



HIV Self-Testing-Key Considerations for Monitoring and Evaluation

Dr Karin Hatzold,

Global Director HIV/TB/Hepatitis; Director STAR Self-testing Initiative

Population Services International



CQUIN dHTS Meeting | July 9 - 12, 2024 – Durban, South Africa



CQUIN dHTS Meeting | July 9-12, 2024

HIV Self-Testing - M&E Considerations

HIVST is AO, confirmative testing required to "complete test" for self-testers with reactive self-test result

Measuring impact of HIVST distribution on uptake of HIV testing among populations unreached by conventional testing

- Coverage for priority population to be reached
- Primary and Secondary distribution
- Effectiveness of HIVST distribution model
- Optimization of HIV testing services through HIVST

HIVST Outcome measures: HIVST test use, confirmative testing, treatment/Prevention services uptake

• HIVST attribution to HIV testing coverage, case finding, ART coverage

Integration of HIVST indicators in mainstream M&E and HMIS for HIV testing services

M&E Indicators Related to HIVST

Distribution

- Number of individual HIVST kits distributed (programme data) (required)
- Number of sites distributing HIVST kits (programme data)
- Percentage of first-time testers among people who received HIVST (programme data)
- Percentage of the population aware of HIVST (survey)
- Percentage of the population willing to self-test if available (survey)

Use and results

- Number of HIVST tests used and the percentage of HIVST-positive results observed and selfreported (programme data)
- % of the population who has ever self-tested (survey)
- % of the population who has ever self-tested and reported positive result of self-test (survey)
- % of those tested in the last 12 months reporting self-test as their last test (survey)

Linkage

- Number and percentage of people diagnosed with HIV following HIVST (programme data)
- Percentage of new ART initiations among people diagnosed with HIV who report prior self-testing in the past 12 months (programme data)
- Proportion of people who test positive for HIV using an HIVST, enrolled in ART services (survey)
- Percentage of PrEP initiations among people who report prior self-testing in the past 12 months (survey)



HIV Self-Testing Cascade M&E Challenges

- ✓ Privacy of the test & autonomy of users
- ✓ Relying on self-report to measure outcome of self-test and uptake of linkage to treatment/prevention services
- ✓ Cost and feasibility of self-test user follow up

✓ Tracking secondary distribution



HIVST M&E General Principles



Using multiple data sources and information (including triangulation)



Data collection should not be intrusive or burdensome, protection of confidentiality and privacy



Human and financial cost of active monitoring to be considered



Prioritization on the use of Routine data (=integration & sustainability) Triangulation (= impact at the population level)



Key Data Sources for HIVST M&E

R			
Routine HIVST monitoring	Self-reported data on HIVST	Data on use of HIVST from other service data	Special surveys, population size data, client/patient-based surveys
HIVST service register,	Self-administered forms, client		
HIVST order form, sale registers	feedback, hotline follow up calls	ART/PrEP service register, HTS register,	Target groups for HIVST. Group size. Coverage of HIVST.
	People reported on using HIVST results. Reported results positivity.	health statistics	
HIVST kits distributed.			Group using HIVST. Positivity rate
People receiving		People reported on	of HIVST.
HIVST.	People reported on using	using HIVST services	Percentage accessing
Coverage of HIVST	services after HIVST.	HIV test, ART, PrFP	confirmatory test, ART, PrEP,
programme.	Accessing confirmatory test,	etc.	etc.
	ART, PrEP, etc.		



Routine Data Collection Strategies on Different Stages Depending on HIVST Models





Routine HIVST Monitoring Tools Measuring Distribution





Routine HIVST Monitoring Tools Measuring Test Use and Results

Notification/reminders		Client self-administered reporting		Individual-level follow up		
Automated SMS and messengers reminders	Interactive voice response systems	Paper based on-site results reporting cards	Mobile apps, messengers, chat bots, website results reporting and feedback collection forms	Provider administered individual follow up and feedback forms, referral cards		
Number of HIVST tests used						
Number of HIVST results reported, number of positive results reported						
Information on people using HIVST and reporting it						



Routine HIVST Monitoring Tools measuring Linkage

Notifications and referrals	Self-administered	Individual-level follow up	Clinic registers
Referral cards to link to services. Automated SMS and messages. Interactive voice response systems	Mobile apps, messengers, chat bots, web apps and online feedback collection forms	Provider administered individual follow up forms, peer referral and navigation	HTS registers, ART registers, PrEP registers, etc.
Number of people self-	Proportion of people using prevention, testing and care services prompted by HIVST		
Number of people self- HIVST			

icap

HIVST Outcomes Measures



CQUIN dHTS Meeting | July 9-12, 2024

Measuring HIVST Linkage in Care and Prevention

- Include questions into existing clinic registers on prior use of self-testing
- All referral health service points (ART services, PrEP and VMMC services) can adopt data collection to capture prior HIVST use (e.g. HIVST referral cards; clinic register etc.)
- Data may be subject to recall bias and some people may not disclose prior HIVST use and/or results
- Data do not provide a denominator to measure linkage following HIVST
- Data can provide useful information on the proportion of all ART/PrEP initiations prompted by HIVST

Clinic registers







Using multiple data sources and information

- Linkage to ART and prevention (PrEP) services can be estimated using routine program data from a variety of sources, such as clientadministered tools, provider follow up data collection, clinic registers, and ART/PrEP initiations
- Triangulation in conjunction various data sources can provide estimates on HIVST impact on HIV testing coverage, diagnosis and HIV treatment coverage



CQUIN dHTS Meeting | July 9-12, 2024

Uganda: Regional comparison of HIVST distribution and HIV Positives cases identified



HIVST self test kits distributed – Unassisted (Jan-Mar 2024)

> 790 - 1671 (3) 1671 - 2235 (3) 2235 - 3110 (3) 3110 - 6487 (3)

> > 6487 - 12385 (3)



HIVST self test kits distributed – Assisted (Jan-Mar 2024)

993 - 2437 (3) 2437 - 4520 (3) 4520 - 8303 (3) 8303 - 11364 (3) 11364 - 19080 (3)





Use of digital health and mobile health technologies

Widespread use of mobile devices creates opportunities for delivering HIVST services by generating demand, improve delivery of HIVST kits and collecting information from clients

Some digital health components related to HIVST:

- Client-to-provider communication: selfassessments, reporting of results
- Data collection and management: service records, registers, case management registers/logs, data collection of results, adverse events, IPV;
- Targeted client communication: notifications, alerts and reminders focused on improving linkages. Delivery channels include SMS, voice calls, interactive voice responses, mobile apps, messengers, and messenger bots



Chatbot self-tester flow with digital IFU & AI



UCS features roadmap – Deployed – Completed with pending Deployment – Under development – In pipeline

UCS - HIV	UCS - RCH	UCS – OVC	
CBHS	ANC	Orphans and vulnerable children	
INDEX Contacts tracing	PNC	UCS – GE	
PMTCT Case Management	Labour and Delivery Case		
HEI Case Management	Management	Gender Equality	
HIV Self Testing	Children under 5 home visits.	UCS - MALARIA	
KVP and PrEP Services	Family Planning	Integrated Community Case Management	
Condom Programing	СЕСАР		
LTFU			
Voluntary Medical Male Circumcision	CFAC	Cross – cutting module	
(VMMC)	Adolescent Sexual Reproductive	National Blood Transfusion Service	
AGYW	nealth		
	Gender-Based Violence	Neglected tropical diseases	
Social and Behavior Communication (SBC) for HIV	Early Child Development (ECD)		



Tanzania Unified Community System (UCS)

- Comprehensive solution covering community health services offered by CHWs
- Community data linkages with health facilities
- WAJA app: used at the community level by CHWs; KITUONI app: used at health facilities without EMRs
- HIVST individual client data, unique identifier, client demographics, HIVST distribution modality, primary, secondary, self-test result, confirmatory test and treatment uptake, prevention services uptake
- Reporting dashboard: Used beyond facility and community setting to support M&E, planning, and decision making
- Open-Source Smart Registry



HTS

HIVST DASHBOARD of Tanzania Unified Community System



ICOP

CQUIN dHTS Meeting | July 9-12, 2024



Take - Away Messages

M&E for HIVST needs to be adapted from HTS to fit purpose Integration into existing systems is key Triangulation of routine data can provide insights HIVST distribution data is not enough to make programmatic decisions

Collection of outcome data where feasible and linking community and facility data for dashboards to inform programming and monitor performance.

Digital health, AI and mobile health technologies can be further optimised to collect HIVST data



Acknowledgements

- MOH teams
- o WHO
- Unitaid STAR
- Global Fund
- o CIFF







Thank You!

