



## PROJECT BRIEF

# Transitional, Enhanced, Accessible Malaria Surveillance (TEAMS)

This project aims to help strengthen surveillance and monitoring and evaluation systems to meet its objectives towards malaria elimination

### Country

Myanmar

### Donor

President's Malaria Initiative

### Partners

National Malaria Control Programme (NMCP)

World Health Organization

### Length of project

April 2015 -  
December 2016

### Project outline

As Myanmar moves towards a more targeted approach to malaria control and elimination, strengthening malaria surveillance plays an essential role in the national malaria strategic plan. In June 2014, Myanmar introduced a malaria implementation plan focused on data management, developed jointly by the National Malaria Control Programme (NMCP) and Malaria Consortium, to strengthen malaria surveillance. Malaria Consortium is providing technical assistance and capacity building support to the NMCP in implementing this new surveillance tool, strengthening data collection, and linking reporting through basic health staff and village health volunteers for rapid response.

To record patient-level data, a Microsoft Excel database was upgraded to a Microsoft ACCESS relational database, which was tailored to existing technology in Myanmar. There is potential for this to be transitioned to a more comprehensive database to meet the needs in the malaria elimination phase. The surveillance database was piloted in two townships and one state at sub-national level in 2015. Following this pilot acceptance at all levels of the NMCP, the surveillance database has been rolled out in 164 townships (out of 330 townships) in Myanmar through Global Fund support (as of December 2016). The surveillance database offers excellent flexibility through integrating existing data

and allowing the incorporation of different data types, and its design facilitates the future integration of vector control data and/or other malaria data.

Township malaria staff and/or WHO data assistants are collecting physical copies of register books at the end of every month from all health delivery units and auxiliary health units managed by NMCP within the township limits. After collection, they process the data in the database, which includes entry, cleaning and validation, and upload the data to a share cloud service. This cloud-based system using Google Drive enables national, sub-national and township level data-sharing, and offers a robust platform for simultaneously backing up and synchronising data at all levels.

A password-protected interactive dashboard using R/Shiny is used in the ongoing roll-out of the database to map all patients tested for malaria and confirmed malaria cases. This dashboard can be easily updated from data contained in the surveillance database. It offers an online/offline version with summary tables, and mapping of public health delivery units and malaria cases.

## Project achievements

- ▶ Development of a malaria surveillance database based on the 'Assessment of Malaria Surveillance in Myanmar (July 2013)' and development of a system at NMCP to collate, analyse and present data from all levels
- ▶ Development of the guidelines and user manuals of the new surveillance and reporting tools
- ▶ Conducted capacity building for 130 national malaria staff members and 63 WHO data assistants to use the new surveillance tools
- ▶ Development of the standardised registry of malaria service delivery units through village level
- ▶ Development of cloud-based reporting in Google Drive to improve sharing data more effectively between the national and sub-national levels
- ▶ Development of malaria dashboard for online/offline exploration of malaria data with summary tables, and mapping of public health delivery units and suspected cases tested/confirmed
- ▶ Integration of the app and dashboard to a combined and comprehensive online tool

### Malaria Consortium

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