Background and Objectives

The novel urine-based FujiLAM test has shown a promising diagnostic accuracy to identify TB in HIV-positive patients but may be complex to use. We assessed the feasibility and acceptability of implementing the test in primary care setting.

Methods

Study design: Mixed methods study; (quantitative and qualitative data collection) conducted in outpatient settings between November 2020 and September 2021.

Study sites: Kenya - Homa Bay County Hospital; Mozambique - Alto Mae Health Centre; South Africa - Eshowe Hospital and Eshowe Gateway Clinic; Uganda - Mbarara Regional Reference Hospital

Population: FujiLAM test users and TB program managers

Study procedures:
1) Direct observations of the health facilities’ organization
2) Direct observations of FujiLAM testing procedures
3) Test proficiency evaluation (FIND)
4) Self-administered standard questionnaires
5) Individual interviews with test users
6) Group discussions with program managers

Results

Training: 2-4 hours, minimum supervision after training

Who can perform the FujiLAM test

All healthcare workers, whatever their background, were technically able to perform the test: proficiency achieved by 10/11 (91%).

“Who can perform the FujiLAM test”

"If there is good training really anyone can do it”

Lab technician

Where was the FujiLAM test be performed

- Using existing infrastructure
- Existing mini laboratories or consultation spaces.

“The FujiLAM is quite complex, compared to other rapid tests. For me, this test must be done in the lab because it has more steps.”

Lab manager

Conclusion

- Implementing the FujiLAM test at point-of-care in outpatient settings is feasible using existing infrastructure.
- The test is well accepted as a point-of-care test by test users and managers.
- The test can be performed both in the health facility laboratory room or in the consultation room by any healthcare worker, including lay health workers.

Table 1

<table>
<thead>
<tr>
<th>Study Participants</th>
<th>Clinician</th>
<th>Nurse</th>
<th>Lab technician</th>
<th>Community Health Worker</th>
<th>Study coordinator</th>
<th>Lab manager</th>
<th>TB program manager</th>
<th>TB policy advisor</th>
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<tbody>
<tr>
<td>FujiLAM test users</td>
<td>2</td>
<td>7</td>
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<tr>
<td>Individual interview</td>
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<td>2</td>
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<tr>
<td>Group discussions participants</td>
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<td>4</td>
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