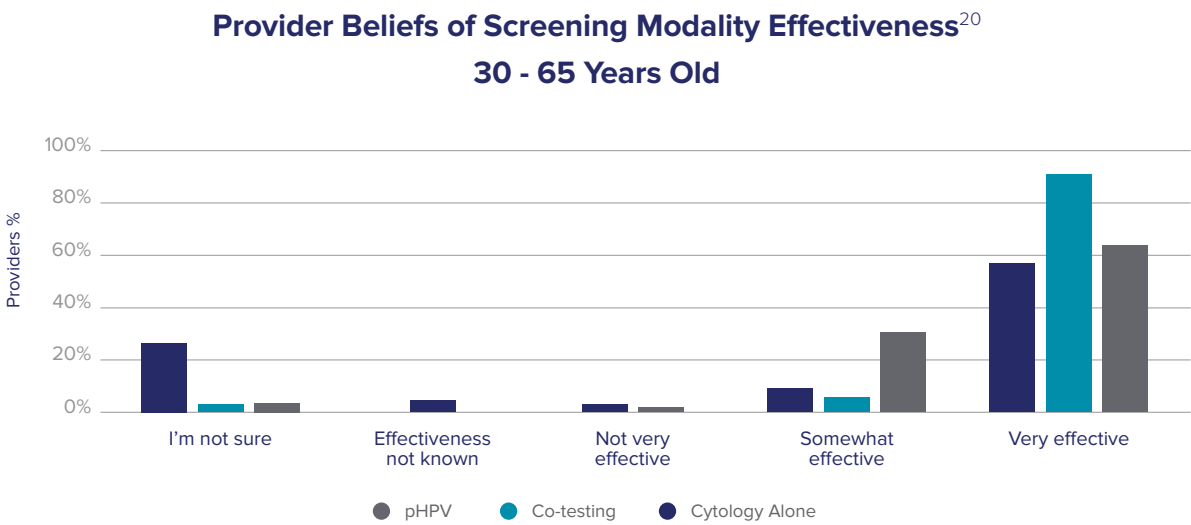
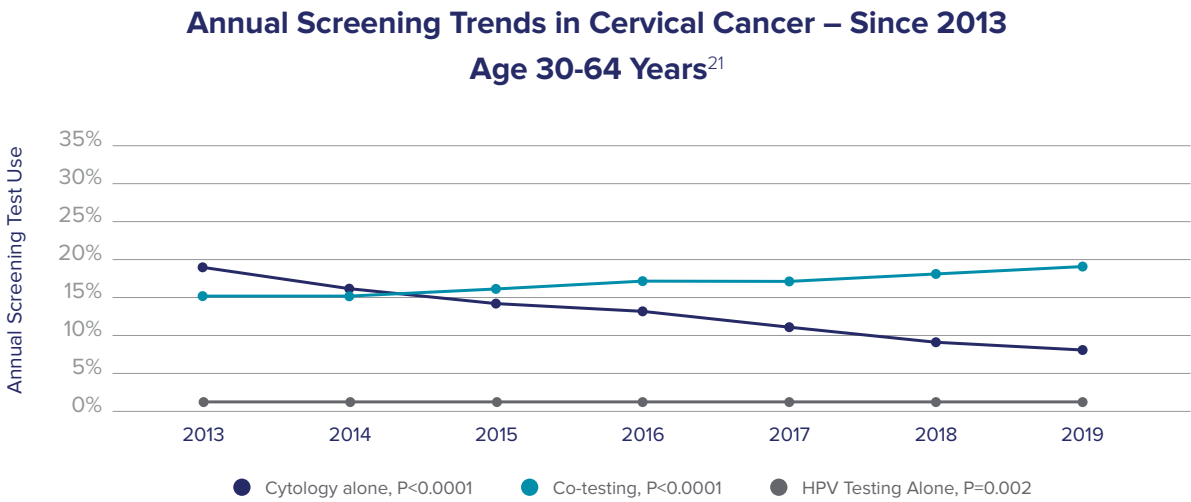


Effectiveness is Key



“Fewer providers believed in the effectiveness of pHPV [Primary HPV] to reduce cervical cancer mortality and were less likely to recommend pHPV [Primary HPV] in the correct age group and screening interval compared with cytology-based screening modalities”

- Kruse, 2023²⁰



Additional Studies Show:

Co-testing increased from **5.6%** in 2008 to **84.3%** in 2019 in women aged **30-64 years**²²

ACOG, ASCCP, SGO, and USPSTF Guidelines Recommend:²³

For women ages **21-29** years old

Screening with cervical cytology alone every 3 years is recommended.

For women ages **30-65** years old

Co-testing with cervical cytology and high-risk HPV testing every 5 years is recommended.[†]

For women ages **65** years and older

Do not require screening after adequate prior negative screening results.

In Many Cases, Co-testing Is Covered by the Affordable Care Act

For patients, this may mean:²⁴

No co-pay

No deductible

No out-of-pocket cost

Patients should consult their healthcare plans to verify coverage.

Learn why every woman is worth two tests at hologicwomenshealth.com/cervicalhealth

Method+Technology
Together Define Performance

[†]A positive HPV screening result may lead to further evaluation with cytology and/or colposcopy.
[†] There are two additional screening methodologies also recommended in this age group.
For more information, see the April 2021 ACOG Practice Advisory.

References: 1. Kaufman H, et al. Contributions of Liquid-Based (Papanicolaou) Cytology and Human Papillomavirus Testing in Cointesting for Detection of Cervical Cancer and Precancer in the United States. *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. May 3, 2022. 3. American Cancer Society. Cancer Statistics Center. https://cancerstatisticscenter.cancer.org/?_ga=2.150839477.2044751383.1547156654-294386523.1544563210#/. Accessed January 28, 2024. 4. 2012-2019 data. Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER Research Data, 8 Registries, Nov 2021 Sub (1975-2019). Published April 2022. Accessed January 28, 2024. <https://seer.cancer.gov/statfacts/html/cervix.html> 5. CDC. Human Papillomavirus (HPV) Vaccination: What Everyone Should Know. <https://www.cdc.gov/vaccines/vpd/hpv/public/index.html#:~:text=Since%20HPV%20vaccination%20was%20first,81%25%20among%20young%20adult%20women.> Last reviewed November 16, 2021. Accessed January 28, 2024. 6. Saslow et al. American Cancer Society, American Society for Colposcopy and Cervical Pathology, and American Society for Clinical Pathology Screening Guidelines for the Prevention & Early Detection of Cervical Cancer. *CA Cancer J Clin*. 2012; 62(3): 147-172. doi:10.3322/caac.21139. 7. Kinney et al. Magnitude of increased lifetime risk of cervical cancer and death from cervical cancer with new screening recommendations. *Gyn Onc* 133(2014): 2(207): 38. 8. Castle P, et al. Adherence to National Guidelines on Cervical Screening: A Population-Based Evaluation From a Statewide Registry. *JNCI*. Published August 31, 2021. Accessed January 28, 2024. <https://academic.oup.com/advances/article/doi/10.1093/nci/djab173/6360464> 9. Suk et al. Assessment of US Preventive Services Task Force Guideline-Concordant Cervical Cancer Screening Rates and Reasons for Underscreening by Age, Race and Ethnicity, Sexual Orientation, Rurality, and Insurance, 2005 to 2019. *JAMA Netw Open*. 2022. Jan 4;5(1):e2143582. doi: 10.1001/jamanetworkopen.2021.43582. PMID: 35040970; PMCID: PMC8767443. 10. Li Z, et al. Screening test results associated with cancer diagnoses in 287 women with cervical squamous cell carcinoma. *Arch Pathol Lab Med*. 2012;136:1533-1540. doi: 10.5858/arpa.2011-0609-OA. (Study included ThinPrep, SurePath, Hybrid Capture 2, cobas HPV assay, Cervista HPV HR test 11. Blatt AJ, et al. Comparison of cervical cancer screening results among 256,648 women in multiple clinical practices. *Cancer Cytopathol*. 2015;123(5):282-288. doi:10.1002/cncy.21544. (Study included ThinPrep®, SurePath and Hybrid Capture 2 High-Risk HPV DNA test). 12. Schiffman M, et al. Relative Performance of HPV and Cytology Components of Cointesting in Cervical Screening. *J Natl Cancer Inst*. 2018; 110(5):501-508. doi: 10.1093/jnci/djx225 (Study included conventional cytology, SurePath Pap test and Hybrid Capture 13. Austin et al. Enhanced Detection of Cervical Cancer and Precancer Through Use of Imaged Liquid-Based Cytology in Routine Cytology and HPV Cointesting. *Am J Clin Pathol* 2018; 150:385-392 14. Vasilyeva D, et al. Negative Roche cobas HPV testing in cases of biopsy-proven invasive cervical carcinoma, compared to Hybrid Capture 2 and liquid-based cytology. *JASC* 2020. doi: <https://doi.org/10.1016/j.jasc.2020.08.006> 15. Katki HA, et al. Cervical cancer risk for women undergoing concurrent testing for human papillomavirus and cervical cytology: a population-based study in routine 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). 16. Zhao C, et al. Cervical screening test results associated with 265 histopathologic diagnoses of cervical glandular neoplasia. *Am J Clin Pathol* 2013;140:47-54. doi.org/10.1309/AJCP19M8HPVBSSC 17. Zhao C, et al. Prior high-risk human papillomavirus testing and Papanicolaou test results of 70 invasive cervical carcinomas diagnosed in 2012. *Arch Pathol Lab Med*. 2014;184-188. doi: 10.5858/arpa.2014-0028-OA (Study included ThinPrep, SurePath, Hybrid Capture 2 assay, Cervista Assay, and cobas assay). 18. Zhao Y, et al. Relationship between cervical disease and 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/jmv.23353 19. Gage J, et al. Reassurance against future risk of precancer and cancer conferred by a negative human papillomavirus test. *J Natl Cancer Inst*. 2014;106(8). doi:10.1093/jnci/dju153 (Study included conventional Pap, Hybrid Capture® 2 assay). 20. Kruse G, et al. Provider beliefs in effectiveness and recommendations for primary HPV testing in 3 health-care systems. *JNCI Cancer Spectrum*. 2023;7(1). 21. Qin J, et al. Trends in the use of cervical cancer screening tests in a large medical claims database, United States, 2013–2019. *Gynecologic Oncology*, Volume 163, Issue 2, 2021, Pages 378-384, ISSN 0090-8258, <https://doi.org/10.1016/j.ygyno.2021.08.023> 22. Cuzick J, et al.; New Mexico HPV Pap Registry Steering Committee. Uptake of co-testing with HPV and cytology for cervical screening: A population-based evaluation in the United States. *Gynecol Oncol*. 2021 Sep;162(3):555-559. doi: 10.1016/j.ygyno.2021.06.029. Published July 10, 2021. Accessed January 28, 2024. 23. American College of Obstetricians and Gynecologist. Women'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 January 28, 2024. 24. CDC. Prevention Through Health Care: Preventive Service Tables. HPV. <https://www.cdc.gov/nchhstp/preventionthroughhealthcare/preventiveservices/std.htm>. Updated May 2, 2018. Accessed January 28, 2024.

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Pap+HPV Together

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

HOLOGIC®

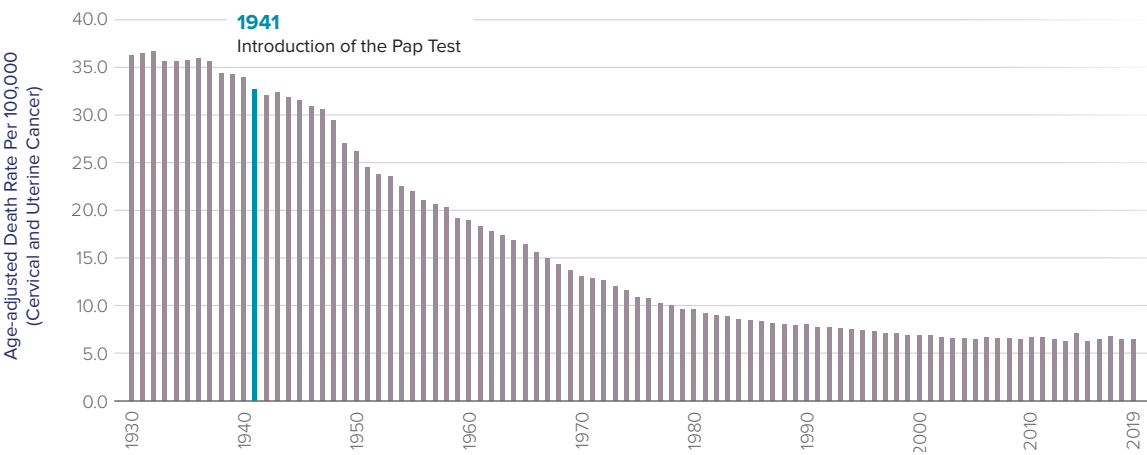


[†]A positive HPV screening result may lead to further evaluation with cytology and/or colposcopy.

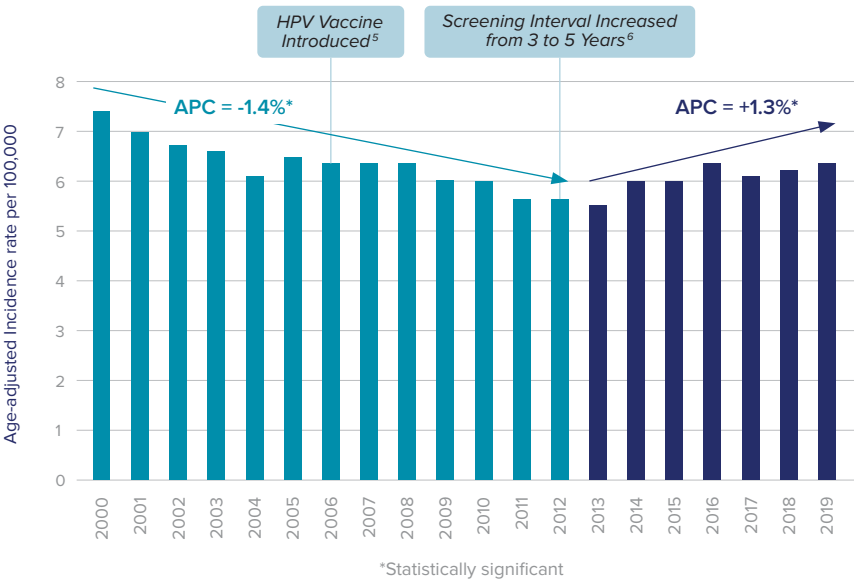
Know the Facts

The Pap Test Has Been the Most Successful Cancer Screening Program in History²

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 80 years ago.³ Previously, cervical cancer was the leading cause of cancer death in women, but now it is the fifteenth most frequent.



Incidence of Cervical Cancer in the US is Increasing in Women <50⁴

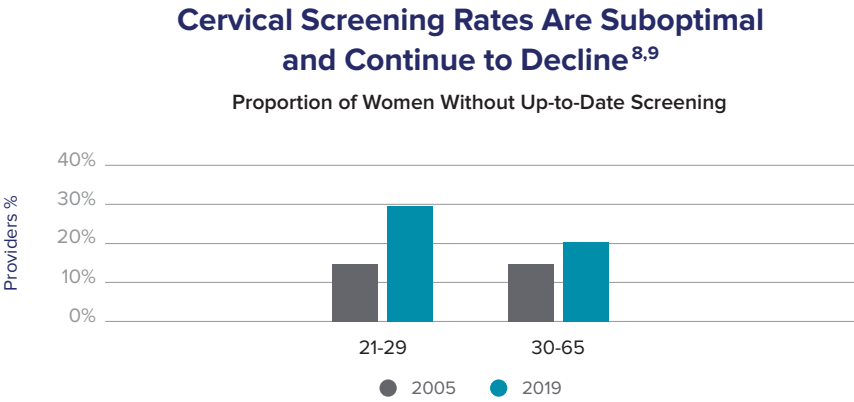


”

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.⁷



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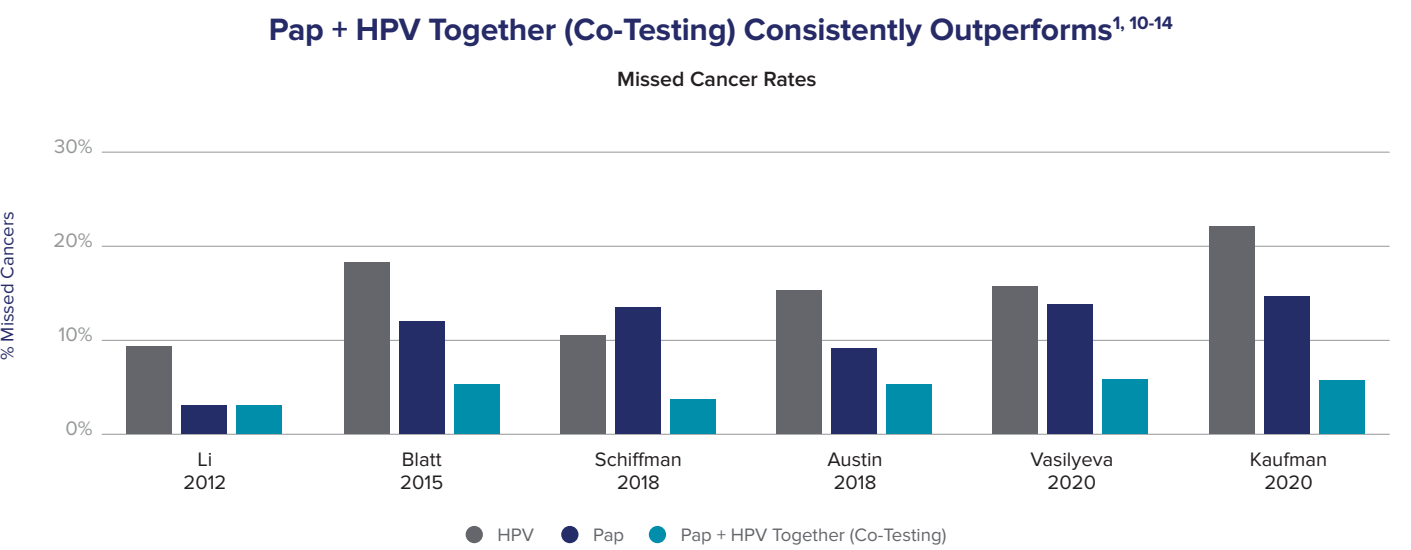
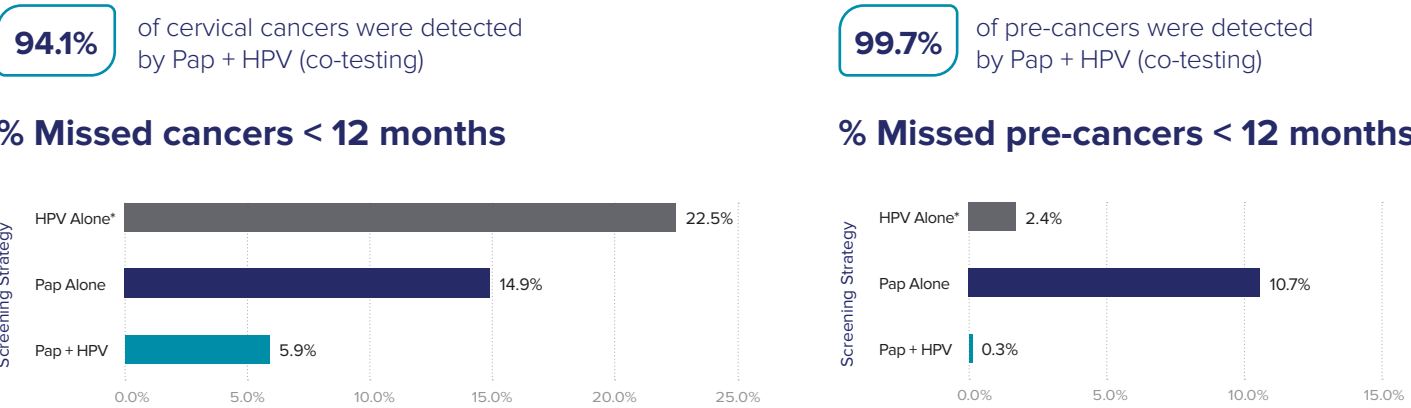
“A new & alarming observation was the increasing percentage of women being screened at too long an interval.”

- Castle et al. 2021⁸

Choose Pap + HPV

Recent Publications Representative of US Clinical Practice Showed Pap + HPV (Co-testing) Misses the Fewest Cancers/Precursors to Cancer

Key Study from 2020-Kaufman (Quest)¹



Pap+HPV Together (Co-testing) Studies: Key Findings

1 in 5

cervical cancers were missed with HPV Alone^{*11,13}

Screening with Pap + HPV (Co-testing) identified

70%

of the cancers missed by HPV-Alone^{*1}

95%

of cervical cancers were detected with Pap + HPV (Co-testing)^{11,13}

Don't Sacrifice

Several Clinical Studies Confirm Screening with HPV-Alone* Missed Cervical Cancer Proportion of HPV Negative Cancer Cases^{1,11,13,15-19}

Study	% Missed
Katki et al 2011	31%
Zhao et al 2013	14%
Zhao et al 2014	17%
Zhao et al 2012	17%
Gage et al 2014	19%
Blatt et al 2015	19%
Austin et al 2018	24%
Kaufman et al 2020	28%





“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.¹³

Regardless of the Algorithm, the Cervical 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)	HPV-Alone*
COLLECTION METHOD	 Cervical Collection	 Cervical Collection
RESULTS	 HPV Test Result  Cytology Result	 HPV Test Result  Cytology Result