

INDONESIA

March 2020

The World Mosquito Program has partnered with the Indonesian Government to bring our *Wolbachia* method to local communities in Yogyakarta City. The Indonesian Ministry of Health has identified Yogyakarta Province as one of the 10 provinces most affected by dengue each year in the last three decades.

in Yogyakarta, the aim of these releases was to establish *Wolbachia* in the local mosquito populations to reduce the transmission of dengue and other mosquito-borne diseases between people.



Funded by Yayasan Tahija (Tahija Foundation), and in partnership with Universitas Gadjah Mada, the program began in 2012, with releases from January 2014 of *Wolbachia*-carrying mosquitoes.

Mosquito releases began after two years of engagement with communities and approval by the provincial government. Our Public Acceptance Model guides engagement, communication and issues management. No mosquitoes are released without full endorsement from the local Community Reference Group.

With regular outbreaks of dengue reported



1
project sites

size of the project
18.41 km²

242,665
target population

4500
samples of public acceptance surveys

PUBLIC ACCEPTANCE
measured by survey
88% Yogyakarta
95% Sleman District
90% Bantul District

80
project staff

16,284
volunteers who released mosquitoes

2
local partners and supporters

MOSQUITO-BORNE DISEASE BURDEN IN INDONESIA

Dengue was first reported in two of Indonesia's 29 provinces in 1968. Today dengue has spread to all provinces and is endemic in many large cities and small towns.

A large-scale efficacy study to evaluate the impact of our *Wolbachia* method on dengue transmission is now underway in Yogyakarta City. This work includes a quasi-experimental study and the first randomised controlled trial of *Wolbachia* for dengue control.

“

This is a breakthrough research program that aims to find a solution to our dengue fever problem. We hope the World Mosquito Program will be able to provide evidence on the impact of *Wolbachia*, in reducing the number of dengue fever cases in Yogyakarta City.

- Dr Ani Mufidah Sari
Head of Jetis Community Health Centre



Warsito loves mosquitoes – to him, they are family

Warsito feeds mosquitoes every day with his own blood. This might seem like a strange thing to do, but for Warsito and others who work for the World Mosquito Program around the world, it's a safe and normal daily occurrence.

The World Mosquito Program breeds *Aedes aegypti* mosquitoes that contain the *Wolbachia* bacteria, which blocks the transmission of viruses between people. As we breed the mosquitoes in our labs, we need to keep them fed and healthy until they are ready to be released, and in order to do this we need to give them their food source – blood.

“

The best outcome is when we build the knowledge about the project together.

Warsito joined the World Mosquito Program in 2012, helping to set up and launch the first project in Indonesia, in the beautiful city of Yogyakarta.

Warsito has been involved in many aspects of the project: rearing mosquitoes (he's an entomologist, a scientist who studies insects), community engagement, running events, collaborating with partners and liaising with the local and national governments. He believes that the key to success is building communication and transparency.

Partners and supporters



Media contact

Dale Amtsberg
Senior Media Advisor
dale.amtsberg@worldmosquito.org

About us

The World Mosquito Program is an international, not-for-profit initiative that works to protect the global community from mosquito-borne diseases including dengue, Zika, chikungunya and yellow fever.

Our approach has widespread support from communities, governments, research institutes and philanthropic partners around the world. Through collaboration and innovation, we can make a difference to millions of lives.

Currently the World Mosquito Program works in 12 countries in Asia, the Pacific and the Americas. Our ambition is to protect 100 million people by 2023.

In addition to the Oceania Office in Melbourne, Australia, the World Mosquito Program has a regional Asian Hub in Ho Chi Minh City, Vietnam and plans for an Americas Hub in Panama City, Panama. These hubs support projects in their respective regions and contribute to core global operations.

Contact us

