

Activity Description

Target Audience

This activity is designed as a comprehensive approach to address the practice needs of primary care providers, including primary care physicians, doctors of osteopathy, physician assistants, nurse practitioners, and allied healthcare professionals, who are at the forefront of caring for patients eligible for immunizations and/or at risk for vaccine-preventable diseases.

Learning Objectives

- At the conclusion of the educational activity, the learner should be able to: Describe the burden of human papillomavirus (HPV) infection in causing anogenital and oropharyngeal cancers in men and women
- Appraise the latest clinical evidence demonstrating the impact of HPV vaccination on the incidence of HPV-related cancers
- Apply communication techniques to address and overcome barriers by healthcare providers and patients on HPV vaccination

Viruses and Cancer

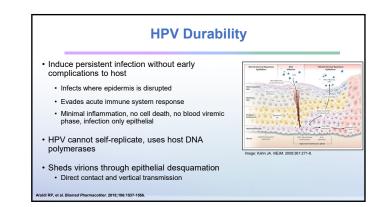
· Globally, viral infections are responsible for 12% of cancers • Human Papillomavirus (HPV) is 30% of these cancers

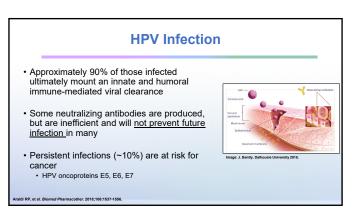
Bravo IG, et al. Trends Microbiol. 2010;18:432-438. Lowy DR. J Clin Invest. 2016;126:5-11.

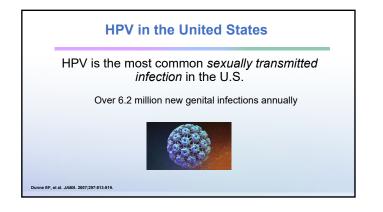
- HPV causes over 610,000 cancer cases and over 250,000 deaths globally
- · Evolutionarily conserved genes have remained nearly unchanged

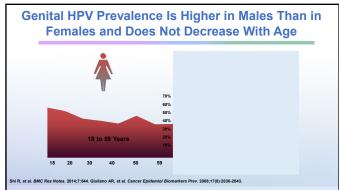


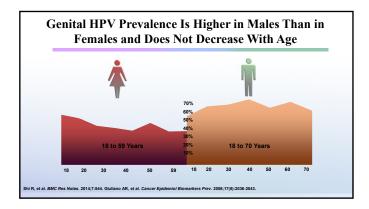
Human Papillomavirus (HPV) in the United States Over 120 types of HPV High Risk = can cause cance Genital Low Risk = not cause can (genital warts) HPV Plantar Warts Non-genital (not genital)

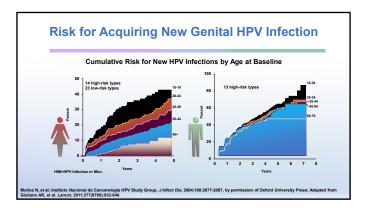


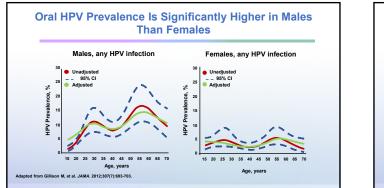


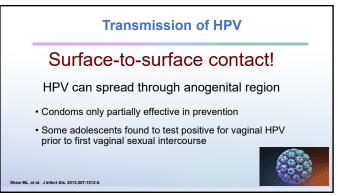


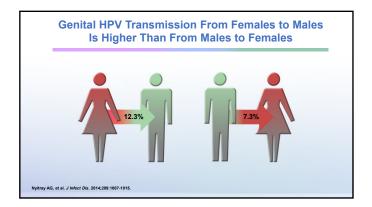


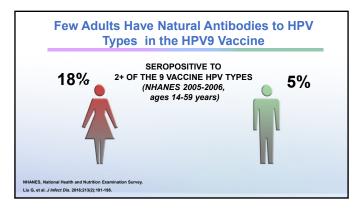


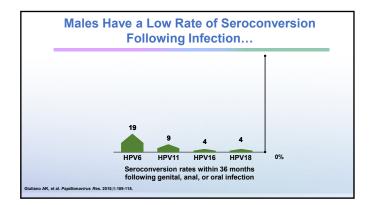


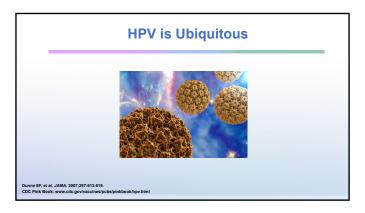


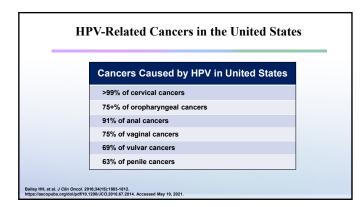


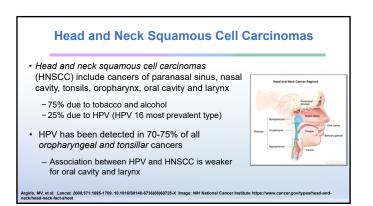


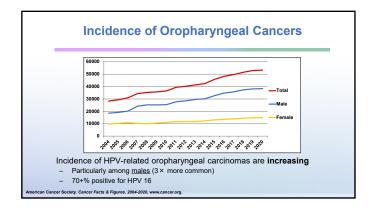


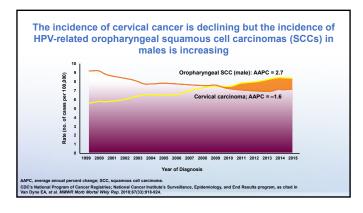




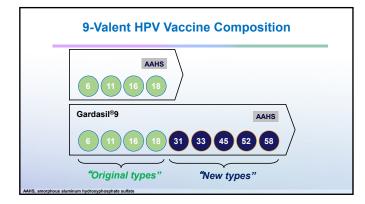


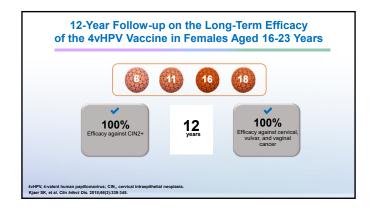


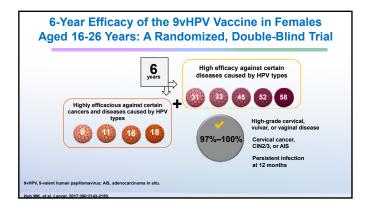


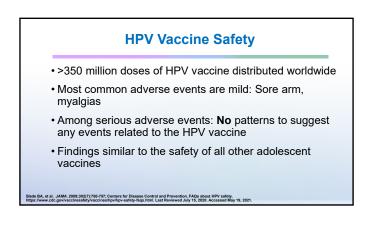


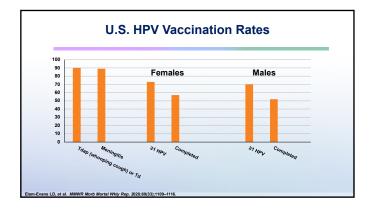


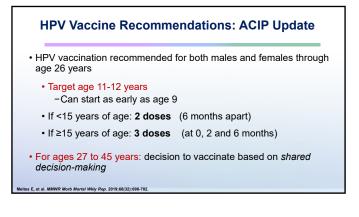


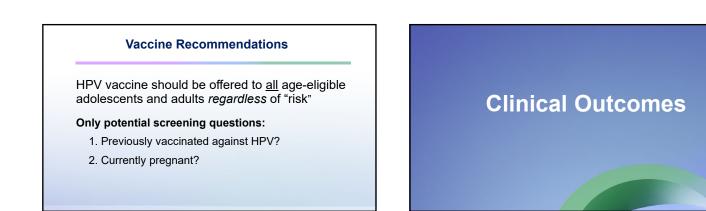


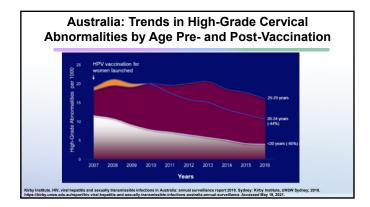


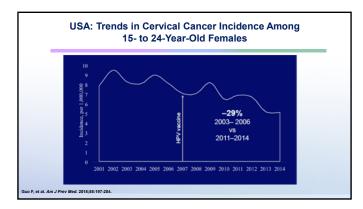


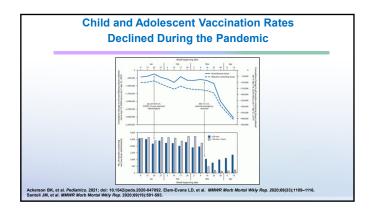












First, Need to Get Adolescents Back to Clinic!

- Consider in-person visits vs. telehealth
 - Waiting room size and exam rooms dictate
 - Stagger in-person and telehealth visits
 - Screening process for acute illness or COVID exposure
- Vaccine-only visits vs. clinician visits
- Expansion of hours to accommodate more in-person visits



First, Need to Get Adolescents Back to Clinic!

WHO Threats to Global Health

World Health Organization

- 1. Air pollution and climate change
- 2. Noncommunicable chronic disease
- 3. Global influenza pandemic
- 4. Fragile and vulnerable settings
- 5. Antimicrobial resistance
- 6. Ebola and other high-threat pathogens
- 7. Weak primary health care
- 8. Vaccine hesitancy
- 9. Dengue
- 10.HIV

Things That Provoke Doubt in Patients

- · Follow invalid contraindications to immunization
 - Low-grade fevers
 Mild illness
- Providing reading material rather than recommending
- · Equivocating on recommendations or answers
- · Clinical team providing different recommendations
- Not giving a strong and clear recommendation

merican Academy of Pediatrics: Addressing Common Concerns of Vaccine-Hesitant Parents. ccessed at: https://www.aap.org/en-us/Documents/immunization_vaccine-hesitant%20parent_final.pdf. Accessed May 19, 2021.

How We Present the Vaccine: Considerations

"Sex is for other people's kids"

#1: Parents do not want to think about their kids being sexually active

- #2: Immunization 101: Vaccines prevent, they don't treat
 - Important to immunize before exposure
 - Most parents do not know how immunizations work

Approach to Avoid: Mode of Transmission

 "HPV stands for human papillomavirus and causes genital warts and cervical cancer.
 It is a sexually-transmitted disease. Many kids become sexually active by age 16.

Do you want this vaccine for your daughter?"

Approach to Consider: Less is More

"Today your son is due for three routine vaccines which include HPV, meningitis vaccine, and Tdap. Someone will be right in to administer those vaccines and I look forward to seeing you next year."

Approach to Consider: Less is More

If questions arise about the HPV vaccine:

"Has anyone that you care about had cancer?"

"What was it like for them? For you?"

"We can reduce the chances of your son having a cancer experience. Do you want to reduce the chances of your son having cancer?"

Reminder, for the Majority of People

Start with a strong, consistent *presumptive* recommendation "I recommend you receive the HPV vaccine."

Rather than the *participatory approach* "Do you want to get a HPV vaccine?"

Opel DJ, et al. Pediatrics. 2013;132:1037-1046.

Vaccine Hesitant

Vaccine hesitant individuals are likely to become *more* entrenched in belief if confronted directly

- Transition to a supportive discussion
- Avoid lecturing with facts, science or logic

Consider micro-motivational interviewing:

Open Questions: What are your concerns

Affirming Statements: Many people share your concern

Summarize with autonomy: As discussed, vaccines are held to high safety standards. HPV vaccine is a serious infection. I recommend your son receive the HPV vaccine, but it is important for you to make that decision.

in AB, et al. Nature Human Behaviour. 2017;1:873-880. doi:10.1038/s41562-017-0256-5.

HPV: A Life Course Infection

Prevention during adolescence and adulthood

Disease during adulthood

Infection . . . Anytime!

Your Recommendation Matters!

