# EVALUATION OF COMMUNITY-BASED DELIVERY AND ADMINISTRATION OF THE SARS-COV-2 Ag RDT IN A MAR LIDITUDE OF THE SARS-COV-2 AG RDT IN A MAR LIDITUDE OF THE SAR

Powell Choonga<sup>1</sup>, Aaron Shibemba<sup>1</sup>, Lindiwe Nchimunya<sup>2</sup>, Yucheng Tsai <sup>2</sup>, Namwaka Mulenga <sup>2</sup>, Fiona Gambanga<sup>2</sup>, Shaukat Khan<sup>2</sup> Ministry of Health, Zambia 1, Clinton Health Access Initiative Zambia 2

# BACKGROUND

To expand access to testing beyond public health facilities and to strengthen surveillance efforts for COVID-19, community testing using COVID-19 antigenbased Rapid Diagnostic Tests (Ag-RDTs) has been identified as a major area of focus in Zambia. The aim of this research is to gather evidence on the feasibility and acceptability of community testing in a marketplace.

#### **OBJECTIVES**

- Describe the implementation process and challenges associated with the deployment and administration of Ag-RDT tests
- Measure the extent to which Ag-RDT was implemented for surveillance in the
- · Assess community health care worker and staff perspectives on the feasibility and acceptability of Ag-RDTs.
- · Measure the success of quarantining after being tested in a community setting

# METHODOLOGY

A cross-sectional study with a mixed-method design was conducted in M'tendere market, a highly trafficked market in Lusaka Province. Data was collected via semistructured surveys prospectively to explore individual satisfaction with testing, service delivery, and experience with self-quarantine for individuals testing positive.

# M'tendere Market, Lusaka

- One of the largest markets in Lusaka
- Services 3 surrounding neighbourhoods/
- Is visited by over 800

# RESULT

Study population: 1,723 people who voluntarily accessed COVID-19 symptoms at time of the test. tests at the marketplace

Healthcare Workers' Feedback

the survey indicated that testing in

the marketplace is feasible and

Suggested areas of improvement

consistent testing days

include the increase of sensitization

/demand generation and the set-up of

**Populations Characteristics** 

Demographics: Median age: 28 years (IQR 20-39 years) 54% males & 46% females

acceptable.



· Positivity rate:

## Reported Symptoms

- · 99% of participants reported no
- · Dry cough and congestion were the most common symptom combination (6%)



Follow-ups of Positive Cases

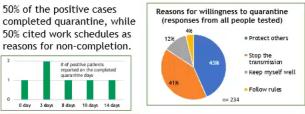
50% cited work schedules as

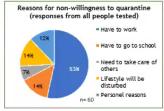
reasons for non-completion.

#### Testing Reasons & Acceptability

- 59% of respondents indicated a desire to know their COVID-19 status as the reason for testing & 32% indicated self-care.
- 67% and 33% of all respondents found the market testing experience and sample collection "very acceptable" and "acceptable" respectively.

#### **Opinions on Quarantine**





# Community testing is a feasible and acceptable

CONCLUSION

intervention to increase testing access in Zambia. especially coupling with community sensitization, education, and mobilization. This strategy provides an additional testing modality for countries to manage the epidemic and maintain surveillance.

## LIMITATION

- · Causality cannot be inferred given it was an observational analysis but not a randomized design
- · Self-selection bias and skewed feedback could happen given test receiving was voluntary
- External factors were not controllable

## LESSON LEARNED

 cooperation with local authority, sensitization and awareness raising, shifting testing sites regularly, and the inclusion of integrated services are key.

## WAY FORWARD

 The Ministry of Health in Zambia has included community testing in the National COVID-19 Testing Guidelines as one of the key strategies.

#### ACKNOWLEDGEMENT





Innovative New

For any inquiries and questions. please send e-mails to:

Aaron Lunda Shibemba, MOH Zambia Powell Choonga, MOH Zambia powellchoonga@gmail.com

CONTACTS

# What Worked Well among Individuals for Community Ag-RDT Testing?

• 100% of the HCWs that participated in • 50% of the positive cases

· The service efficiency and short turnaround time were the major feedback on what worked well (43%), followed by the characteristi \( \) of the tests (35%) i.e. not a painful test

Friendliness & Reception speed (43%) test (35%) Good service Good test in general (4%)