

1

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2



HPV Vaccination is Cancer Prevention: Changing the Narrative to Improve Vaccination Rates

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Featured Speakers

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4

Conflict of Interest & Disclosure Statements

Manika Survadevara, MD

- Principal Investigator Institution receives research funding for work on vaccine confidence, HPV vaccination rates, RSV epidemiology for Merck Sharpe & Dohme Corp Principal Investigator - Institution received research funding for site to be involved with
- clinical trials for flu treatment for Hoffman LaRoche (completed 2022)
 Principal Investigator Institution received research funding for site to be involved with clinical trials for RSV treatment for Janssen (completed 2022)

Jana Shaw MD, MPH

Consultant for Pfizer

All relevant financial relationships have been mitigated for Dr. Suryadevara and Dr. Shaw

None of the other planners, moderator, and presenters have any financial arrangements or affiliations with any ineligible companies whose products, research or services may be discussed in this activity

5

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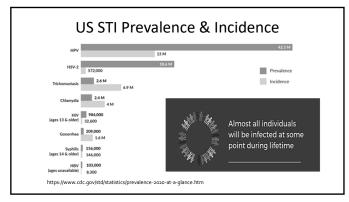
Learning Outcome & Objectives

As a result of participation in this activity, the learners will increase and enhance knowledge and competence on how to make updated HPV vaccination recommendations using cancer prevention as a communication strategy.

By the end of the webcast, viewers will be able to:

- Discuss the burden of HPV disease and related cancers
- Explain the safety and efficacy of the HPV vaccine
- Describe communication techniques for talking with parents or patients about the HPV vaccine

7



8

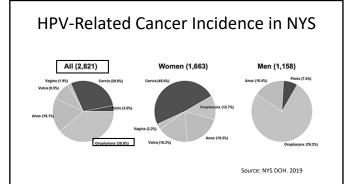
meningococcal HPV cancer 0 10,000 20,000 30,000 40,000 50,000 Number of cases/year in US

Impact of HPV-related Cancers

> 47,000 new HPV cancers each year

Male			Female			
% by HPV	# of cases	Site	% by HPV	# of cases		
72%	12,500	Cervix	91%	11,100		
89%	2,200	Anus	93%	4,700		
63%	900	Vulva	69%	2,900		
		Oropharynx	63%	2,300		
		Vagina	75%	700		
	% by HPV 72% 89%	% by HPV # of cases 72% 12,500 89% 2,200	% by HPV # of cases Site 72% 12,500 Cervix 89% 2,200 Anus 63% 900 Vulva Oropharynx	% by HPV # of cases Site % by HPV 72% 12,500 Cervix 91% 89% 2,200 Anus 93% 63% 900 Vulva 69% Oropharynx 63%		

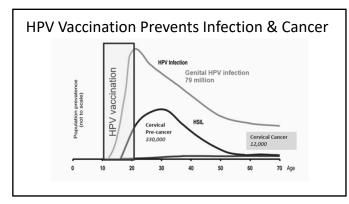
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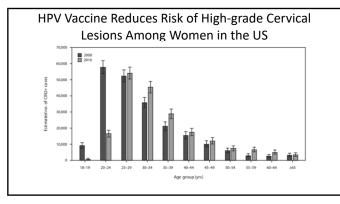
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HPV Oropharyngeal Cancer

- HPV causes more OPC than tobacco/alcohol
- > 14,000 new cases/year
- Non-smokers, non-drinkers, younger age
- No screening



13



14

Global Impact

- Post-licensure evaluations important to evaluate real-world vaccine effectiveness
- Population impact against early and mid outcomes reported in many countries, including:
 - HPV prevalence: Australia, Norway, Denmark, Sweden, Switzerland, UK, USA
 - Genital warts: Australia, Belgium, New Zealand, Denmark, Sweden, Germany, Quebec, USA
 - Cervical lesions: Australia, British Columbia, Denmark, Scotland, Sweden, USA

Worldwide Significance of HPV Vaccination in Combating Cervical Cancer

- Australia: Set to eliminate cervical cancer by 2035; HPV vaccination completion rate = 80.2%
- Sweden: Girls vaccinated before age 17 were 88% less likely to develop cervical cancer
- Scotland:Dramatic reduction in pre-invasive cervical disease
- England: The HPV immunization program has almost eliminated cervical cancer in women born since September 1995

Citations: See References Document

16

System Collaborators Description CDC and FDA Frontline, spontaneous reporting system to detect potential vaccine safety issues Vaccine Safety Datalink CDC and 8 Vaccine Safety Datalink CDC and 8 Large-linked database system used for active the safety issues

System (VAERS)				
Vaccine Safety Datalink (VSD)	CDC and 8 integrated health care systems	Large-linked database system used for active surveillance and research ~9.4 million members (~3% of US pop)		
	CDC and 7 academic centers	Expert collaboration that conducts individual clinical vaccine safety assessments and clinical research		
FDA's Biologics	FDA and	A system of electronic health records,		

FDA's Biologics

Effectiveness and
Safety (BEST) System

FDA and collaborators

A system of electronic health records, administrative, and claims-based data for active surveillance and research.

17

HPV Vaccine Safety Carefully Monitored

- Reactions after vaccination may include:
 - Local: injection site pain, redness, and/or swelling
 - Systemic: fever, headaches
- Contraindications:
 - Allergic reaction to the HPV vaccine
 - Allergy to yeast
- Brief fainting spells (syncope) and related symptoms (such as jerking movements) can happen soon after any injection, including HPV vaccine
 - Remain seated (or lying down) during vaccination and 15 minutes following vaccination

HPV Vaccines Have Long-standing Safety Data

$\underline{\textbf{NO}} \text{ increased risk for:}$

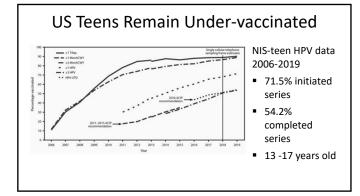
- Anaphylaxis Death GBS

- Stroke
- **Blood clots** Appendicitis

- Autoimmune disorders
 Primary ovarian insufficiency
 Miscarriage or pregnancy termination

... and NO RISK of more than 60 other conditions

19

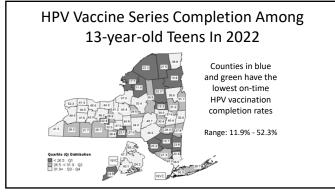


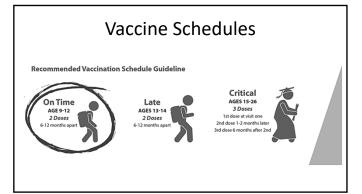
20

3 of 10 NYS Teens Remain Under-vaccinated

2020 NYS HPV Vaccination Rates (13-17 yrs)			
	HPV VI*	HPV VC*	
NYS Teens	79.1%	68.1%	

SUPPLEMENTARY TABLE 1. Estimated vaccination coverage with selected vaccines and doses* among adolescents aged 13–17 years† by HHS Region, state, selected local area, or territory — National Immunization Survey-Teen (NIS-Teen), United States, 2020





Start at 9! Endorsed by: American Academy of Pediatrics American Cancer Society National HPV Roundtable New York State Department of Health

Why Start at 9!?

- More time for completion by 13 years
- Results in robust immune response
- Decreases association with sex
- Decreases questions re: school mandated vaccines
- Decreases number of shots per visit
- Acceptable to patients, parents, providers, systems
- Increases vaccine uptake → prevents HPV-cancers

25

How To Implement Start At 9!

- Provider and staff training
- Recommendation script
- Policy change
- EMR support
- Readily available printed resources
- Reminder recall systems



26

Clinicians Underestimate The Value Parents Place On HPV Vaccine Parent Sala 9.4 9.2 9.5 9.2 9.5 9.3 9.3 9.3 9.4 9.5 9.5 9.5 9.5 Parent Pa

Parents' Reasons Not To Vaccinate

- Provider did not recommend it
- Concerns over long-term side effects of HPV vaccination
- "Vaccine is new"
- Mistrust with drug companies
- Concerns over short-term side effects
- "It's unnecessary," "child not sexually active"
- Fear that vaccination may lead to an earlier onset of sexual activity

Communicating With Hesitant Parents Two Effective Approaches

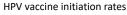
Begin with the $\it presumptive$ approach, stating which vaccines the child will receive today. For example...

- "We're scheduled to do some shots today. Your child needs tetanus, whooping cough, diphtheria, HPV, and meningococcal vaccines."
- "Molly needs three vaccines today to protect against meningitis, HPV cancers, and whooping cough. She'll get those at the end of the visit."

29

Presumptive Recommendation Increases Compliance

Making an effective *presumptive* recommendation greatly increases compliance



- 23%, if no recommendation
- 53%, if low-quality recommendation
- 73%, if high-quality recommendation



Communicating With Hesitant Parents Two Effective Approaches

- Begin with the presumptive approach, stating which vaccines the child will receive today.
- If the parent voices concerns, transition to the "5-step approach," addressing the parent's concerns.



31

5-Step Approach is Effective

5-Step Approach can be used to effectively communicate with vaccine hesitant parents

- 1. Establish empathy and credibility
- 2. Briefly address specific concerns
- 3. Pivot to disease risk
- 4. Convey vaccine effectiveness
- 5. Give a strong and personalized recommendation



32

Let's Talk Shots

- Free, award-winning site for providers and patients
- Developed by Institute for Vaccine Safety at the Johns Hopkins Bloomberg School of Public Health
- Individually-tailored for smartphones, tablets, and computers
- Short animations and videos tailored to the user's specific vaccine attitudes and beliefs
- Messaging consistent with the 5-step strategy

https://www.letstalkshots.com/



Keeping All Staff On The Same Page

Align communication with mission

- Give staff a cancer-prevention mission
- All staff need to be saying the same thing
- Share talking points
- Use the CDC Tip Sheet
- Educate staff about HPV vaccine recommendations, including schedule, administration, storage and handling



www.cdc.gov/hpv/hcp/forhcp-tipsheet-hpv.pdf

34

Summary: Overcoming HPV Vaccination Barriers

- Make a strong, presumptive recommendation
- Talk about HPV vaccination as cancer prevention
- Offer empathy, advice, and real stories about the risks of not vaccinating
- Provide individually-tailored vaccine information



35

Additional Resources VACCINATE NY Toolkits VACCI COMMUNICATION VACCINATE NOS STRATEGIES FOR STRONG VACCINE COMMUNICATION VACCINE C



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