

### Annual Estimates of HPV-related Diseases in the U.S.\*

#### Oncogenic

- Each year in the United States, about 46,143 new cases of cancer are found in parts of the body where human papillomavirus (HPV) is often found. HPV causes about 36,500 of these cancers.
- In addition to 91% of cervical cancer, HPV is responsible for about 91% of anal cancers, 69% of vulvar cancers, 75% of vaginal cancers, 63% of penile cancers, and 70% of oropharyngeal cancers.

#### On average annual reported cases:

- · Cervical---10,900 cervical cancers in women and
- Oropharyngeal--- 11,300 oropharyngeal cancers in men.
- Non-oncogenic

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- · Genital warts---about 90% are caused by HPV strains
- · Laryngeal papillomatosis

Epidemiology and Prevention of Vaccine-preventable diseases, Pink Book, 14th edition, 2021

## Disease Prevalence in the U.S.

- · HPV is the most common STI in the U.S.\*
- · Estimated 80 million persons are infected \*\*
- 14 million new cases added each year in persons 15-59 years of age, half of those in

persons 15-24 yrs. old.\*\*

- · Every year about 36,500 persons get cancer caused by HPV.\*\*
- · Genital warts in teenagers---approximately 2% affected

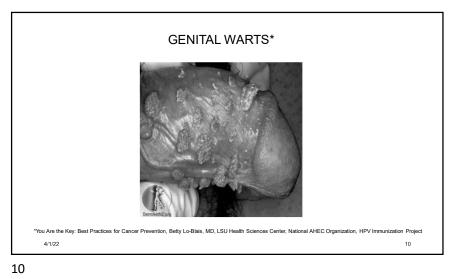
### **Disease Potential**

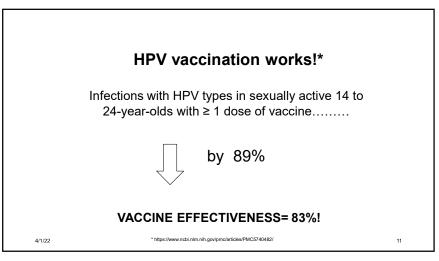
80% of the population will become infected with HPV in their lifetime

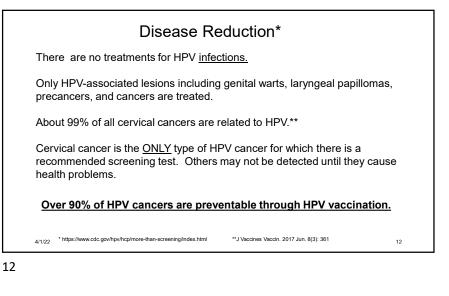
• Each year nearly 30,000 cases of cancer could be prevented with HPV vaccination

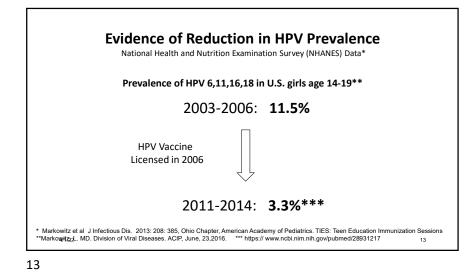
\*www.cancer.net \*https://my.clevelandclinic.org/health/diseases/11901-hpv-human-papilloma-virus \*https://www.kff.org/womens-health-policy/fact-sheet/the-hpv-vaccine-access-and-use-in-the-u-s/ 4/1/22 \*\*https://www.cdc.gov/cancer/hpv/statistics/ and https://www.cdc.gov/hcp/hcp/protecting-patients.html

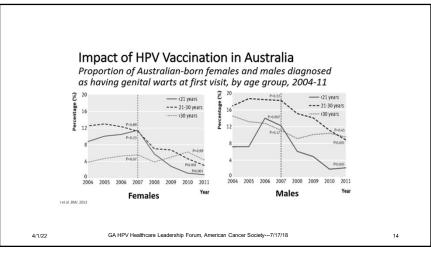
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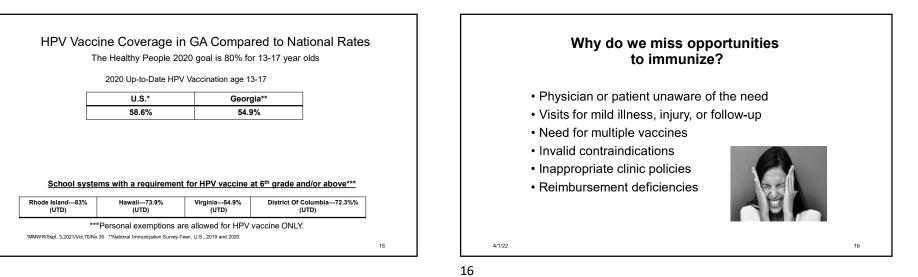












## Strategies to Avoid Missed Opportunities\*

Provider Prompts

- Automatic pop-up alerts through your EHR system
- These can sometimes be pre-installed and then customized in your office

· Family-friendly office hours

- Occasional evening or Saturday hours
- "No-appointment-required" if needing immunizations only
- Immunization Champion in your practice
- · Manage vaccine supply and schedule periodic updates
- Any member of the staff could fill this role
- Include all recommended vaccines at each visit
- · Schedule periodic team meetings with all personnel to:
- · Improve patient flow
- · Improve quality of care
- · Discuss problems within the framework of the practice

\*https://www.aap.org/en-us/advocacy-and-policy/aap--health-initiatives/immunizations/Practice- Management/Pages/office- strategies.aspx

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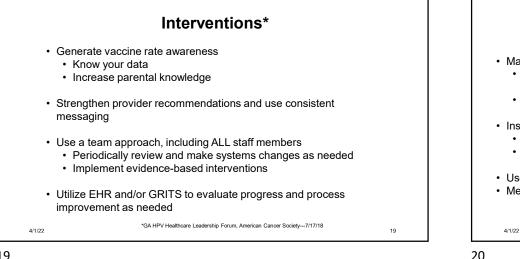
- Higher antibody level attained when given to pre-teens rather than to older adolescents or women
- · At this age, more likely to be administered before onset of sexual activity
- · HPV can be transmitted by other skin-to-skin contact, not just sexual intercourse
- There is no link between vaccine and riskier sexual behavior
- · Even those who abstain from sex until marriage can be infected by their marital partner
- · Individuals need to complete the series for full protection
- This is an anti-cancer vaccine, and.....

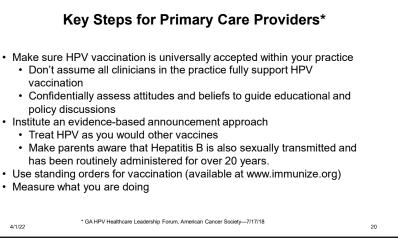
Over 90% of HPV cancers are preventable through HPV vaccination.

Bottom line: NOT receiving a healthcare provider's recommendation for HPV vaccine was one of the main reasons parents reported for not vaccinating their adolescent children.\*\*

\*Presented by Anne Schuchat, MD, RADM US Public Health Service, Asst. Surgeon General, Director NCIRD at Immunize Georgia Conference, Atlanta, GA, 9-11-14 Increasing HPV Vaccination Rates Among Adolescents: Challenges and Opportunities. PolicyLab: The Children's Hospital of Philadelphia, 2016. \*\*http://www.diffm?unize.org/askexperts/experts\_hpv\_asp 18

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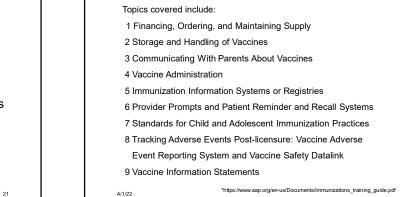
# Reminder/Recall Is Evidence Based\*

- The Community Preventative Services Task Force recommended reminder recall in May 2015, based on strong evidence of effectiveness in improving vaccination rates.
- The Community Guide recommends reminder/recall across different levels of scale (from individual practices to entire communities), using a range of intervention characteristics, as part of individual or multi-component intervention.
- The included studies saw a median vaccination rate increase of 11 percentage points.

https://www.thecommunityguide.org/findings/vaccination-programs-client-reminder-and-recall-system

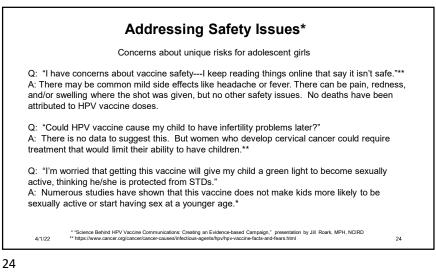


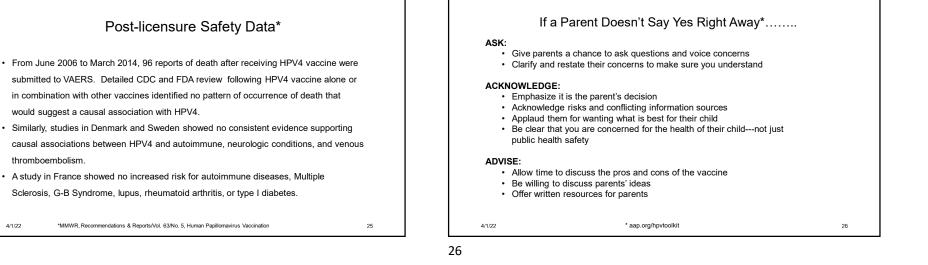
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AAP Training Guide\*



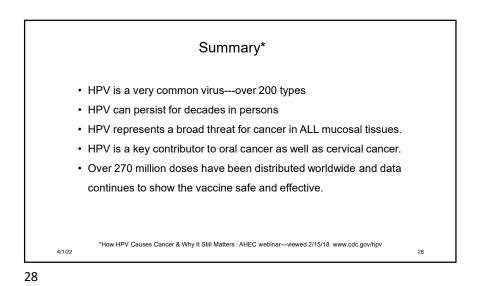


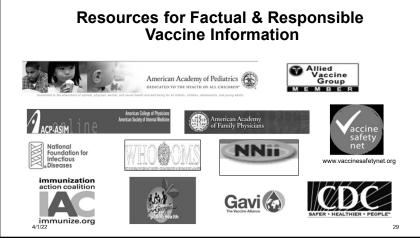


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thromboembolism.



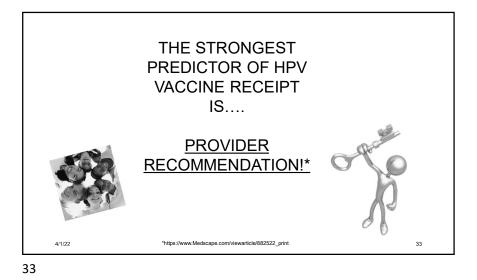


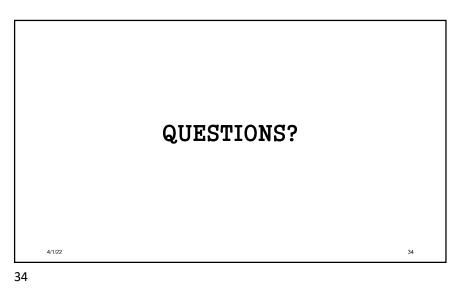


Online Resources*					
Current Childhood and Adult Immunization Schedules – www.cdc.gov/vaccines/schedules/index.html					
Parent's Guide to Childhood Immunizations – www.cdc.gov/vaccines/parents/tools/parents-guide/index.html					
Order Information for Free CDC Immunization Materials for Providers and Patients – wwwn.cdc.gov/pubs/CDCInfoOnDemand.aspx					
Vaccine Labels to Organize a Storage Unit – www.cdc.gov/vaccines/hcp/admin/storage/guide/vaccine-storage- labels.pdf					
4/1/22 *Course Resource—Epidemiology & Prevention of Vaccine-Preventable Diseases—C296544-E 30					

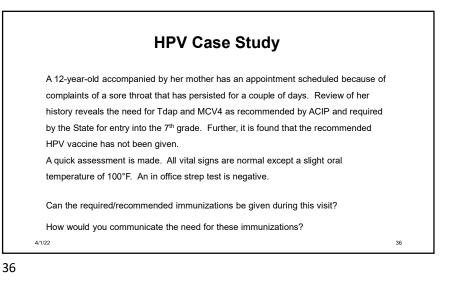
	accine Information Statements (VISs) – ww.cdc.gov/vaccines/hcp/vis/current-vis.html
ht	efusal to Vaccinate Form – tps://www.aap.org/en- s/documents/immunization_refusaltovaccinate.pdf
	anding Orders (Explanation and Templates) – ww.immunize.org/standing-orders/
As	sk the Experts – www.immunize.org/askexperts/
-	eneral Best Practice Guidelines for Immunization – tps://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html 4/1/22 *Course Resource—Epidemiology & Prevention of Vaccine-Preventable Diseases—C296544-E 3*

		Questions?			
Со	ntacts for	more immunization information and resou	rces!		
	National Ce	enter for Immunization and Respiratory Diseases, CDC			
	E-mail	► NIPInfo@cdc.gov			
	Hotline	800.CDC.INFO			
	Website	http://www.cdc.gov/vaccines			
	Georgia Immunization Program				
	E-mail	DPH-Immunization@dph.ga.gov			
	Hotline	404-657-3158			
	Website	http://dph.georgia.gov/immunization-section			
	Immunization Action Coalition				
	E-mail	admin@immunize.org			
	Phone	651.647.9009			
1/22	Website	www.immunize.org	32		





Do You Know	
Q. 1What is the approximate percentage of HPV cancers that could be prevented by HPV vaccination? A90%	
<ul> <li>Q. 2Give 3 examples of missed opportunities to vaccinate.</li> <li>APhysician or patient unaware of the need</li> <li>Visits for mild illness, injury, or follow-up</li> <li>Need for multiple vaccines</li> <li>Invalid contraindications</li> <li>Inappropriate clinic policies</li> <li>Reimbursement deficiencies</li> </ul>	
Q. 3What are the 3 "A's" that can be used to guide a discussion between the provider and vaccine-reluctant parents? AAsk, Acknowledge, and Advise.	
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	HPV Case Study (cont'd)	
	The mother agrees to the required vaccines, but is hesitant about the HPV vaccination. She feels her daughter is too young to get a vaccine associated with sexual contact.	
	What would you say to facilitate the 12-year-old getting this vaccine?	
	The mother agrees to allow her daughter to receive all three vaccines.	
	When should the second HPV vaccination be given and how will you facilitate receipt of that vaccination?	
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