Vivax Working Group

Business Meeting

18 October 2016 Bali, Indonesia
A Dynamic Forum

National Malaria Control Programs

Public Private Partnerships

Researchers

Industry

World Health Organisation

Funders

Networks

MMV: Medicines for Malaria Venture
PATH
GSK
DFAT
Bill & Melinda Gates Foundation
MAP
WWARN
Co-Chair
Workplan

Activities

• Identify knowledge gaps
• Building consensus
• Generate translational evidence
• Translation into policy
1. Identifying Knowledge Gaps

- Annual review of critical operational bottlenecks
  - Comprehensive literature reviews
  - Annual meetings and workshops.
2. Building Consensus

- Workshops:
  - Surveillance, Diagnostics and Case management.
    - Review new information generated
    - Discuss relevance for clinical practice
    - Formulate new priorities
    - New practices promoted.

- Standardized cross-sectional surveys
  - Host (G6PD, seroprevalence)
  - Parasite (resistance, genotyping)

- Facilitate “Vivax Elimination Strategy”
3. Generating New Evidence I

- **Enhanced host and parasite Surveillance**
  - Genotyping and serotyping platforms and methodologies
  - Conduct cross-sectional surveys - seroepidemiology, G6PD deficiency, and submicroscopic parasitaemia.
  - Geospatial Mapping – MAP, Vivaxgen

- **Evidence for better Diagnostics**
  - Field assess new diagnostics for parasite and host
  - Knowledge about implementation, practice and acceptance regarding of novel diagnostics
3. Generating New Evidence II

- *Evidence for better Case Management*
  - Investigate impediments for implementing the safe and effective radical cure
  - Improve adherence to primaquine radical cure
    - Qualitative studies and focus group interviews (patients, healthcare providers and policy makers).
  - Expand knowledge on Chloroquine resistant P. vivax
    - Pooled analyses and map CQR (WWARN).
  - Promote results from clinical trials in the region
4. Translation into Policy

- Supporting WHO
- Promote evidence of robust interventions
- Facilitate fora for discussion
  - NMCPs, researchers, funders and others
Deliverables 2017-2019

1. Knowledge Gaps
   Annual meeting and workshops

2. Building Consensus
   - Standardised host and parasite surveillance (Dec 2017)
   - Design/analyses for diagnostic test evaluations (2018)
   - Qualitative surveys for Pq adherence and G6PD testing
   - Develop serotyping platform
Surveys

Study Design

- Observational / Cross sectional surveys / Fever surveys
- Eg Random household or Clinic.

**Host:**
- G6PDd: prevalence, variants, enzyme activity, novel tests
- Seroepidemiology
- Other host genetic factors: CYP2d...

**Parasite:**
- Prevalence: Patent and subpatent malaria
- Resistance markers for Pf and Pv
- Population structure
Deliverables 2017-2019

- Generate Data:
  - Cross Sectional Surveys (>4)
    - G6PD, Parasite genotyping, serology.
  - Open access database and mapping tool of G6PDd (MAP)
  - Field studies of >3 novel g6PD tests
  - Pooled database of >60% of published P. vivax studies
Research Priorities

- **Surveillance**
  - Host: G6PD (Prevalence and variants)
  - Parasite: Drug resistance and pop gen

- **Diagnostics**
  - Host: G6PD PoC, biosensors
  - Parasite: Ultrasensitive

- **Case Management**
  - Schizontocidal: CQR
  - Radical Cure: Pq / Tfq

Surveys: quant / qual
Clinical Trials
Cohorts