

Determining the Optimal Cervical Carcinoma Screening Method in HIV positive and HIV negative Cambodian Women

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Improving Lives Through the Prevention & Treatment of Anogenital & HPV-Related Diseases **ASCCP**2018 Annual Meeting



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Cambodia



-Population: 15 millions -25 provinces -Land: 181,035 km2



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4000 temples in Cambodia





Angkor Wat temple



Smelle Serloz Combos

-The most Ancient seven wonders of the world. -The Khmer King Suryavarman II in the early 12th Century.



International Agency for Research on CarCervix uteri, all ages





OBJECTIVE

- Traditional Cytology –based cervical cancer screening challenging in developing countries.
- Alternative screening strategies must be developed to screen millions of women in resource poor countries.



METHODS

Study design	Cross-sectional study		
Age range	30 – 49 years		
Study population	250 (129 HIV+ / 121 HIV -)		
Study period	1 year (18 October 2016- 18 October 2017) (Recruit only 4 months from 18 May to 13 September 2017)		
Setting, Sponsor	SHCH, Phnom Penh, Cambodia, The Gynecologic Cancers Research Foundation		
Screening methods	 Self-sample HPV testing (careHPV[™] system, Qiagen, Maryland), Clinician-collected HPV testing Visualization with Acetic Acid (VIA) Digital Cervicography (DC) with the EVA[™]System(MobileODT, Israel). 		

Care HPV^{TM}



signal-amplification, rapid batch diagnostic test for high-risk HPV DNA



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Digital Cervicography (DC) with EVATMSystem





NobileODT



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Results

	HIV (+) 129	HIV (-) 121	Total 250
HPV (+)	37 (28.6%)	19 (15.7%)	56 (22.4%)
HPV(-)	92 (71.3%)	102 (84.2%)	194 (77.6%)
DC(+) and VIA(+)	23 (17.8%)	13 (10.7%)	36 (14.4%)
DC(-) and VIA(-)	106 (82.1%)	108 (89.2%)	214 (85.6%)
Cervical biopsy CIN 1 and CIN 2	20 (15.5%) (CIN 1=17 & CIN2=3)	8 (6.6%) (CIN1=7 &CIN2=1)	28 (11.2%) (CIN1=24 CIN2=4)
Refused cervical biopsy	3 (2.3%)	5 (4.1%)	8 (3.2%)

- Self-sampling identified 50/56 (89%)
- Physician obtained specimen only 45/56 (80%)
- Digital cervicography was able to differentiate between HGSIL and LGSIL all 28 women who had cervical biopsy.



Conclusion (1)

- Care HPV[™] allows rapid and inexpensive detection of HR+ HPV.
- Self- sample HPV collection detected more high risk than HPV clinician-collected.
- DC with EVATM was able to distinguish between low and highgrade cervical dysplasia.
- DC also allows women with probable HGD to have a LEEP rather than cryotherapy.



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Conclusion (2)

- DC is superior to VIA as images can be used for documentation, quality control, and telemedicine consultation.
- Suggestion:

 A combination of self-sampling HPV testing and subsequent DC of hr HPV+ women can be an efficient and cost-effective see-and-treat cervical cancer screening strategy.



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Thank you for your attention!

