

Residual Malaria Transmission Roundup

Everything you need to know, in 10
minutes

Presented by April Monroe



USAID
FROM THE AMERICAN PEOPLE



U.S. President's Malaria Initiative

VECTOR)WORKS

Scaling Up Vector Control for Malaria Prevention

Thank You!

- Dan Szumlas
- Jeffrey Hii
- Mike MacDonald
- Seth Irish
- Lena Lorenz
- Allison Tatarsky
- Fredros Okumu
- Florence Fouque
- Martha Quinones
- Manuel Hetzel
- Samuel Dadzie



Why do we care about RMT?



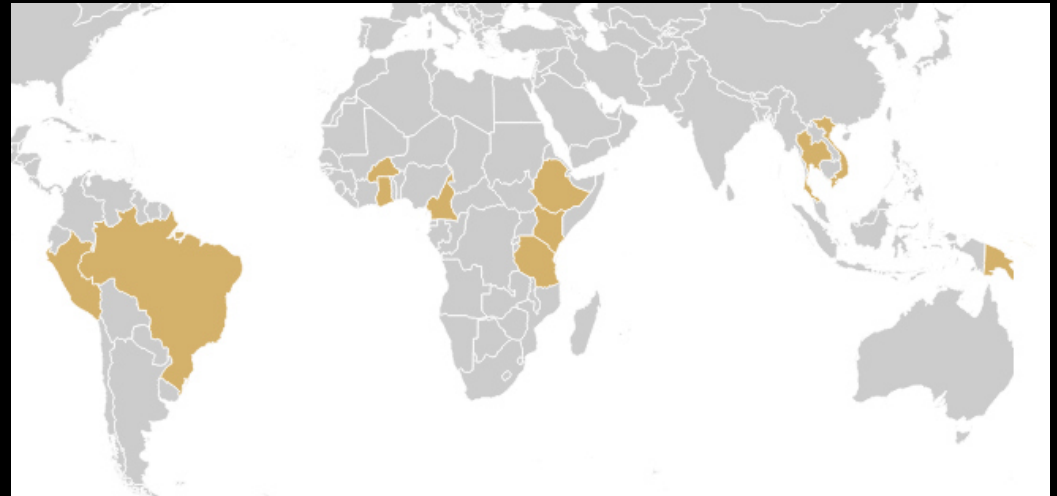
Where are RMT Studies Happening?

Africa: Ethiopia, Kenya,
Tanzania, Ghana, Cameroon,
Burkina Faso

SE Asia: Vietnam and
Thailand

The Americas: Brazil and
Peru

Western Pacific: Papua New
Guinea



Who's working on RMT?

- Papua New Guinea Institute of Medical Research
- Walter and Eliza Hall Institute (Australia)
- Michigan State University (USA)
- Swiss Tropical and Public Health Institute
- Ifakara Health Institute (Tanzania)
- IRSS/Centre Muraz (Burkina Faso)
- Mahidol University (Thailand)
- Bureau of Vector Borne Diseases, MoPH (Thailand)
- National Institute of Malaria, Parasitology, and Entomology (Vietnam)
- Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia (Peru)
- Hospital de Iquitos, Dirección Regional de Salud Loreto (Peru)
- OCEAC/CIESPAC (Cameroon)
- Tropical and Infectious Diseases Research Center, Jimma University (Ethiopia)
- Centers for Disease Control and Prevention
- U.S. Agency for International Development
- Abt Associates
- Noguchi Memorial Institute for Medical Research (Ghana)
- University of Ghana
- Ghana National Malaria Control Program
- Johns Hopkins Center for Communication Programs (USA)
- Zanzibar Malaria Elimination Program
- London School of Tropical Medicine and Hygiene
- Private Health Sector Program (Ethiopia)
- Kenya Medical Research Institute
- University of Oxford
- University of California San Francisco (USA)
- University of Notre Dame (USA)
- And more...

The Special Programme for Research and Training in Tropical Diseases (TDR)

5 multi-country, multi-institution teams awarded funding in response to RFP in 2015

Goal: quantify and characterize residual malaria transmission across settings



U.S. President's Malaria Initiative (PMI)

3 Independent Studies:

Zanzibar: RMT in pre-elimination context

Ghana: RMT in IRS and non-IRS sites

Ethiopia: RMT and mobile populations

All include entomology and human behavioral components



Methods

Different strategies used across groups:

Human Behavior: direct nighttime observation, in-depth interviews, focus group discussions, GPS tracking



Entomology: indoor and outdoor biting and resting behaviors, resistance testing



Epidemiology: surveillance of clinical cases, cross sectional surveys of malaria prevalence

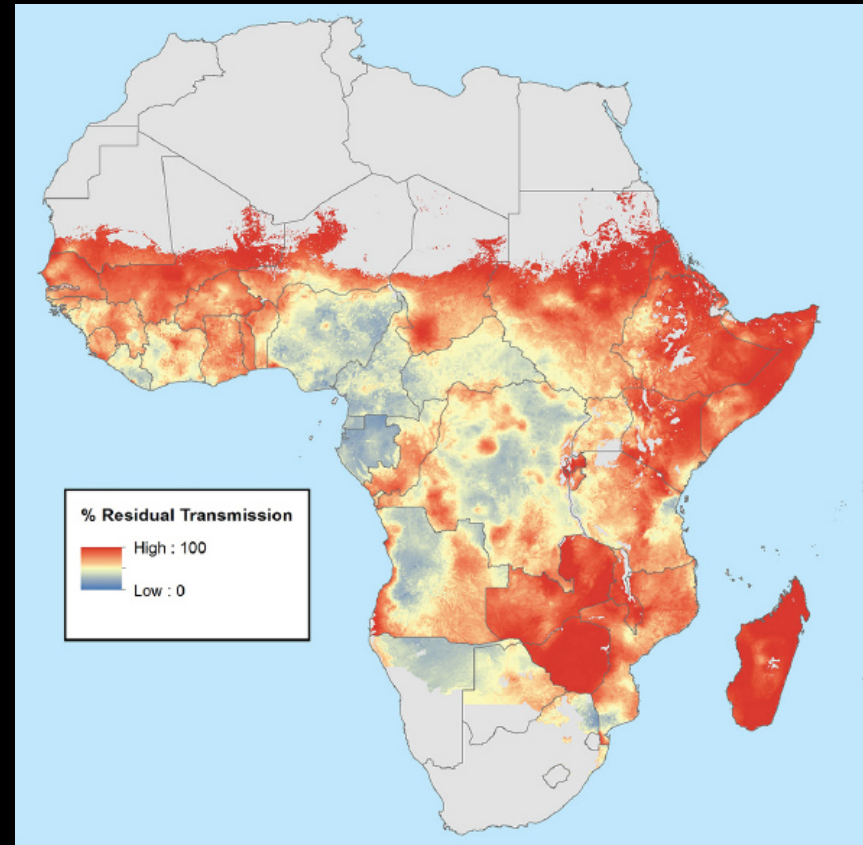
Additional RMT Activities

Geospatial modeling and mapping

- Parker Foundation
- Estimate the spatial distribution of residual malaria transmission in sub-Saharan Africa

Entomological surveillance framework

- Bill and Melinda Gates Foundation
- Methods and indicators for measuring residual malaria transmission



Gething, P. et al (2017) In preparation

RMT Meetings

Mekong Outdoor Malaria Transmission Network Workshop

- Bangkok, Thailand
- November 9th-10th, 2016



TDR Investigators' Dissemination Workshop

- September 2017
- Tanzania

Opportunities

Dedicated forum to share results and discuss methods across groups, settings, and funders

(Re)establishment of outdoor transmission networks in other regions

Consensus building around best practices

Standardized methods/tools for use across settings



Thank You!

