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HPV Testing

- careHPV: most affordable and suitable molecular test for LMIC settings test as of 2014
- Qualitative diagnostic for 14 high-risk HPV types
- Tests were financed through PATH/BMGF during project period with a goal of transitioning to country procurement.
- Batch processing at referral labs (n=90)
- ~10% plate failures leading to invalid results & waste
- Women had results within ~1 month

Self-Sampling



Screening Results

Total screened in Guatemala, Honduras, & Nicaragua:

> 270,000 women 30 – 65 years screened using HPV testing as primary screening in public sector clinics and outreach

Screening history:

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- · 43% never screened
- · 35% screened > 3 years ago

HPV prevalence

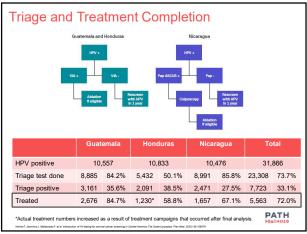
- 13.6% positive for HPV Peak 28% at 20-24 vo

*An additional 40,000 women were screened in 2019-2020 after the final project analysis

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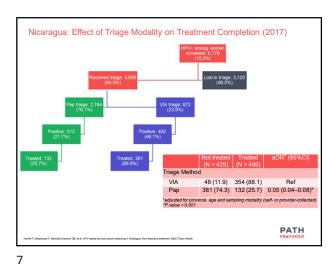
75% of women screened used self-sampling Nicaragua: 97.1% Guatemala: 90.2% Honduras: 75% (Tegucigalpa) Implementation of self-sampling: Community health outreach in markets, neighborhoods Key to increasing testing volume & coverage Avoid provider time, space, pelvic exam Women's agency



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Thermal Ablation

- Clinical trial of Liger Thermocoagulator within in 4 public sector clinics Honduras
- 319 HPV positive VIA positive women 30-49 y/o
- Women rated post-procedure pain rating on Wong-Baker visual pain scale [0 (no pain) -10]

 - Average pain rating was 2.5
 85% of women rated pain < 6
 100% comfortable recommend friend
- Biopsy confirmed at baseline:
 - 239 (75%) normal / CIN1
 - 2 cases of cancer
- 126 women completed repeat HPV testing and VIA
 - · 98 (83.1%) had no evidence of CIN2-3 or
 - persistent low-grade infection

 1 case of persistent CIN3



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Strategies for Re-screening

- HPV positive triage negative women are a priority group for re-screening at risk of persistent HPV infection
 - 36% HPV positive at ~1 year
- During Scale-Up very few HPV positive triage negative women returned independently for re-screening at 1
- Evaluated and effectiveness of recall strategies (phone, SMS, phone visit) to remind 558 women to return to the clinic for 1-year follow-up in Honduras

 - 98.6% successfully contacted
 75.1% women completed re-screening
 Mean: 2.1 contacts and within 10 days
- In the absence of screen-and-treat, surveillance of HPV positive women is critical > 1 year, especially with an extended screening interval

Tromson KA, Sandoval M, Bain C, et al. Recall Efforts Successfully Increase Foliou-Lip for Cervical C Among Women With Human Papilliomavirus in Honduras. Global Health: Science and Practice. 2020



Conclusions

- Government adoption of HPV testing achieved
- Self-sampling well received by women and key to achieving high coverage
- Thermal ablation is acceptable and effective, but treatment completion remains challenging when a triage step is included
- Routine analysis of patient-level data is critical to inform project effectiveness
- Budget allocation and procurement of HPV test by country governments remains a barrier to long-term sustainability
- Retention and recall efforts are needed throughout the screening and treatment cascade





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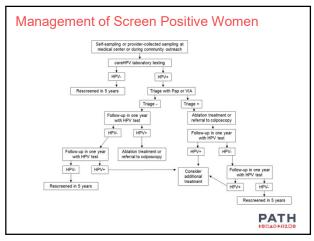
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