

### HPV testing using self-collected versus doctor-collected cervical samples for cervical cancer screening and the acceptance of women towards self-sampling

T.A TIITI

## Aim of the study

This study aims to determine the sensitivity of self-collected samples to doctor-collected samples for HPV DNA and mRNA testing and in addition to evaluate the acceptance of women towards self-sampling for cervical cancer screening



## Objectives

- To investigate the sensitivity of selfcollected samples and doctor-collected samples for HPV testing screening among women attending gynaecology clinics at DGMAH
- To determine the prevalence of HR HPV infection in self-collected samples compared to doctor-collected samples



- To determine the prevalence of HR HPV E6/E7 mRNA in self-collected samples compared to doctor-collected samples
- To evaluate the acceptance of self-sampling for cervical cancer screening among women attending gynaecology clinics at DGMAH



## **Study Population**

Doctor-collected and self-collected samples from women aged ≥18 years

> Attending gynaecology clinics at DGMAH



## Sample collection

A self-collection cervical health screening kit manufactured by ilex South Africa (Pty) Ltd is used

A speculum is used to open the vaginal canal and a Cervex-Brush<sup>®</sup> Combi is used to collect cervical cells





## **Sample Processing**



## Sample size

- Sample size = 450
- Analysed samples thus far (HPV DNA and HPV mRNA) = 396

	talan baa	-144 (19)		2:			
these discount of the	Contraction of		See.	Feet	1041		
All Arners Chile Mr.	28 Country 1						
na Paters singe -	Countral Ages	COURSELLAR.	Conta - 1	Threbak	shrand - 10	spalation + 428	B IN ARE.
and the second second	- 200 M	A	Manual	Second Views -	4303	BELCOWI -	
Tubbel A-	OR Mighaniation	Arts	material conversion	algranotar.	11.042546	COMPACIAL.	
10 CT	N Antiput and I	wohd-	Tanni Jahong	devictors and the	1441	abaux.	
- Country	m.Albana	AL.	Talana.	Riterial	10.00	330008	
13 r	A Advantage hard	o at Milat	Page Rept	Annamolan Sami	201	MADE.	
	A ANDORS	AND	Windowta barriet	I Briddeira	- 401	72796	
	W Argnia	4345	A standa	bushing .	Link(http://www.com/	- BOARSHY -	
	T. Astronya .	2059	Terrent	and income of	2080	24(2)75	
	* A0.09 *-	A45	converse.	Aryba :		201005	
	N Assessed	Matt	General	Australia Carro	Healthin -	CALMANNAL.	
	Adaptities -	A.04	The Valley	whether a	· · ·	29409	
	CK Artshauer	347	Matrix .	Anothelper 11	20088	363865	
	a helping	8.1	Branistia	Brecked .	and a	2012/02/02	
	of theraphitical	80	- Elliphis	But ghat the little	10000	11985300	
	* Sadurdus	806	Bridgeluters .	Barkerint.	. 610	21/78/8	
	the depart	809	PODO-NOVE	BARNIN	DURINE	5/99045	
	il hermute	WATER .	tractation	Bertholds.	14	ACMUT.	
	a mining have	181	Designational in	Backing Factor	110.001	20603216	
	in polpina	66.	Sela	Bulgaria	LANCES -	962057	
	W Shuter	347	through	Rivelan .	4704	202002	
	IF BUTCHE	B1 .	an interiora	Bucuretti 1	110	2040057	-
	049					UNREPORT.	)



## Demographics

- The mean age was 38.1 = 10.9)
- Majority of women were younger than
  40 years and were all black



### Overall HPV Prevalence in Selfcollected samples



1 AUGUST - 2 SEPTEMBER 2018

### Overall HPV DNA Prevalence in Doctor-collected samples



# HPV genotypes in Self-collected samples vs Doctor-collected samples





## HPV DNA Agreement

SC DNA results \* LBC DNA results Crosstabulation

			LBC DNA results		
			Neg	Pos	Total
SC DNA results	Neg	Count	200	22	222
		% within SC DNA results	90.1%	9.9%	100.0%
		% within LBC DNA	91.7%	12.4%	56.1%
		results			
	Pos	Count	18	156	174
		% within SC DNA results	10.3%	89.7%	100.0%
		% within LBC DNA	8.3%	87.6%	43.9%
		results			
Total		Count	218	178	396
		% within SC DNA results	55.1%	44.9%	100.0%
		% within LBC DNA	100.0%	100.0%	100.0%
		results			
Measure of agreement (kappa = 0.795)					



## Acceptability towards Self-Sampling

### 353 samples analysed

#### Pain/SC

		Frequency	Percent
Valid	no	300	85.0
	yes	53	15.0
	Total	353	100.0

#### Worried/SC

		Frequency	Percent
Valid	no	281	79.6
	yes	72	20.4
	Total	353	100.0

#### Use/SC

		Frequency	Percent
Valid	no	43	12.2
	yes	310	87.8
	Total	353	100.0

