Residual Malaria Transmission Roundup

Everything you need to know, in 10 minutes

Presented by April Monroe
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 Diseas, 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

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!