ACOG, ASCCP, SGO, and USPSTF guidelines recommend:

In many cases, co-testing is covered by the Affordable Care Act.

For patients, this may mean:¹⁸



Co-testing adoption rates at an all time high

Because Pap + HPV together (co-testing) provides more protection against CIN3+ and cervical cancer than screening with either HPV or Pap-alone, co-testing has become the most widely used screening method by ObGyns in the United States.¹⁷



*A positive HPV screening result may lead to further evaluation with cytology and/or colposcopy

References: 1. Kaufman H, et al. Contributions of Liquid-Based (Papanicolaou) Cytology and Human Papillomavirus Testing in Cotesting for Detection of Cervical Cancer and Precancer in the United State Am J Clin Pathol. 2020:XX:0-0 DOI: 10.1093/AJCP/AQAA074 (Study included ThinPrep Pap test, ThinPrep imaging, SurePath Pap test, SurePath imaging, Aptima HPV and Hybrid Capture 2). 2. American Cancer Society. The Pap (Papanicolaou) Test. https://www.cancer.org/cancer/cervical-cancer/detection-diagnosis-staging/screening-tests/pap-test.html. Published 2020. Accessed Aug 19, 2020 3. American Cancer Society. Cancer Statistics Center. https://cancerstatisticscenter.cancer.org/?_ga=2.150839477.2044751383.1547156654-294386523.1544563210#//. Accessed May 20, 2020 4. North American Association of Central Cancer Registries. Fast Stats https://faststats.naaccr.org/selections.php?#Output Accessed May 10, 2021 5, Kinney et al. Magnitude of increased lifetime risk of cervical cancer and death from cervica cancer with new screening recommendations. Gyn Onc 133(2014): 2(207): 38 6. Blatt AJ, et al. Comparison of cervical cancer screening results among 256,648 women in multiple clinical practices. Cance Cytopathol. 2015;123(5):282-288. doi:10.1002/ cncy.21544 (Study included ThinPrep Pap Test, SurePath Pap Test and Hybrid Capture 2 assay). 7. Austin RM, et al. Enhanced detection of cervical cancer and ecancer through use of imaged liquid-based cytology in routine cytology and HPV cotesting. Am J Obstet Gynecol. 2018;150(5):385-392. doi:10.1093/ajcp/aqy114 (Study included ThinPr aging, Digene HPV, Cervista HPV and Aptima HPV, 8, Schiffman M, et al. Relative Performance of HPV and Cytology Components of Cotesting in Cervical Screening, J Natl Cancer Inst. 2018; 110(5):501-508 10:1003/jnci/djx225 (Study included conventional cytology, SurePath Pap test and Hybrid Capture 2). 9. Naucler P, et al. Efficacy of HPV DNA testing with cytology triage and/or repeat HPV DNA testing in ary cervical cancer screening. J Natl Cancer Institute. 2009; 101(2):88-99. doi.org/10.1093/jnci/djn444 (Study included conventional Pap, laboratory developed test for HPV dete Human papillomavirus genotype attribution in invasive cervical cancer: retrospective cross-sectional worldwide study. Lancet Oncol. 2010;11(11):1048-56. doi:10.1016/S1470-2045(10)70230-8 (Study included aboratory developed test for HPV detection). 11. Katki HA, et al. Cervical cancer risk for women undergoing concurrent testing for human papillomavirus and cervical cytology: a populati utine clinical practice. Lancet Oncol. 2011;12(7):663-672. doi:10.1016/S1470-2045(11)70145-0 (Study included conventional Pap, Hybrid Capture 2 assay). 12. Zhao Y, et al. Relationship ind infection with human papillomavirus types 16 and 18, and herpes simplex virus 1 and 2. J Med Virol, 2012:84:1920-1927. doi.org/10.1002/imv.23353 13. Zhao C. et al. Cervical screening test results associate with 265 histopathologic diagnoses of cervical glandular neoplasia. Am J Clin Pathol 2013;140:47-54. doi.org/10.1309/AJCPIP9M8HPVBSSC 14. Zhao C, et al. Prior high-risk human papillomavirus testing and ipanicolaou test results of 70 invasive cervical carcinomas diagnosed in 2012. Arch Pathol Lab Med. 2014;184-188. 15, Gage J, et al. Reassurance against future risk of precancer and cancer conferre egative human papillomavirus test. J Natl Cancer Inst. 2014:106(8). doi:10.1093/inci/diu153 (Study included conventional Pap. Hybrid Capture® 2 assay). 16. American College of Obstetricians and Gynecologis Vomen's Health Care Physicians. https://www.acog.org/clinical/clinical-guidance/practice-advisory/articles/2021/04/updated-cervical-cancer-screening-guidelines. Released April 2021. Accessed May 10, 2021 17. Hologic, Inc. Data on File. 18. CDC. Prevention Through Health Care: Preventive Service Tables. HPV. https://www.cdc.gov/nchhstp/pi May 2, 2018, Accessed August 20, 2020.

hologic.com | diagnostic.solutions@hologic.com | 888.484.4747

PB-00331-001 Rev. 007 © 2021 Hologic. Inc. Hologic. Aptima. ThinPrep. Pap+HPV Together and associated logos are trademarks and/or registered trade marks of Hologic, Inc., and/or its subsidiaries in the United States and/or other countries. All other trademarks, registered trademarks, and product names are the property of their respective owners. This information is intended for medical professionals in the U.S. and other markets and is not intended as a product solicitation or promotion where such activities are prohibited. Because Hologic materials are distributed through websites, eBroadcasts and tradeshows, it is not always possible to control where such materials appear. For specific information on what products are available for sale in a particular country, please contact your local Hologic representative or write to diagnostic.solutions@hologic.com.

There are two additional screening methodologies also recommended in this age group. For more information, see the April 2021 ACOG Practice Advisory.



No out-of-pocket cost

Method Technology Together Define Performance



WHY IS IT ESSENTIAL TO KEEP THE PAP? **BECAUSE THEY'RE WORTH IT.**

1 in 5 women with cervical cancer were missed by HPV-Alone* screening.¹ Pap + HPV (co-testing) empowers you to do everything you can to protect the health of your patients.



*A positive HPV screening result may lead to further evaluation with cytology and/or colposcopy



KNOW THE FACTS

CHOOSE PAP + HPV

The Pap test has been the most successful cancer screening program in history.²

The rate of cervical cancer, which was a leading cause of death among women, has fallen by more than 70 percent since the Pap test was introduced over 50 years ago.³ Previously, cervical cancer was the leading cause of cancer death in women, but now it is the fifteenth most frequent.



Cervical cancer is no longer decreasing⁴



Is this the right time to make more drastic changes to screening?

??

"At no point in the publications describing the new guidelines [2012 consensus guidelines] it is acknowledged that we are now recommending more cancer and more death from cancer than the previously recommended 3-year cotesting provides, and that we are doing so presumably for the purpose of avoiding a cervical treatment that is not associated with detectable increased mortality." - Kinney W, et al.⁵

Regardless of the algorithm, the collection method is the same

The difference is in the results – with HPV-Alone*, you will receive less information with the same collection.

Samples may be collected in FDA approved liquid based cytology medium such as ThinPrep® Pap Test.

	Pap + HPV (Co-testing)	00	HPV-Alone*
COLLECTION METHOD	Servical Collection	THE	Cervical Collection
RESULTS	HPV Test ResultCytology Result	ThinPrep	 HPV Test Result Cytology Result
		A THE R 201 Campa Dire, Roberton, Burton &	

Recent publications representative of US clinical practice showed Pap + HPV (co-testing) misses the fewest cancers/precursors to cancer:

Key study from 2015⁶



70% of cancers missed by screening with HPV-Alone*



Key study from 2018⁷



% Missed cancers



Key study from 2020¹



of cervical cancers were detected by Pap + HPV (co-testing)

% Missed cancers < 12 months



DON'T SACRIFICE

Pap + HPV together identified

80% of the CIN3+ cases missed by screening with HPV-Alone*



Months 12+ prior to Diagnosis

% Missed cancers



of pre-cancers were detected 99.7% by Pap + HPV (co-testing)

% Missed pre-cancers < 12 months



Studies demonstrated the contribution of cytology at detecting cervical cancer cases. **Comparison of Three Longitudinal Co-Testing Studies**

Kaiser Permanente Northern California (KPNC): Regional laboratory and Integrated Delivery Network

University of Pittsburgh Medical Center (UPMC): Large academic medical center

Quest Diagnostics: National reference laboratory

	KPNC ⁸	QUEST ¹	UPMC ⁷
Inclusive of patients from a variety of health plans		\bigotimes	\bigotimes
Opportunistic screening more reflective of current US practices		\bigotimes	\bigotimes
Methods and technologies more reflective of current US practices		\bigotimes	\bigotimes
Data used to inform guideline decisions	\bigotimes		
Relative Contribution of Cytology over HPV-Alone* for cervical cancer diagnosis (>12 months)	7.3%	20.7%	25.3%



HPV+/Pap+ HPV+/Pap- HPV-/Pap+ HPV-/Pap-

KPNC⁸ N = 623 N = 1259 UPMC⁷ N = 129 QUEST ≥6 5-6 4-5 3-4 2-3 1-2 0.5-1 0-0.5 ≥6 5-6 4-5 3-4 2-3 1-2 0.5-1 0-0.5 >6 5-6 4-5 3-4 2-3 1-2 0.5-1 0-0.5 **CYTOLOGY:** Conventional, LBC CYTOLOGY: LBC, Image-Guided LBC CYTOLOGY: Image-Guided LBC HPV: Out of the Pap vial **HPV:** Separate collection **HPV:** Out of the Pap vial

Several clinical studies confirm screening with HPV-Alone* missed cervical cancer. Proportion of HPV Negative Cancer Cases^{1, 6, 7, 11-15}



his chart is a representation of clinical data from multiple published sources The clinical studies represented within these sources were conducted using different study designs with various assays.

"Liquid based cytology (LBC) enhanced co-testing detection of cervical cancer ... to a greater extent than previously reported with conventional Pap smear and HPV co-testing."

- Austin RM, et al.⁷

??