

Optimizing HIV testing through routine use of data: a call for HTS evidence-based decision making

Céline Lastrucci, technical officer, WHO HIV Testing Services (HTS) Team

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



Outline of the presentation

- 1. Global HTS update
- 2. Strategic planning, optimizing and monitoring HTS program
 - Guiding principles and core indicators for HTS
 - Know your epidemic: identify who is missing
 - Geographical difference
 - Population difference
 - <u>Regular</u> review your programmatic data: identify efficient models and monitor
 - Set your target
 - Monitor your results
 - Adjust your program
- 3. Conclusion





We have made progress:

Progress toward global HIV testing targets

World Health Organization

2030

Source: WHO forecast 2020; UNAIDS 2022; WHO 2005; CHAI 2015; WHO, UNICEF, PEPFAR, GFTAM 2018

Large gaps remain and HTS needs to be prioritised to achieve 95-95-95 and prevention goals in SSA

860,000 new infections annually





Who are HTS programmes missing?

- **Key populations** • (KP) and their partners/contacts
- Adult men
- **AGYW** .
- Partners of PLHIV
- **STI patients** •
- **LTFU clients** • needing reengagement

*Highest transmission age group: men 25-39 years & 75% of transmitters infected >1 year (Fraser 2022, Popart AIDS 2022)



Percent

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UNAIDS 2022; WHO 2019, Maheu-Giroux 2021: https://www.thelancet.com/journals/lanhiv/article/PIIS2352-3018(20)30315-5/fulltext; Eaton AIDS 2022



Reaching the ones missing: Optimizing HTS programs

World Health Organization

Precision Public Health: A familiar paradigm to the HIV response

UNAIDS 2007 "Towards Universal Access"

KNOW YOUR EPIDEMIC AND YOUR CURRENT RESPONSE



GLOBAL AIDS STRATEGY 2021-2026 END INEQUALITIES.

"Recognizing that 'one size does not fit all', the Strategy prioritizes tailoring of differentiated service packages and service delivery approaches to the unique needs of people, communities and locations, using granular data to focus programmes most effectively"



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Jeffrey W Eaton, AIDS 2022

Strategic planning for effective and efficient HIV Testing Services 1/2

World Health Organization

STRATEGIC PLANNING FOR EFFECTIVE AND EFFICIENT HIV TESTING SERVICES

7

Box 7.1. Guiding principles for planning HTS

For any HTS, service delivery models and approaches should focus on:

- 1.reaching the largest number of people with HIV who remain undiagnosed and reaching the population groups with higher HIV risk where the gap in knowledge of HIV status is greatest;
- increasing acceptability, equity and demand for HTS to reach those left behind, including key populations;
- 3. prioritizing approaches that are most cost-effective and efficient;
- achieving national programme targets (for example, the 90–90–90 targets and the fast-track prevention targets);
- 5.facilitating linkage to treatment for individuals who are diagnosed HIV-positive and providing appropriately tailored prevention for those who test HIV-negative. Source: WHO, 2018 (10).

An in-depth situational analysis is a critical first step!



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Consolidated guidelines on HIV testing services for a changing epidemic (who.int)

Table 7.2. HTS approaches to consider for selected priority populations

Priority population	Facility-based	Community-based	HIV self-testing	Social network- based testing for key populations			
Key populations	Routine in all facilities and testing sites serving key populations	Mobile or outreach testing for key populations in all settings	Offer in all settings	Offer to partners and social contacts of HIV-positive, and, if at ongoing risk, HIV- negative, members of key populations			
Men	Routine in high HIV burden settings Focused in other settings, for example, indicator condition- or risk-based	Workplace testing in high burden settings	Peer distribution or distribution to male partners by antenatal care (ANC) clients in high burden settings	Offer to social contacts of men who have sex with men			
Adolescents and young adults (ages 15–24 years)	Routine in high HIV burden settings Focused in other settings, for example, indicator condition- or risk-based	In high HIV burden offer in settings such as schools, other educational institution or sports festivals	Online distribution via social media in high burden settings; can be considered in facilities where testing may not routinely offered (i.e. family planning clinics) or as part of focused key populations outreach.	Offer to youth from key populations who test HIV-positive or HIV-negative			

Table 7.4. HIV testing data and sources relevant to HTS situational analysis

Indicator	Data source(s)	Disaggregation	Use						
	HIV testing services data								
HIV prevalence (and/or HIV incidence)	Multiple sources can be used; consider triangulation. Possible sources: national population- based surveys; ANC surveillance data; programme data; special studies or projects among key populations; modelling exercises (for example, the UNAIDS Spectrum AIDS Impact Model (AIM))	National and subnational; sex and age group (5-year age groups or at least <15 and >15 years); pregnant women attending ANC; key population; other vulnerable and priority populations such as STI and TB patients	To quantify HIV burden in different geographies, demographics and populations						
Number/ proportion of people with HIV who know their HIV status		National and subnational; sex and age group; key population; other vulnerable and priority populations	To understand HIV testing coverage gaps in different geographies, demographics and populations.						

Strategic planning for effective and efficient HIV Testing Services 2/2



projects among key populations; modelling exercises (for example, the UNAIDS Spectrum

AIDS Impact Model (AIM))

National population-

based surveys;

programme data

National and subnational;

sex and age group;

key population; other

vulnerable and priority

To understand HIV

demographics and

testing coverage gaps

in different geographies,

Number/

proportion of

people with HIV

who know their

Table 7.2. HTS approaches to consider for selected priority populations STRATEGIC PLANNING FOR EFFECTIVE AND EFFICIENT Social network-Priority population based testing for **HIV TESTING SERVICES** HIV self-testing Facility-based Community-based key populations Mobile or outreach Offer in all settings ine in all Offer to partners an ties and testing testing for key social contacts of Core indicators and data for HTS planning populations in all serving key IIV-positive, and, i lations settinas at ongoing risk, HIVnegative, members of key populations ine in high HIV Workplace testing Peer distribution Offer to social PLHIV who know their HIV status (GF; GAM; WHO and for KP: GAM; WHO) in high burden or distribution to en settings contacts of men who • settings male partners by have sex with men sed in other antenatal care igs, for example (ANC) clients in high Late HIV diagnosis (GAM) ٠ ator condition- o burden settings ased ine in high HI\ In high HIV burden Online distribution Offer to youth from HIV testing volume and positivity by age/sex and modality, including self-testing (GF ۲ key populations who via social media en settings offer in settings test HIV-positive or in high burden such as schools, sed in other other educational settings; can be HIV-negative HTS; GAM; WHO) ngs, for example, considered in institution or sports ator condition- or festivals facilities where based testing may not Linkage to ART (GF; WHO) ٠ routinely offered (i.e. family planning clinics) or as HTS index testing and partner notification (WHO) ٠ part of focused key populations HIV self-testing - % of people who have tested for HIV using a self-test kit (DHS) ٠ ting data and sources relevant to HTS situational analysis HIV retest at ART start - % of new ART patients who were retested to verify diagnosis ۲ Data source(s) Disaggregation Use (site-level) HIV testing services data Multiple sources can National and subnational; To quantify HIV burden Treatment adjusted prevalence – (adults with HIV- adults with HIV receiving ART) / total be used; consider in different geographies, • sex and age group (5-year triangulation. demographics and age groups or at least <15 Possible sources: and >15 years); pregnant populations adult population. national population women attending ANC; based surveys; ANC key population; other vulnerable and priority surveillance data; Consider community-led monitoring and approaches for quality of care populations such as STI programme data; and TB patients special studies or

An in-depth situational analysis is a critical first step!



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Consolidated guidelines on HIV testing services for a changing epidemic (who.int); Consolidated guidelines on person-centred HIV strategic information: strengthening routine data for impact (who.int)

HTS Situational analysis



Need to be done

on regular basis

The different aspects of a situational analysis:

Analysis of surveys/studies

Define the populations to be targeted

Analysis of data from Testing programs (e.g. PNLS, PNLHV, PEPFAR, DHIS, national blood centers, etc.)

Identify "effective" models

Document review: policy, strategy, guide, standards and national procedures

Identify policies to update

Interviews with stakeholders, technical and financial partners/providers/beneficiaries

Identify the enablers and challenges



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A closer look at treatment adjusted prevalence: An example from Nyanza, Kenya

As we approach the 1st 95, overall national prevalence is not the best indicator to monitor anymore: Treatment adjusted prevalence is more representative

Treatment-adjusted prevalence to assess HIV testing programmes

Beth A Tippett Bart," David Lowrance," Cheryl Case Johnson," Rachel Clare Baggaley," John H Rogers, Shirish K Balachandra, Soseph Barker, "Thokozani Kalua," Sudhir Bunga, "Daniel Low-Beer," Danielle Payne," Marc G Bulterys' & Andreas Jahn®

Abstract Scale-up of human immunodeficiency enus (HV) testing and antiretroviral therapy (ART) for people living with HV has been increasing in sub-Saharan Africa. As a result, areas with high HW prevalence are finding a declining proportion of people testing. their national testing programmes. In eastern and southern Africa, where there are settings with adult HIV prevalence of 12% and abor the positivity from national HW testing services has dropped to below 5%, Identifying those in need of ART is therefore becoming more costly for national HV programmer. Annual target-setting assumes that national testing positivity rates approximate that of population prevalence. This assumption has generated an increased focus on testing approaches which achieve higher rates of HIV positivity. This trend is a departure from the provider-initiated testing and counselling strategy used early in the global HW reporte. We discuss a new indicator, twatment-adjusted prevalence, that countries can use as a practical benchmark for estimating the expected adult positivity in a testing programme when accounting for both national HIV prevalence and ART coverage. The indicator is calculated by removing those people receiving ART from the numerator and denominator of HW prevalence. Treatment-adjusted prevalence can be readily estimated from existing programme data and population estimates, and in 2019, was added to the World Health Organization guidelines for HV testing an strategic information. Using country examples from Kenya, Malawi, South Sudan and Zimbabwe we illustrate how to apply this indicato and we docute the potential public health implications of its use from the national to facility level

Abstracts in _{41,1},中文, 中文, Pasequis, Pyccousk and Español at the end of each article.

Introduction

Globally, there has been substantial scale-up of human immanodeficiency virus (HIV) testing services and antinetroviral therapy (ART), and it is now estimated that 78% (16 million) of the 20.6 million people living with HIV in castern and southern Africa are receiving treatment.¹ As a result, countries or initiated testing and counselling approaches were recomdistricts with high HEV prevalence in sub-Saharan Africa are mended by the World Health Organization (WHO) in 2007.11 now finding a decline in positivity (that is, the proportion of At that time, positivity in national HIV testing programmer people tested who are positive) in their national HIV testing either reflected the prevalence in the general population, such programmes.¹¹ For example, an analysis of over 13 million as healthy women attending antenatal clinics, or the much July 2017 and June 2018 found that only 1.4% were positive." This figure compares with a national HIV prevalence in adults of 4.5% (1390000 people in the population of 30888880) in 2019. In seven out of 10 African nations with adult HIV as a practical benchmark for the expected yield of HIV positiv prevalence of 10% and above, the positivity from the national HIV testing programme has been reported as 5% or below." In national HIV prevalence and ART coverage. We chose the label Malawi, for example, the proportion of people found to be HIV treatment-adjusted over status awareness-adjusted as it is the positive in national testing services has declined from 13.0% aim of HIV programming to achieve virtual elimination of (170 040) of 1 304 707 people tested in 2008 to 3.1% (139702) of 4474393 people in 2018, while the annual number of tests clines and onward transmission decreases." By explaining the conducted has tripled (Fig. 1; A Jahn, Ministry of Health, Malawi, unpublished data, 2020). Over the same period, the Africa, we hope to promote its use by national programmes estimated propertion of people living with HIV who were and implementing organizations at subnational level. receiving ART increased from 14.3% (143350 of 1000000 people) to 76.9% (769179 of 1000000 people).4

This trend is encouraging, as it signals rapid progressi towards the global 95-95-95 goals for reducing HIV-associated mortality and achieving and sustaining low HIV incidence Nevertheless, as more people living with HIV are diagnosed and access treatment, finding people with undiagnosed HIV becomes progressively more difficult and expensive." Providerests conducted primarily in health facilities in Kenya between higher prevalence in those attending tuberculosis or sexually transmitted disease services In this article we discuss the use of a new indicator, which

we named treatment-adjusted prevalence. The indicator serves ity in an adult testing programme when accounting for both disease, and it is only once ART is initiated that viral load deapplication of this indicator with examples from sub-Saharan

US Centers for Change Control and Prevention, Center for Global Health, PO Eco 686, Villace Market, 00621 Natods, Kensel Global HW Hepathisand ST programmer, World Health Diganization, Geneva, Switzwland, US Centers for Disease Control and Prevention, Division of Global Hill & Tuberculosis, Zimbabwe Ministry of Health, Department of HW/ADS, Lilongue, Halawi. US Centers for Diverse Control and Prevention, Division of Global HIV& Tuberculosis, Juba South Sudar 15 Centers for Disease Control and Prevention, Division of Global HW & Tuberculosis, Likongue, Malaw International Training and Education Center for Health G-TECHI, University of Washington, Seattle, United States of America energondence to lieth & Tippertillan (enail: hkcSidtoto poid Submitted: 12 May 2021 - Annual version received: 3 September 2021 - Accepted: 3 September 2021 - Rublished online: 30 September 2021 |

Bull World Health Organ 2021;99:874-882 doi: http://dx.doi.org/10.2471/8/131.286388



HTS positivity in this same period was 1% in Kenya

Source: Barr 2021,, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8640683/pdf/BLT.21.286388.pdf



Understanding geographic variations within countries





HIV prevalence variation is wide across Tanzania 11.4% in Njombe and 0.3% in Linde Across wards on Blantyre City (southern Malawi), HIV prevalence ranged between **13%** and **19.5%** HIV prevalence >15 years old in ivory coast, Spectrum 2020



Location of PVVIH Source, Spectrum 2020: Naomi



Ivory Coast:

Prevalence varies by regions (<1% to >1.69%) 37% of PLHIV are from 2 regions / 20 : Abidjan 1 gp and Abidjan gp 2





Understanding population differences within countries

Rakal

Karonga 🍯

74% of new

infections are

among KP and

their partners



- Kowledge of status by age:

ICOP Globa Health



CHILDREN (AGED 0-14 YEARS) L ADULTS (AGED 15+ YEARS) LIVI

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ESA:





Knowledge of HIV status in women > men

Source: UNAIDS, special analysis 2022, Risher et al. Lancet HIV 2021. 8:E429-39, WHO HTS Dashboard



Review data routinely to optimize programming

- Set targets: realistic, based on epidemiology and current coverage
- Review data, analyse trends
 - Ideally at least <u>quarterly</u> and to closely monitor new HTS approaches
 - Look at linkage and engagement/reengagement:
 Considerations for prevention monitoring uptake of PrEP
 - Use data triangulation to measure impact (HIV-ST)
- Adjust program <u>regularly</u>; identify areas for focus and refocus: where? Whom? identify what to scale up, what to modify and what to stop;





Source: Eaton 2022

Review data routinely to optimize programming

Examples of country routine data analysis to monitor HTS:

Progress towards dual EMTCT , Uganda



Overall Known HIV Status (TRK, TRRK, TR, & TRRK) Coverage

Syphilis Testing Coverage

Linkage to Syphilis Treatment



PMTCT coverage and new infections in children, Burundi:

/orld Health

Organization



Cumulative HIVST distribution trend vs targets - Côte d'Ivoire



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Source: Eaton 2022, HIVST ATLAS data CIV 2021, UNAIDS, special analysis 2022



Data triangulation to measure HIVST impact: Example from Cote d'Ivoire

The estimated effect of HIVST kit distribution shows a nonsignificant negative signal on conventional testing

➢ Even if only 20% of distributed kits are used, HIVST would increase access to testing

➢An increase by 1000 units of the number of HIVST increases significantly positive diagnosis by 8

No association between HIVST kit distribution and ART initiations was observed

≻Reference:

https://doi.org/10.1097/QAD.000000000003328



EPIDEMIOLOGY SCIENCE

initiations in Côte d'Ivoire.

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Finding the balance of targeted testing is challenging, and can have significant impact on achieving global goals

Other PITC compared to treatmentadjusted prevalence at sub-national level



ICOD

Reductions in number of tests and positives based on Other PITC yield targets



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Source: Special analysis sub-set of countries, Oct 2021, Other PITC by SNU2 yield and testing, correspondence Ian Fellow, Jeff Eaton, Ray Shirashi, Stephanie Behel, Rachel Golin, Jessica Rose, Mike Grillo, Mary Mahy, Rachel Baggaley, Cheryl Johnson, Vincent Wong

Conclusion



1. Knowing your epidemic

Including variability by population, geography, etc

2. Review HTS programme data

By approach, sex, age, geography 1st-time testers and key populations Linkage (Prevention and ART)

- Define what's working and not working
 By geography, entry point and population
 Define facilitators and barriers to access
- 4. Adapt and build strategies that fill gaps

Cost-effective (#/% positive) Addresses barriers and increases reach among highest risk (e.g. key populations)

Accelerates achieving 95-95-95 targets

5. Determine what to stop

Including what HTS to refocus and do less

Update resource allocation and budgeting

icop Global Health

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Source: WHO, 2019: https://www.who.int/publications/i/item/WHO-CDS-HIV-19.31



Balancing efficiency and impact



WHO HTS Data Dashboards: https://whohts.web.app/

Acknowledgements

World Hea Organizati

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All other partners for permission to use slides

For more information on HIV testing services



Questions?

Cheryl Johnson **johnsonc@who.int** Céline Lastrucci **lastruccic@who.int** Maggie Barr-DiChiara **barrdichiaram@who.int**



Consolidate guideline HIV Strategic Information

Table 3.1 Priority indictors for HIV testing

Ref. no.	Short name	Indicator definition	Numerator	Denominator			
HTS.1	People living with HIV who know their HIV status (first 95)	Number and % of people living with HIV who know their HIV status	Number of people living with HIV who have received their diagnosis and are still alive	Estimated number of people living with HIV			
HTS.2	HTS test volume and positivity	Number of HIV tests performed (volume) and the % of HIV-positive results returned to people (positivity)	Number of tests conducted in which a new HIV-positive result or diagnosis was returned to a person during the reporting period (positivity)	Number of tests performed where results were returned to a person during the reporting period (testing volume)			
HTS.3 (NEW)	People testing positive for HIV	% testing positive among people who received an HIV test in the reporting period ¹	Number of people who test HIV-positive in the reporting period and have results returned to them	Number of people receiving an HIV test in the reporting period			
HT5.4	Linkage to ART	% of people newly diagnosed with HIV initiated on ART	Number of people newly diagnosed with HIV and started on ART during the reporting period	Number of people newly diagnosed with HIV during the reporting period			
HTS.5	HTS partner services	Number of people who were identified and tested using partner testing services and who received their results	For the general population: Number of elicited partners and other contacts ² of people diagnosed with HIV who received HTS	NA			
			For key populations: Number of elicited contacts of members of key populations who received HTS				
HTS.6	HIVST distribution	Total number of HIV self- test (HIVST) kits distributed during the reporting period	Number of individual HIVST kits distributed	NA			

Example of HIVST testing register:

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Self-testing Framework

World Health Organization

