

Why do health workers give antimalarials to patients with negative rapid diagnostic test results?

A qualitative study of factors affecting provider decision making at rural health facilities in Uganda

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Background

- Uganda adopted WHO recommendation for malaria diagnosis in 2010
- Scale up of rapid diagnostic tests (RDT) use in all public health centres without functional laboratory services
- Malaria Consortium's Pioneer project and the Ugandan Ministry of Health (MoH) introduced RDTs at 88 health facilities (HFs) in five districts in mid-western Uganda

Training, supply of RDTs and support supervision





Uganda study area





Study objective

To explore the determinants of health worker decision making to prescribe antimalarials following a negative RDT result for malaria





Methods

Prescription data audit at 30 health facilities

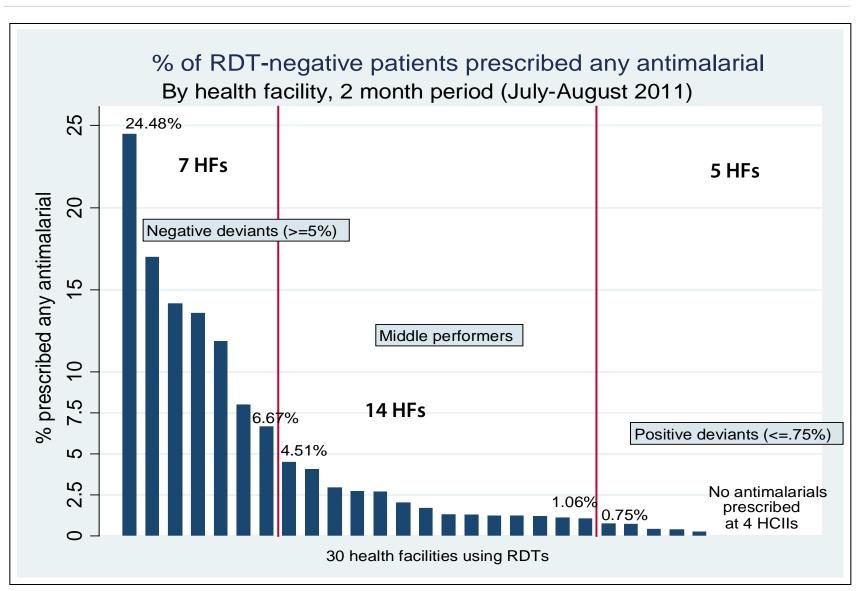
- To select health facilities for study sites
- ► HFs were ranked according to prescribing performance:
 - Positive and negative deviants
 - Middle performers

Purposive sampling for qualitative enquiry

Positive (5) and negative (7) deviants selected to provide maximum range of health worker prescribing behaviours



Ranking and categorisation of health facility prescribing performance





Uganda health system structure

Hospital

All cadres

Health Centre IV

Medical officer, clinical officer, nurses and assistants nurses

Health Centre III

clinical officer, Lab Assistants nurses and assistants

Health Centre II

enrolled nurse, midwife, nursing assistant, health assistant

Health Centre I

volunteer community health workers (VHT)

PREVENTION DIAGNOSIS TREATMENT RESEARCH

5 HFs

7 HFs



Data collection methods and participants

- Observed 22 prescribing health workers (11 nurses, nine nursing assistants, two clinical officers) managing 55 patients with fever (average 2.5 per health worker)
- Semi-structured interviews with all observed health worker and observed patients/caregivers

Data analysis

Qualitative thematic analysis using the 'systematic framework approach' (Pope et al, 2000)



Key findings

- 8,368 RDT-negative patients identified
- ▶ 330 (3.9%) had been prescribed antimalarial drugs
- ► High (96.1%) adherence to RDT results
- Majority (78%) of RDT negative patients were prescribed antibiotics





Key findings

- Challenge of managing RDT negative patients who have already taken ACTs
- Limited health worker understanding of what RDTs detect
- Concerns for patient safety lead to presumptive treatment of RDT negative cases
- Health workers lacked the ability to make an alternative diagnosis
 - Low clinical skills
 - Limited alternative point of care diagnostic tools
 - Environmental constraints such as workload



Key findings

- Health worker-patient communication gap
 - Tendency not to explain purpose and outcome of testing
 - Health worker perception of patient demand: antimalarial prescription

"The most challenging part is communicating the results to the patient because some patients come here with a belief that they have malaria and expect to get treatment, so telling them a negative result is a disappointment on their side."

Nurse in charge, HCII

"Many patients pressurise me to give [ACT] even when the results are negative and I give them [SP], but if the patient says that it is only [ACT] that he uses, then I give [ACT]. However these cases are few."

Nursing Assistant, HCII



Potential opportunities for health worker behaviour change

- Improve understanding of how RDTs work
- ► Health workers lacked the ability to make an alternative diagnosis
 - Low clinical skills
 - Limited alternative point of care diagnostic tools
 - Environmental constraints
- Develop better methods for assisting providers in diagnostic decision making
- Improve interpersonal communication skills to:
 - Communicate test results and diagnosis
 - o Influence patient adherence to test results and treatment



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Prevention diagnosis treatment research



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