CHANGES IN MALARIA TEST POSITIVITY RATE FOLLOWING Abstract No: SCALE UP OF LIFE-SAVING MALARIA CONTROL INTERVENTION IN EBONYI STATE, SOUTH EAST NIGERIA Grace Nwankwo¹, Chinwe Nweze², Chinedu Egwuonwu¹, Onyinye Udenze¹, Jonathan Igboji¹, Abimbola Olayemi³, Olatayo Abikoye³, IniAbasi Inglass³, Uchenna Nwokenna³, Lawrence Nwankwo⁴, Arja Huestis⁵, Thomas Hall⁵, Allan Were⁵, Olugbenga Mokuolu⁵,

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Introduction

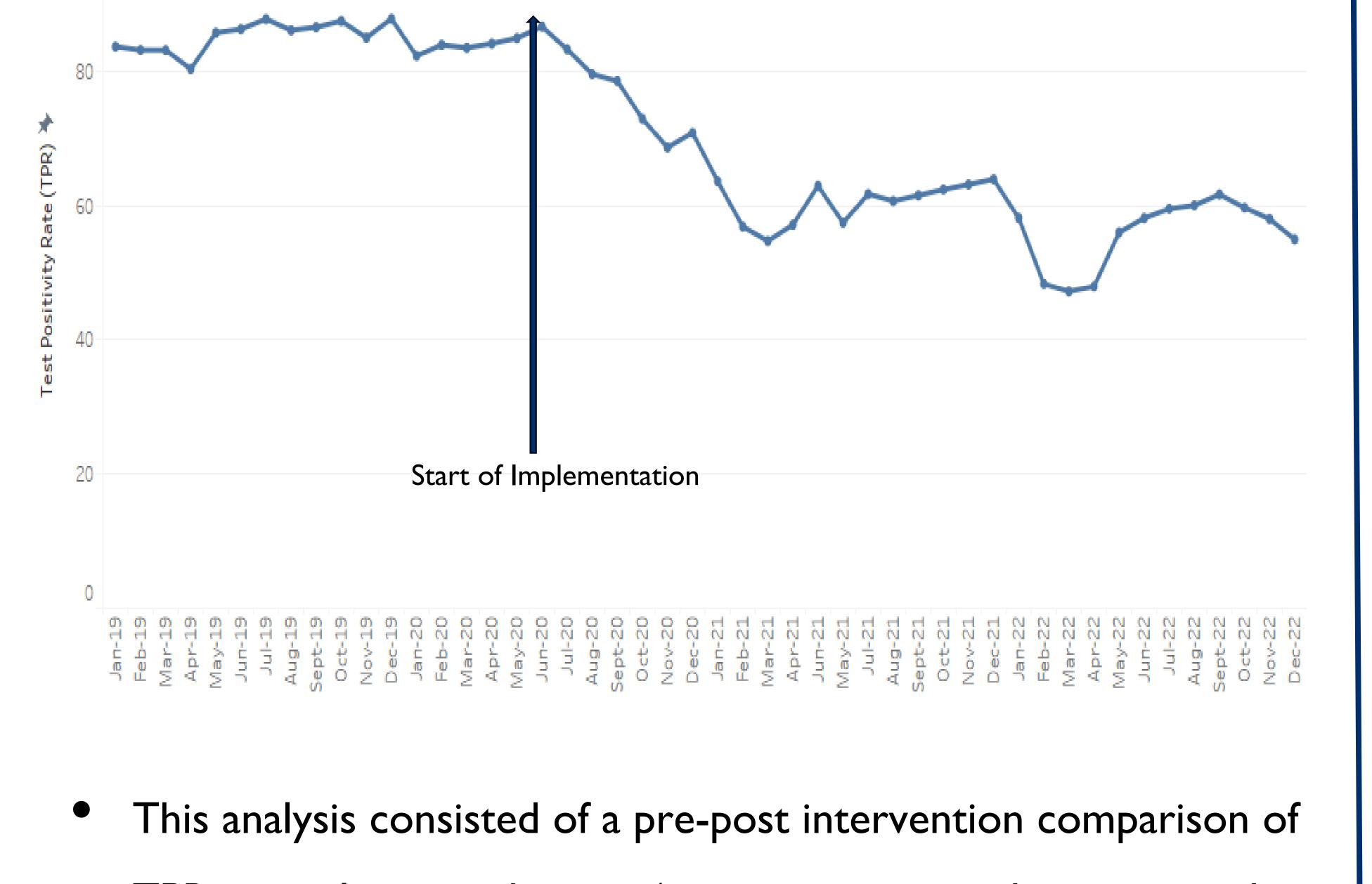
Nigeria accounts for 26.6% of global malaria

cases according to the 2022 World Malaria

Figures and Results

Declining Test Positivity (TPR) in Ebonyi State (Jan 2020 - Dec 2022)

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Report. Surveillance is paramount to track

malaria morbidity and guide decision-making for

appropriate transmission-reducing responses.

One tracking measure is the malaria test

positivity rate (TPR) which is used as an

alternate indicator of malaria morbidity since it

is based on parasitological confirmation. Over the years, TPR remained high regardless of season possibly due to poor quality of fever testing and documentation. This study

investigates the changes in TPR observed in

Health worker conducting mRDT in a PMI-S-supported facility in Ebonyi State

Discussion

It is worth noting that COVID did not affect the TPR as only a total of 2,064 confirmed cases were reported

in the state from 2020 to 2023.

While the reduction in TPR is

Ebonyi State Nigeria.

Methods

- This study investigates the correlation between
- the observed positive change in TPR and the
- interventions implemented to support the
- Ebonyi State Malaria Elimination Program
- (SMEP). These efforts include case and data
- management training, implementation of
- Behavior Economics (BE) to improve fever case

TPR in similar periods over 4 years using secondary routine data

from the National Health Management Information System

across the 762 health facilities of the state.

- The data found that the pre-intervention TPR from January to March 2019 was 71% and remained high at 68% from January to March 2020.
- The intervention commenced in July 2020, and six months postintervention (January-March 2021), the TPR declined to 54% and further reduced to 50% from January to March 2022.
- Also, the seasonality trend was not seen pre-intervention

promising, other factors such as bed net use can highly affect it. Nevertheless, it remains one measure of the effectiveness of the support to Ebonyi SMEP on malaria program implementation and suggests that training, supervision, archiving of RDT cassettes, and BE prototypes implementation can influence the quality of malaria case management.

These findings strongly present the

management, supportive supervision,

triangulation of service and logistic data, and the

archiving of used rapid diagnostic test (RDT)

cassettes to increase health provider adherence

to national guidelines for fever management.

(January 2019-June 2020) but became obvious during the

intervention (July 2020-December 2022).

opportunity to scale up our efforts

in other states.

References

World Health Organization, World malaria report 2022

¹Management Sciences for Health, Abuja, Nigeria; ²Management Sciences for Health, Arlington, USA; ³National Malaria Elimination Program, Nigeria LED BY Management Sciences for Health **U.S. PRESIDENT'S** Malaria initiative This document was produced for review by the United PM FROM THE AMERICAN PEOPLE States Agency for International Development Nigeria Mission (USAID/Nigeria).