

Beyond HIV Testing: Measuring uptake and impact of Linkage to Prevention

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Leveraging DSD Strategies to Optimize HIV Testing and Linkage Services March 13-16, 2023 | Nairobi, Kenya



Lessons learned from HIV testing scale-up





Source: WHO forecast 2020; UNAIDS 2021; WHO 2005; CHAI 2015; WHO, UNICEF, PEPFAR, GFTAM 2018; GAM reporting 14 October 2020

Shifting to status neutral testing, renewed focus on prevention







Linkage, engagement & re-engagement in HIV prevention

WHO recommendations on linkage:

- streamlined interventions to promote rapid initiation: enhanced linkage with case management, support for HIV disclosure, partner services, staff training and colocation of services
 - Scoping review specifically for linkage to prevention
- RDTs for same-day diagnosis instead of western-blotting based testing/EIA
- **peer support** (including peer counselling) and navigation approaches for linkage
- **quality improvement** approaches using data to improve linkages



Source: McNairy M and El Sadr W, 2014 (70).

Additional good practices to optimize prevention linkage:

- People centred-care models (best practice)
- Support offer of VMMC, Harm reduction, PrEP & PEP through DSD and HIVSTsupported delivery models
- Consider friendly, flexible, digital tools, peers and community strategies (& reengaging LFTU PLHIV)

WHO 2019: <u>https://www.who.int/publications/i/item/978-92-4-155058-1</u>



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Why, how and when to monitor Linkage to HIV Prevention?

WHY?	 To ensure those most likely to benefit have access to interventions To enhance effectiveness and impact of interventions To derive service level denominators to monitor if service provision is meeting demand
HOW?	 Conversations during consultations are key to understanding individuals HIV prevention needs Questions on risk factors can be helpful as a counselling tool to extend access to HIV prevention Program data on services received can indicate potential ongoing demand
WHEN?	 Exposure to risk and HIV prevention needs change over time. Data should be collected longitudinally Data on HIV prevention need gathered in the course of providing services can be recorded
Inclusion not Exclusion	 Providers should offer prevention interventions to all people who request them. Prioritization questions should never be used to exclude people from HIV prevention interventions, especially if individuals have self-identified as concerned about HIV and are motivated to use HIV prevention.

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Consolidated Guidelines on Person-Centred HIV Strategic Information



Key recommendations

- **NEW** 1. The collection of a minimum dataset of individual-level data elements on HIV prevention interventions is recommended to measure interventions received and health outcomes among individuals seeking HIV prevention.
- **NEW** 2. Individual-level data on HIV prevention should be used, alongside other available data sources, to strengthen the measurement of:

a) the **coverage of interventions** provided to populations affected by HIV, to increasingly measure individual people reached rather than services delivered

b) prevention impact through longitudinal assessment of HIV status at the facility, subnational and national levels.

- NEW 3. The collection of clinical and behavioural information on factors associated with HIV acquisition in routine health information systems is suggested to aid in offering HIV prevention interventions to those who may benefit from them and to estimate service-level denominators for the calculation of programme monitoring indicators. An individual's need for HIV prevention changes over time, based on individual, structural and contextual factors. Therefore, for the purposes of service delivery and M&E, information on HIV prevention should be collected frequently.
- NEW 4. It is recommended that HIV data systems that capture an individual's sensitive clinical and behavioural information (that is, on stigmatized and criminalized behaviours) do not link these data to personally identifying information. This separation of sensitive behavioural and personally identifying information should be maintained when linking HIV prevention data systems to other clinical datasets (such as for HIV treatment) containing personal identifiers.



Key Recommendations for Prevention

22 data elements across six prevention interventions & HIV testing



	Intervention	Minimum dataset
S CQUIN Differe	HIV testing	 HIV test sample date type of HIV test (for example, rapid test, dual syphilis/HIV) HIV test result
	Condom programming	 date individual was provided with condoms (where recording this information is practical and appropriate, this could include provision of condoms to people from key populations in the context of outreach)
	Pre-exposure prophylaxis (PrEP)	 date PrEP prescribed (includes initial prescription and repeats) date PrEP dispensed (if available from dispensing pharmacy or community distribution) PrEP product prescribed (for example, oral; long-acting formulation/device, such as dapivirine vaginal ring (DPV-VR), injectable cabotegravir (CAB-LA)) volume of PrEP product prescribed/dispensed (for example, number of pills, number of devices) date individual attends follow-up appointment
	Post-exposure prophylaxis (PEP)	date PEP prescribeddate individual completes PEP course (ascertained at follow-up)
	Needle—syringe programmes (NSP)	 date injecting equipment provided number of needles-syringes provided
	Opioid agonist maintenance treatment (OAMT) for opioid dependence	 date OAMT initiated date OAMT dose received date OAMT take-away dose(s) dispensed first date maintenance dose received date of loss to follow-up or OAMT stopped
	Voluntary medical male circumcision (VMMC)	 date VMMC received date of follow-up date of adverse event related to VMMC reported type of severe adverse event.

Priority indicators for HIV prevention

16 programme and 1 survey prevention priority indicators & 9 additional indicators

Programme indicators

Ref.no	Short name			
Condom programming				
PRV.1	Condoms distributed			
Pre-exposure prophylaxis (PrEP)				
PRV.2	Total PrEP recipients			
PRV.3 (NEW)	PrEP coverage			
PRV.4 (NEW)	Volume of PrEP prescribed			
Post-exposure prophylaxis (PEP)				
PRV.5 (NEW)	Number of PEP recipients			
PRV.6 (NEW)	PEP completion			
PRV.7 (NEW)	HIV in PEP recipients			

Needle-syringe programme (NSP)		
PRV.8	NSP coverage	
(NEW)		
PRV.9	Regular NSP access	
(NEW)		
PRV.10	Needles-syringes distributed	
•		
Opioid agonist maintenance treatment (OAMT)		
PRV.11	OAMT coverage	
•		
PRV.12	Total person-years on OAMT	
(NEW)		
PRV.13	OAMT minimum duration	
(IVEVV)		
PRV.14 (NFW)	OAMT minimum dose	
(1217)		
Voluntary medical male circumcision (VMMC)		
PRV.15	VMMC scale-up	
•		

Survey indicators

Ref.no	Short name				
Condom programming					
PRV.17	Condom use (key populations and general population)				



Considerations for measuring Linkage interventions

- Person-centered monitoring and evaluation
 - Are we linking the RIGHT people to the RIGHT services
 - Measuring and monitoring risk prioritization
- What constitutes a successful linkage?
 - Using prevention indicators as proxy to measure uptick of prevention services e.g. PrEP
 - Virtual platforms
 - Both to measure service delivery and linkage
 - WhatsApp message, other social media etc

Delivery and measurement of these interventions differs

- Some are delivered at a single point in time (VMMC, PEP)
- Others are episodic (STI diagnosis & treatment)
- Others continue as long as required (PrEP, NSP, OAMT)



Other Considerations

- Capacity building
 - Monitoring linkage is labour intensive-appropriate training and tools are required to support front line workers
 - Strengthening data use at all levels & from all sources (population-based surveys, modelling, quality of care measures, community-led monitoring and others).
- Integration of entry points for HIV testing, linkage mechanisms and prevention services
 - Map process flows, interoperability of data systems
- Investments in infrastructure (preferably point of care systems e.g. smart phones)
 - Digital systems, appropriate architecture and legal systems, interoperability
 - Special emphasis on confidentiality
 - Role of unique identifiers





Information Systems to measure linkage to prevention

- Routine health information/program data
 - Requires definition of minimum data set and specific indicators for linkage to prevention
 - Challenges with longitudinal registers
 - Complex
 - May require unique identification
 - Sub-optimal linkage of services and service delivery points
 - Role of Quasi-experimental studies e.g. time series analysis
- Population-based surveys
 - Could measure both coverage and impact simultaneously (PHIAS)
 - Include relevant question in population based surveys, demographic health surveillance or integrated bio-behavioral surveys- use the next PHIA and IBBS lite (for key populations) as a pilot



Using modelling data to measure impact of HIVST

- ATLAS programme successfully used triangulation methods to understand impact of HIVST on HTS & ART proramme
- This method can be scaled-up and adapted for HIV prevention (e.g. VMMC, PMTCT/partner testing, PrEP) where HIVST is being used to support service delivery
- Reference:

https://doi.org/10.1097/QAD.00000000003328



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Routine programmatic data show a positive population-level impact of HIV self-testing: the case of Côte d'Ivoire and implications for implementation

Simo Fotso, Arlette^{a,b}; Johnson, Cheryl^c; Vautier, Anthony^d; Kouamé, Konan Blaise^e; Diop, Papa Moussa^d; Silhol, Romain^f; Maheu-Giroux, Mathieu^g; Boily, Marie-Claude^f; Rouveau, Nicolas^a; Doumenc-Aïdara, Clémence^d; Baggaley, Rachel^c; Ehui, Eboi^e; Larmarange, Joseph^a

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on conventional HIV testing, diagnoses, and antiretroviral treatment (ART) initiations in Côte d'Ivoire.



Unique Identifiers

Alphanumeric codes that support individuals to identify themselves when accessing a variety of health services ...

> Enables:

- access to services if people move between facilities
- separating identifying information from health records
- potential for nefarious tracking / linking of data
- Content largely pulls from UNAIDS/PEPFAR guidance and 2017 WHO SI Guidelines
- Section further framed around issues for key populations.

Development pathway for unique identifiers

- 1. Situation Analysis (UNAIDS guidance)
- 2. Invest in improved data security
- 3. Invest in data use to improve programs
- 4. Planning of program improvement and sustainability

- Outline of broad stages
 of the maturation pathway.
- Detailed considerations for each step of the maturation pathway



Implementation details, including system architecture, international standards for unique identifiers, technical components of a unique identifier system.

CONSIDERATIONS AND GUIDANCE FOR COUNTRIES ADOPTING NATIONAL HEALTH IDENTIFIERS

Linkage to Prevention Cascade-Using PrEP as an example

- Conceptualize and design a linkage to prevention cascade
- # tested for HIV
 - # HIV-negative with current or ongoing HIV risk
 - Uptake of linkage interventions [How to measure?]
 # or % accessing prevention intervention e.g. PrEP
 Effective use of PrEP
 Incidence rates
- Refer to Creating Prevention Cascades (UNAIDS, 2021)





Conclusion

- Strengthening routine, individual-level data systems improves national capacity to monitor and respond to health needs in real time at local and national levels
 - Improves quality of care, surveillance, programme performance and impact
 - Is sustainable and scalable
 - Increases capacity to link across different data systems (laboratory, pharmacy, logistics management)
 - Facilitates longitudinal records and patient access to their personal health record for continuity of care
 - Contributes to other surveillance exercises modeling/estimation
- Better integration across related infections (HIV, STIs, hepatitis, TB, cervical cancer) will
 improve health outcomes and linkage between health services, keeping the person at the
 center over time
- Limitations of routine data means that using data from multiple sources is essential for review and measure programme performance (surveys, cohorts, modeled estimates, CLM etc.)



Data quality affected by limited resources for infrastructure or human resources CQUIN Differentiated Testing & Linkage Meeting | March 13-16, 2023

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For more information on HIV testing services



HIV Learning Network The CQUIN Project for Differentiated Service Delivery



Thank you!

