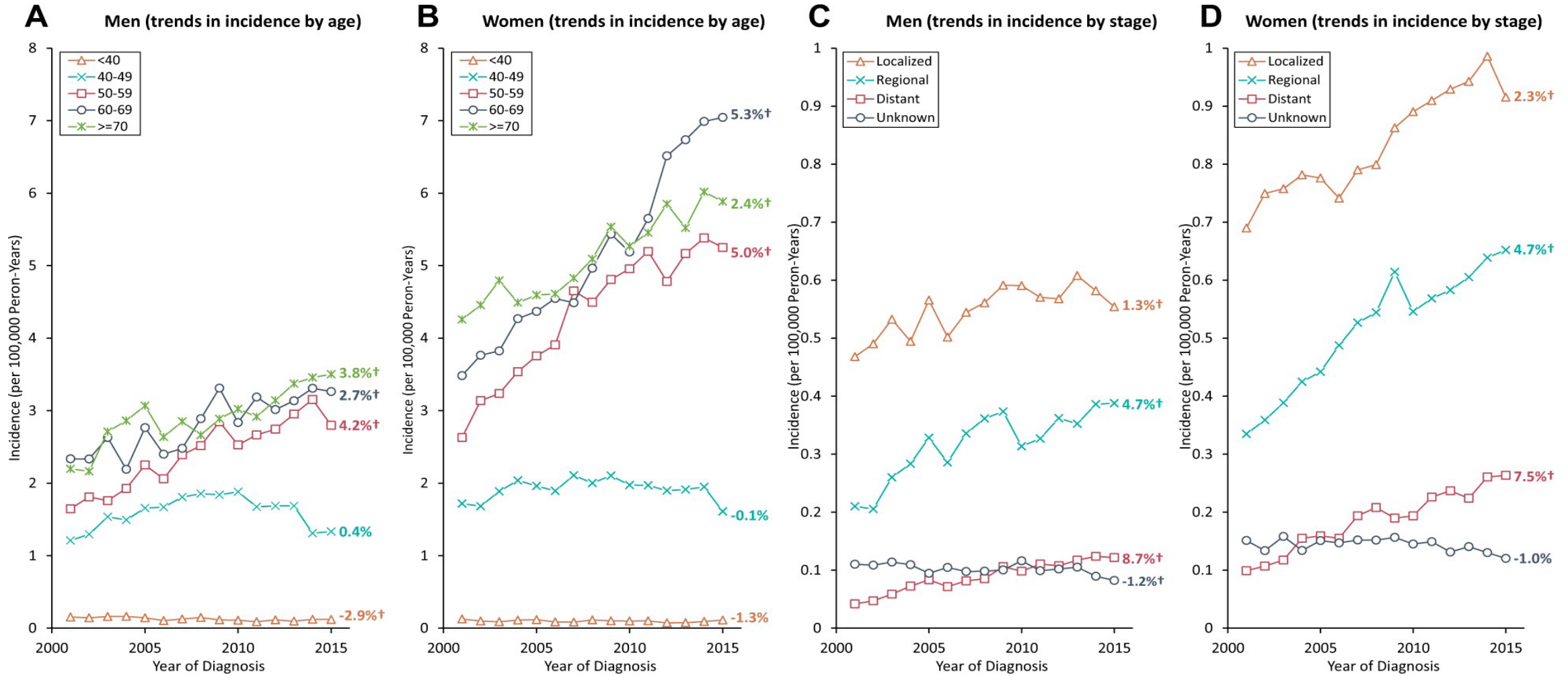
# HPV-associated cancer burden is expected to rise in the coming years



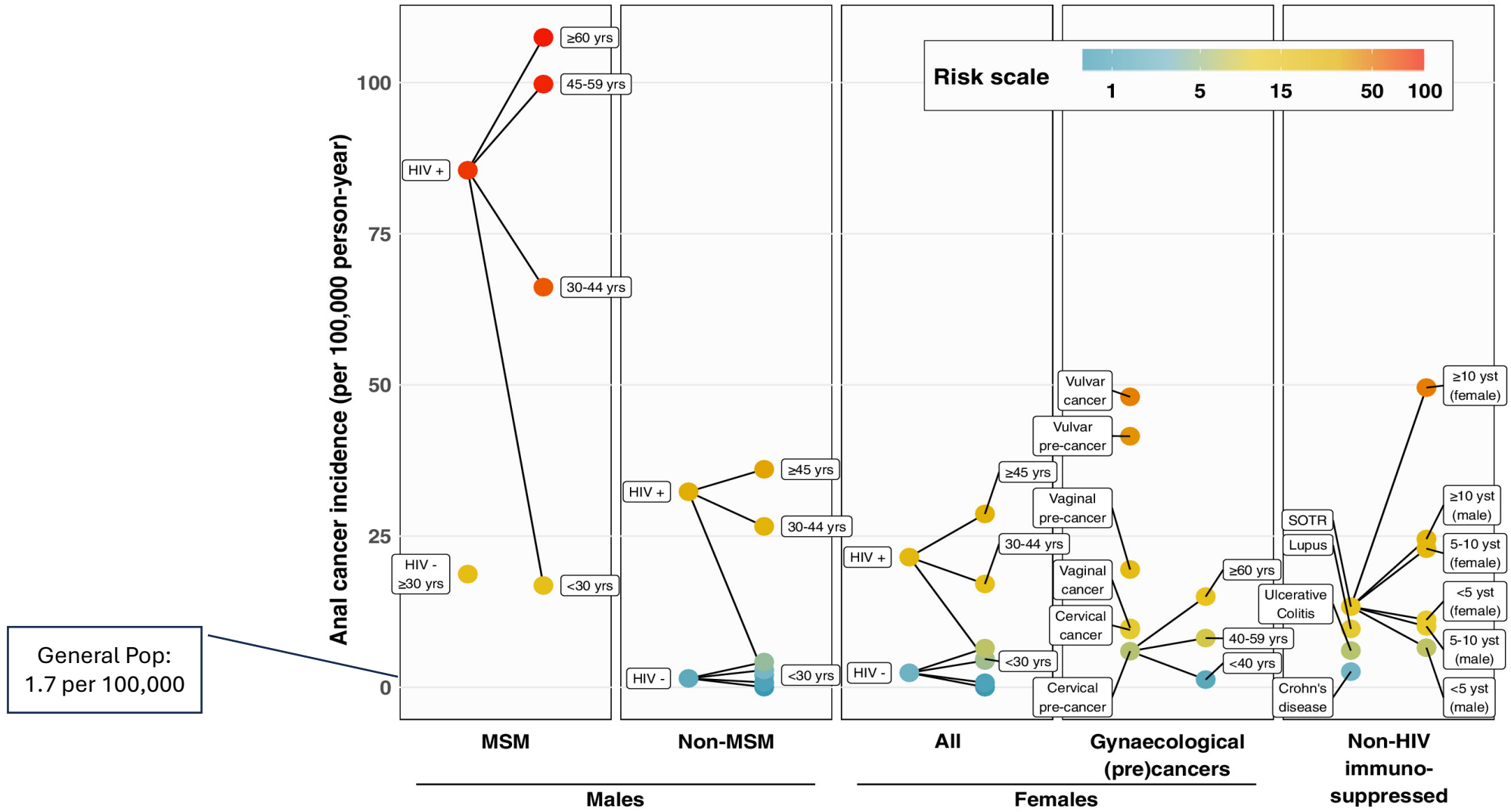
# HPV-associated cancers among US men: risk among recent birth cohorts



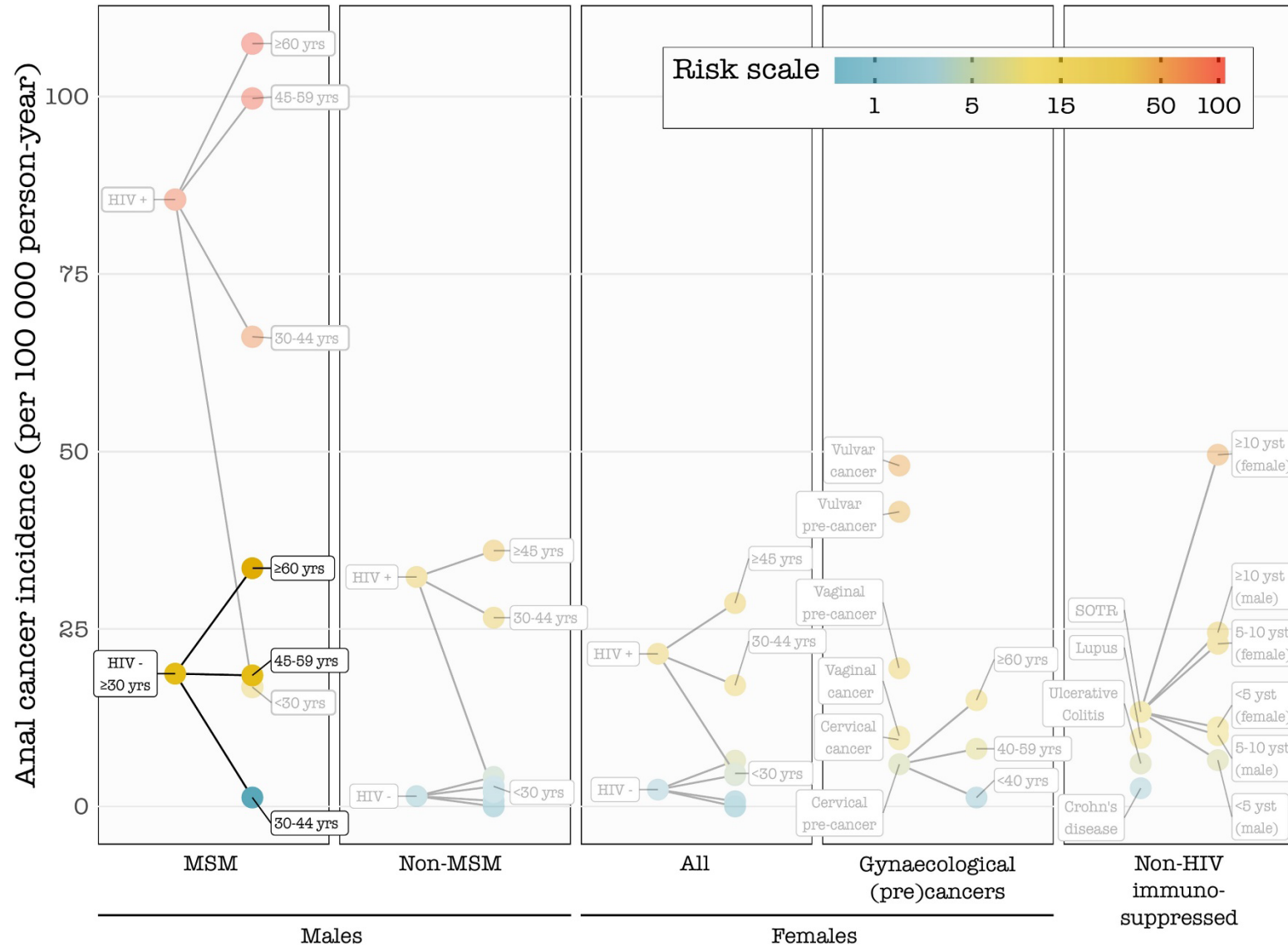
# Anal cancer: Rising incidence among men and women



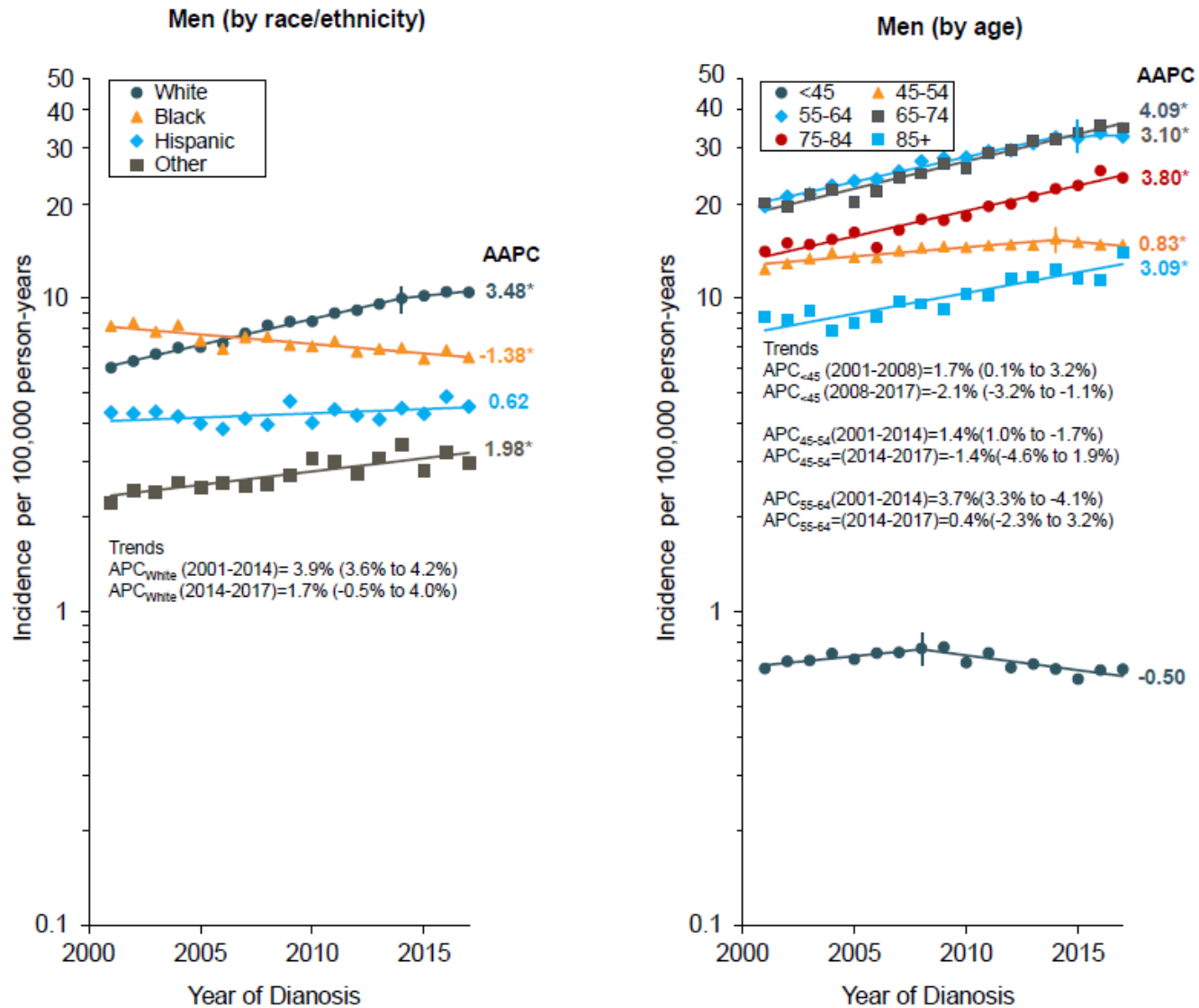
# Anal cancer: Concentration of risk among key high-risk groups



# Anal cancer: Concentration of risk among key high-risk groups

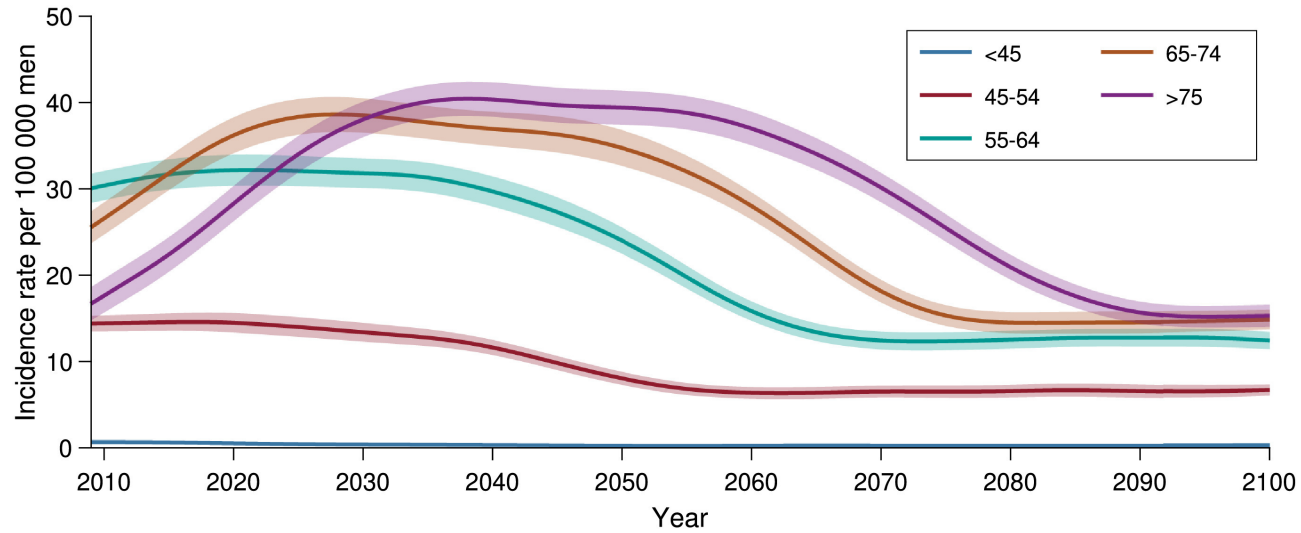


# Oropharyngeal cancer: Rising incidence among US men

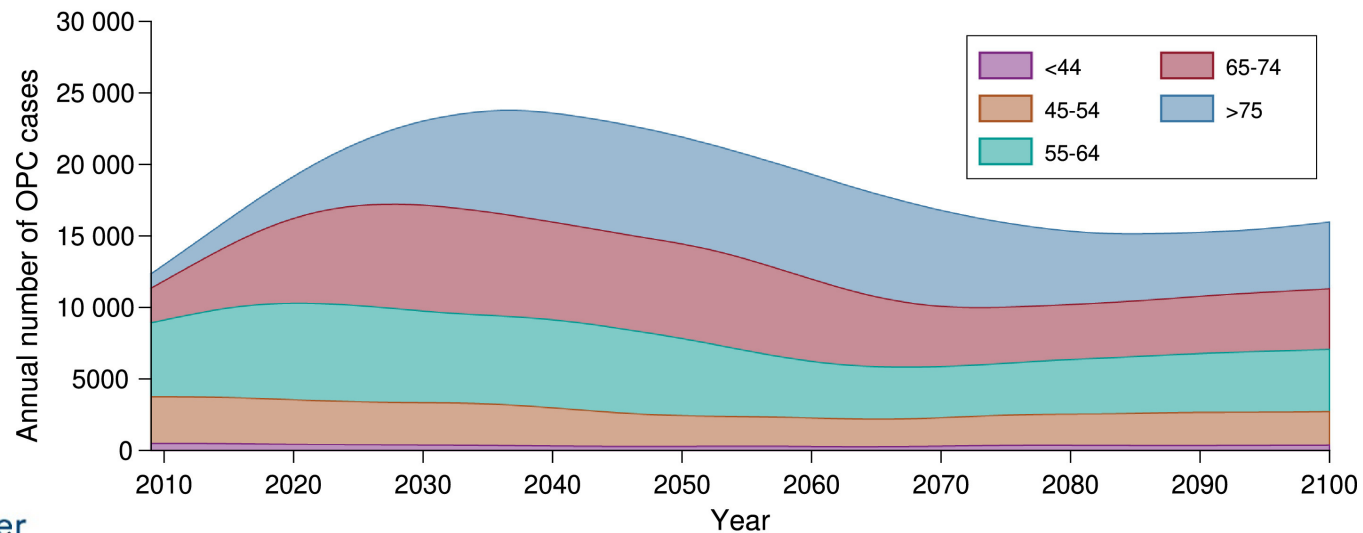


# Oropharyngeal cancer: projecting future incidence and burden

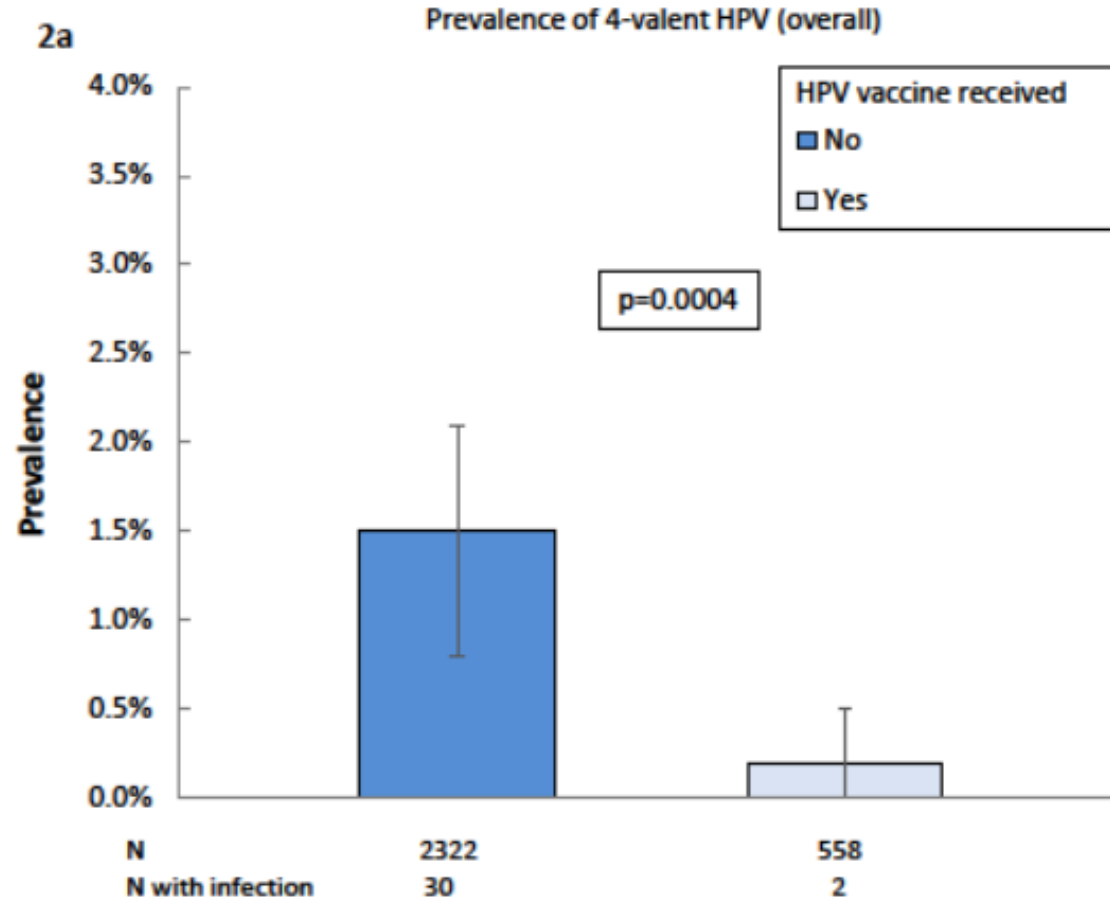
A. Age-specific incidence trends of oropharyngeal cancer

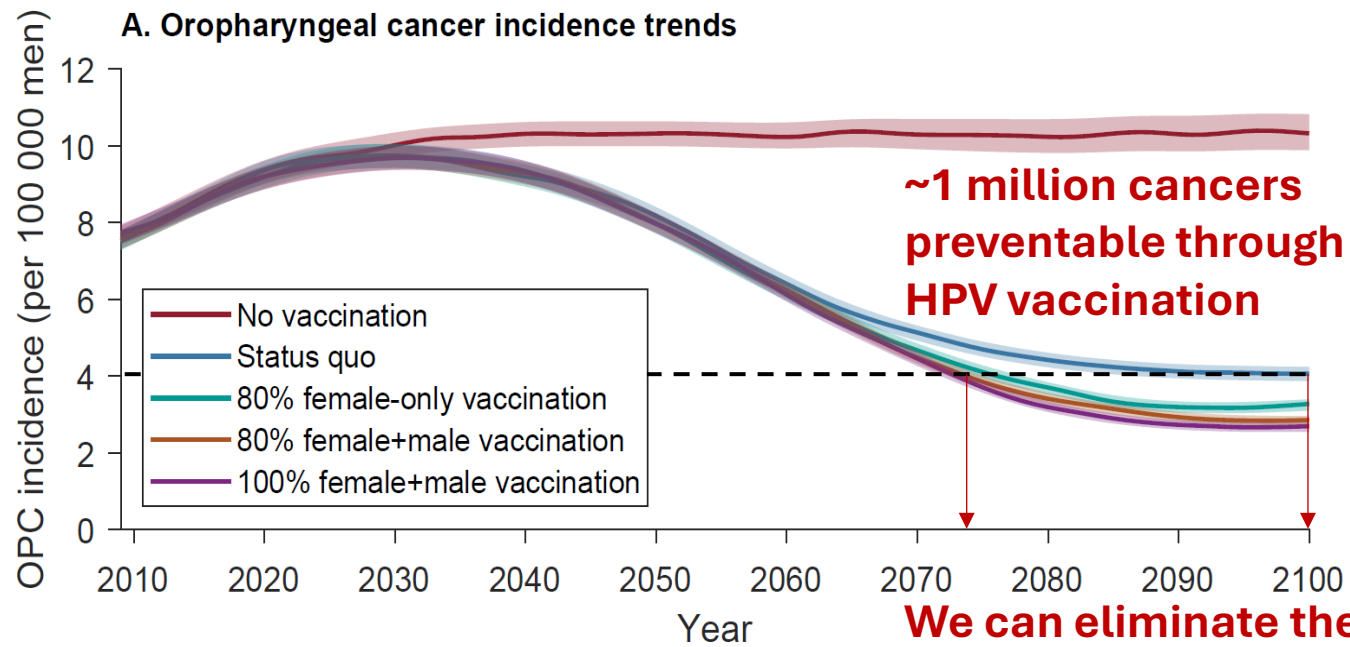


B. Oropharyngeal cancer burden by age

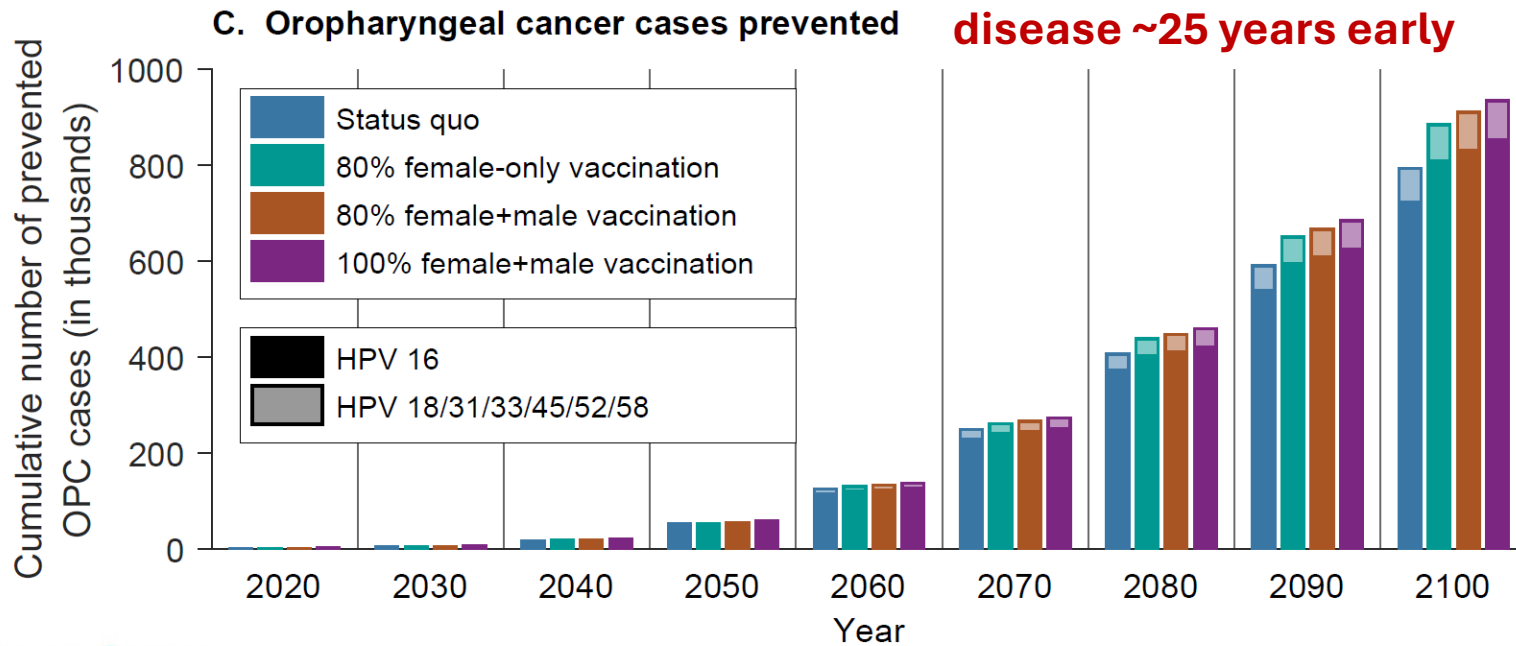


# HPV vaccination prevents oral HPV infection



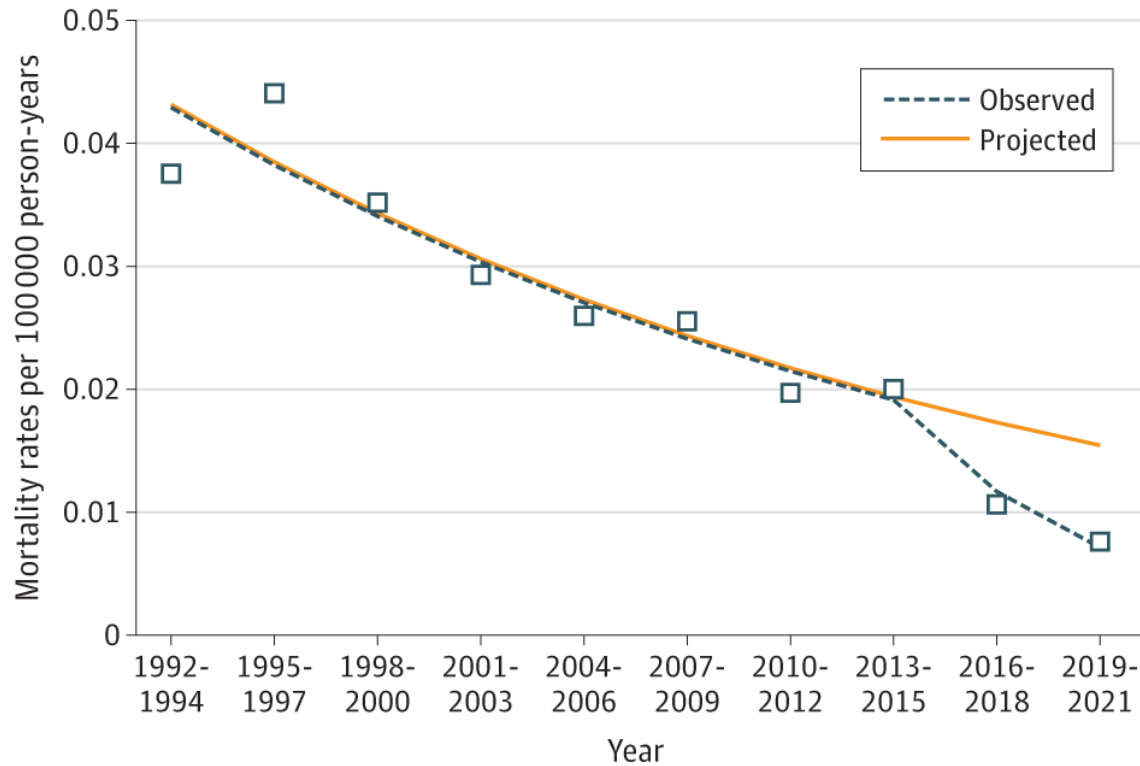


**Achieving Healthy People goal (80% coverage) will eliminate oropharyngeal cancer**

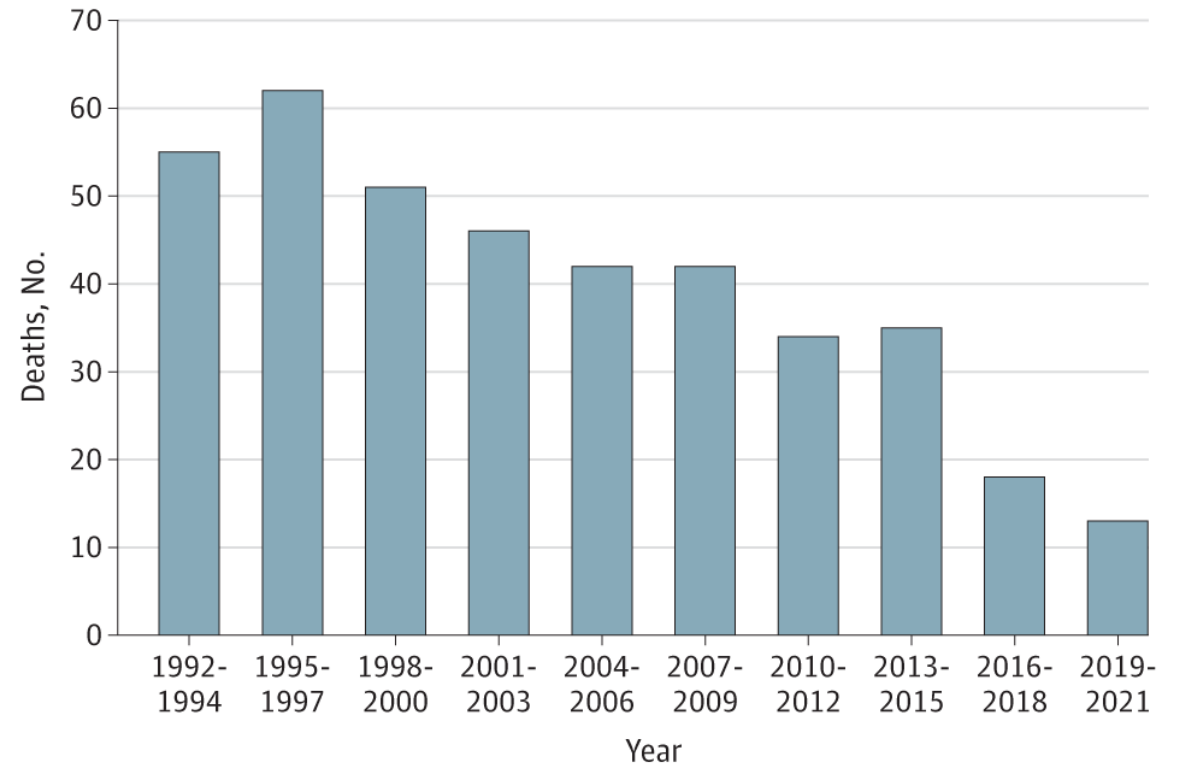


# We can eliminate deaths from HPV-associated cancers: Observed cervical cancer deaths

**A** Cervical cancer mortality rates



**B** No. of cervical cancer deaths



# Recent stagnation/decline in HPV vaccination uptake

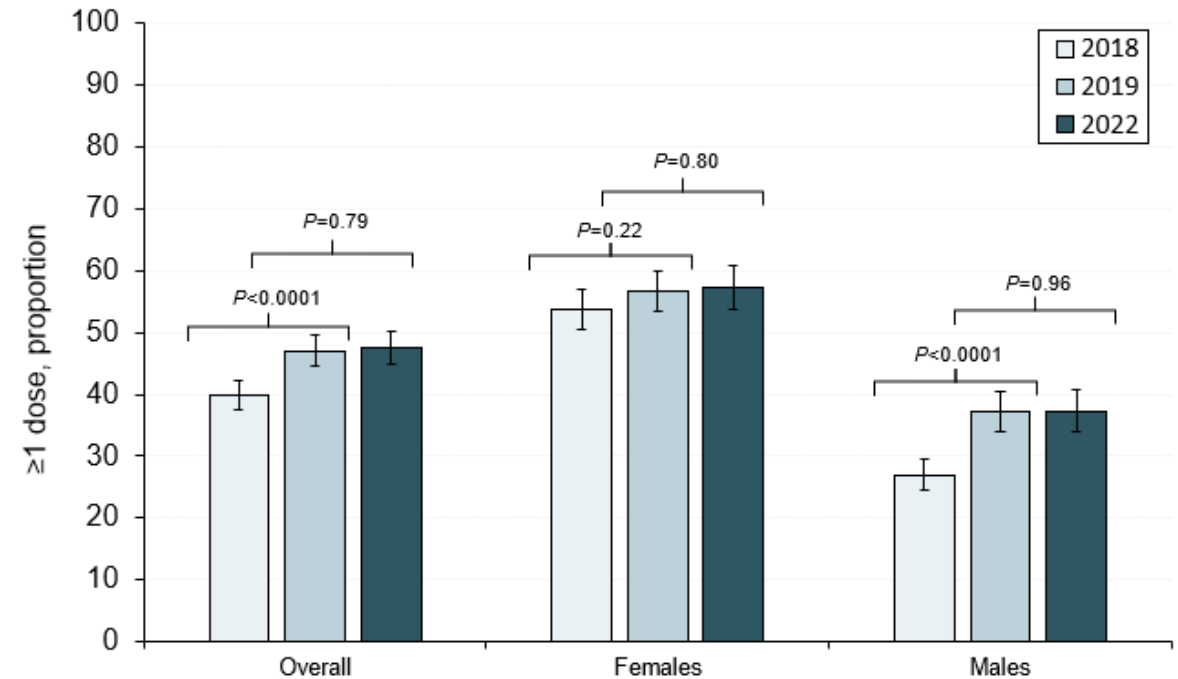
## Vaccination uptake declined among contemporary birth cohorts

Characteristics	Vaccinated by 14 years	
	2007 Born	2008 Born
Non-Hispanic White	56.6 (54.0–59.2)	50.2 (46.9–53.6) <sup>§§§</sup>
At or above poverty level	58.9 (56.5–61.4)	53.0 (50.0–56.1) <sup>§§§</sup>
Privately insured	60.4 (57.3–63.5)	54.6 (50.8–58.5) <sup>§§§</sup>

§§§ Decline was statistically significant



For the first time in 10 years, HPV vaccinations did not increase among teens. Make sure your teen is protected from serious diseases like cancers caused by HPV and up to date on their vaccinations, especially the HPV vaccine: [bit.ly/mm7234a3](https://bit.ly/mm7234a3)

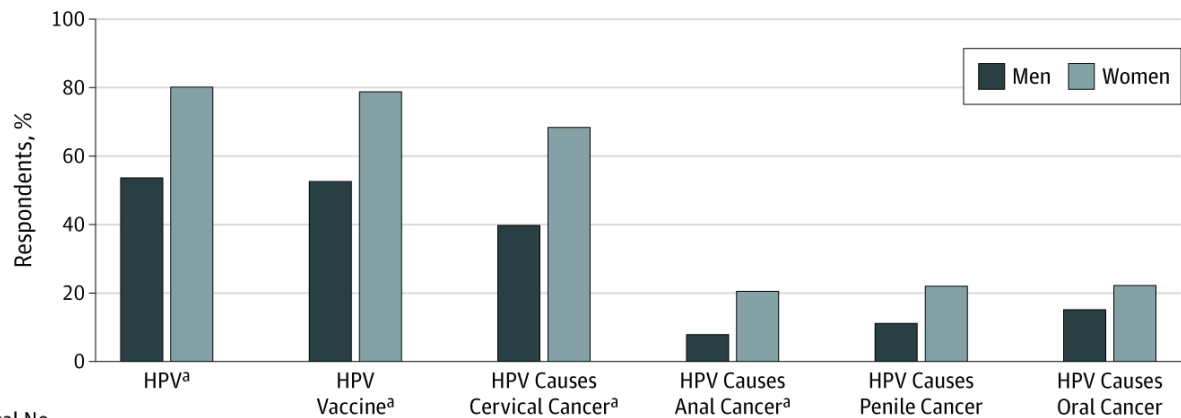


No./Total No.	Overall	Females	Males
<b>2018</b>			
Unweighted	938/2291	632/1162	306/1129
Weighted	13512903/33827984	8806541/16424959	4706362/17403025
<b>2019</b>			
Unweighted	1282/2710	801/1420	481/1290
Weighted	16157477/34411133	9779204/17269650	6378272/17141483
<b>2022</b>			
Unweighted	1053/2158	651/1119	402/1039
Weighted	15931291/33628124	9719907/16988389	6211384/16639735

# What are the barriers?

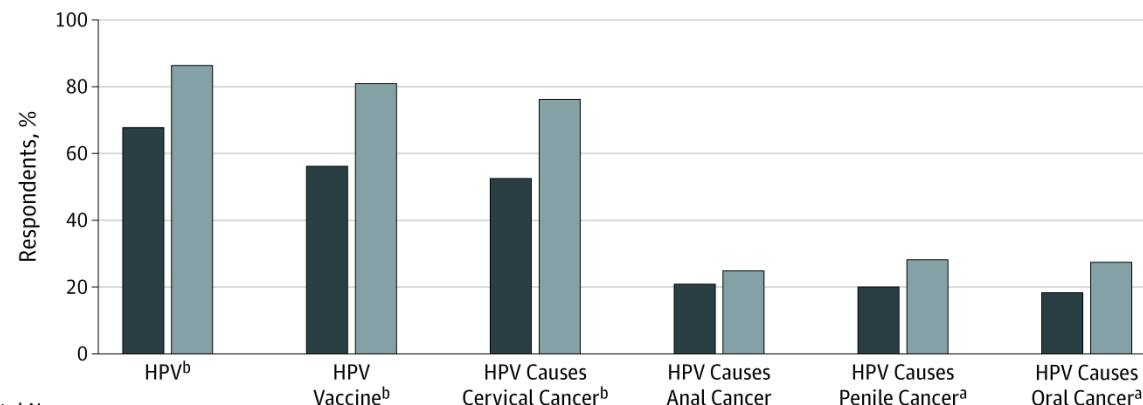
## Lack of public knowledge

**A** Vaccine-eligible individuals (age 18-26 y)



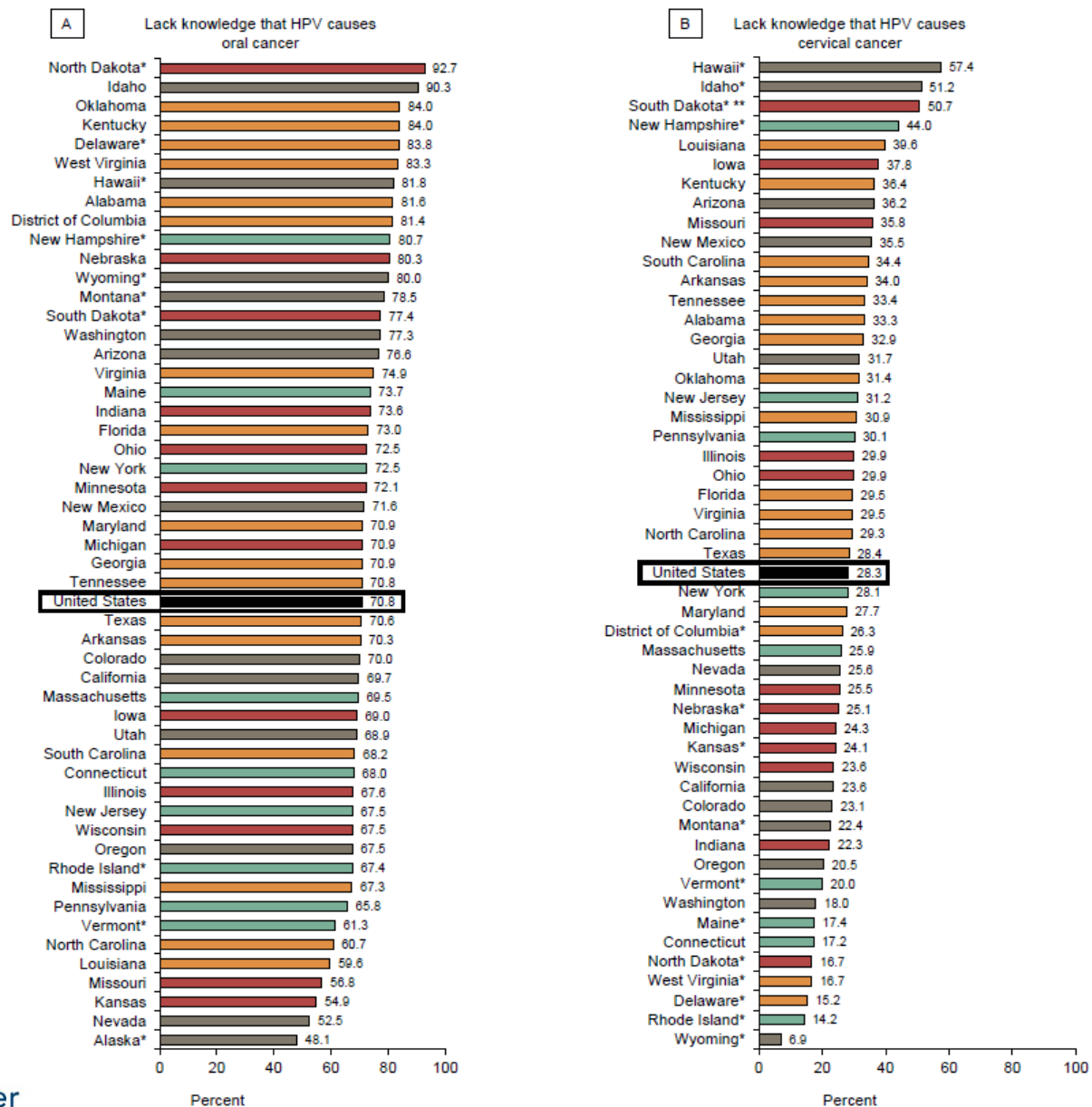
No./Total No.	HPV <sup>a</sup>	HPV Vaccine <sup>a</sup>	HPV Causes Cervical Cancer <sup>a</sup>	HPV Causes Anal Cancer <sup>a</sup>	HPV Causes Penile Cancer	HPV Causes Oral Cancer
<b>Men</b>						
Unweighted	62/92	55/99	45/91	13/90	18/90	17/89
Weighted	7 537 449/ 14 054 283	6 923 199/ 13 147 278	5 525 062/ 13 830 963	1 055 955/ 13 578 422	1 488 568/ 13 578 422	2 066 589/ 13 477 919
<b>Women</b>						
Unweighted	140/172	141/172	117/166	32/166	35/166	35/165
Weighted	11 191 080/ 13 939 509	11 014 678/ 13 939 509	8 777 038/ 12 825 379	2 690 418/ 13 086 511	2 909 161/ 13 098 336	2 929 853/ 13 076 804

**B** Newly approved individuals (age 27-45 y)



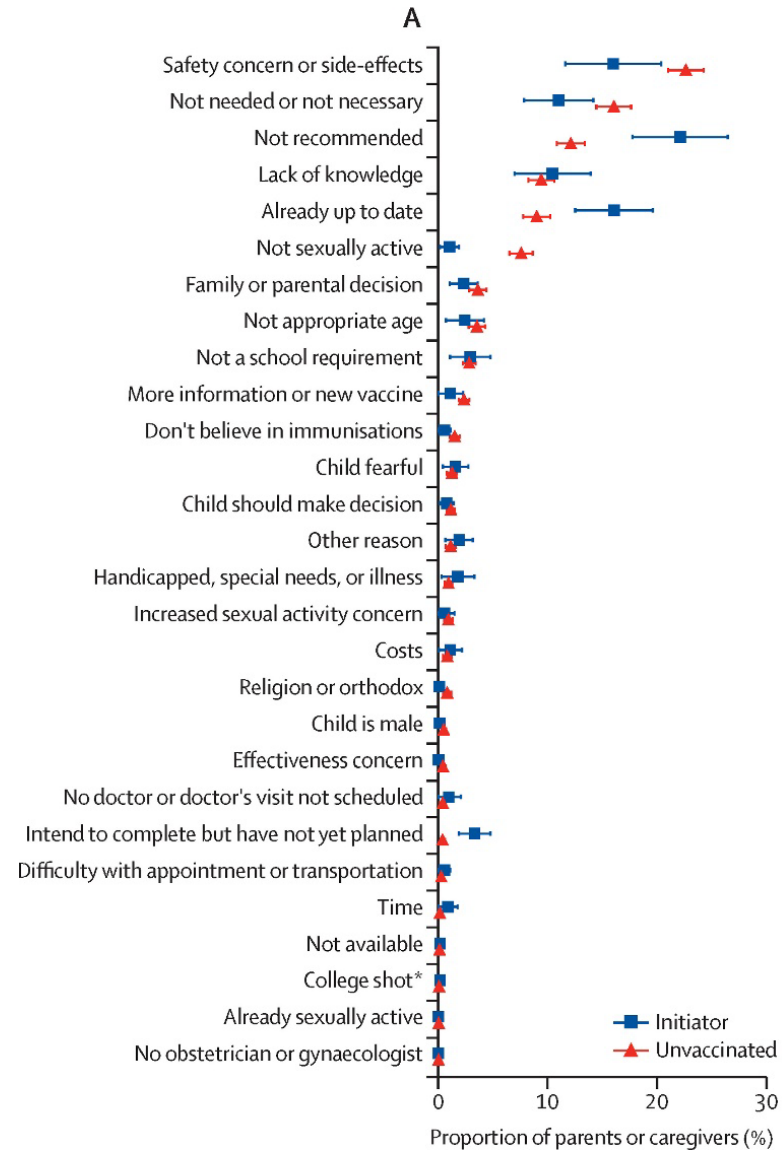
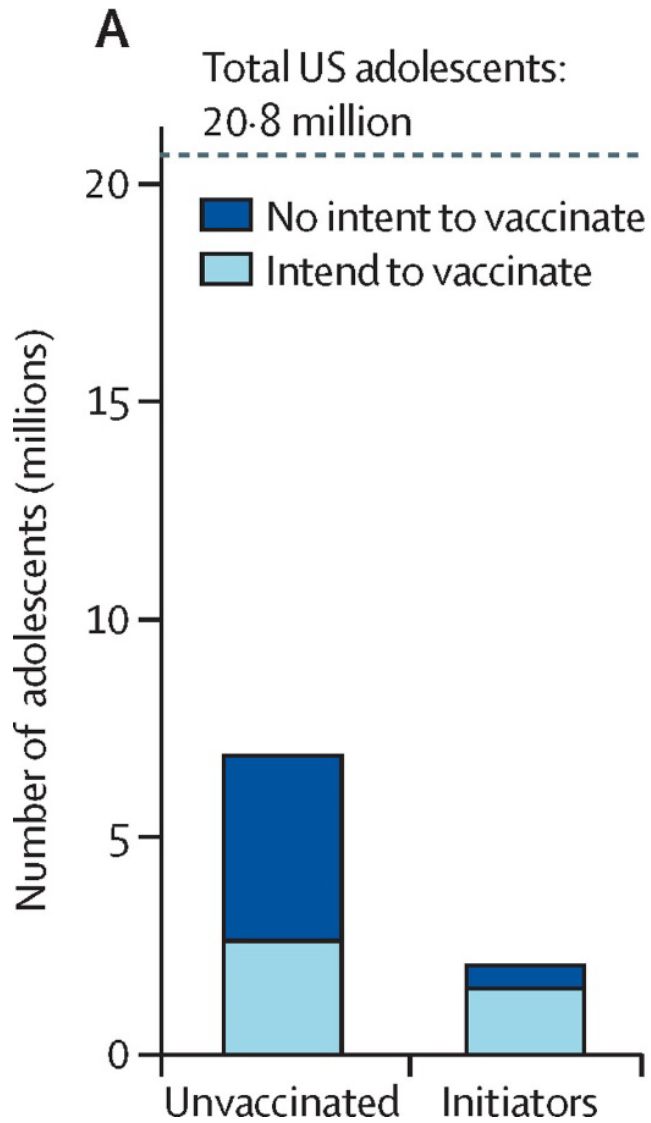
No./Total No.	HPV <sup>b</sup>	HPV Vaccine <sup>b</sup>	HPV Causes Cervical Cancer <sup>b</sup>	HPV Causes Anal Cancer	HPV Causes Penile Cancer <sup>a</sup>	HPV Causes Oral Cancer <sup>a</sup>
<b>Men</b>						
Unweighted	367/521	306/518	284/505	101/499	109/499	109/500
Weighted	22 983 938/ 33 948 072	18 968 608/ 33 817 099	17 205 160/ 32 701 202	6 638 328/ 32 194 756	6 273 512/ 32 240 742	5 954 163/ 32 530 790
<b>Women</b>						
Unweighted	747/858	713/857	657/837	205/830	236/829	233/827
Weighted	29 680 470/ 34 365 219	27 817 047/ 34 354 218	25 220 243/ 33 157 708	8 116 048/ 32 790 410	9 183 071/ 32 781 343	8 880 320/ 32 699 773

# What are the barriers?



**Lack of public knowledge: More prevalent in states with low vaccination coverage**

# What are the barriers?

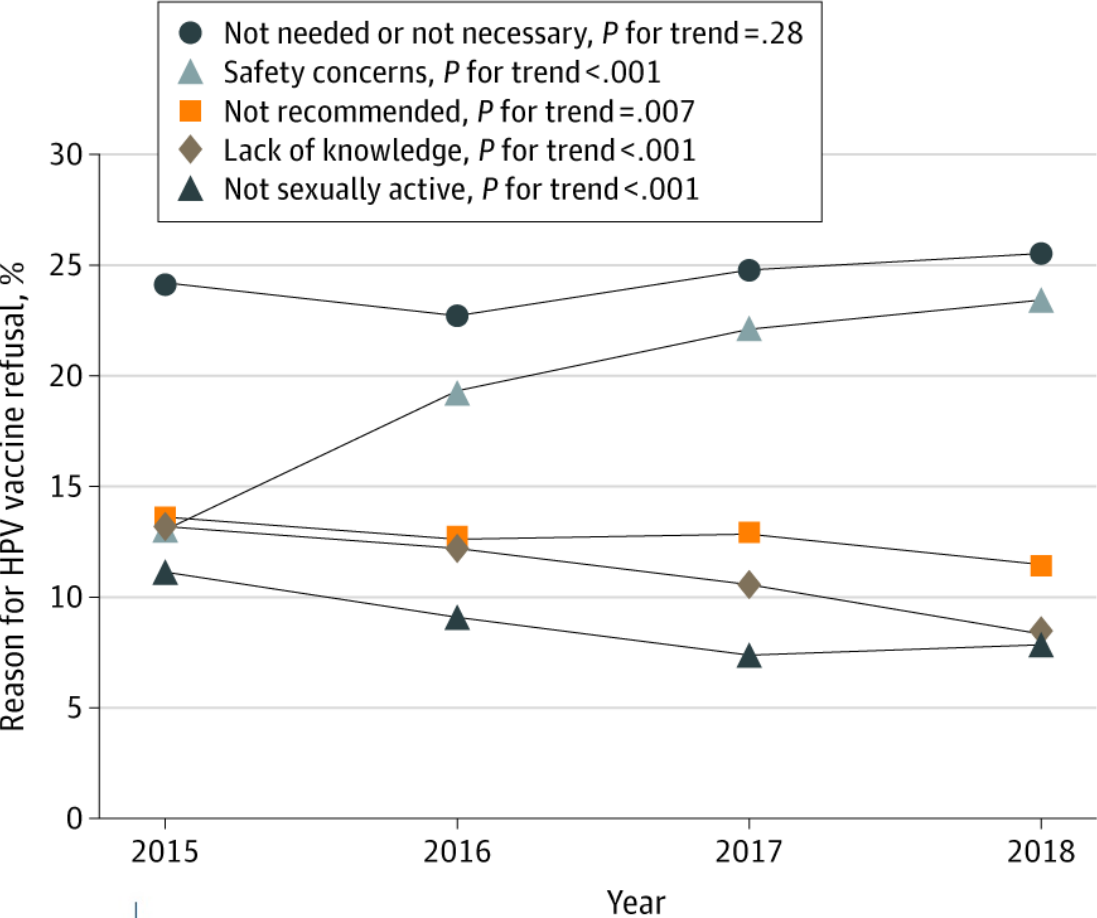


**Vaccine hesitancy is prevalent**

# What are the barriers?

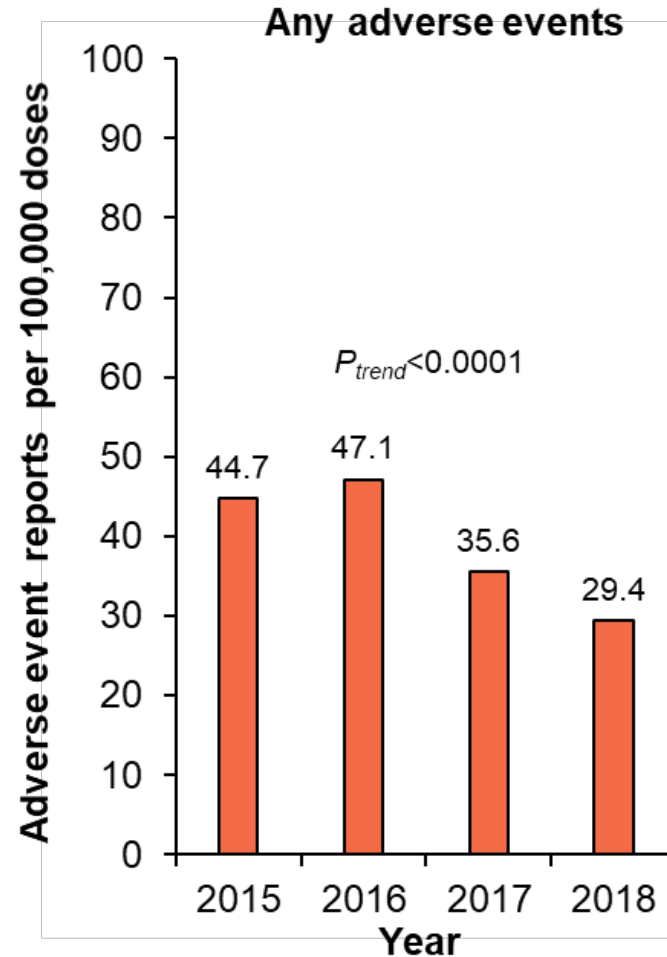
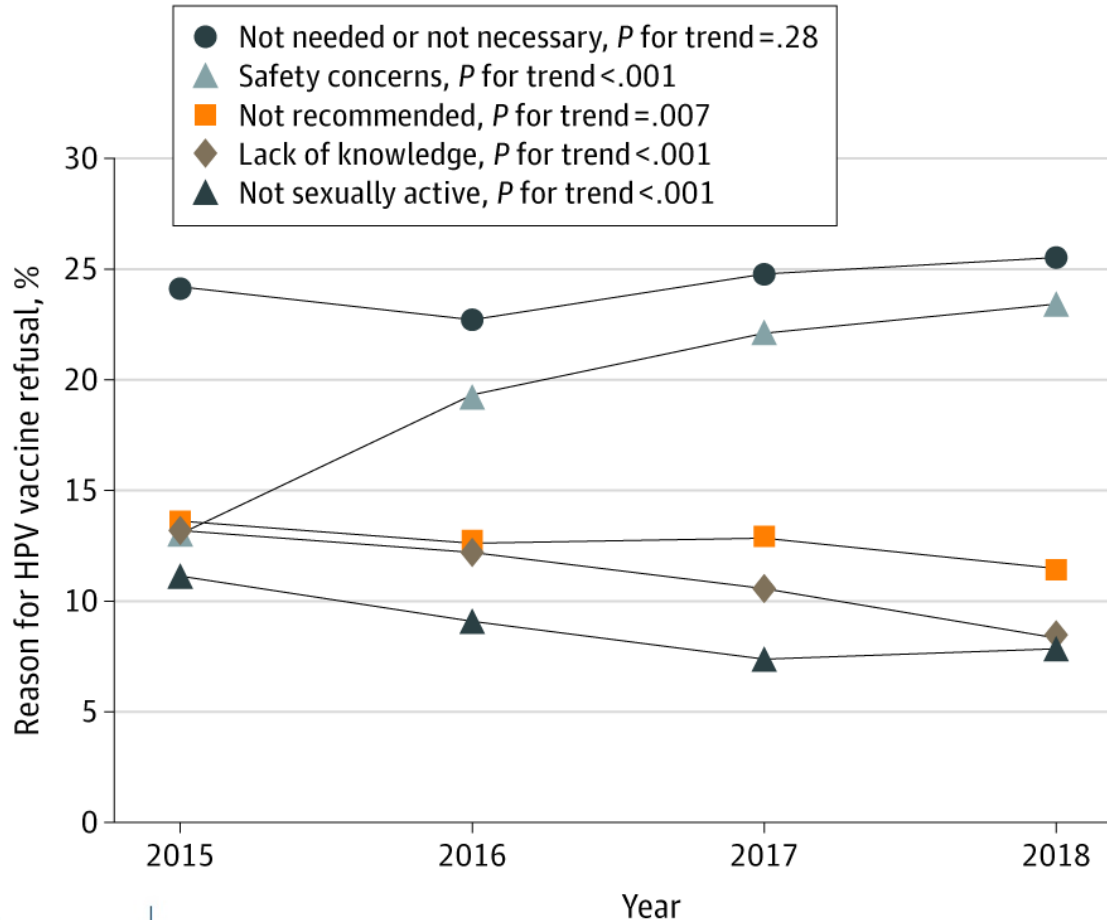
**Vaccine hesitancy is prevalent and rising**

**A** Change in top 5 reasons for HPV vaccine hesitancy by percentage



# What are the barriers?

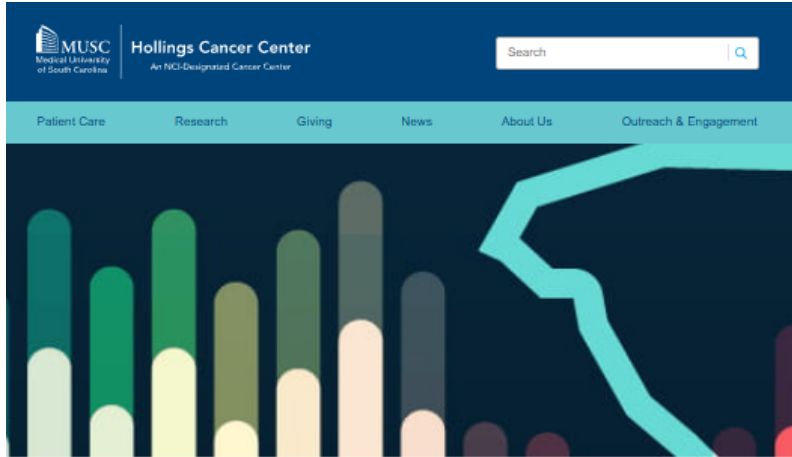
**A** Change in top 5 reasons for HPV vaccine hesitancy by percentage



**Vaccine hesitancy is prevalent and rising**

**Is the rise justifiable?**

# Locating communities that are falling behind



Hollings > Outreach & Engagement > Cancer Data Tool

## South Carolina Cancer Surveillance for Population Health Research and Outreach Tool

The South Carolina Cancer Surveillance for Population Health Research and Outreach Tool (SC SPOT) provides cancer-relevant data for all 46 counties in the state. Our goal is to share usable, understandable, and accessible data in order to foster research collaboration, empower communities, and advance health equity.

Beyond visualization of cancer cases and deaths, we explore social determinants of health across South Carolina communities and illustrate the distribution of risk factors, health care access, and population sociodemographics.

Join us on this journey of education, advocacy, and action as we work together towards improving cancer outcomes in South Carolina. For questions or feedback, please email us at [sonawane@musc.edu](mailto:sonawane@musc.edu). A detailed description of the methodology and data sources can be found in the [SC SPOT methodology document](#).



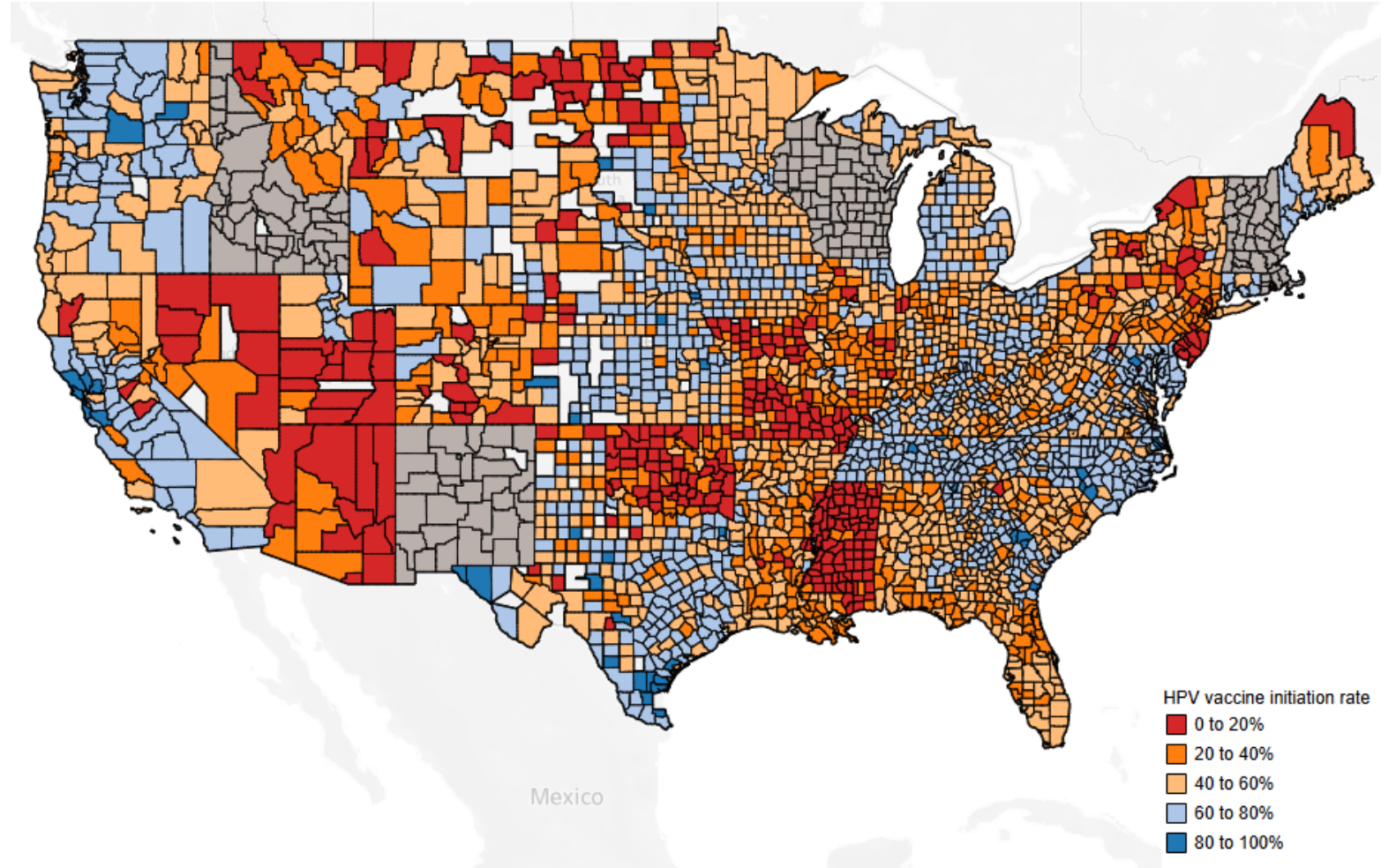
SC SPOT was recognized at the 2023 Catchment Area Data Conference.



### SC SPOT

This video provides an overview of the data available on the SC SPOT website and tips for navigating through the dashboards.

Explore interactive South Carolina cancer data dashboards



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## Acknowledgements

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# Carlton Allen, MS

**SPEAKER**

Program Manager for Prevention  
Cancer Prevention & Research  
Institute of Texas

[stjude.org/hpv](http://stjude.org/hpv) • #EndHPVCancers





CANCER PREVENTION & RESEARCH  
INSTITUTE OF TEXAS

★ Closing the HPV Vaccine Gap: Preventing HPV  
Cancers in Boys and Men in Texas ★  
A Lone Star State Perspective

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



# Learning Objectives

---



Discuss the burden of HPV-related cancers in men and the role of the HPV vaccine in prevention in Texas.



Discuss strategies from the 2024 Texas Cancer Plan, which includes specific objectives to increase HPV vaccination rates in our state.



Highlight ongoing efforts in Texas to increase vaccination rates among males.





# Burden

---

In Texas, the average age-adjusted incidence rate for all HPV-associated cancers is 12.4 per 100,000 people.

% of males aged 13-17 who initiate the HPV vaccination series – 63%

% of males aged 13-17 who are up-to-date with HPV vaccination series – 53.7%

Texas Cancer Registry ([www.dshs.texas.gov/tcr](http://www.dshs.texas.gov/tcr)) SEER\*Stat Database, 1995-2020 Incidence, Texas statewide, 2022 Submission, cutoff 11/07/2022. Texas Department of State Health Services, Cancer Epidemiology and Surveillance Branch, created February 2023.





## Integration with the 2024 Texas Cancer Plan (TCP)

---

- Goals from the [Texas Cancer Plan](#) that align with HPV prevention:
  - Goal 5: Eliminate cervical cancer and other cancers associated with the human papillomavirus (HPV) in Texas by increasing HPV vaccinations.
- How does the Texas Cancer Plan support HPV vaccination as a cancer prevention strategy?





## How We Can Use the Plan to Close the Gap

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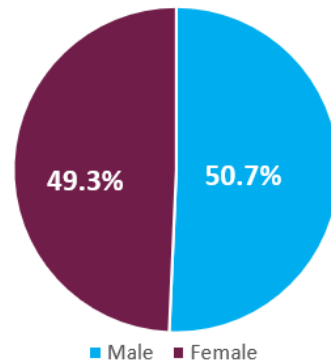
- Understand the Plan
- Engage and Collaborate
- Advocate for Key Initiatives
- Monitor and Adapt



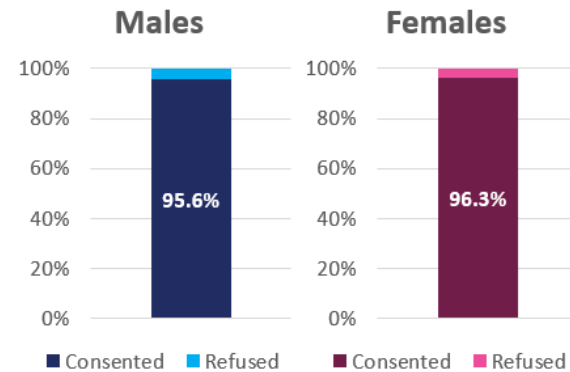
## All for Them Program Reach and Impact by Gender

- 1) Social marketing and education for parents and teens (bilingual English/Spanish)
- 2) Comprehensive school-based vaccination clinics
- 3) School nurse training on HPV vaccination

Between 2017-2025, implemented in over 90 middle and high schools across six Texas school districts.



**Figure 1.** HPV vaccines administered (n=5,572) by gender (subsample of students whose individual data were collected)



**Figure 2.** Parental HPV vaccine acceptance rates by gender (of students who needed a dose of HPV vaccine)



[www.allforthemvaccines.com](http://www.allforthemvaccines.com)



Now what???

---

## So, what can we do to close the HPV vaccine gap

Keep making clear recommendation for HPV, along with other vaccinations in boys and children

Educate parents about the importance of HPV vaccination

Support policies that improve access to vaccines





CANCER PREVENTION & RESEARCH  
INSTITUTE OF TEXAS

★ Contact Me ★

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# Facilitated Discussion



**Jason Mendelsohn**  
*Oral Cancer Survivor*  
*Founder, SupermanHPV*



**Staci Sudenga, PhD**  
*Assistant Professor of*  
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*University Medical Center*



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*Professor, Public Health*  
*Sciences, Hollings Cancer*  
*Center*



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

# Closing Remarks

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



# Seminar Evaluation, March 6

Thank you for joining us! Please take a moment to complete the evaluation for today's seminar.



# Upcoming HPV Awareness Day Seminars

Register at  
[stjude.org/HAD2025](https://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](mailto:PreventHPV@stjude.org)  
[stjude.org/HAD2025](https://stjude.org/HAD2025)



## 2025 HPV AWARENESS DAY SEMINAR SERIES

### Harvesting Best Practices to Prevent Rural HPV Cancers

March 7, 2025  
12:00 - 1:15 PM CST  
Virtual | Webex

*Rural life is a choice made by 1 in 5 people, but they do not choose to be at higher risk of cancers, including HPV cancers. HPV vaccination is cancer prevention. This virtual seminar will explore progress to prevent HPV cancers with rural communities in the U.S.*

## Seminar Moderator



**Ashley Lach, MHA**  
Program Manager  
HPV Disparities, American Cancer Society

## Seminar Speakers



**Gabriel A. Benavidez, PhD**  
Assistant Professor of Epidemiology  
Baylor University, Department of Public Health



**Cam Escoffery, PhD**  
Professor  
Dept of Behavioral, Social and Health Education Sciences,  
Rollins School of Public Health, Emory University



**Jason Semprini, PhD**  
Assistant Professor  
Des Moines University, Department of Public Health

REGISTER NOW

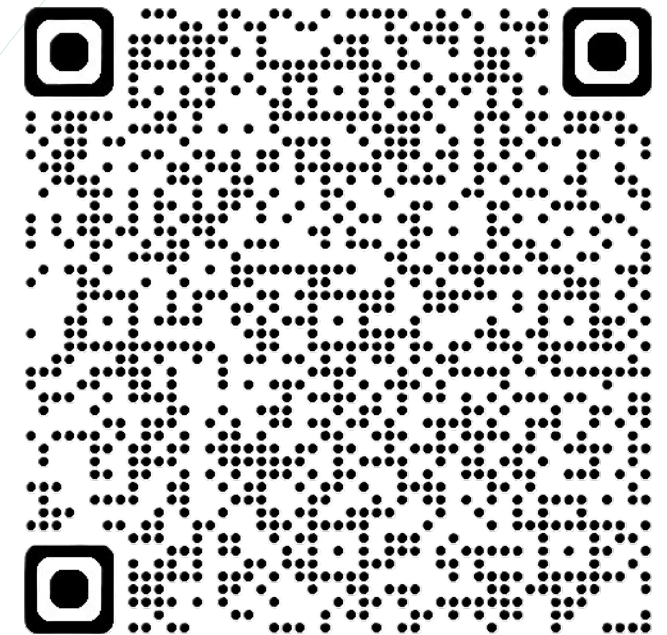
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Scan to register

If you have questions, please email [PreventHPV@stjude.org](mailto:PreventHPV@stjude.org)  
[stjude.org/HAD2025](https://stjude.org/HAD2025)

# One Less Worry Campaign 2025



**Thank you for joining  
us today!**

Email [PreventHPV@stjude.org](mailto:PreventHPV@stjude.org) with any  
questions!

[stjude.org/hpv](https://stjude.org/hpv) · #EndHPVcancers

