

Acceptability and satisfaction with HIV selftesting among female sex workers: findings from a pilot project in 15 Indonesian priority districts

Januraga PP¹, Sawitri AAS¹, Mahendra IGAG², Magnani RJ³

¹ Department of Public Health and Preventive Medicine, Faculty of Medicine, Udayana University, ² Yayasan Kerti Praja, ³ Faculty of Public Health, University of Indonesia

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Outline

- Background
- Setting
- Method
- Results
- Discussion

Background

- FSW and their clients remain priority or key populations for HIV and AIDS control in Indonesia
- Epidemic modelling indicated that, combined, FSW and their clients accounted for 24% of new infections in 2019 and 14% of all PLHIV
- Data from the 2018-19 IBBS indicated inadequate levels of HIV testing coverage among FSW are rather low (42% ever tested) and extremely low among clients of FSW (15%)
- Recent data on 5094 FSWs visiting a CBC in Bali, Indonesia during 2018-2021 → only 19% have visit more than one
- HIVST using OFT as new modality, that has been evaluated with high sensitivity and specificity, as well as high level of acceptability among KPs in some countries such as Thailand



Primary research questions:

• Does the introduction of community HIV screening among FSW increase the rate of HIV testing?

Secondary research questions:

- What is the acceptability of community-based self-screening for FSWs participating in this study?
- What is the satisfaction of FSWs participating in this study towards delivery of community-based self-screening?

Study setting

Study was performed in the context and network of existing HIV program structure for FSWs involving key stakeholders UNFPA, OPSI, implementing partner organizations, outreach workers (OW) and peer leaders (PE)

Global Fund	2020 study implementation
Principal Recipient (PR)	MOH Spiritia Foundation
Subrecipient (SR)	UNFPA
Sub-subrecipient (SSR)	SSR Region 1 SSR Region 2 SSR Region 3 (Kerti Praja Foundation) SSR Region 4
Implementing Units (IU)	Community based organizations in 23 districts including Kerti Praja Foundation
	15 Districts in the interventions group

2019 protocol development

Eligibility criteria

Inclusion criteria:

- Female, 18 years old and above
- Reported transactional sex (vaginal, oral, and/or anal) at least once within one month
- Have never been tested for HIV test or had not been tested in the past six months
- Self-reported HIV negative or HIV status unknown
- Not currently participating in any other HIV prevention study.

Exclusion criteria:

• Unwilling to participate for any reason.

Mode of delivery

To increase the visibility of this trial, branding strategy was employed by using the title Teman-kita (Tes Mandiri Komunitas).

- 1. Outreach Workers
 - Face-to-face outreach
 - Virtual outreach through social media and dating applications
- 2. Social Media Campaign \rightarrow website for self registration
 - Content development on Facebook, Instagram, and Twitter
 - Managed by research staff from March-June 2020 then by digital marketing team from July-October 2020
- 3. Satelit Pengambilan Kit OFT (SPOT)
 - Established as an OFT pickup point to increase participants to register independently
 - Location was at a salon in East Jakarta which was frequented by local FSWs

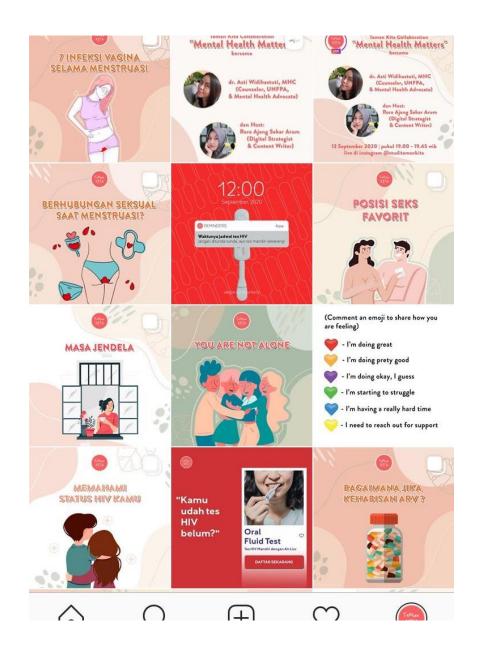
The campaign

"Kamu udah tes HIV belum?"



DAFTAR SEKARANG







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Data collection

Start of data collection

- The start of data collection was varied in each district based on the virtual training. (see Table)
- The virtual training was scheduled based on the preparedness of every IU with consideration to the availability of internet connection, computers, and smartphones and the level of restriction implementation in each district regarding pandemic of COVID-19

End of data collection

- The last day to register for the study was October 25, 2020, after which, OWs were no longer able to input new outreach and participant registration
- The participants who were already registered but have yet to complete remaining steps were given the opportunity to do so until October 31, 2020

Data collection starting times in intervention cites

Start of data

collection	Districts					
4/20/20	Denpasar					
4/23/20	Palembang					
5/4/20	Malang					
5/6/20	Jakarta Timur					
5/11/20	Sorong					
5/12/20	Jakarta Pusat					
5/14/20	Tangerang					
5/14/20	Tangerang Selatan					
5/15/20	Jakarta Barat					
5/18/20	Depok					
5/18/20	Surakarta					
5/28/20	Medan					
5/28/20	Deli Serdang					
5/28/20	Bogor					
5/29/20	Surabaya					

Flowchart of participation part 1

Recruitment		Eligibility selection	Informed consent process	Choosing type of testing
→	→	→	→	→
Outreach 3,377	Enrollment 2,772	ΙΕΠΟΙΝΙΑ Ι ΥΥΥ	Agree to participate	Withdrew 74 (7 were self- withdrawal) Chose blood test 271
Independent registration 428 (80 were truly FSW)				Chose OFT test 1,562 (82%)

Flowchart of participation

Choosing test	g type of ing	Undergoing OFT testing	OFT testing result	Undergoing Blood or Confirmatory testing	Blood or confirmatory result	ARV initiation	
÷	•	>	→	→	``	→	
	Chose unassisted test 34	Underwent testing and reported result 29	OFT non-reactive result 29	Confirmatory test 1	Confirmatory non- reactive result 1		
	Chose OFT test 1,562 Chose	OFT non-reactive result 1,449	Confirmatory test 77 (71 conducted test without uploading the result through Teman-kita website)	Confirmatory non-reactive result 77			
			OFT reactive result 35 (2,3%)	Confirmatory test 24 (69%)	Confirmatory non- reactive result 2		
					'	ARV initiation 19 (86%)	
assisted test	reported result	OFT indeterminate result by researcher 22	Confirmatory test 5 (2 conducted test without uploading the result through Teman-kita website)	Confirmatory non- reactive result 5			
				Confirmatory non-reactive result 3			
			OFT indeterminate result by participant 10	Confirmatory test 6 (60%)	Confirmatory reactive result 2	ARV initiation 2	
					Confirmatory indeterminate result 1		

Characteristics	Tota	1	OFT Unass	isted test	OFT Assisted test		χ ² p-
Characteristics	n	%	n	%	n	%	value
	1,545	(100)	29	(1.9)	1,516	(98.1)	
Age groups	Mean=31; median=30	-	Mean=26 median=2		Mean=31 median=30		0.003
≤ 19 years old	110	(7.1)	6	(20.7)	104	(6.9)	
20-29 years old	620	(40.1)	16	(55.2)	604	(39.8)	
30-39 years old	511	(33.1)	2	(6.9)	509	(33.6)	
40-49 years old	257	(16.6)	5	(17.2)	252	(16.6)	
≥50 years old	47	(3.0)	0	(0.00)	47	(3.1)	
Districts							0.004
Medan, Deli Serdang and Palembang	247	(16.0)	7	(24.1)	240	(15.8)	
West, East and Central Jakarta	704	(45.5)	6	(20.7)	698	(46.0)	
Bogor, Depok, Tangerang and South Tangerang	265	(17.2)	5	(17.2)	260	(17.2)	
Surakarta, Malang and Surabaya	135	(8.7)	7	(24.1)	128	(8.4)	
Denpasar	100	(6.5)	4	(13.8)	96	(6.3)	
Sorong	94	(6.1)	0	(0.00)	94	(6.2)	

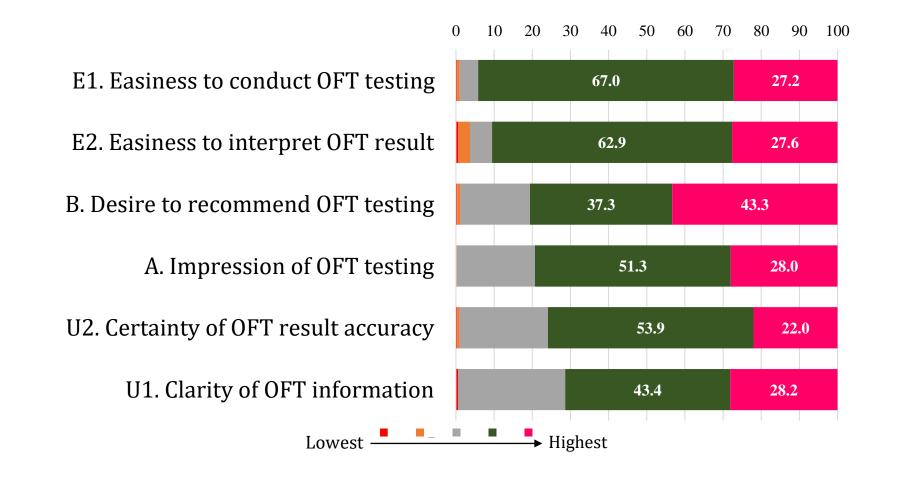
Table 12. Characteristic of participant by type of assistance

Chowe stavistics	Total		OFT Una	ssisted test	OFT Assis	χ^2 p-	
Characteristics —	n	%	r	n %		n %	
	1,545	(100)	29) (1.9)	1,516	(98.1)	
Education level							< 0.001*
Never school and							
graduated from	387	(25.1)	1	(3.5)	386	(25.5)	
elementary							
Graduated from junior	544	(25.2)	3	(10.2)	E /1	(25 7)	
high	544	(35.2)	3	(10.3)	541	(35.7)	
Graduated from senior	574	(37.2)	21	(72.4)	553	(36.5)	
high	574	(37.2)	21	(72.4)	555	(30.5)	
Ever/graduated from	40	(2.6)	4	(13.8)	36	(2.4)	
university Marital status							< 0.001*
	406	(2(2))	22	(79.3)	202	(25 2)	<0.001
Never married	406	(26.3)	23		383	(25.3)	
Married	429	(27.8)	2	(6.9)	427	(28.2)	
Ever married	710	(46.0)	4	(13.8)	706	(46.6)	0.044
Ever done HIV testing							0.064
Ever done	388	(25.1)	3	(10.3)	385	(25.4)	
Never done	1.157	(74.9)	26	(89.7)	1,131	(74.6)	
Received HIV testing							< 0.001*
invitation							<0.001
Yes	831	(53.8)	3	(10.3)	828	(54.6)	
No	714	(46.2)	26	(89.7)	688	(45.4)	

Table 12. Characteristic of participant by type of assistance (cont..)

Note: *significant at α =0.05

Divergent stacked bar of OFT users' satisfaction by 6 statements



TAM component analysis on OFT satisfaction

TAM components	Total		(OFT unassisted testing		OFT assisted testing		t test p-value
	Mear	n SD	Ν	Mean	SD	Mea	n SD	
(U) Perceived usefulness	4.0	0.6		4.1	0.7	4.0	0.6	0.141
(E) Perceived easy to use	4.2	0.6		4.5	0.5	4.1	0.1	0.001
(A) Impression of OFT testing	4.1	0.7		4.1	0.8	4.1	0.7	0.998
(B) Behavioral intention to use	4.2	0.8		4.4	0.6	4.2	0.8	0.193
Total	4.1	0.4		4.3	0.4	4.1	0.4	0.006
	Behavioral intention to use							
TAM components	Weak intention		Strong intention			OR	p-value	95% CI
	Mean	SD	Mean	SD				
Perceived usefulness	3.8	0.6	4.0	0.6		1.7	< 0.001	1.4-2.1
Perceived easy to use	4.1	0.5	4.2	0.6		1.3	0.012	1.1-1.7
Impression of OFT testing	3.7	0.7	4.2	0.7		2.4	<0.001	2.0-2.9

OFT as an alternative strategy for testing is well received by the community

- The high number of independent registrations indicated that wider communities had high interest for HIV self-testing
- Acceptability of OFT was high number of first tester →12 of 15 districts in which the proportion of the first-time tester was ≥50%.
- The majority of participants had high trust to the OFT accuracy in line with high sensitivity and specificity
- Further exploration needed for HIVST confirmatory testing among FSW is Indonesia.

Outreach works have important position in delivering HIV services

- Majority of participants enrolled through OW
- Majority of participants enrolled through OWs chose assisted testing (97.8%)
- High ARV initiation (87.5%) compared to previous study among key populations in Indonesia where ARV initiation was 75% (Januraga et al, 2018)
- 1.4% assisted OFT results were interpreted as nonreactive but categorized as indeterminate by researchers based on uploaded images
- Robust training and competency tests needed for OWs



Conclusions

- CBS HIVST using OFT appears to be highly acceptable to FSW in Indonesia and and tends to be trusted - Service satisfaction was high among FSW who received OFT;
- Strong preference among Indonesian FSW to receive test kits through outreach workers and to be assisted in carrying community screening.
- In the short run, scaling up HIVST will depend upon the deployment of outreach workers to reach FSW and other key populations.
- The global experience suggests that as people become more comfortable with HIVST technology, there tends to shift toward increasing acquisition of test kits via other distribution channels and self-testing in private.

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Thank you!!!!