



# HPV Vaccinations: A Community Health Worker's Role ECHO Series

## Session 2: HPV 101

Wednesday, August 16, 2023

12-1:15pm PST



# ECHO Disclosures



Each ECHO session will be recorded and will be posted to a publicly-facing website



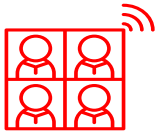
You will be muted with your video turned off when you join the call. Use the buttons in the *black* menu bar to unmute your line and to turn on your video. **If you do not wish to have your image recorded, please turn OFF the video option.**



Today's materials will be made available on the [ACS ECHO website](#)



Please type your full name, the full name of your organization, and e-mail in the chat box



This ECHO session takes place on the Zoom platform. To review Zoom's privacy policy, please visit [zoom.us/privacy](https://zoom.us/privacy)



**Remember: Do NOT share any personal health information (PHI) about any patient. This includes but not limited to patient name, date of birth, address, occupation, name of friends/family, and any other identifiable features (including scars, tattoos, hair/eye color)**

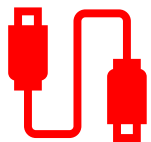


This ECHO is made possible through funding from Merck, for the purpose of Mission: HPV Cancer Free Quality Improvement Initiative.



Need assistance with Zoom? Please directly chat Troy, Allison, or Alyssa for assistance

# Housekeeping Items:



## Show up

Arrive on time, prepared, **camera on** and please unplug from distractions



**Respect other ideas, experiences and opinions**



## Step Up / Step Back

Check your own engagement level



## Use the technology

Mute, unmute, camera on, chat, annotate and answer polls



## Roll with the IT punches

Enjoy watching us model live IT troubleshooting



## Try on new ideas

Give yourself permission to take risks with participating



# Have fun!

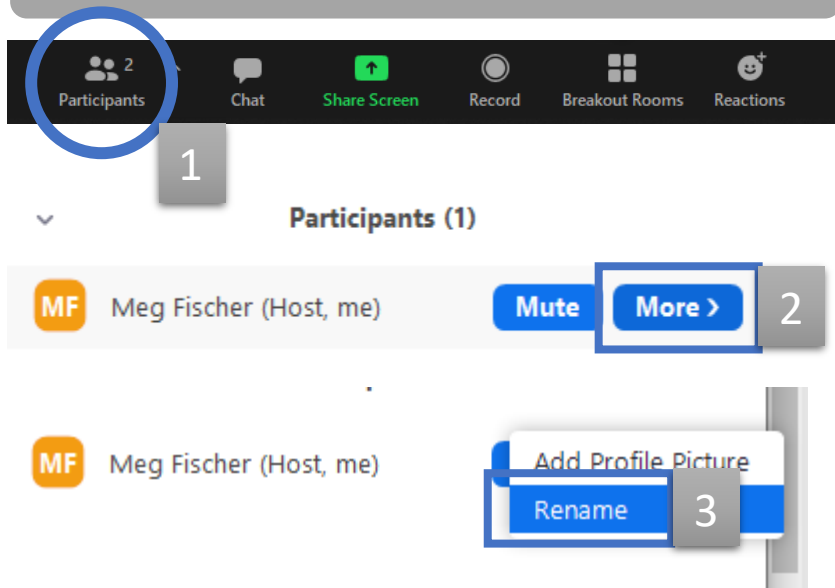
# Zoom Essentials for Training

## Please Rename Yourself

- First, Last Name, Organization

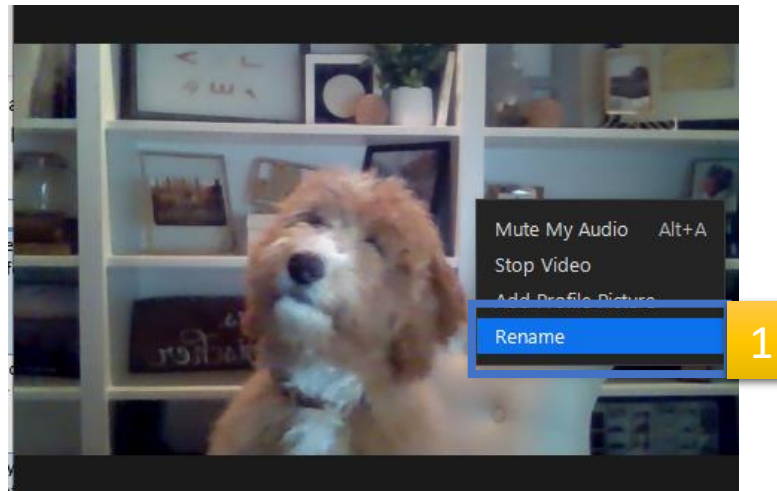


### Option 1



### Option 2

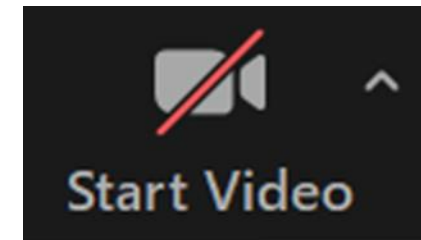
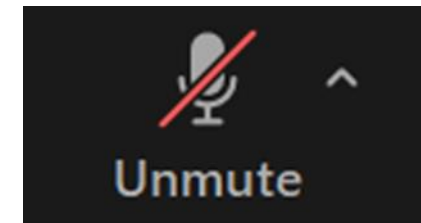
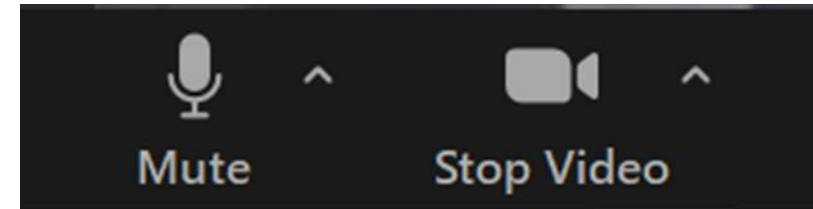
Right-click on your video tile



# Zoom Essentials for Training

## How to Access Your Camera & Microphone

- If you move your mouse around on your screen you should see two options appear **in the bottom left corner: Mute and Video**
- By clicking on the **microphone, you can mute and unmute your audio**
- By clicking on **start video or stop video you can turn your camera on and off**



# Disclosure Policy

As an accredited provider of continuing medical education through the Accreditation Council for Continuing Medical Education (ACCME) the University of Nevada, Reno School of Medicine must ensure balance, independence, objectivity, and scientific rigor in all its educational activities. In order to assure that information is presented in a scientific and objective manner, The University of Nevada, Reno School of Medicine requires that anyone in a position to control or influence the content of an accredited activity disclose all financial relationships within the prior 24 months with any commercial or proprietary entity producing health care goods or services relevant to the content being planned or presented. All relevant financial relationships have been mitigated. Following are those disclosures. Following are those disclosures.

The following presenter has/have disclosed the following relationship with an ineligible entity:

- Ashley Lach, MHA, CPHQ
  - *Grant/Research Support: Merck*
- Allison Rosen, MS
  - *Consultant: Bayer Oncology*
- Sean O'Leary, MD
  - *Merck*

All other presenters, planners, or anyone in a position to control the content of this continuing medical education activity have indicated that neither they nor their spouse/legally recognized domestic partner has any financial relationships with commercial interests related to the content of this activity.



## Introductions

In the chat, please share the following:

- Name
- Organization
- What do you know about the HPV vaccine and hope to learn from today's session?



**CHECK-IN**

**Breakout check-in:** what do you hope to learn from our didactic presenter?





BACK  
TO  
SCHOOL

**Group Photo Time: Grab those back-to-school props!**

# Today's Agenda

- 1 Introductions**  
2 minutes
- 2 Housekeeping & Session Overview**  
5 minutes
- 3 Didactic Presentation**  
20 minutes
- 4 Didactic Q&A**  
5 minutes
- 5 Case Presentations**  
40 minutes
- 6 Closing remarks, Wrap-Up & Post-Session Survey Poll**  
3 minutes

# Learning Objectives



**1**

Participants will understand HPV infection burden

**2**

Participants will learn HPV vaccination guidelines

**3**

Participants will understand the importance of HPV vaccination as cancer prevention

# Session 2:

## HPV 101



**Dr. Vanessa Slots**

*Pediatrician, M Health Fairview  
Immediate Past President, Nevada Chapter of  
American Academy of Pediatrics*

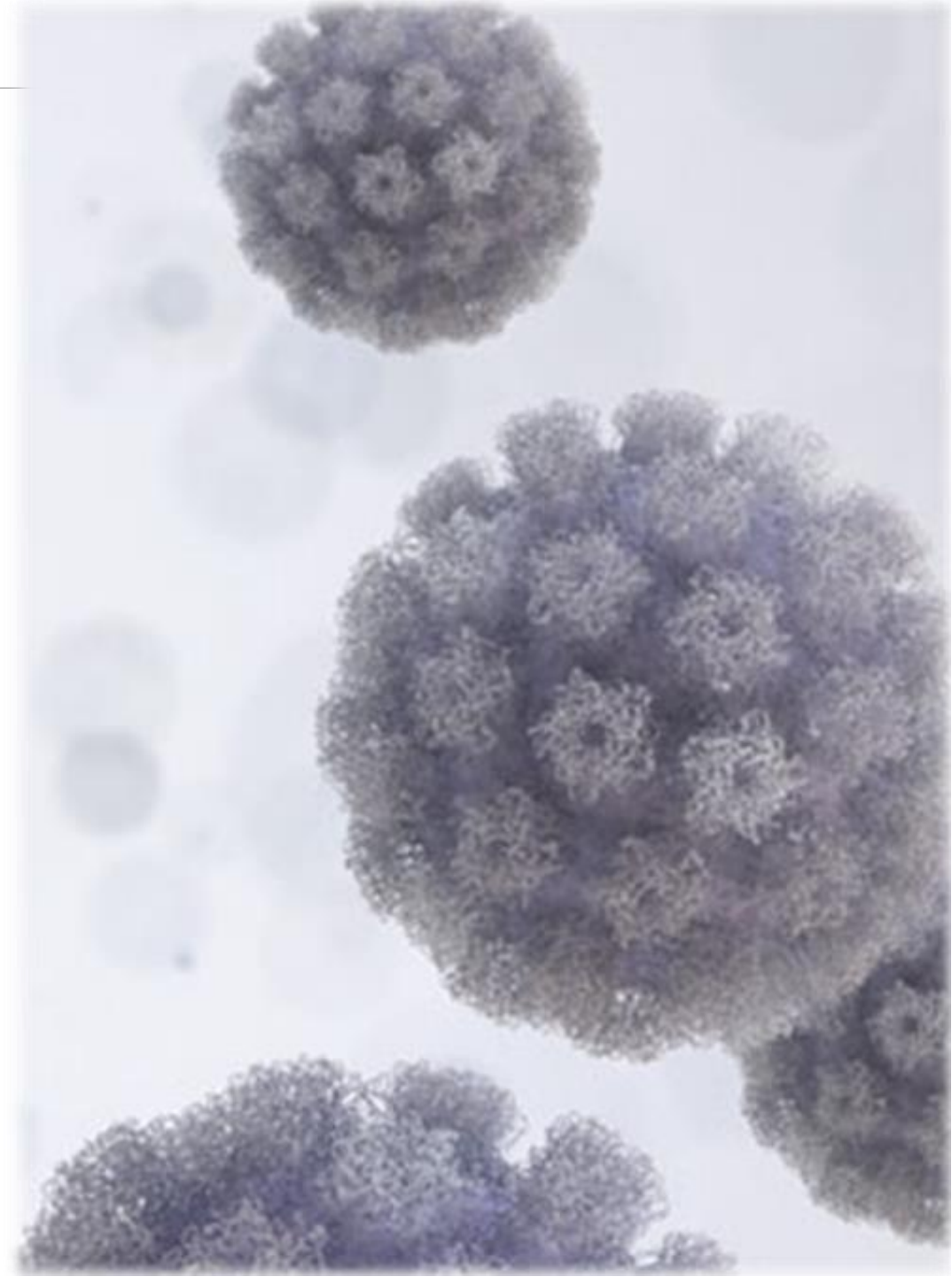


# HPV Prevalence & Impact

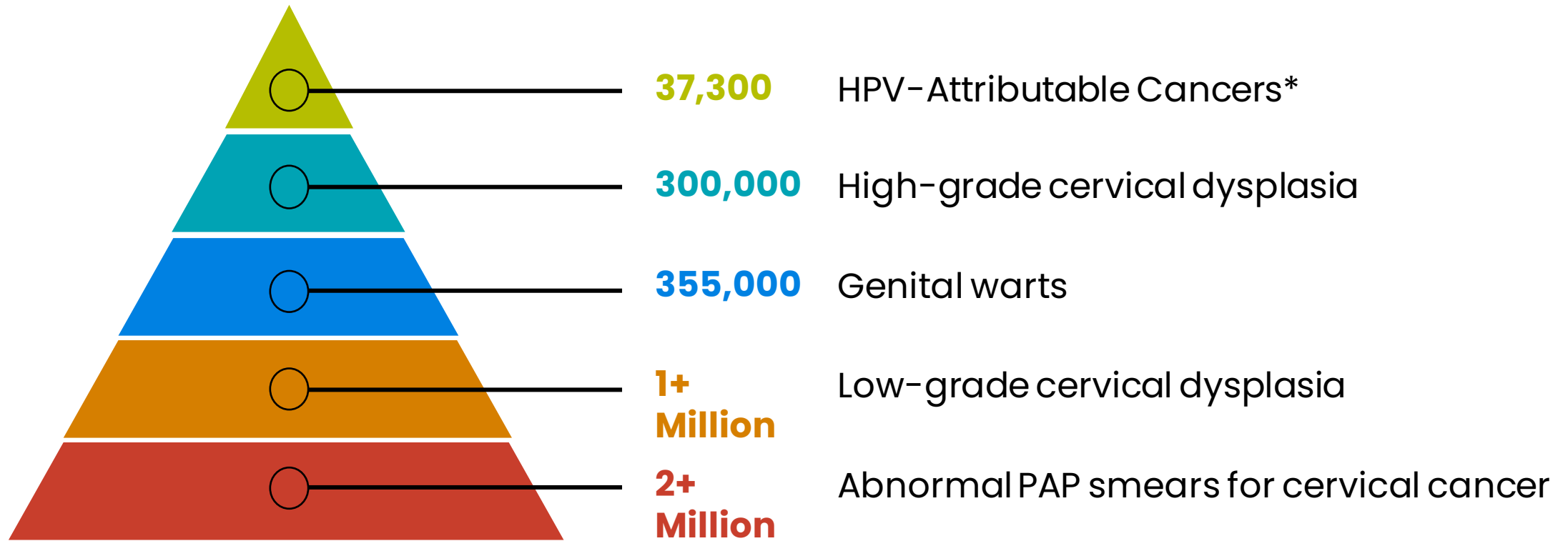
# What is HPV?

## Human Papillomavirus

- >150 types of HPV
- About 15 types of HPV can cause cancer
- HPV is VERY common



# HPV Multiple Impacts on Population Health



\* Source: <https://www.cdc.gov/cancer/hpv/statistics/cases.htm>

NOTE: Data are from population-based cancer registries participating in CDC's National Program of Cancer Registries (NPCR) and/or the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program for 2014 to 2018, covering 98% of the U.S. population.



# Why Focus on HPV?

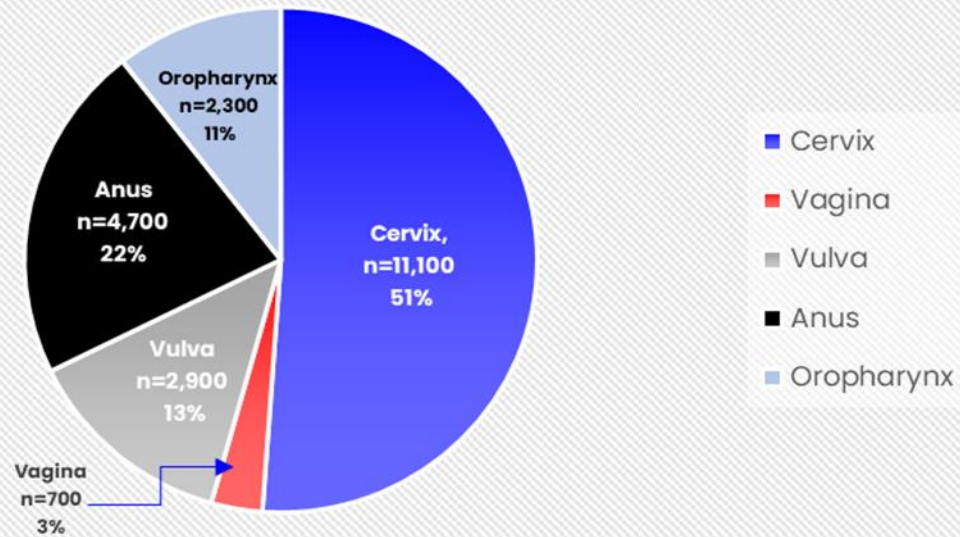
- 1 **HPV can cause 6 types of cancer.**
- 2 **We have a vaccine that prevents HPV-related cancers.**
- 3 **We need to vaccinate more kids.**
- 4 **Success is achievable.**



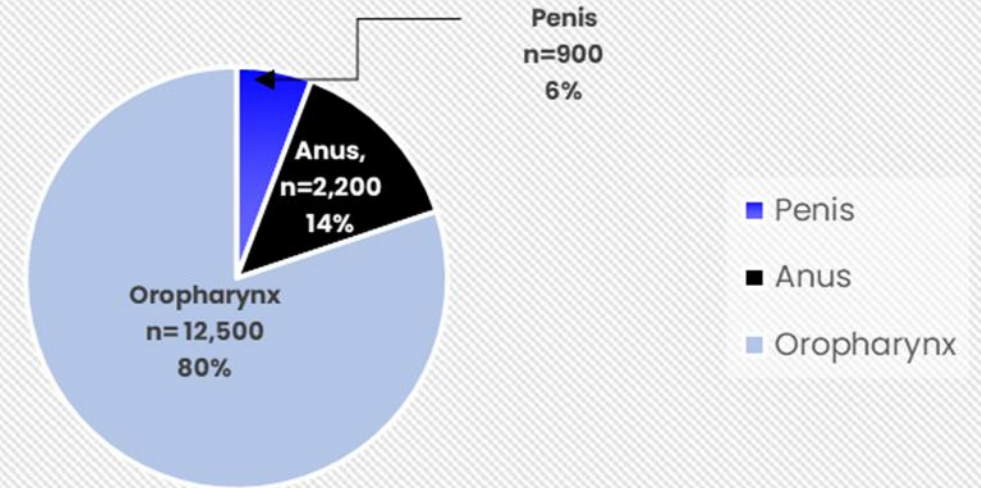


# U.S. HPV-Attributable Cancer Cases: 37,300

## Female HPV-Attributed Cancer Cases Per Year

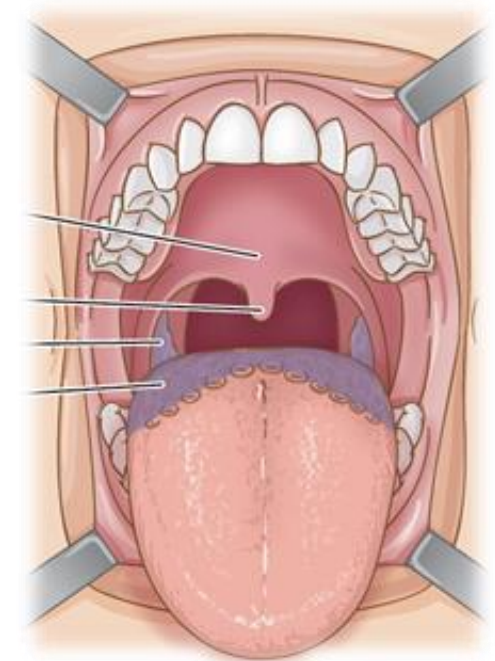
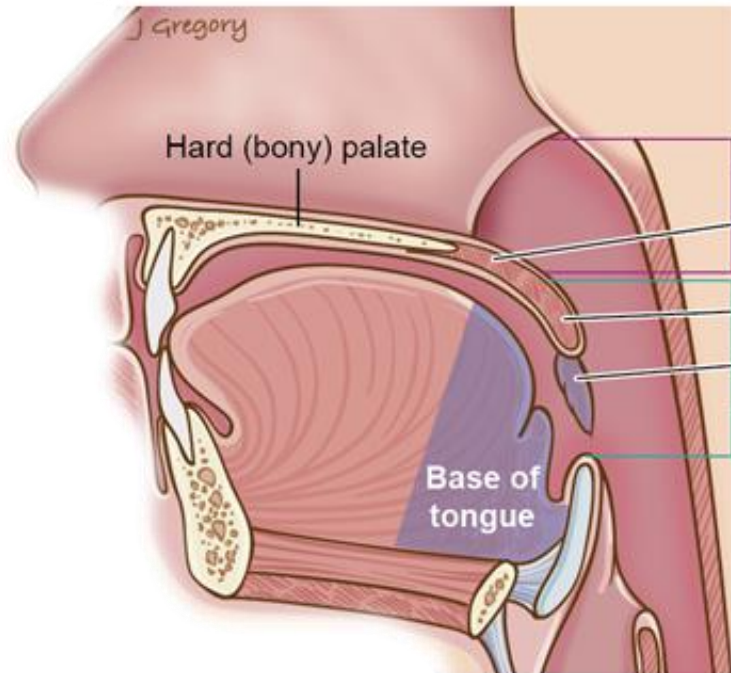


## Male HPV-Attributed Cancer Cases Per Year



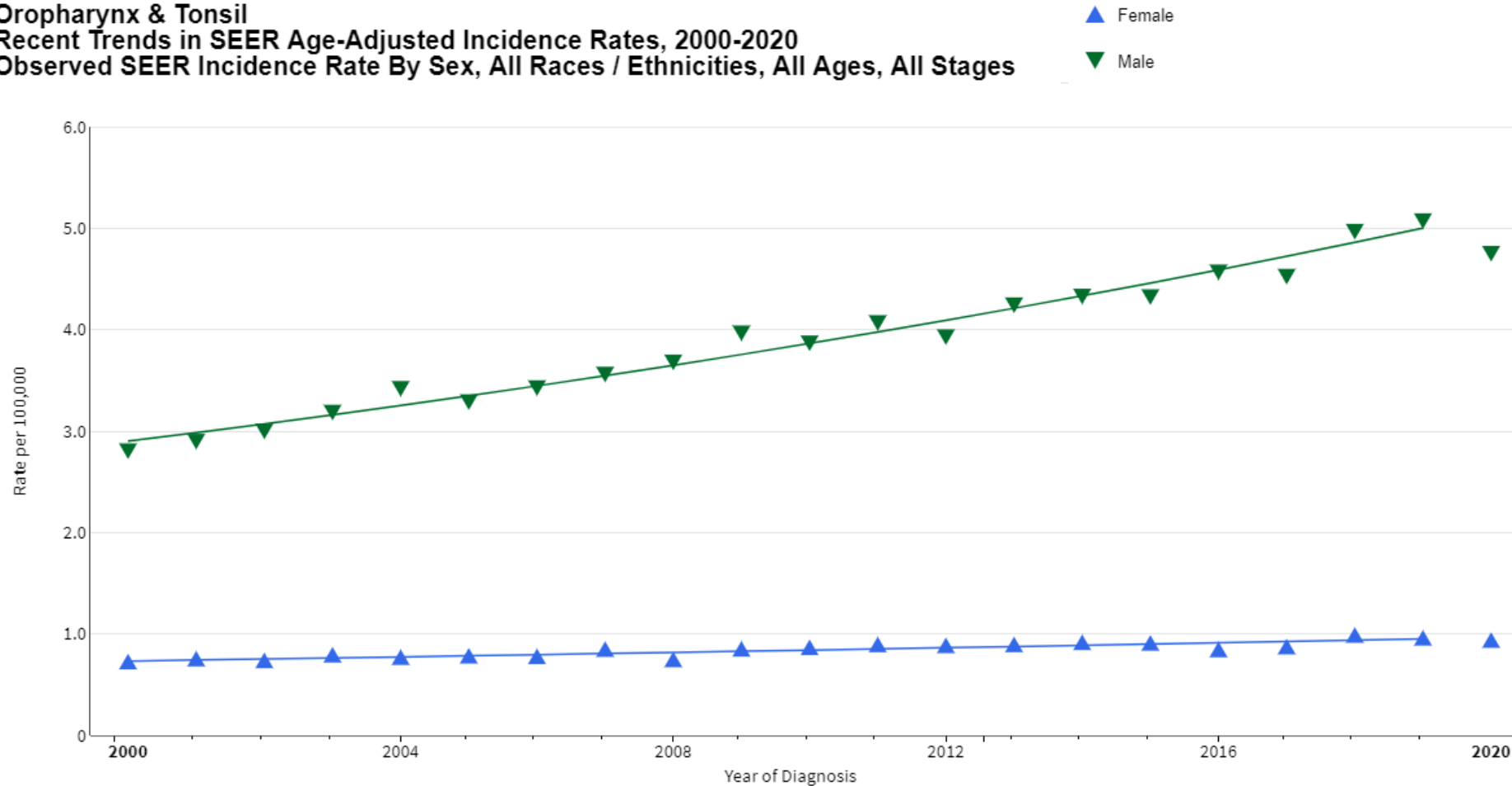
# HPV-Related Oropharyngeal Cancer

- Has surpassed cervical cancer as the **most common HPV-related cancer**
- HPV-related oropharyngeal cancers have more than doubled in the past three decades
- Rise in incidence and changing patient demographics due to HPV
- **No screening test**
  - No endpoint in clinical trials
  - Late-stage diagnosis



# Incidence rates are rising for oropharyngeal cancers especially among men.

Oropharynx & Tonsil  
Recent Trends in SEER Age-Adjusted Incidence Rates, 2000-2020  
Observed SEER Incidence Rate By Sex, All Races / Ethnicities, All Ages, All Stages



SOURCE: <https://seer.cancer.gov/statistics-network/explorer>



# HPV Vaccination is Cancer Prevention

**We need to focus on prevention.**

| CANCER   | ROUTINE SCREENING |
|----------|-------------------|
| Cervical | Yes               |
| Anal     | No                |
| Penile   | No                |
| Throat   | No                |
| Vaginal  | No                |
| Vulvar   | No                |



# HPV Vaccination Guidelines



There are  
**111,000**  
10–14-year-olds in  
Nevada.



In 2022, only

**38%**

of NV 9–13-year-olds  
were up to date on  
their HPV vaccination.



Two shots of the  
HPV vaccine  
help **prevent**  
**six types of**  
**cancer.**





**We want to PROTECT  
kids today**

from developing HPV infections,  
pre-cancers, and cancers in  
the future!

# HPV VACCINATION GUIDELINES

- Vaccinate both boys and girls
- ON TIME= ages 9 - 12
- LATE= ages 13 to 26
  - *Individuals ages 22 to 26 who were not previously vaccinated should be informed that vaccination at older ages is less effective in lowering cancer risk*



# Benefits of vaccinating at age 9-10

## Public Health Perspective

---

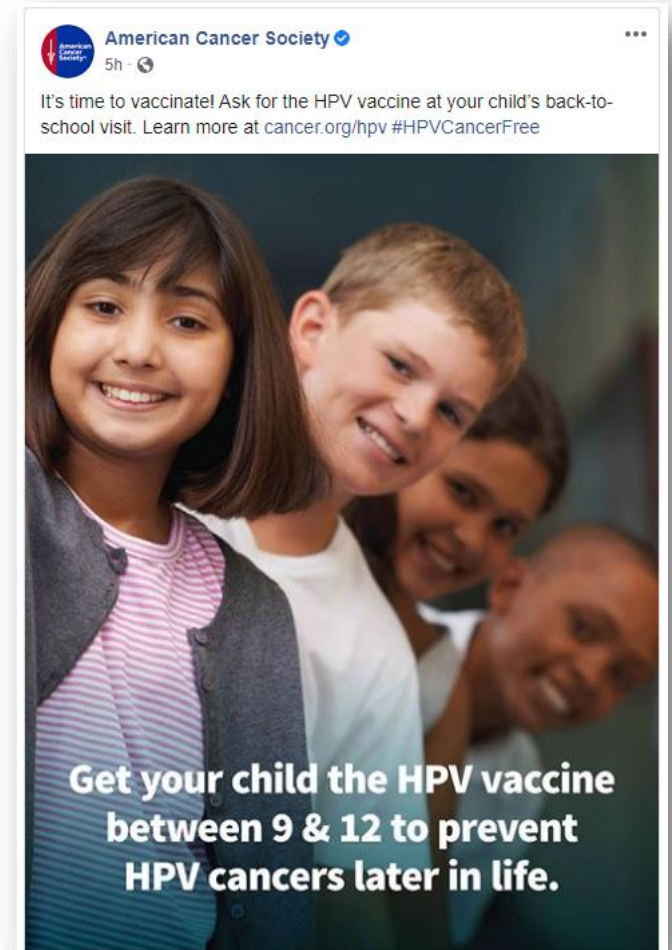
- Earlier initiation of HPV vaccination
- Offers more time for completion of the series
- Increases the likelihood of vaccinating prior to first HPV exposure
- Decreases the need to discuss sexual activity
- Decreases requests for only vaccines that are “required”
- Has been shown by several systems to increase vaccination rates
- Has been shown to be acceptable to systems & providers



# Benefits of vaccinating at age 9-10

## Parent/Patient Perspective

- Decreases the need to discuss sexual activity
- Decreases the number of shots given in a single visit
- Has been shown to be acceptable to parents



# WHAT ABOUT ADULTS?

The American Cancer Society does not recommend HPV vaccination for adults older than 26 years.





# Truth:

The HPV vaccine is effective at preventing cancer.





# New Evidence:

Data from women ages 20 to 24 who were first to receive the HPV vaccine showed a

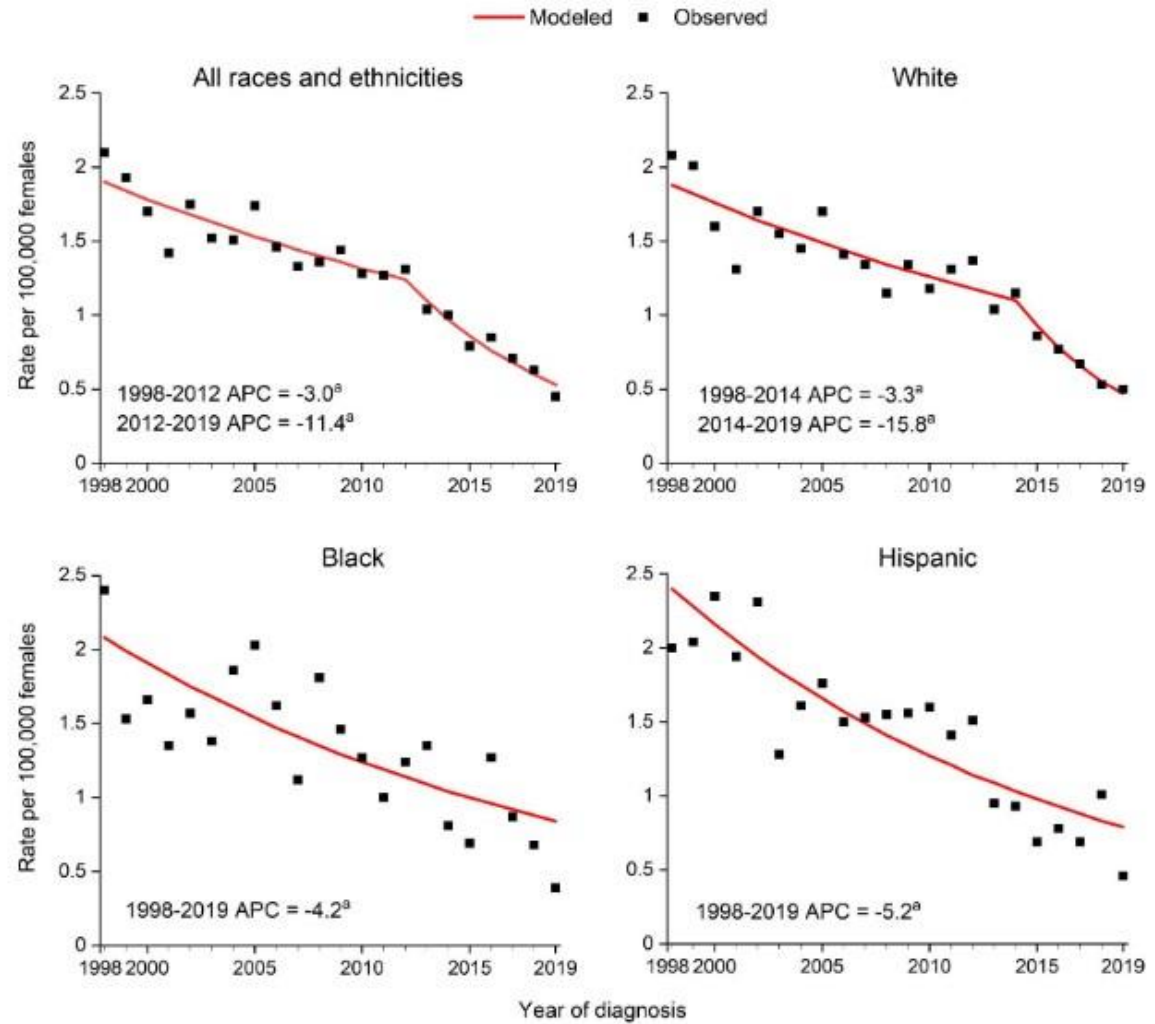
**65% reduction**

in cervical cancer incidence rates from 2012 through 2019.

**SOURCE:** [ACS Cancer Facts & Figures 2023](#)



# Trends in cervical cancer incidence rate among women aged 20–24 years by race and ethnicity, United States, 1998–2019



**FIGURE 4** Trends in cervical cancer incidence rates among women aged 20–24 years by race and ethnicity, United States, 1998–2019. Rates are age adjusted to the 2000 US standard population and adjusted for reporting delays. White and Black race are exclusive of Hispanic ethnicity. <sup>a</sup>The APC is statistically significant ( $p < .05$ ). APC indicates annual percent change.





# Effectiveness AGAINST CERVICAL CANCER

England's journey towards elimination

| Age at Vaccination | Effectiveness against CIN3+ | Effectiveness against cervical cancer |
|--------------------|-----------------------------|---------------------------------------|
| 12-13              | 97%                         | 87%                                   |
| 14-16              | 75%                         | 62%                                   |
| 16-18              | 39%                         | 34%                                   |



**The HPV immunization program has successfully almost eliminated cervical cancer in England** among women born since September 1995.



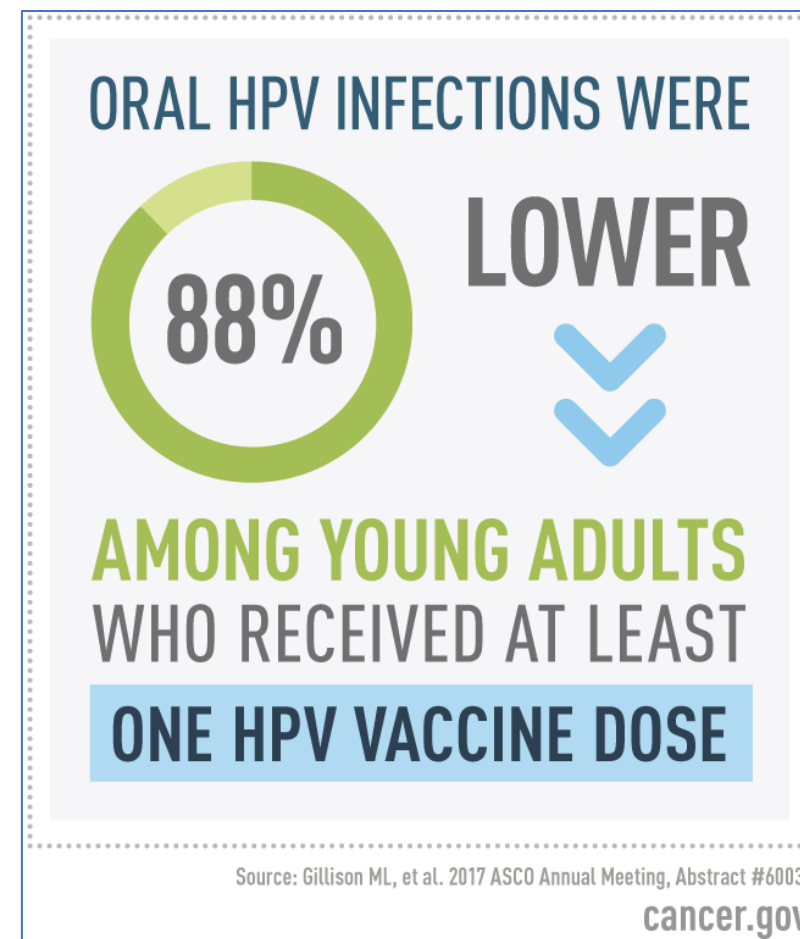
# Effectiveness AGAINST Oral HPV Infections

U.S. study of 2,627 men & women ages 18–33 from 2011–2014

Those who reported vaccination had 88% lower rate of oral HPV infection based on oral cell samples

2020: FDA approved adding oropharyngeal and other head/neck cancers to vaccine indications

More research to come on efficacy of preventing infections in men 20–45



# Immunity



## Works best when series is completed before age 13

- Strong immune response at age 9-12
  - 12-month interval results in higher titers
  - Can pair HPV vaccine with annual well child visit at 9/10; avoids a “shot only” visit at 6 months
- Best protection from HPV cancers
- Vaccinate before exposure to HPV infection



## Long-lasting

- Ongoing studies >12 years
- No sign that booster dose will be needed

Sources:

*Meites, MMWR (2016) & (2019)*

*Iversen, JAMA (2016): info on titers and 12-month interval*

*Collins-Fairclough, Human Vaccines & Immunotherapeutics (2021): extended dosing interval*

*Hoes, Human Vaccines & Immunotherapeutics (2022): Review of long-term immunogenicity*



**Truth:**  
The HPV vaccine  
is safe.



**109 studies of 2.5 million people in  
6 countries have shown:**

**NO serious side effects, other than  
what is typical for all vaccines  
(i.e., allergic reactions, fainting)**

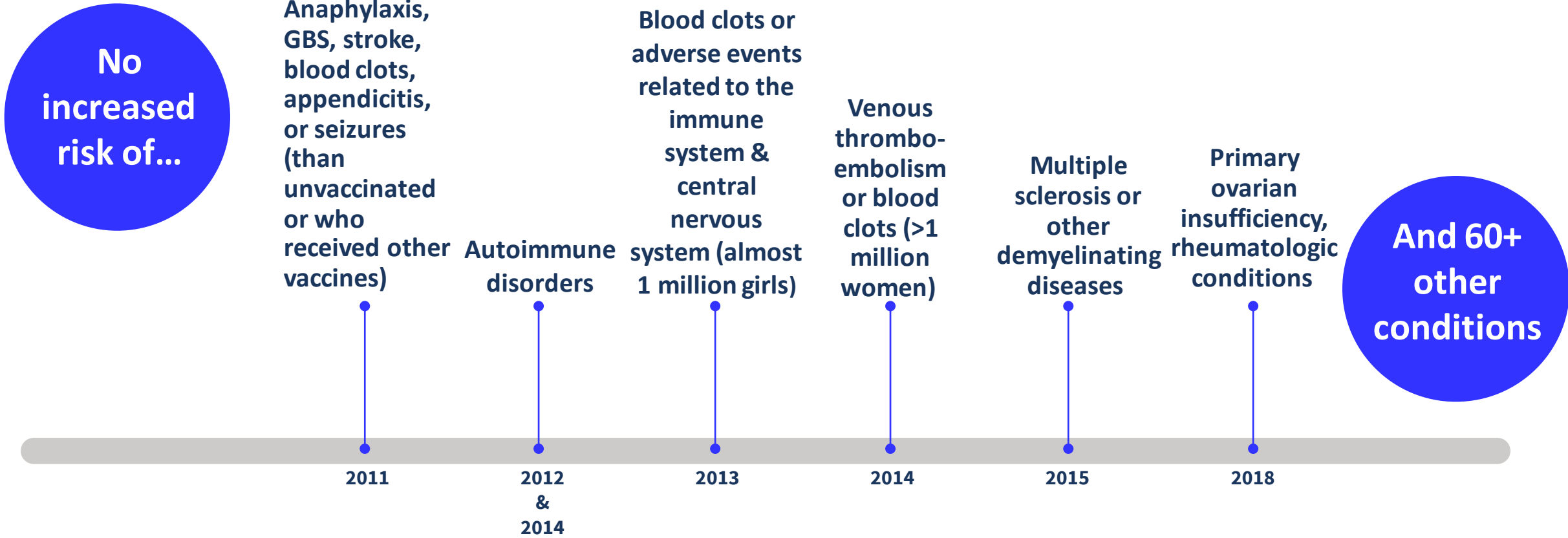
# HPV Vaccine is Safe



- Robust multi-layered safety monitoring system
- Over 15 years of safety data
- 135 million doses in United States & 500 million doses worldwide

# HPV VACCINATION LONG-TERM SAFETY DATA

If a parent asks about safety, first find out their concern, then ask permission to share your knowledge, and discuss both safety of vaccine and danger of HPV infection.



SOURCE: Cochrane Review, Arbyn, 2018



# The HPV Vaccine...



Causes no fertility issues



Does not contain harmful ingredients



Does not lead to increased (or earlier engagement in) sexual activity





# Truth:

A strong  
recommendation for the  
HPV vaccine matters.



## Sample Recommendation for 9–10 year old:

“Ben is 9 years old which means he’s due for his first dose of the HPV vaccine, which protects against HPV cancers. We will give it to him at the end of his appointment today.”

## Sample Recommendation for 11–12 year old:

“Molly needs three vaccines today to protect against meningitis, HPV cancers, and whooping cough. She will get those at the end of today’s visit.”



# Didactic Q&A



# Session 2: Case Presentation

Nancy Herrera, CHW, MA  
High Risk Care Coordinator  
Access to Healthcare – Women's Health  
Connection



# Session 2 Case Study

**Provided by:** Nancy Herrera, CHW, MA

Access to Healthcare – Women's Health Connection

Focus: Patient/Caregiver Case



## Patient Hx

- 14 yo Hispanic Male
- 32 yo Mother
- Pt completed 1st dose of HPV Vaccine Series
- Patient was being seen for physical after not being seen for a few years

## Key Elements

- Patient was offered and received HPV Vaccine along with other vaccinations during his physical
- Patient's mother asked for clarification on what the vaccine was for
- Patient's mother consented to the HPV Vaccine
- Patient has not completed the series or scheduled an appointment to receive second dose

## Barriers/Challenges

- Patient's mother consented to the HPV Vaccine, but did not understand why the vaccine was necessary or what it prevented
- Patient had not been seen by a provider in a few years
- It is unknown if parent received education on second dose

# Session 2 Case Study

**Provided by:** Nancy Herrera, CHW, MA

Access to Healthcare – Women's Health Connection

Focus: Patient/Caregiver Case



## **Discussion & Questions**

- Did parent understand what they were consenting to?
- Was there not enough time for parent to ask questions regarding the vaccine?
- With all these questions and possible doubts, how can I encourage parent to take patient back for second dose?
- What conversation/information is being given to parents when offering the vaccine?
- How can I better prepare myself for future scenarios to ensure parents return for second dose and to advocate for vaccine to family/friends?

## **Barriers/Challenges (reference)**

- Patient's mother consented to the HPV Vaccine, but did not understand why the vaccine was necessary or what it prevented
- Patient had not been seen by a provider in a few years
- It is unknown if parent received education on second dose



# Session 2: Case Presentation

Savannah Criswell, CHW II  
Rural Rate Recovery Coordinator  
Nevada State Immunization Program



# Session 2 Case Study

**Provided by:** Savannah Criswell, CHW  
Nevada State Immunization Program  
Focus: Patient/Caregiver Case



## Patient Hx

- 12 yo White female
- Pt attended back-to-school clinic with mother
- Pt had Private Insurance
- Parent wanted child to receive required school vaccines only

## Key Elements

- When pt arrived only VFC Vaccines were available, pt did not qualify for due to having private insurance
- While parent and pt waited for vaccines, CHW used MI techniques to approach to discuss the HPV Vaccine
- CHW presented HPV vaccine as cancer prevention and educated parent on vaccine history and side-effects
- Pt did not get HPV Vaccine, but scheduled a visit with provider to discuss

## Barriers/Challenges

- Parent only wanted to get required school vaccines and was hesitant about other vaccines
- Parent associated the HPV vaccine with sex
- Parent had concerns that the vaccine would have long-term side-effects, cause fertility issues and promote sex outside of marriage
- Pt did not end up receiving vaccine due to concerns of receiving too many vaccines in one day



# Session 2 Case Study

**Provided by:** Savannah Criswell, CHW  
Nevada State Immunization Program  
Focus: Patient/Caregiver Case



## **Discussion & Questions**

- How does insurance play a role in getting vaccines administered?
- What is the difference between VFC vaccines and private pay vaccines?
- How would you address misinformation about the HPV Vaccine?

## **Barriers/Challenges (reference)**


- Parent only wanted to get required school vaccines and was hesitant about other vaccines
- Parent associated the HPV vaccine with sex
- Parent had concerns that the vaccine would have long-term side-effects, cause fertility issues and promote sex outside of marriage
- Pt did not end up receiving vaccine due to concerns of receiving too many vaccines in one day



# Post-Session Poll

# Curriculum Schedule



| Date                                      | Session   | Topic                                                                                                                                   | Didactic Presenter                                                      |
|-------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| August 2nd<br>12-1:15pm PST               | Session 1 | Role of CHWs in Immunizations                                                                                                           | <u>Cody Wagner</u><br><i>Nevada Community Health Worker Association</i> |
| August 16th<br>12-1:15pm PST              | Session 2 | HPV 101                                                                                                                                 | <u>Dr. Vanessa Slots</u><br><i>M Health Fairview</i>                    |
| August 30th<br>12-1:15on PST              | Session 3 | Cultural Humility and Social Determinants of Health  | <u>Dr. Talee Vang</u><br><i>Hennepin Healthcare</i>                     |
| September 13th<br>12-1:15pm PST           | Session 4 | The Art of Motivational Interviewing and Vaccines                                                                                       | <u>Aaron Blackham</u>                                                   |
| September 27th<br>12-1:15pm PST           | Session 5 | Busting HPV Vaccination Myths                                                                                                           | <u>Dr. Jose Cucalon</u><br><i>University of Nevada, Reno</i>            |
| October 11th<br>12-1:15pm PST             | Session 6 | Addressing Parental Hesitancy Around HPV Vaccinations                                                                                   | <u>Dr. Sean O’Leary</u><br><i>Children’s Hospital Colorado</i>          |
| October 25 <sup>th</sup><br>12-1:15pm PST | Session 7 | Implementation Science: CHW’s as HPV Vaccination Champions                                                                              | <u>Liz Partida, CHW</u><br><i>Community Health Alliance</i>             |

# Case Sign Up Schedule

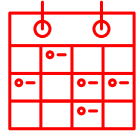


A member of the support team will confirm your case presentation date and work with you to ensure your experience is easy AND valuable.



| Date                            | Session   | Participant Name #1                                                                             | Participant Name #2                                                                             | Alternate Participant |
|---------------------------------|-----------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------|
| August 2nd<br>12-1:15pm PST     | Session 1 | Edgar Zepeda                                                                                    |                                                                                                 |                       |
| August 16th<br>12-1:15pm PST    | Session 2 | Nancy Herrera                                                                                   | Savannah Criswell                                                                               |                       |
| August 30th<br>12-1:15on PST    | Session 3 | CC Balderas  | Allen Sarac  |                       |
| September 13th<br>12-1:15pm PST | Session 4 | Rina Mercadillo                                                                                 | Eleanor McCastle                                                                                |                       |
| September 27th<br>12-1:15pm PST | Session 5 | Karina Preciado                                                                                 | Amy Thompson & Lily Helzer                                                                      |                       |
| October 11th<br>12-1:15pm PST   | Session 6 | Dr. Sean O'Leary                                                                                | Indi Kaufman                                                                                    |                       |
| October 25th<br>12-1:15pm PST   | Session 7 | Vanessa Sandoval                                                                                | Denise Davidson                                                                                 |                       |

# A Few Reminders



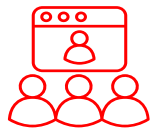
**Next ECHO Session: August 30<sup>th</sup>, 2023 from 12–1:15pm PST via Zoom**



**Next Didactic Presenter: Cultural Humility and Social Determinants of Health with Dr. Talee Vang**



**Materials and Resources will be made available within one week. All resources will be available on the [ACS ECHO Website](#)**



**Next case presenters:** CC Balderas and Allen Sarac

Case presentation

form: <https://forms.office.com/r/WkrwSzSpQZ>



**CME/CEU Information:**

[https://unrmed.formstack.com/forms/echo\\_evaluation?date=08/16/23&title=HPV](https://unrmed.formstack.com/forms/echo_evaluation?date=08/16/23&title=HPV) (Code: 10531)



**Questions: Contact Ashley Lach, HPV Program Manager, [Ashley.Lach@cancer.org](mailto:Ashley.Lach@cancer.org) OR Jenny Escalera-Guerrero, Program Coordinator–Project ECHO Nevada, [jescaleraquerrero@med.unr.edu](mailto:jescaleraquerrero@med.unr.edu)**



**HAT THEME NEXT SESSION!**

**Thank You**