

Advancing Cervical Cancer Screening

Addressing a leading cause of cancer death for women in low resource settings

One woman dies every two minutes



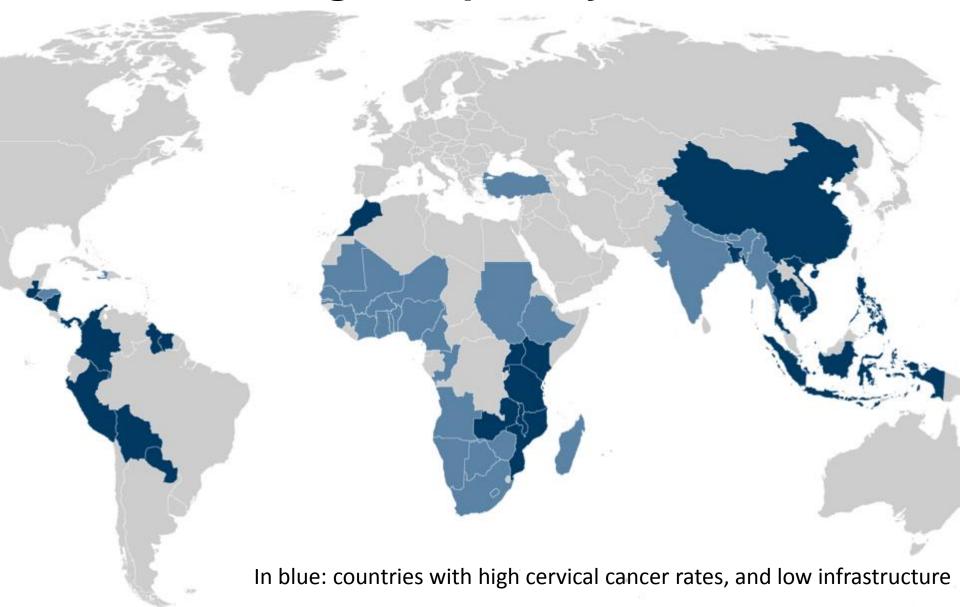
Cervical cancer kills 270,000 women per year 85% in the developing world

1.2 billion screenings required per year globally

Women in low-resource settings are hard to reach

For these women, VIA is the current screening program But VIA has poor accuracy

Global need, global priority



Multiple approaches to screening



- HPV: High sensitivity, high likelihood of over treatment.
- Pap/Cytology: Costly, greater specificity. Huge variation in quality.
- VIA: Least expensive and most accessible. Low sensitivity and specificity.

Importance of Visual Inspection



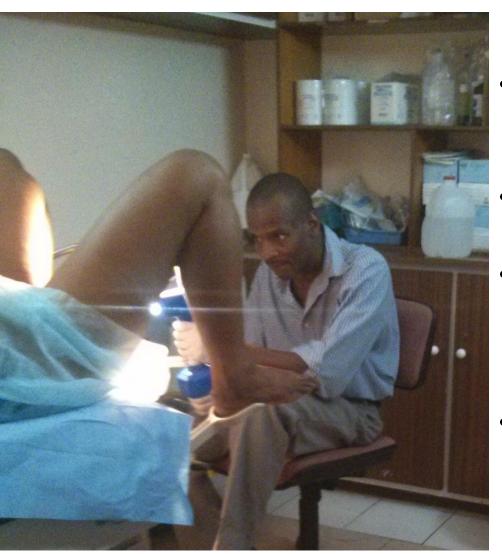
- HPV tests alone will lead to overtreating 9 out of 10 women
- Visual inspection's main goal will be increasing specificity
- Since histopathology is unattainable in many circumstances, visual inspection will focus on triage
- New algorithms can aid health workers in making optimal decisions on triage

Use of technology to aid visual inspection

Multiple approaches have been taken to aid in visual inspection of the cervix:

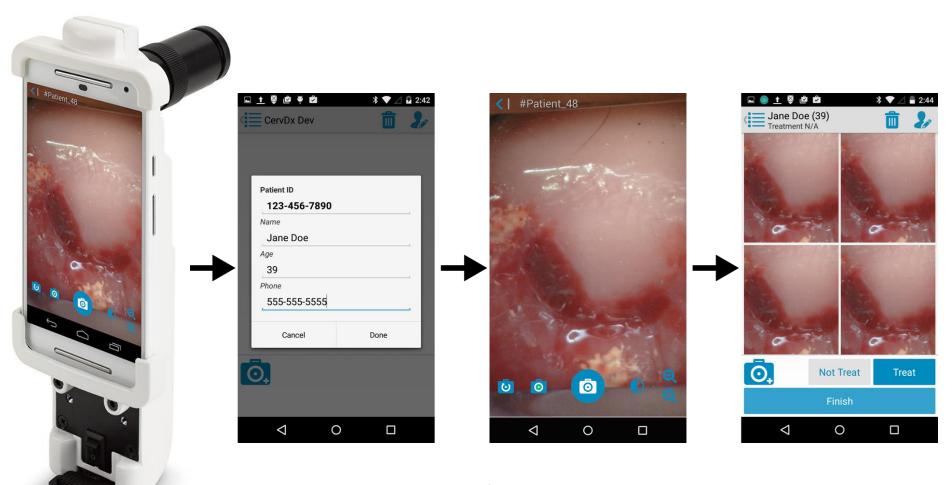
- Low-cost optical colposcopy
- Visual enhancement
- Low-cost digital colposcopy
- Mobile phone based cervicography
- Mobile phone based colposcopy

Mobile colposcopy to optimize visualization



- All visual enhancement techniques enable better visualization of the cervix than VIA
- Digital methods of viewing lose
 3D, but gain image enhancements
- The mobile phone revolution provides us with powerful new tools for optimal imaging and mobile analysis
- Mobile phones enable native collaboration.

How mobile colposcopy works



Mobile phone platform ensures collaboration is built in, algorithmic analysis forthcoming

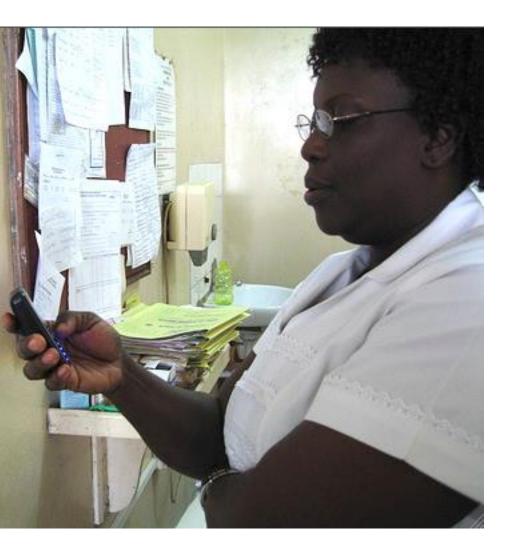
Preliminary data on outcomes

- Enhanced visualization tools have been used worldwide, and tested in multiple countries.
- The mobile colposcope has been tested in 7 countries in over 1000 screenings.
- Preliminary data shows that enhanced visualization can significantly improve specificity.

Preliminary data from one country case study:

Patients screened using VIA	750
Positive screens based on VIA	25
VIA+ patients screened with the Mobile Colposcope	
Positive screens	20
Overtreatments avoided	5
% of overtreatments avoided	20%
Estimated cost savings for one week	\$140

Mobile phones as a point of care



- Today, everyone walks around with a supercomputer in their pocket.
- Mobile phones already recognize faces; soon they will spot disease.
- As smartphones become smarter, augmented visualization can revolutionize the point-of-care – and turn any phone owner into a primary screener.

Together we can defeat cervical cancer in our lifetime.



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