Concordance of hrHPV testing among clinician-collected and patient-collected samples: A Systematic Review

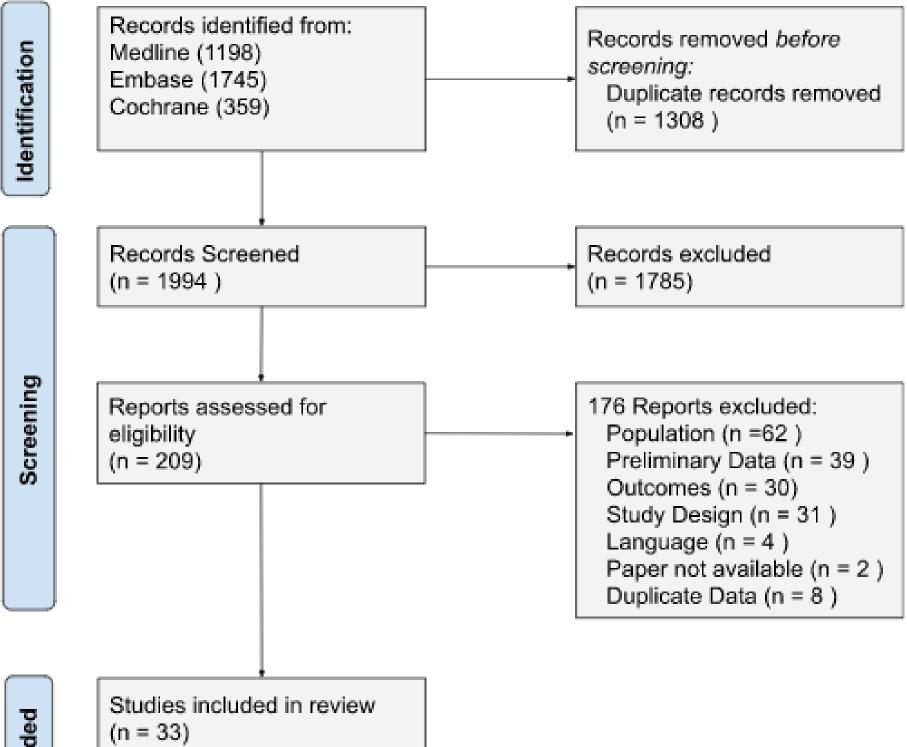
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Introduction

- In 2018, the USPSTF updated recommendations for cervical cancer screening to include high-risk HPV (hrHPV) testing, alone or with cytology, every 5 years in women 30-65 years old ¹
- Samples for hrHPV testing can be collected by the patient through self-swab kits, a method called "self-sampling"
- Patient-collection my be one strategy to increase screening rates in under-screened populations²
- The goal of this study was to perform a comprehensive systematic review examining the concordance of hrHPV testing between cliniciancollected and patient-collected samples

Methods

Systematic Review PRISMA diagram



Included

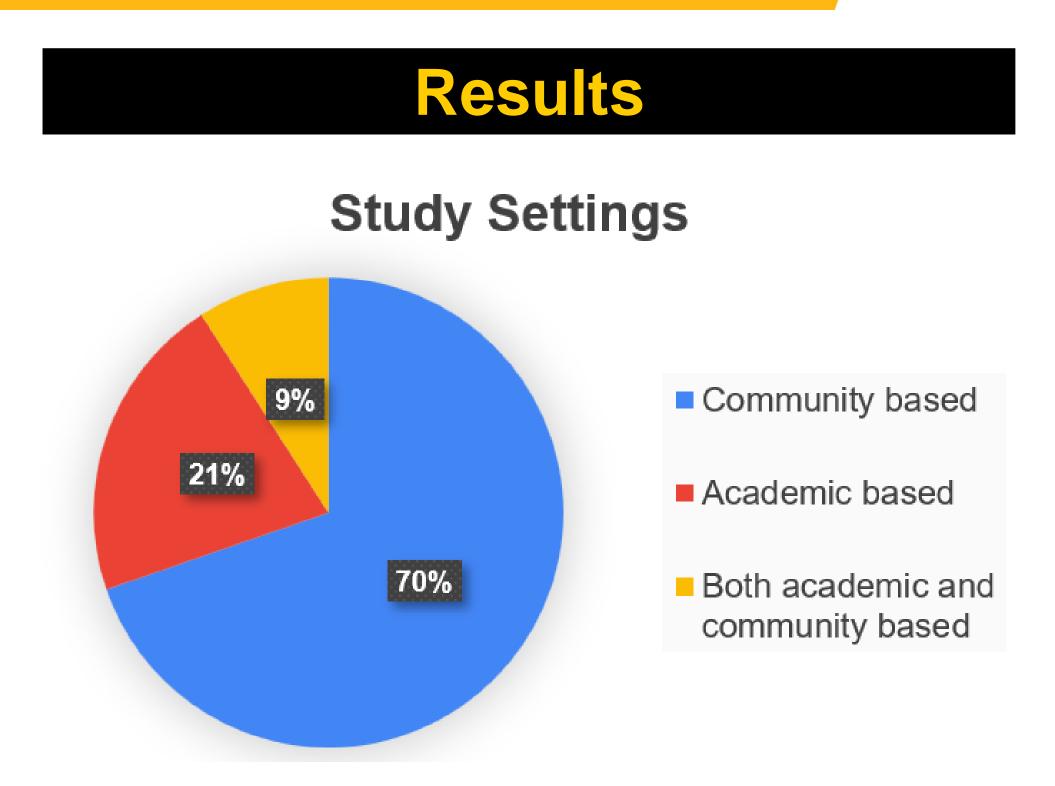


Table 1 – Range of HPV Detection Rates

	Range of positive detection rates (%)	N
Self-collected HPV testing	4.7 - 63.0	33
Clinician-collected testing	3.7 - 62.0	33

Table 2 – Concordance and Kappa between Self-collected and Clinician-Collected Samples

	Average	Range	Ν
Concordance	89.29%	76.4% – 96.2%	33
Карра	0.65	0.37 – 0.77	33



Conclusion / Implications

- The average concordance and kappa values suggest strong, substantial agreement between self-collected and clinician-collected samples
- Self-sampling primary HPV testing is an accurate, reliable method to identify HPV positivity
- We hope our results will help inform HPV screening guidelines on incorporating selftesting in the future.
- Further research is needed to identify practical implications of offering self-sampling and evidence-based strategies to implement into clinical practice

Sources

- US Preventive Services Task Force, Curry, S. J., Krist, A. H., Owens, D. K., et al. (2018). Screening for Cervical Cancer: US Preventive Services Task Force Recommendation Statement. JAMA, 320(7), 674–686. <u>https://doi-</u> org.proxy.library.vcu.edu/10.1001/jama.2018.10897
- Huffstetler A. N. (2020). The Positive Impact of Primary hrHPV Self-Testing. Journal of women's health (2002), 29(7), 894-895. https://doi-org.proxy.library.vcu.edu/10.1089/jwh.2020.8432

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