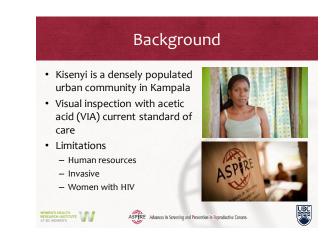




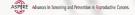
Women living with HIV (WHIV) are at greater risk for acquiring human papillomavirus (HPV) and progressing to cervical cancer As technology develops, a variety of approaches to cervical cancer screening are now possible, policy makers are continually evaluating new models of care Utilizing a self collection method for the detection of high risk strains of HPV (HR-HPV) is a novel approach to cancer screening in low resource settings **Control of Carcal Specific and Proceedings in Agriculture Carcas** **Control of Carcas** **Control



Methods

- 500 women recruited and randomized to selfcollection based HR-HPV testing or VIA
- HIV status was self-identified at time of recruitment
- HR-HPV arm: given a swab at place of recruitment
- VIA arm: referred for VIA at the local health unit where VIA positive women were provided cryotherapy at time of screening
- Women in both arms were referred to colposcopy when indicated







Analysis

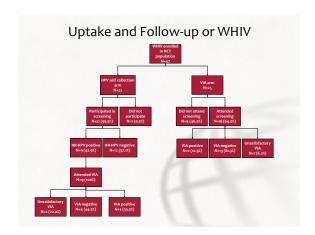
- Uptake rates of screening and HPV status in WHIV vs HIV- women were compared using Chi-square or Fisher's exact test, as well as demographic/risk factors.
- Logistic regression was performed to determine demographic/risk factors significantly associated with HIV status: adjusted odds ratios (AOR) and 95% confidence intervals (CI) reported

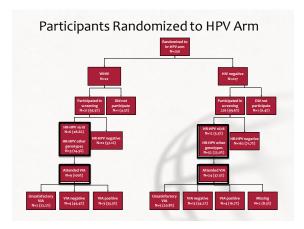
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		WHIV Total N=47 N(%)	HIV- Total N=453 N(%)	p-value
Variable	Variable Level			
Age	Mean(SD)	39.62(8.64)	38.99(9.78)	0.43
	Single	7(14.9)	93(20.6)	0.03
	Common law	16(34.0)	200(44.3)	
	Married	3(6.4)	46(10.2)	
	Separated/divorced	13(27.7)	84(18.6)	
	Widowed	8(17.0)	28(6.2)	
Work outside of the home	Yes	36(76.6)	328(72.6)	0.67
	No	11(23.4)	124(27.4)	
Accommodation	Rent	40(87.0)	319(71.0)	0.03
	Own (or partner owns)	6(13.0)	130(29.0)	
How much money do you have to live on each week	Less than 15,000 UgSh	42(89.4)	365(81.7)	0.26
	More than 15,000 UgSh	5(10.6)	82(18.3)	
Religion	Catholic/ Christian (various denominations)	32(68.1)	311(68.8)	1.00
	Muslim	15(31.9)	141(31.2)	
How long to walk to nearest health centre?	Less than 10 minutes	12(25.5)	176(39.7)	0.12
	Less than 30 minutes	25(53-2)	206(46.5)	
	More than 30 minutes	10(21.3)	61(13.8)	
Age at first sexual intercourse	Mean(SD)	16.76(2.64)	16.99(3.05)	0.76
Number of pregnancies	Mean(SD)	4.47(2.24)	4.49(3.02)	0.03
Ever had a pelvic exam	Yes	7(14.9)	36(8.0)	0.27
	No	40(85.1)	441(91.7)	
	Don't know	0	1(0.2)	
Number of male partners in past week	None	24(51.1)	146(32.4)	0.03
	One	23(48.9)	295(65.6)	
	Two - Five	0	9(2.0)	





Discussion

- Self-collection based screening had high uptake in both WHIV and HIV- women
- Highly acceptable and improves access compared to VIA alone
- Completion of screening and treatment in WHIV randomized to HPV self-collection suggests potential for integration into comprehensive HIV care programs

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Conclusions

- This innovative approach to cervical cancer screening has significant benefit for WHIV
- · Higher HR-HPV infection rates in WHIV requires a focus on low-barrier options for screening









ASPIRE Advances in Screening and Prevention in Reproductive Cancers



Publications

- Moses E, Pedersen HN, Mitchell SM, Sekikubo M, Mwesigwa D, Singer J, Biryabarema C, Byamugisha JK, Money DM, Ogilvie CS. Uptake of community-based, self-collected HPV testing vs. visual inspection with acetic acid for cer
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- Mitchell SM, Sekikubo M, Biryabarema C, Byamugisha J, Steinberg M, Jeronimo J, Money DM, Christilaw J, Ogilvie GS. Factors associated with high-risk HPV positivity in a low-resource setting in sub-Saharan Africa. Am J O
- Ogilvie GS, Mitchell SM, Sekikubo M, Biryabarema C, Byamugisha J, Jeronimo J, Miller D, Steinberg M, Money D. Results of a community-based cervical cancer screening pilot project using human papillomavirus self-sampling in Kampala, Uganda. int J Gynaecol Obstet 2013; 12(2):181-123.
- Mitchell SM, Ogilvie GS, Steinberg M, Sekikubo M, Biryabarema C, Money DM. Assessing women's willingness to collect their own cervical samples for HPV testing as part of the ASPIRE cervical cancer screening project in Uganda. in: J Gynacol Obstet 2011;7(4)(2):11-15.





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