

UNITAID PSI **HIV SELF-TESTING AFRICA**

Measuring the health impact of HIVST: using STAR examples for future research

> Melissa Neuman, LSHTM 30 March 2017





















Goals of presentation

- Provide a quick overview of one STAR intervention: community-based distribution (CBD) of HIV self-tests (HIVST)
- Highlight data capture tools used to measure outputs, outcomes, and impacts of community distribution model

STAR evaluation: Impact of community distribution of HIVST

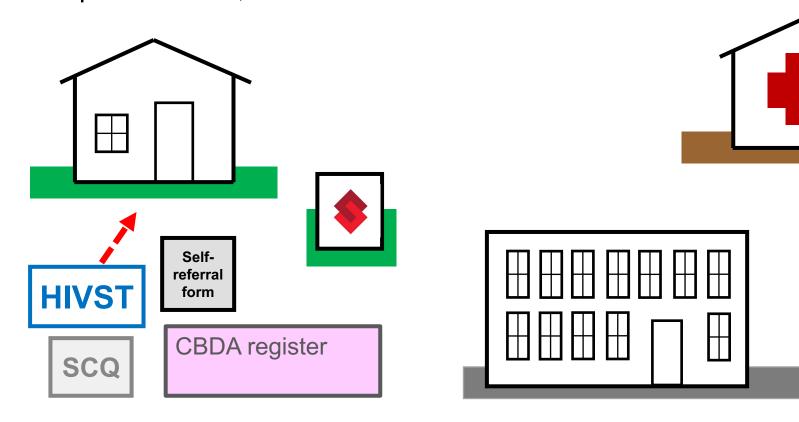
- Does community-based distribution of HIVST increase testing rates and rates of linkage to ART services?
- Cluster (facility) randomized design, with facility catchment areas randomly allocated to receive HIVST distribution or no distribution
- Examples from Malawi used; similar research in Zambia

Unpacking the research question: inputs, outputs, outcomes, impacts

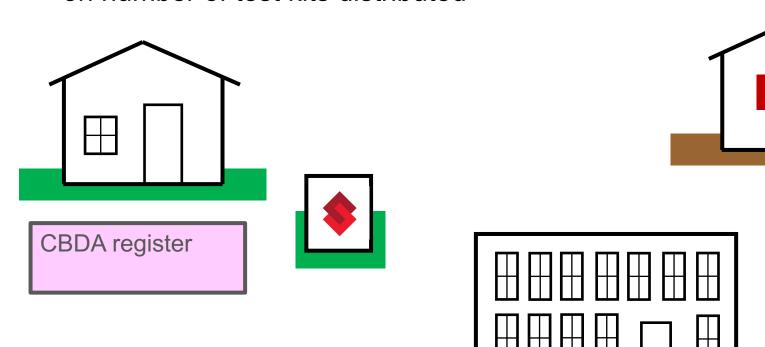
Inputs	Outputs	Outcomes	Impacts
 Self-test kits Training materials Staff time 	 Test kits distributed Information on testing and linkage disseminated 	 Clients use ST kits Clients link to prevention or treatment if needed Adverse outcomes? 	 More people know their status More PWHA on treatment

Need to know actions of CBD, client, and facility staff – collect data at **each step** of distribution process

1. CBDA brings self-test, self-completed questionnaire, and self-referral form to client



2. CBDA completes registry entry with information on number of test kits distributed

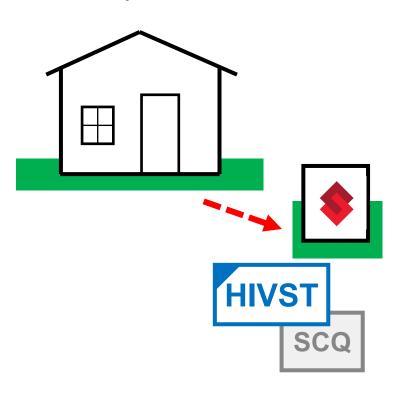


CBDA registry data form

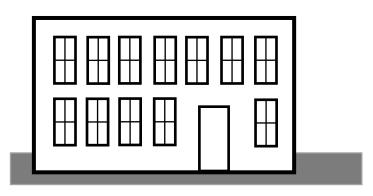
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- Limited information on household members (sex and age)
- Number of kits distributed

3. Client completes test and drops used test kit and questionnaire in box





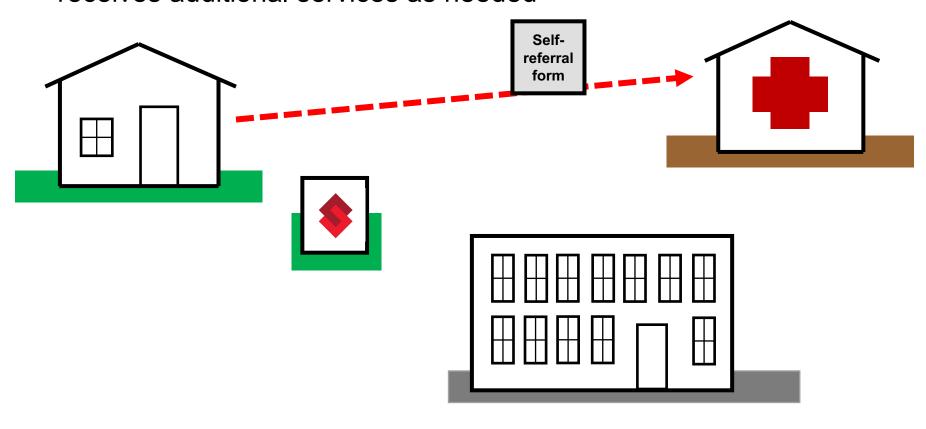


STAR client self-completed questionnaire

SELF-COMPLETED QUESTIONNAIRE Chidziwitso: Zotsatira zanu za zoyezetsa za HIV sizikhala ndi dzina lanu komanso palibe munthu amene azaziwe zotsatirazo olo opereka zipangizo amene pokhapokha mutawauza zotsatirazo inu nokha. Mayankho anu azasungidwa mwachinsinsi. Chonde yankhani mwachilungamo. Important: Your HIV result will not be linked to your name and no one including the distributor will know your result unless you disclose it yourself. Your answers will remain confidential, so please be honest. 1) Kodi muli ndi zaka zingati? 2) Ndine wa П 1 − Mwamuna П 2 - Mkazi My age is 3) Zotsatira za kuyeziyeza ndekha HIV: 6) Kodi mungawalimbikitse anzanu ndi ku bania kwanu My HIV self-test result is: kugwiritsa ntchito chipangizo choyezera cha mkamwachi? Would you recommend this HIV test kit for self-testing to ☐ 1 – Ndili nako ☐ 3 – Ndilibe 2 − Sindifriends and family? Positive kudziwa Negative Not sure/ 1 – Kwambiri Π 2 − Kokavi-П 3 – Avi Definitely yes Definitely no Invalid 7) Ngati munakakamizidwa kuyezetsa, ndi ndani 4) Ngati munayezetsa, zotsatira zake zoyezetsa HIV zinali: My last HIV test result was: anakukakamizani? If forced to test, who forced you? ☐1 - Ndili 2 - Sindi-☐ 3 – Ndilibe 1 - Sindinachite kukakamizidwa kudziwa Negative I was not forced Positive Not sure/ ☐ 2 - Okondedwa/mamuna wanga/mkazi wanga Invalid Husband/wife or spouse or partner 3 - Kholo/wondiyang'anira/achibale ena Partner, quardian, or other relative 4 - Mzanga/kapena ogwira naye ntchito Friend or colleague ☐ 5 - Kuntchito Employer 5) Ngati muli nako, muli pa mankhwala a ART? 8) Kodi inu kapena wina wake anavulalapo poyezetsa HIV? If positive, are you already on ART? Have you or someone else been injured as a result of HIV testina Π 1 - Eya П 2−Avi ☐ 1 – Eya, Π 2 – Eya, Π 3 – Aγi Yes panopa m'mbuyomu Yes, from a Yes, from this

- Pictograms and words for lowliteracy populations
- Includes questions on outcomes: test results, harms, satisfaction with test

4. Client brings self-referral form to clinic and receives additional services as needed

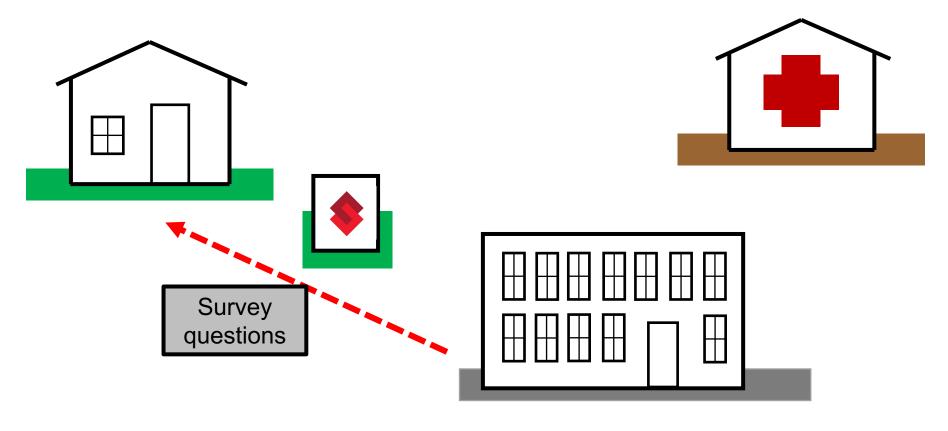


STAR self-referral form

SIDE 1: THIS SIDE CONTAINS CLINICAL INFORMATION FOR THE CLINIC CBDA: FILL IN THIS SECTION BEFORE REFERRING
Name Date referred to clinic d d d m m y y
THIS SECTION TO BE COMPLETED UPON REGISTRATION AT CLINIC
Date registered at clinic d d d m m m y y Tacility code ID number Facility code ID number Facility code ID number
National HIV care number
If TB suspect Sputum 1 ☐ Pos ☐ Neg Started on TB ☐ Yes results of smears: Sputum 2 ☐ Pos ☐ Neg treatment ☐ No
WHO staging
Staged by HIV confirm Positive N/A Negative N/A HIV care ART Pre-ART
IPT exclusion Liver disease IPT temporary High alcohol IPT decision Start IPT screen Epilepsy exclusions On ART < 3m
IPT rescreen due y y

- ST kit distributor is identified for research and followup
- Facility ID number and health data included
- Provides data on outcomes and impact of intervention on ART use

4. Survey teams visit at beginning and end of intervention to measure population impact



Household survey questions

- Data collected from members of households within the facility catchment area
- Include questions on impacts self-reported testing and ART use – as well as outcomes
- Sociodemographic data allows us to identify whether ST use differs by important characteristics
- Data collected on harms, including forced testing and disclosure and IPV

Summary: STAR data collection tools

Survey tool	Inputs	Outputs	Outcomes	Impacts
CBDA registry	CBDA visits	Test kits and information distributed		
Self- completed questionnaire		Test kits used	Adverse events (forced testing)	
Self-referral form				Linkage to treatment
Household survey	CBDA visit	Test kit received	 Test kit used Adverse events (forced testing and disclosure, IPV) 	Population testing ratePopulation ART use

Benefits and drawbacks of STAR data collection tools

Benefits

- Items measured in multiple ways – allows for cross-checking or triangulation
- Measure items from perspective of everyone involved in community distribution

Drawbacks

- Different data tools may yield different results – what to do?
- Large amounts of data to clean and analyse
- Clients, CBDs, and facility staff all required to complete data tools – heavy burden

Thanks to...

- Malawi investigators: Richard Chilongosi, Professor Liz Corbett, Dr Nicola Desmond, Sarah Gibson, Pitchaya Indravudh, Moses Kumwenda, Wezzie Lora, Phillip Mkandawire, Chiwawa Nkhoma
- International investigators: Dr Rachel Baggaley; Professor Liz Corbett; Professor Frances Cowan; Dr Nicola Desmond; Dr Katherine Fielding; Dr Karin Hatzold; Dr Rein Houben; Cheryl Johnson; Professor Graham Medley; Dr Melissa Neuman; Professor Rosanna Peeling; Amy Power; Dr Miriam Taegtmeyer; Dr Fern Terris-Prestholt; Professor Helen Weiss; Dr Richard White
- Protocols and data collection tools are on the HIV STAR-LSHTM website

http://hivstar.lshtm.ac.uk/protocols/