Improved TB Testing in Malawi Following Targeted Supportive Supervisions for TB LAM uptake



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BACKGROUND

Tuberculosis (TB) case finding in people living with HIV (PLHIV) has been a focus of HIV and TB programs for years. Malawi historically depended on sputum microscopy and, more recently, GeneXpert for TB diagnosis. GeneXpert improved pulmonary TB

In 2018, the DHA adopted the World Health Organization

DESCRIPTION

recommendation that all PLHIV with CD4<200, WHO stage 3/4 or who are seriously ill, have access to TB LAM testing for TB diagnosis. By January 2021, TB LAM implementation had

RESULTS

Malawi has seen a steady
increase in the percentage of
AHD patients who received a
TB LAM test since the
supportive supervision visits
were conducted. From January
June 2021, the 118 AHD
sites in country were testing
AHD patients for TB at an
average of 81.4%. However,
following capacity building and
uptake reinforcement, the
average TB testing rate
increased to 93.7% during July
December 2021.

DISCUSSION / NEXT STEPS

- Malawi was one of the first low- and middle-income countries to adopt TB LAM testing and tailored supportive supervisions have been crucial in improving TB testing.
- Scale up to 218 facilities started in 2022 to increase access and further decentralize POC TB

detection, however, given that significant proportions of PLHIV with TB are unable to produce sputum or have extra-pulmonary TB, TB detection remained a challenge.

In response to this, Malawi adopted the use of TB lipoarabinomannan (LAM) Point of Care (POC) in the 2018 national guidelines for Clinical Management of HIV as recommended by WHO 2017 guidance. In this guidance, it was recommended to routinely test all children 5 years+ and adults with CD4 < 200cells/ml or signs and symptoms of WHO Stage 3 or 4 disease using the TB LAM test before ART initiation.

scaled up to 118 sites across 28 districts.

However, uptake data from the lab registers demonstrated gaps in TB LAM testing for confirmed patients with AHD. Following lifting of COVID 19 movement restrictions, capacity building through supportive supervision visits were conducted in June 2021 utilizing a checklist/score card at implementation sites to identify and address uptake barriers and share TB LAM best practices with health care workers (HCWs).

In addition to the scorecard, crucial components of the supervision visits include interviews with providers to understand barriers to uptake and provide clinical refresher trainings, stock inventory and management to ensure prevention of stock outs and timely ordering, and review of data capturing tools to ensure tools were functional and TB LAM testing was being testing in Malawi.

 National HIV and TB programmes can learn from Malawi's experience improving TB LAM uptake for PLHIV with AHD.

LIMITATIONS

- The study was not a controlled trial and was not powered to look at uptake changes.
- Not all sites had TB LAM data consistently recorded in the HIV and Lab registers. Additionally, sites were provided data entry mentorship alongside support visits, which could have contributed to the

increased rates of TB LAM



Although the Malawi Department of HIV and AIDS recorded in the data tools.

Improved TB Screening Rates at the 118 AHD Sites Following Supportive Visits





reported at sites following the visits.



ACKNOWLEDGEMENTS

This work was made possible through the support of Unitaid. The project also acknowledges all the subjects and health care workers at each of the AHD

Data collected from the 118 AHD sites in Malawi demonstrates a clear improvement in TB LAM screening rates following supportive supervision visits conducted in July 2021. Key components during support visits include:

(DHA) introduced the TB LAM test in a bid to address these issues, uptake of the test remained lower than anticipated. In response to this, the DHA conducted a tailored supportive supervision visits in July 2021 to improve TB LAM uptake.

1. Refresher trainings on how to conduct and accurately read the result of the TB LAM test

 Guidelines review to ensure HCWs at sites were familiar with TB LAM guidance for patients with CD4 < 200/ml or Stage 3 or 4 disease

3. Review site workflows to ensure timely and efficient TB LAM

sample transfer and testing

4. Overview of M&E protocol for accurately inputting TB LAM

testing data into site data tools









