Note: This is Online Appendix 1 of Kufa T, Tobaiwa, O, Cutler, E, et al. Acceptability and performance of dual HIV/syphilis testing in male circumcision clients, 2021. S Afr J HIV Med. 2024;25(1), a1571. https://doi.org/10.4102/sajhivmed.v25i1.1571.

Table 1: List of variables included in the questionnaire

Demographic	Age, risk group, location, education, employment, smoking, alcohol			
Clinical	History of STI treatment in the past 3months, partner STI history and treatment,			
	other illnesses , HIV testing (lab confirmed and self-reported) , ART use, most recent			
	viral load, ever circumcised, circumcision method			
Behavioural	Age at first sex, condom use at last sex, number of sexual partners in the preceding			
20.101.001.01	3 or 12 months, type of sexual partner in the last 3 months (regular or non-regular),			
	sexual act type, new sexual partner, history of recent travel, recent sex under the			
	influence of alcohol or drugs			
NDOH screening tool	Do you have a genital discharge?			
questions	Do you have a genital ulcer?			
'	Has your partner been treated for an STI in the past 8 weeks?			
Risk perception	Referring to your past and present sexual practices, at which level do you rank your			
' '	risk of contracting HIV?			
	5-point Likert scale ranging from 5 (very high) to 1 (not high at all),			
Acceptability of dual	Before test			
testing by participants	- Would you like to be tested for HIV (yes, no, do not know)?			
0 /1 1	- Would you like to be tested for syphilis (yes, no, do not know)?			
	- Would you prefer two single tests or one dual test? (single, dual, it's the			
	same, do not know/don't care			
	- If you prefer a single test, why? (I do not want to be tested for HIV, I do not			
	want to be tested for syphilis, other).			
	[if participant did not want to test with the dual HIV/syphilis test, the test was not			
	administered]			
	- Would you be willing to wait for the results at the clinic, directly after the			
	tests are performed? (Yes, no, do not know).			
	- If yes, how long would you be willing to wait? (Up to 20 min, up to 30 min, up			
	to 1 hour, up to 2 hours, do not know other). If other, please describe.			
Test results	HIV – Negative, Positive, Discrepant			
	Syphilis – Negative, Positive, equivocal			
Acceptability of dual	After test			
HIV/syphilis testing by	I liked being tested for HIV and syphilis at the same time			
participants	a five-point Likert scale ranging from 5 (strongly agree) to 1 (strongly disagree)			
	I was happy the results of the syphilis test			
	a five-point Likert scale ranging from 5 (strongly agree) to 1 (strongly disagree)			
	I was happy with the results of the HIV test			
	a five-point Likert scale ranging from 5 (strongly agree) to 1 (strongly disagree)			
	I would recommend this test to a friend			
	a five-point Likert scale ranging from 5 (strongly agree) to 1 (strongly disagree)			
	I am willing to pay for the test in the future			
	a five-point Likert scale ranging from 5 (strongly agree) to 1 (strongly disagree)			
	How much would you be willing to pay			

Table 2: Performance of the dual HIV/syphilis testing with First Response HIV1+2/Syphilis Combo Card Test®

	Facility	Sensitivity	Specificity	NPV	PPV
HIV testing	Tshwane 1	83.33% 77.81% 88.85%	98.09% 96.06% 100%	83.33% 77.81% 88.85%	98.09% 96.06% 100.12
	Ekurhuleni 1	30.00% 19.76% 40.24%	100% 100% 100%	100% 100% 100%	90.54% 84.00% 97.08%
	Tshwane 2	76.92% 70.11% 83.73%	100% 100% 100%	100% 100% 100%	95.28% 91.85% 98.71%
	Ekurhuleni 2	100% 100% 100%	92.31% 79.25% 100%	75.00% 53.78% 96.22%	100% 100% 100%
	Tshwane 3	66.67% 59.20% 74.14%	100% 100% 100%	100% 100% 100%	98.66% 96.83% 100%
	Ekurhuleni 3	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%
	Tshwane 1	58.33% 51.11% 65.56%	98.80% 97.21% 100%	77.78% 71.69% 83.87%	97.06% 94.58% 99.53%
	Ekurhuleni 1	25.00% 15.45% 34.55%	98.67% 96.14% 100%	50.00% 38.97% 61.03%	96.10% 91.84% 100%
	Tshwane 2	33.33% 25.81% 40.85%	100% 100% 100%	100.00% 100.00% 100.00%	94.56% 90.94% 98.18%
Syphilis	Ekurhuleni 2*	1	-	-	-
(Past and recent testing)	Tshwane 3	81.82% 75.93% 87.70%	99.35% 98.13% 100%	90.00% 85.42% 94.58%	98.71% 96.99% 100%
	Ekurhuleni 3	75.00% 55.53% 94.47%	100.00% 100.00% 100.00	100.00% 100.00% 100.00%	93.75% 82.87% 104.63%
	Tshwane 1	100.00% 100.00% 100.00%	95.51% 92.47% 98.54%	11.11% 6.51% 15.71%	100.00% 100.00% 100.00%
	Ekurhuleni 1	100.00% 100.00% 100.00%	98.72% 96.24% 101%	50.00% 38.97% 61.03%	100% 100% 100%
	Tshwane 2	50.00% 42.03% 57.97%	97.99% 95.75% 100%	25.00% 18.09% 31.91%	99.32% 98.01% 100%
	Ekurhuleni 2*	-	-	-	-
Syphilis	Tshwane 3	100.00% 100.00% 100.00%	96.27% 93.38% 99.16%	40.00% 32.52% 47.48%	100% 100% 100%
(recent testing)	Ekurhuleni 3	100.00% 100.00% 100.00%	88.89% 74.76% 100%	33.33% 12.14% 54.53%	100.00% 100.00% 100.00

^{*}This facility had no syphilis positive clients and therefore performance could not be determined