

Differentiated Service Delivery for Key Populations

Virtual Meeting: August 25-26 and 30-31, 2021

WHO: HIV testing updates

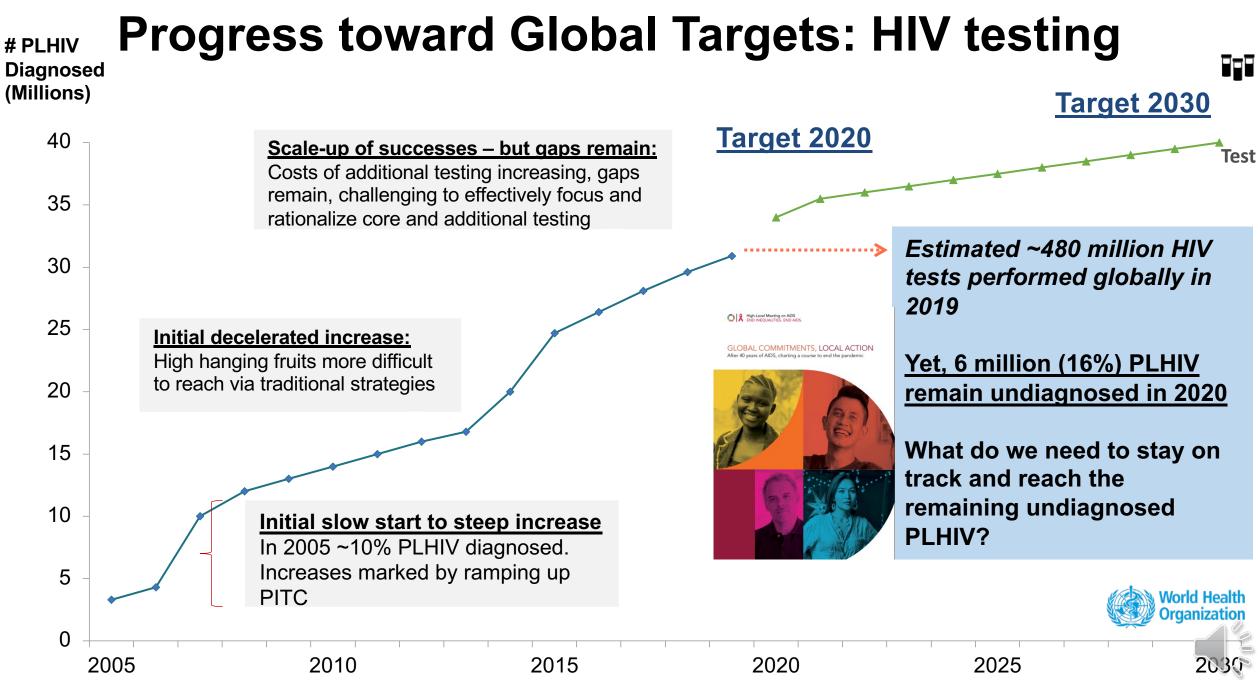
Cheryl Johnson Technical Officer Global HIV, Hepatitis and STI Programmes World Health Organization

26 August 2021



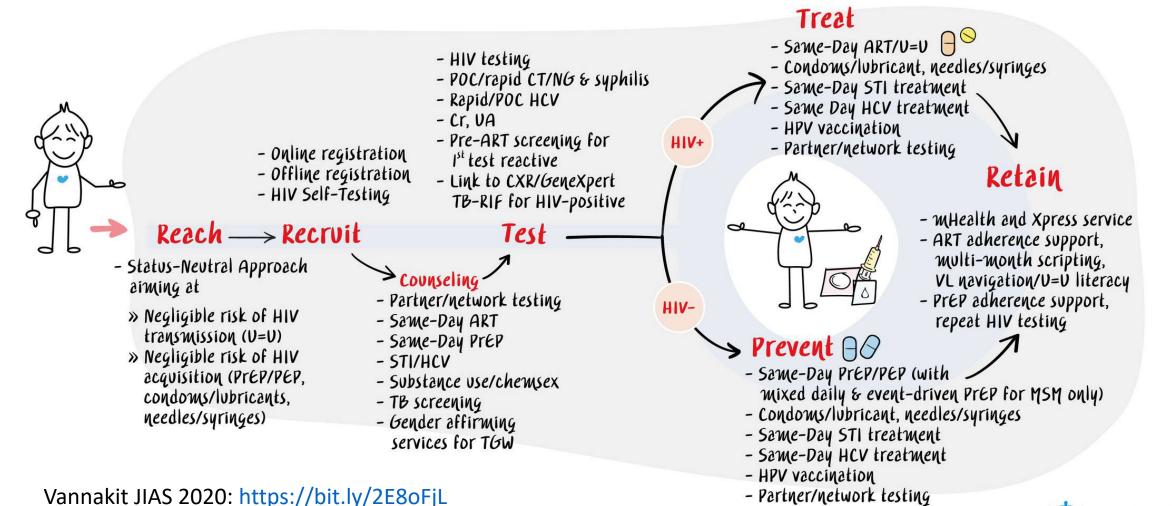
HIV Learning Network The CQUIN Project for Differentiated Service Delivery





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

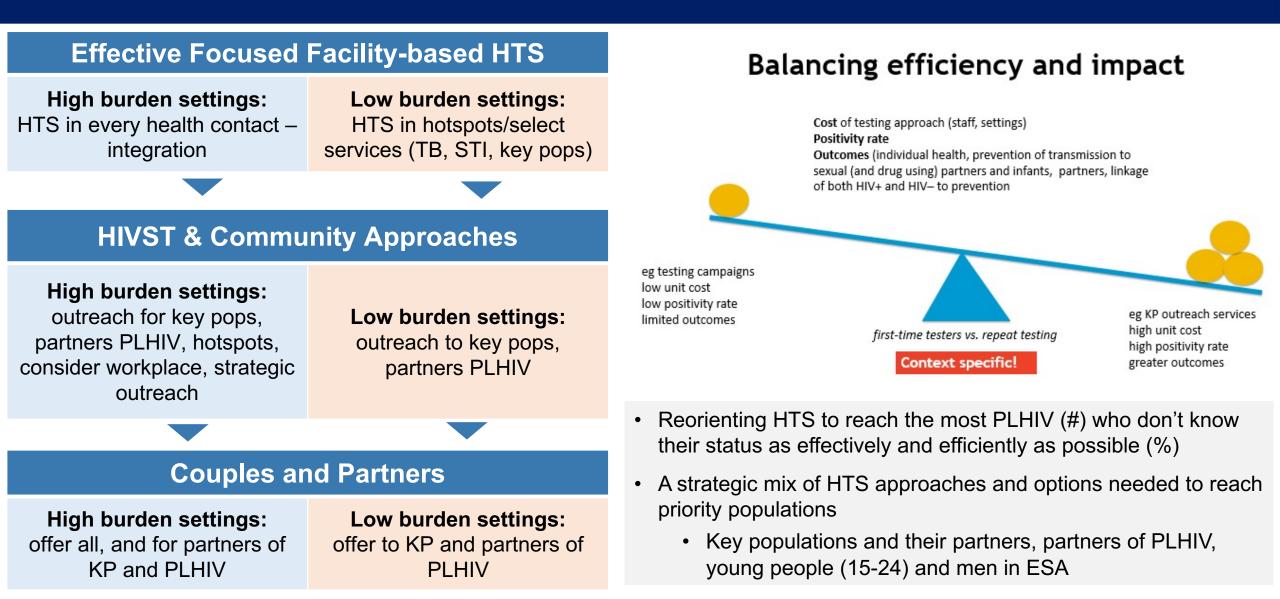
HIV testing is a key gateway



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World Health Organization

Case-finding focused HIV testing priorities



Prevention focused HIV testing priorities

HIV testing services are also part of implementing and monitoring prevention services to help:

- 1. HIV-negative ppl stay negative (monitoring)
- 2. Diagnose PLHIV at high risk and start ART as soon as possible

Core **HIV Prevention** packages with HTS:

- **PMTCT (1st ANC visit test for all, late pregnancy 3rd trimester only for KP or in high burden settings)**
- VMMC 1 test or self-test
- **PrEP** quarterly testing
- **Key populations** testing at least annually (up to 3-6 month based on risk)
- Serodiscordant couples package of services annually (up to 3-6 month based on risk)
- AGYW in ESA package of services

ACCESS++ the prevention toolbox to end HIV

- ${\sf A}$ wareness and education
- ondom use
- ${\sf C}$ ircumcision for boys and men
- Ending stigma and discrimination
- **5** afe blood and injections
- 5 terile equipment and harm reduction for people who use drugs
- + HIV medicines used before and after exposure
- + HIV treatment and viral suppression







World Health

Way forward on HIV testing services

Tremendous progress over last decade:

 Closer to achieving first 90 (or first 95) – but priority populations still missed.

Achieving high awareness of status is challenging:

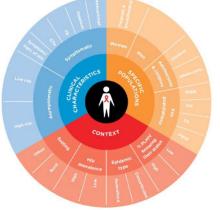
- <u>Key populations</u> are more likely to be undiagnosed and contribute to new infections
- Men (35-49 yrs) and AGYW in sub-Saharan Africa
- Partners of PLHIV, STI patients missed
- LTFU PLHIV who never started ART or need to be relinked to care
- Populations and settings affected and missed due to <u>COVID-19</u> <u>related disruptions</u>

2030 target is 95% awareness – how to achieve it:

- Additional challenges, decreasing positivity.
- Need to optimize HIV testing services to focus on priority populations.
- Reduce both absolute and relative gaps.















Key populations are defined by WHO to include men who have sex with men, people who inject drugs, transgender people, sex workers and people in prison

WHO HIV testing services guidelines





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





GUIDELI

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Guiding principles for HIV testing services



WHO 5Cs encourage all testing to include:

- Consent
- Confidentiality
- Counselling (pre-test information and post-test messages)
- Correct results and
- Connection (linkage)



Source: WHO 2019 CQUIN Key Populations Meeting, August 25-26 and 30-31, 2021

Supportive policies essential for HIV testing services

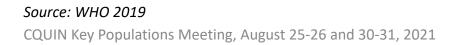
Critical enablers



- Task-sharing HIV testing services with lay providers (WHO recommended)
 - High uptake
 - Accurate
 - Often preferred
 - Low cost

WHO recommends:

- Initatives to protect and enforce privacy
- Prevent discrimination
- Promote tolerance







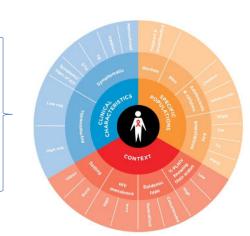


Strategic principles for HIV testing services

HTS approaches need to consider three dimensions for implementation:

- 1. Mobilizing and creating demand for testing
- 2. Testing service delivery
- 3. Linkage to post-test services

Approaches are then adapted based on the context, population and epidemic





	Mobilizing and creating demand	HTS implementation	Linkage to care
When	Continuous, intermittent or focused	Time of day and frequency	Time period for linking and frequency of monitoring
Where	Location of mobilization activities	Health facility, other facility, community	Location of linkage activities
Who	Who does the mobilizing? Who is the focus for messages and mobilization?	Who does the HIV testing? Who is the focus for testing?	Who supports linkage to prevention or ART initiation?
What	What package of services and demand creation interventions?	What HTS approach?	What linkage intervention?



Demand creation for HIV testing services

MOBILIZING

WHO good practices that increase uptake of HIV testing services:

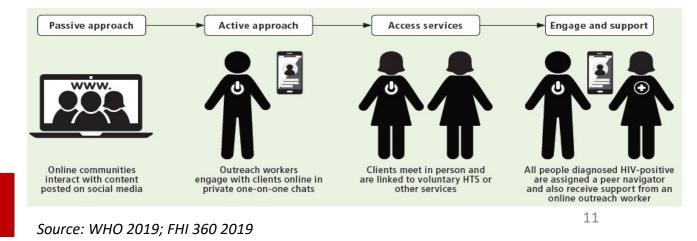
Peer-led approaches

Virtual and digital tools

Videos

Messaging matters: Brief pre-test information advised over lengthy pre-test counselling (WHO good practice) Experience from FHI360 (March 2016 to January 2019)

- Using online platforms, peer outreach workers counselled **6367 online users**, of **76%**(4879) tested.
- 75% of those contacted had never been in contact with a peer or outreach worker and 1/3 self-assessed as being at substantial risk for HIV.
- Overall, 431 (10%) individuals were diagnosed with HIV. This <u>HIV positivity is higher than among key</u> <u>populations</u> seeking testing through other referrals (10% versus 6%).



WHO-recommended HIV testing approaches





Facility-based: Offering HIV testing in a facility, e.g. VCT, in-patient and out-patient clinics, ANC, <u>**TB**</u>, <u>**STI**</u>, <u>**family planning/contraceptive services**</u>

Community-based: Offering HIV testing in natural setting of the community, e.g. outreach, CBOs, workplace, clubs, bars.

Provider-assisted referral (i.e. index testing or assisted partner notification): Assisting individuals with HIV by contacting their sexual and/or drug injecting partners and offering them HIV testing services; and offering HIV testing to biological children.

Social network-based approaches: whereby key populations offer HTS to their social, sexual and drug injecting partners at risk of HIV. Includes HIV+ and HIV- key populations



HIV self-testing: Offering self-test kit for individual, and/or their partner, enabling them to collect their sample (oral or blood), perform test, and interpret results in private. All reactive results need confirmation.



Supporting linkage to post-test services

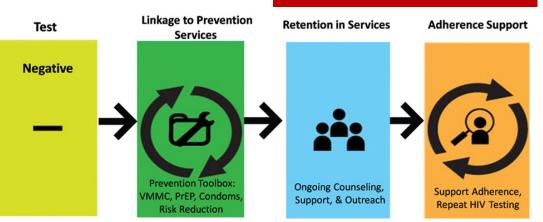
🤣 LINKING

Offer of rapid ART initiation and providing a package of support services based on context and population including (*strong recommendation*):

- **streamlined interventions** to promote rapid initiation: enhanced linkage with case management, support for HIV disclosure, partner services, staff training and co-location of services (moderate-quality evidence)
- peer support (including peer counselling) and navigation approaches for linkage (moderate-quality evidence); and
- **quality improvement** approaches using data to improve linkages (*low-quality evidence*).

CQUIN Key Populations Meeting, August 25-26 and 30-31, 2021 Source: WHO 2021; WHO 2019 Other considerations to support linkage and rapid ART initiation include:

- **Moving away from western blotting** to EIA and RDTbased approaches (strong recommendation)
- **People centred-care** models (best practice)
- Support offer of **treat all and same day offer** of ART for PLHIV regardless of CD4 cell count (best practice)
- Consider friendly, flexible, digital tools, peers and community strategies (& re-engaging LFTU PLHIV)



Don't forget prevention!

Post-test messaging good practices

🤣 LINKING

- Testing, prevention and treatment have evolved and so have post-test counselling messages
- Messages need to be:
 - Clear and concise
 - Include referral and offer of rapid ART initiation
 - Include U=U information and messages
 - Discussion of partner services
 - Additional linkages (re-linking) to HIV prevention, care, support and other relevant services



Key gap in messaging:

- WHO's 2019 review of studies and programme data found most messages did not explain that people who are on ART and virally suppressed will not transmit HIV to their partners
- Communicating this benefit is key and needs to be disseminated



WHO-recommended HIV testing approaches: Critical for key populations



Facility-based: Offering HIV testing in a facility, e.g. VCT, in-patient and out-patient clinics, ANC, <u>TB</u>, <u>STI</u>, <u>family planning/contraceptive services</u>

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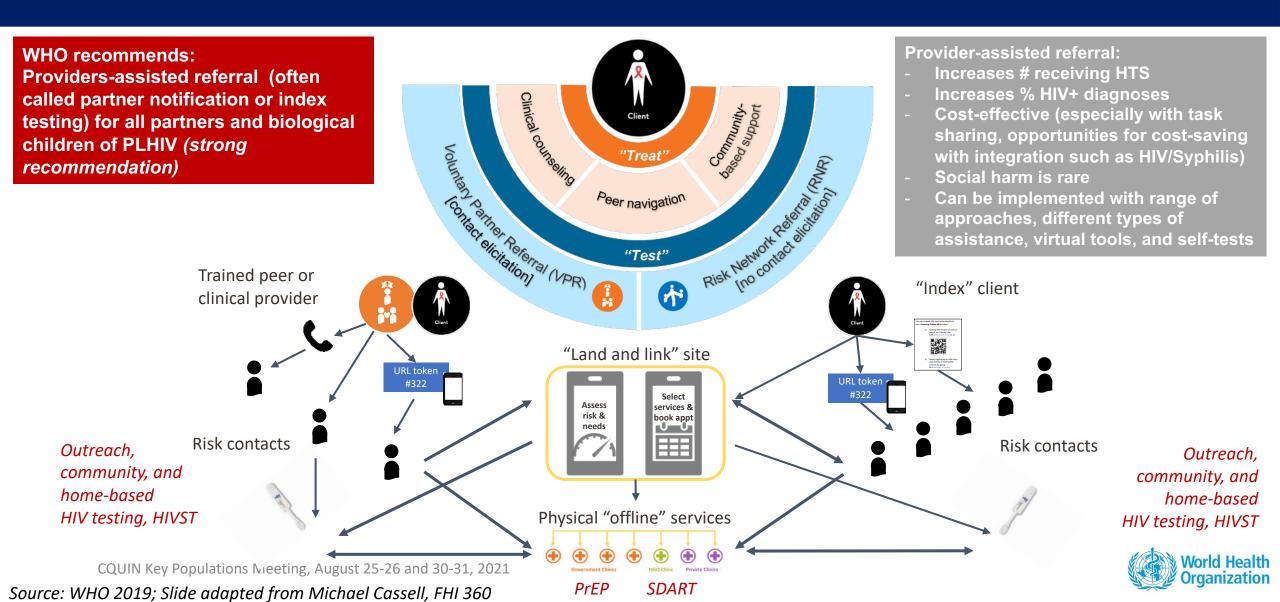
Community-based HIV testing approaches

Testing model	No. of studies	Total no. tested	%CD4 >350	% Male	%1 st time testers
Index	8	12,400	20-56%	45.3	95-97
Door-to-door	33	595,389	44-71%	45.9	30-90
Mobile	34	193,602	39-75	44.9	34-85
Mobile for key populations	30	44,623		62.9	42-69
Workplace	6	17,352	54	67.0	
School	4	2,678		42.2	

Towards universal voluntary HIV testing and counselling: a systematic review and meta-analysis of community-based approaches. Suthar AB, Ford N, Bachanas PJ, Wong VJ, Rajan JS, Saltzman AK, Ajose O, Fakoya AO, Granich RM, Negussie EK, Baggaley RC.PLoS Med. 2013 Aug



HIV partner services: Effective options and approaches

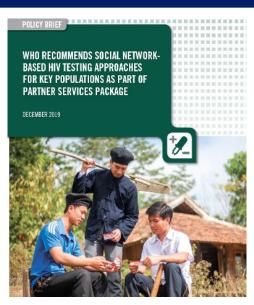


Social network approaches for reaching key populations and their partners



What are social networks and social networkbased approaches (SNA)?

- A social network refers to a group of individuals linked by a common set of relationships or behaviours and includes sexual and drug-injecting partners as well as social contacts.
- Social network-based HIV testing approaches are an extension of HIV partner services: A trained provider asks PLHIV and/or those who are HIVnegative from key populations to encourage and invite individuals in their sexual, drug injecting or social networks to participate in voluntary HTS.



WHO recommendation

Social network-based approaches can be offered as an approach to HIV testing for key populations as part of a comprehensive package of care and prevention *(conditional recommendation).*

Key evidence has shown SNA among key populations:

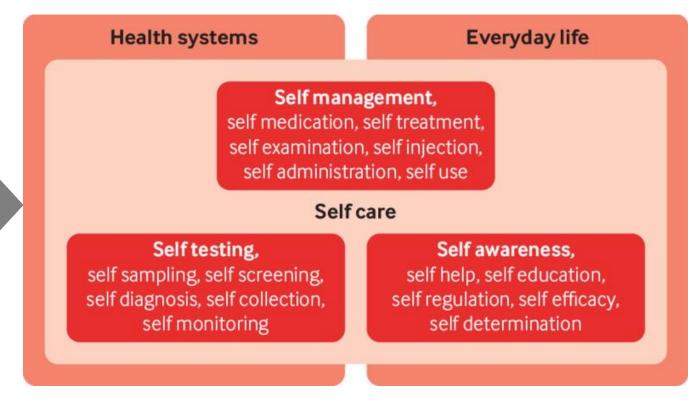
- may increase HIV diagnoses and identify additional PLHIV
- may increase the acceptability of HIV partner services
- feasible to implement
- can be an efficient use of resources when focused
- seldom result in any social harm or adverse events.



Self-care and self-testing

Self-care

The ability of individuals to promote health, prevent disease, maintain health, and cope with illness and disability with or without support of a healthcare provider.

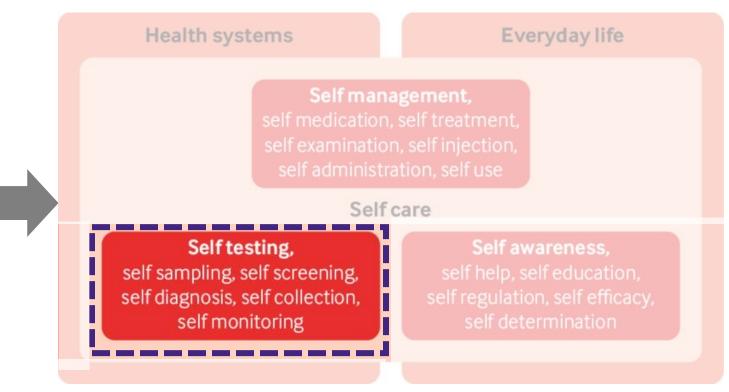




Self-care and self-testing

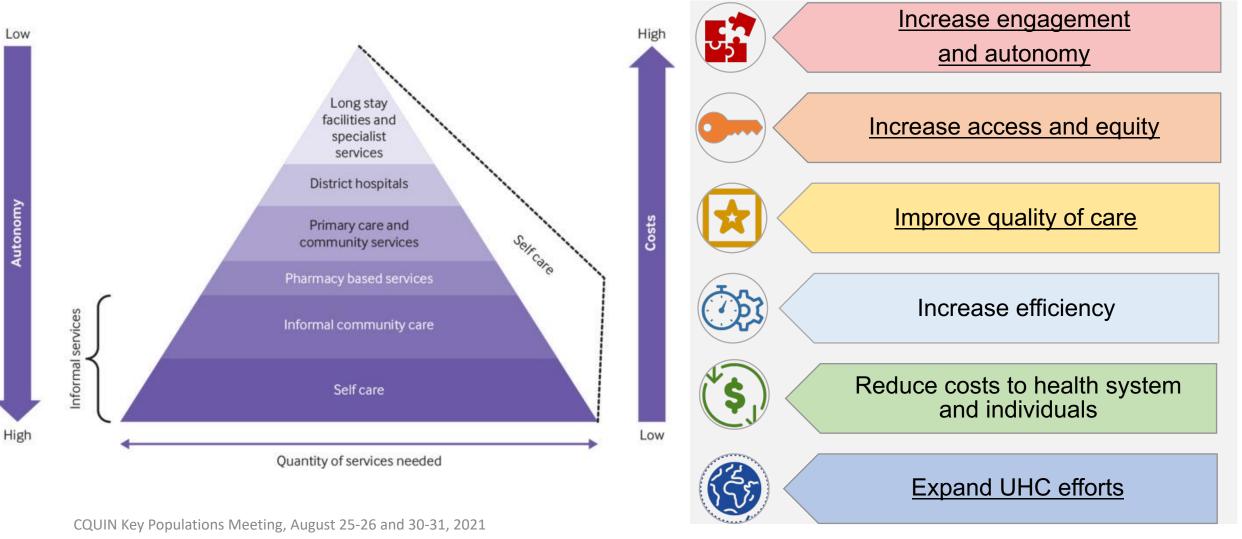
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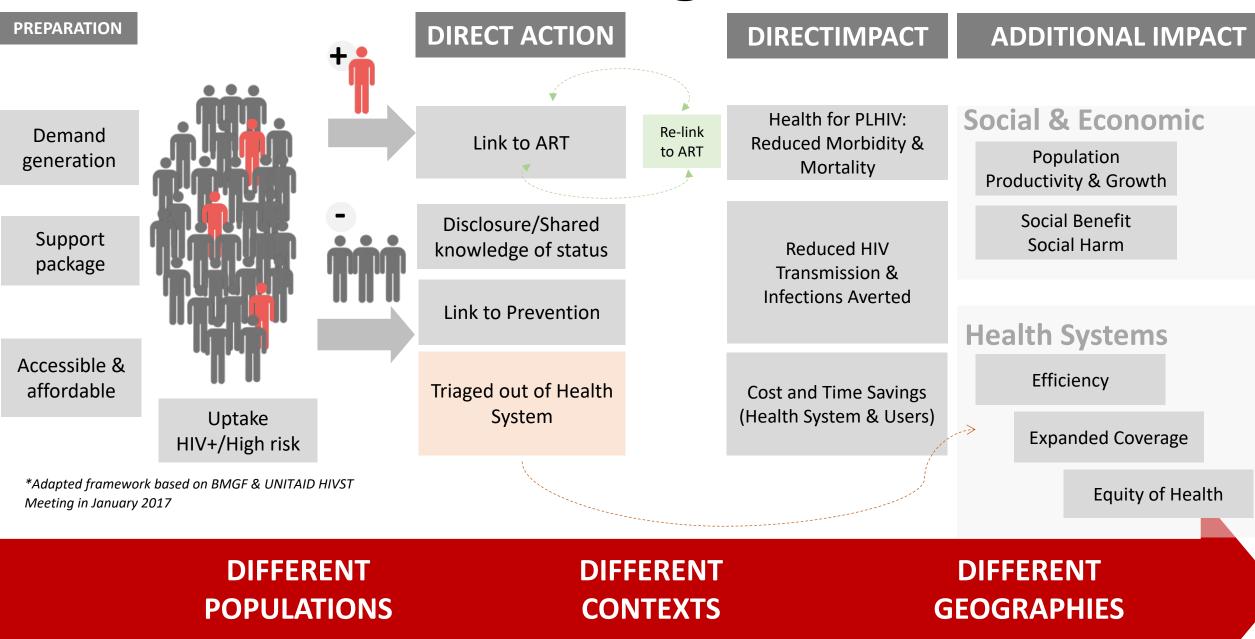


Self-care and self-testing: critical to health system



Source: Remme 2019, https://www.bmj.com/content/365/bmj.11228

HIV Self-testing framework



WHO recommendations on HIV self-testing



World Health Organization



Source: WHO 2019, Jamil et al 2019 review

Key evidence showed HIVST is:

- Safe and accurate
- Highly acceptable
- Increased access
- Increased uptake and frequency of HIV
 - testing among those at high risk and who may not test otherwise
- Comparable linkage and more total HIV+ diagnoses
- Empowering
- Can be affordable and cost-effective when focused

WHO recommendation:

HIV self-testing should be offered <u>as an</u> <u>approach to HIV testing</u> services

(strong recommendation, moderate quality evidence)

Remarks

- Providing HIVST service delivery and support options is desirable.
- Communities need to be engaged in developing and adapting HIVST models.
- HIVST does not provide a definitive HIV-positive diagnosis. Individuals with a reactive test result must receive further testing from a trained tester using the national testing algorithm.

HIV self-testing consideration among key populations

Witzel et al. BMC Medicine (2020) 18:381 https://doi.org/10.1186/s129164020-01835-z

BMC Medicine

RESEARCH ARTICLE



Comparing the effects of HIV self-testing to standard HIV testing for key populations: a systematic review and meta-analysis

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Abstract

Background: We update a providus systematic review to inform new World Health Organization HV self-testing HVRT recommendations We compared the effects of HVRT to sandard HV testing services to undestand which service dislayer models are effective for key populations.

Methods: We did a systematic review of randomised controlled trials (RCTI) which compared HIVST to standard HV resting in key populations, published from 1 Ianuary 2006 to 4 June 2019 in PubMed, Embase, Global Index Medicas, Scala Policy and Practice, ByddPRO, Haith Management Information Consortium, BBSCOCINVH, Plus, Centrane Library and Web of Science. We estanced study characteristic and outcome data and conducted risk of bias assessments using the Cochrane ROB tool version 1. Random effects meta-analyses were conducted, and pooled effect estimates were assessed along with other evidence characteristics to determine the overall strength of the evidence using GRADE methodslogy.

Results: After cancering 500 stics and abstracts, we identified 10 RCT which reported on testing automats. These included 9679 participants, of whom 5486 were men who have say with man (MSM) 72 were trans people and 4121 were terminal say works. Sinvice delivery models included facility-based, certine/hail and peer distribution. Support components were highly diverse and ranged from heighnes to tahling and supervision. HMST increased testing updates by 14.5 times (RFI-145 996 C1 12), 125, For MMM and mail numbers of trans people, HMST increased testing updates by 14.5 times (RFI and Soc 12), 125, For MMM and mail numbers of trans people, HMST increased the mean number of trans people, HMST increased testing updates (RFI and Soc 1124, 348, There was no difference between HMST and Soc 114, 438, There was no difference between HMST and Soc 140, 145 Ticker (SMS C1 124, 408, 145 145 100, 121). So and it complement distribution systems (RFI and Soc 114, 438, 145 11, 145

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- HIVST increased uptake compared to standard testing among KP (10 RCTs)
- HIVST more than <u>doubles positivity</u> compared to standard testing among KP (all those randomized; 9 studies)
- Slight decrease in linkage among KP however no difference in MSM/TG populations, suggesting FSW are key group that may need more support
 - FSW studies (2) suggesting lower linkage both used **peer educator models** distributing kits via educators and/or a coupon to get kits at clinic/pharmacy.
 - **FSW consultations important** for designing linkage strategies
 - Evidence in general populations on enhancing linkage following HIVST suggest: home-based ART, provider-incentives and peer navigators are effective; such strategies could be considered and adapted for KP
- Results consistent across settings and showed multiple HIVST approaches are beneficial among KP
 - Online and mail HIVST distribution perform particularly well increasing uptake and positivity compared to standard testing among KP



Conclusions

• HTS progress – we've come a long way but the challenges remain

- Must continue to adapt to the changing HIV epidemic
- Focusing on available data, priority populations, settings and approaches increasing critical to be efficient and effective
- Efforts ahead especially in light of COVID-19 will require solutions, virtualization of services and self-care/self-testing are critical
- Many strategic HTS approaches for reaching KP
 - It's not 1-size fits all but about a strategic mix of patient-centered approaches for KP which consider mobilization, testing service delivery and linkage
 - Scale-up of KP approaches needs to include both case-finding and prevention driven HTS strategies
 - Ongoing monitoring and engagement with communities is essential



For more information on HIV testing services

WHO HIV Testing Services Dashboard

WHO HIV Testing Services Info App

WHO HTS GL

Questions?

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