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#### **Objectives**

- What are the latest data on HPV and HPV-related cancers?
- What is the latest info on cervical cancer screening?
- What tools are available to increase HPV vaccination?
- What role can you play in eliminating HPV-related disease?

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### Someone you love: The HPV Epidemic

- 80 million adults currently infected with HPV
- 80% chance of infection in your lifetime
- More common than the common cold























HPV associated cancers in men and women Average annual number of HPV-associated cancers by anatomic site in the U.S., 2008-2012 16,000 Average annual number of cases 12,000 8,000 4,000 0 Cervit Oropharynt Anus JUNE Anatomic site Data source: Centers for Disease Control and Pre UNIVERSITY OF SOUTH ALABAMA MITCHELL CANCER INSTITUTE









**HPV cancers in Alabama** HPV-associated Cancer Incidence Rates and Counts for Alabama by Primary Site Group, by Sex, 2012-2015 Female Male Primary Site Group Rate Co Rate Count Cervix 9.2 942 N/A N/A 0.6 N/A N/A Vagina 2.0 243 Vulva N/A 1,038 HPV-associated Oropharynx\* 2.1 254 9.2 Anus 1.7 1.1 Rectum and Rectosigmoid Junction 0.4 52 0.2 24 Penis N/A N/A 0.9 89 Rates are per 100,000 and age-adjusted to the 2000 U.S. (19 age groups) standard. Rates and counts are for malignant tumors only. \* Includes the following ICD-O-3 site codes: C019, C024, C028, C051, C052, C090, C091, C098, C099, C100, C101, C102, C104, C108, C109, C140, C142, and C148. All cancer sites other than cervix were limited to squamous cell carcinomas only meaning ICD-O-3 histology codes 8050 to 8084 and 8120 to 8131. Source: Alabama Statewide Cancer Registry, 2018.









<section-header><figure><image>





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New ASCCP app: Guiding principles				
<ul> <li>HPV based testing is the basis for risk estimatesting or cotesting)</li> </ul>	ation (primary hpv			
<ul> <li>Personalized risk based management is possible with knowledge of current results and past history</li> </ul>				
<ul> <li>Guidelines allow updates to incorporate new they are validated and to adjust for decreasin more patients who received hpv vaccination age</li> </ul>	v test methods as ng cin3+risks as reach screening			
<ul> <li>Colposcopy practice must follow guidance de ASCCP colposcopy standards</li> </ul>	etailed in the			
Perkins R Low Genit Tract Dis 2020	UNIVERSITY OF SOUTH ALABAMA MITCHELL CANCER INSTITUTE			











# Women <25 years old a whole different ball of wax

- 2006 HPV vaccination became available
   Likelihood of a non16/18 HPV infection when abnormalities noted
  - More likely to regress
  - Less likely to make cancer or move
- quickly
- Risk estimates are challenging here
- Cervical cancer rare; HPV prevalent
- High grade lesions are prevalent & likely to regress





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# Improve follow-up!

- Counsel patients on abnormal results
- Postpartum discharge paperwork → reminder to followup.
  - Schedule appointment before discharge
- GYN or surgical coordinators:
  - Can keep a list of abnormal paps for colpo clinic.
  - Ensure patients have appointment set up
  - Navigate no shows
- Recommend HPV vaccination after treatment

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### **HPV Vaccination is Safe**

- HPV vaccine safety studies have been very reassuring
  - 106 studies on 2.5 million people in 6 countries
  - As safe as every other vaccine
- To date, we have not observed any signal that shows that HPV vaccination causes...
- Clinicians can reassure parents who may have concerns, that HPV vaccination is safe.

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	HPV-vaccinated women (33 792 person years)		Non-HPV-vaccinated women (174 340 person years)	
End-point	n	Rate (95% CI)	n	Rate (95% CI)
Cervical cancer				
HPV16	0	-	9	5.2 (2.7 to 9.9)
HPV18	0	-	2	1.1 (0.3 to 4.6)
HPV16/18	0	-	11	6.3 (3.5 to 11.4
HPV33	0	-	2	1.1 (0.3 to 4.6)
HPV45	0	-	1	0.6 (0.1 to 4.1)
HPV52 <sup>+</sup>	0	-	1†	0.6 (0.1 to 4.1)
Any HPV	0	-	14	8.0 (4.8 to 13.6
Vaginal cancer				
HPV16	0	-	1	0.6 (0.1 to 4.1)
Vulvar cancer				
HPV52‡	0	-	1	0.6 (0.1 to 4.1)
Tongue cancer				
HPV213	0	-	1	0.6 (0.1 to 4.1)

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Malignancy Cervical cancer Vulvar cancer Oropharyngeal cancer	HPV Vaccinated Person years 65,656 65,656 65,656	d Women n 0 0 0	Non-HPV vaccina Person years 124,245 124,245	n 8 1
Malignancy Cervical cancer Vulvar cancer Oropharyngeal cancer	Person years 65,656 65,656 65,656	n 0 0	Person years 124,245 124,245	n 8 1
Cervical cancer Vulvar cancer Oropharyngeal cancer	65,656 65,656 65,656	0 0 0	124,245 124,245	8 1
Vulvar cancer Oropharyngeal cancer	65,656 65,656	0	124,245	1
Oropharyngeal cancer	65,656	0	104.045	
			124,245	1
Other HPV cancers	65,656	0	124,245	0
All HPV cancers	65,656	0	124,245	10
Breast cancer	65,656	2	124,245	10
Thyroid cancer	65,656	1	124,245	9
Melanoma	65,656	3	124,245	13
Non-melanoma skin cancers	65,656	2	124,245	3
Total 🤇	65,656	8	124,245	45

































#### **Global elimination**

- In May 2018, the WHO Director-General announced a global call for action to eliminate cervical cancer, underscoring renewed political will to make elimination a reality and calling for all stakeholders to unite behind this common goal.
  - For the first time ever, the world has committed to eliminate a cancer
- In August 2020 the World Health Assembly adopted the <u>Global</u> <u>Strategy for cervical cancer elimination</u>.
  - Vaccinate 90% of gils with HPV vaccine by age 15
  - Screen 70% of women using high performance test by age 35 and 45
  - Treat 90% of women with pre-cancer and 90% with invasive cancer
  - Reach an maintain an incidence rate of below 4 per 100,000 women
  - Lowers cervical cancer incidence by 97% by 2120
    - 62 million deaths averted

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- An ejective recommendation from you is the main reason parents decide to vaccinate
- Many moms in focus groups stated that they trust their child's doctor and would get the vaccine for their child as long as they received a recommendation from the doctor
- Moms also reported information from their own physician would have helped them to decide

Smith et al. Vaccine. 2016. Unpublished CDC data, 2013.

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#### Increasing HPV vaccine rates in your practice

- Educate entire staff on the importance
  - Make sure that everyone is on board and all concerns are addressed
- Know the billing codes and stock the vaccine
- Advertise have posters up and flyers ready

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# Identify Patients: Take a good history

- Make sure HPV vaccination status is on your intake/history form as well as for each annual exam up to age 40
- Find a place to document this in the chart/standard H&P or annual note
- Make sure to ask about series completion not just initiation
   HPV vaccine series can be completed AT ANY TIME from last dose, you don't need to start over
  - HPV vaccine series can be completed WITH ANY VACCINE, you don't need to do HPV-9 x 3
  - Completion is always recommended for maximum protection
  - Vaccinate regardless of HPV status

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### **Championing the HPV Vaccine**

- Obvious
  - Giving presentations to groups of doctors, patients, parents
- Sharing medically factual information on social media
- Maybe not so obvious
  - Policy change to encourage vaccination
  - Start with advocating for pharmacists to be able to give HPV to all without a script
  - Coalition building through cancer center networks and others

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#### Linda Hayes – survivor turned Cervivor

- Survivors sharing their stories
- Pair with or educate community health workers
- Meeting communities where they are
   Reimbursing CHW for their time and/or travel
  - Making sure FQHC and other community health centers look like places you would want to receive care
  - Address inequitable care and local CHC and FQHC work on relationships with their communities

Linda's Story – A Cervical Cancer Advocate Educates Her Community

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August 15, 2023 Meet Linda Hayes, an advocate channelin her experience to educate and inspire her community in Chambers County. Alabama









#### **Conclusions**

- The burden of HPV-related disease is starting to decline globally but there is more to do!
- Decreasing mortality from cervical cancer
- Increase HPV testing
- Improve follow-up by utilizing Breast and cervical program
- Vaccinate after treatment
- Championing the HPV vaccine
  - Start in your own practice
  - Use social media, traditional media, and small media to increase awareness and knowledge
  - Build partnerships in your community dentists, pharmacies, peds
  - Be a resource to your patients on HPV related disease and risk
  - Evaluate and advocate for policy change at all levels that will increase HPV vaccination

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