Scientific session 2

Maryland A (Ballroom Level)
Thursday, 21 Nov., 8.00 am – 9.45 am

**Malaria: clinical trials and pre-clinical drug development**

Chair/Co-Chair: Francisco-Javier Gamo, GlaxoSmithKline, Spain; Phornpimon Tipthara, Mahidol Oxford Tropical Medicine Research Unit (MORU), Thailand

Speakers and topics:

1. A phase Ib study to investigate the antimalarial activity of M5717, a first-in-class inhibitor of *Plasmodium* elongation factor 2, using the induced blood stage *Plasmodium falciparum* malaria model, **James McCarthy**, QIMR Berghofer Medical Research Institute, Australia

2. A randomized, double-blind, placebo-controlled, phase Ib study to evaluate the safety, tolerability and chemoprotective antimalarial activity of P218 against controlled human malaria infection by direct venous inoculation (DVI) of *Plasmodium falciparum* sporozoite (PfSPZ-DVI) in non-immune healthy adult volunteers, **Mohamed Farouk Chughlay**, MMV, Switzerland

3. Identification of ivermectin metabolites, **Phornpimon Tipthara**, MORU, Thailand

4. Prophylactic efficacy of potent and broadly neutralizing non-cross-competing fully human monoclonal antibodies targeting PfrRH5, **Lisa Purcell**, Regeneron Pharmaceuticals, USA

5. Dissection of haplotype-specific drug response phenotypes in multiclonal malaria isolates, **Standwell Nkhoma**, American Type Culture Collection, USA

6. Nanomolar potency inhibitors of the malaria purine uptake transporter kill *Plasmodium falciparum* parasites, **Yvette Darcie Sosa**, Albert Einstein College of Medicine, USA

7. Asparagine ethylenediamines as antimalarial *Plasmodium*-selective proteasome inhibitors, **Wenhu Zhan**, Weill Cornell Medical College, USA

Symposium 32

Maryland C (Ballroom Level)
Thursday, 21 Nov., 1.45 pm – 3.30 pm

**A generation of antimalarial drug candidates in advanced clinical development: potential future treatments**

Chairs: Wiweka Kaszubska / Fiona Macintyre, MMV Switzerland
Co-Chair: Stephan Duparc, MMV Switzerland

Speakers and topics:

- Clinical development of MMV048 for the treatment of uncomplicated *Plasmodium vivax* or *falciparum* malaria, **Rezika Mohammed Yesuf**, University of Gondar, Ethiopia

- Clinical development of cipargamin (KAE609), a highly potent spiroindolone in patients with uncomplicated *Plasmodium falciparum* malaria, **Ghyslain Mombo-Ngoma**, Centre de Recherches Medicales de Lambaréné, Gabon

- Phase II development of artemefomel (OZ439) and ferroquine combination as a potential single dose cure for uncomplicated *Plasmodium falciparum* malaria, **Grace Kaguthi**, Kenya Medical Research Institute, Kenya

- Clinical development of ganaplacide (KAF156) and lumefantrine SDF combination as a potential combination for treatment of uncomplicated *Plasmodium falciparum* malaria, **Hoang Chau Nguyen**, Oxford University Clinical Research Unit, Vietnam
Symposium 42

Severe malaria: reducing deaths by improving quality of care
Chair/Co-Chair: Hans Rietveld, MMV, Switzerland; Eric Halsey, Centers for Disease Control and Prevention (CDC), USA

Speakers and topics:
- The epidemiological and health system challenges of severe malaria cases in remote, high-burden setting: lessons from DR Congo, Nigeria and Uganda, Manuel Hetzel, Swiss Tropical and Public Health Institute, Switzerland
- A rapid assessment of severe malaria in Liberia, Victor Koko, National Malaria Control Programme, Liberia
- Updates on severe malaria case-management, Jordan Danielle Burns, President’s Malaria Initiative (PMI), USA
- Preventing severe malaria deaths in Zambia, Tendayi Kureya, Development Data, Zambia

Symposium 68

Tafenoquine: new drug for chemoprophylaxis and treatment of relapsing malaria
Chair/Co-Chair: Jimee Hwang, CDC, USA; Ric Price, Menzies School of Health Research, Australia

Speakers and topics:
- Tafenoquine: a new 8-aminoquinoline for treatment and chemoprophylaxis, Mara Kreishman Deitrick, Walter Reed Army Institute of Research, USA
- Single dose treatment – the plan for tafenoquine roll out in Brazil, Marcus Lacerda, Fiocruz Amazonia/Tropical Medicine Foundation, Brazil
- Use of tafenoquine in the US – guidance from Centers for Disease Control and Prevention, Kathrine R. Tan, CDC, USA
- Possible new indications for tafenoquine particularly in malaria elimination efforts, G. Dennis Shanks, Australian Defence Force Malaria and Infectious Disease Institute, Australia
Symposium 82

Maryland B (Ballroom Level)
Friday, 22 Nov., 1.45 pm – 3.30 pm

Seasonal malaria chemoprevention (SMC): current and future perspectives

Chair/Co-Chair: André-Marie Tchouatieu, MMV, Switzerland; Paul Milligan, London School of Hygiene & Tropical Medicine (LSTMH), UK

Speakers and topics:
- Implementation of SMC 7 years since the policy recommendation summary of progress in 13 countries from the SMC working group, Keziah L. Malm, National Malaria Control Program, Ghana
- Assessment of the frequency of molecular markers of resistance of P. falciparum to SP-AQ, before and after two years of deployment of SMC in 7 countries in the sub-Sahel region, Khalid Beshir, LSTMH, UK
- Adapting SMC: number of cycles and age range. Evidence from field studies and modelling, Matthew Cairns, LSTMH, UK
- Additional interventions that could be added to seasonal malaria chemoprevention to reduce mortality and morbidity in children, Alassane Dicko, Malaria Research and Training Center, Mali

Symposium 107

Maryland A (Ballroom Level)
Saturday, 23 Nov., 8.00 am – 9.45 am

Can pyronaridine-артесунт be considered as a potential tool for use in malaria elimination settings?

Chair/Co-Chair: Stephan Duparc, MMV, Switzerland; Jane E. Achan, Medical Research Council, The Gambia

Speakers and topics:
- Efficacy of pyronaridine-артесунт and single dose of primaquine in Eastern and Western Cambodia, areas of multidrug resistance, Rithea Leang, National Center for Parasitology Entomology and Malaria Control, Cambodia
- Evaluation of the therapeutic efficacy and safety of pyronaridine-артесунт for the treatment of uncomplicated falciparum malaria in areas of artemisinin-resistant falciparum malaria in Vietnam, Ta T. Tinh, National Institute of Malariology, Parasitology and Entomology, Malaria Research and Treatment, Vietnam
- Efficacy of pyronaridine-артесунт in several sites of Myanmar, Kay T. Han, Ministry of Health and Sports, Department of Medical Research, Myanmar
- Efficacy of courses of pyronaridine-артесунт in asymptomatic Plasmodium falciparum carriers from The Gambia and Zambia, Jane E. Achan, Medical Research Council, The Gambia
Scientific session 137

Maryland C (Ballroom Level)
Saturday, 23 Nov., 1.45 pm – 3.30 pm

Malaria: new drugs and new insights on old drugs

Chair/Co-Chair: Chanaki Amaratunga, MORU, Thailand; Mahamadou Diakite, University of Bamako, Mali

Speakers and topics:

1891 APACT trial: multi-center therapeutic efficacy assessment of pyronaridine-artesunate (Pyramax®) and new drug combinations with atovaquone-proguanil for the treatment of uncomplicated P. falciparum malaria in Cambodia, Mariusz Wojnarski, Armed Forces Research Institute of Medical Sciences, Thailand

1892 Pyronaridine-artesunate (Pyramax®) for the treatment of Plasmodium vivax and dihydroartemisinin-piperaquine resistant falciparum malaria in Dak Nong province in the highlands of Vietnam, Nguyen D. Manh, Military Institute of Preventive Medicine, Vietnam

1893 Emergence of artemisinin-resistant Plasmodium falciparum with kelch13 C580Y mutations in Papua New Guinea, Olivo Miotto, MORU, Thailand

1894 A long-lasting protection of chemoprophylaxis implant against malarial infection, Hongxing Wang, Bluelight Pharmatech. Co. LTD, China

1895 Triple artemisinin combination therapies: a new paradigm for the treatment of malaria? Chanaki Amaratunga, MORU, Thailand

1896 Effect of artemisinin on the sexual conversion of Plasmodium falciparum, Harvie P. Portugaliza, ISGlobal – University of Barcelona, Spain

1897 Transmission-blocking effects of primaquine and methylene blue suggest P. falciparum gametocyte sterilization rather than effects on sex ratio, John Bradley, LSTMH, UK
**Scientific session 150**

**Malaria: updates and innovations in malaria prevention**

Chair/Co-Chair: Kent Kester, Sanofi Pasteur, USA; Issaka Zongo, Institut de Recherche en Sciences de la Santé/Institut des Sciences et Techniques (IRSS/INSTech), Burkina Faso

Speakers and topics:

1940 Malaria chemoprevention with monthly treatment with dihydroartemisinin-piperaquine for the post discharge management of severe anaemia in children aged less than 5 years in Uganda and Kenya: a 3 year, multicenter, two arm randomized placebo controlled superiority trial, Titus K. Kwambai, Kenya Medical Research Institute, Kenya

1941 Maternal and child malaria chemoprevention to enhance child development: a double-blinded randomized controlled trial, Paul Bangirana, Makerere University, Uganda

1942 Intermittent preventive treatment with sulfadoxine-pyrimethamine confers non-malarial effect on birthweight: results from a mediation analysis, Michelle Roh, University of California San Francisco, USA

1943 The duration of protection from azithromycin against malaria, pneumonia and gastroenteritis when given alongside seasonal malaria chemoprevention: secondary analysis of data from a clinical trial in Houndé, Burkina Faso and Bougouni, Mali, Mphatso Phiri, Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Malawi

1944 The effectiveness of seasonal malaria chemoprevention in the operational programming context of Guinea, Donal Bisanzio, RTI International, USA

1945 Optimizing delivery of seasonal malaria chemoprevention for children under 5 years of age: very high coverage consistently achieved through door-to-door campaigns in Burkina Faso, Issaka Zongo, IRSS/INSTech, Burkina Faso

1946 The effectiveness of repellent delivered through village health volunteers on malaria incidence in Southeast Myanmar: a stepped-wedge cluster-randomized controlled trial, Freya J. Fowkes, Burnet Institute, Australia

**Scientific session 165**

**Malaria: opportunities and challenges for providers and policy-makers in malaria control**

Chair/Co-Chair: Kent Kester, Sanofi Pasteur, USA; Moumouni Bonkoungou, Jhpiego, Burkina Faso

Speakers and topics:


1969 Avian malaria: tropical deforestation and host specificity, Ravinder N. Sehgal, San Francisco State University, USA

1970 Laboratory quality control system for large-scale malaria serosurveys: Haiti 2017, Eric Rogier, CDC, USA

1971 Risk of adverse pregnancy outcomes in women treated for malaria with dihydroartemisinin-piperaquine or quinine in the first trimester of pregnancy in Indonesia: a retrospective data analysis, Rukhsana Ahmed, Liverpool School of Tropical Medicine, UK

1972 What happens when the support ends? A comparison of private sector antimalarial market situations in Myanmar, Si Tu Thein, Population Services International, Myanmar

1973 Joint efforts to improve malaria control in three refugee camps in Kigoma, Tanzania: successes, challenges and lessons learned, Shabani Kiliwa Muller, PATH, Tanzania

1974 Mentoring, a new approach to improve malaria care in Burkina Faso, Moumouni Bonkoungou, Jhpiego, Burkina Faso
Programme

Poster sessions

Prince George’s Exhibit Hall D (Lower Atrium Level)
Friday, 22 Nov., 12.00 pm – 1.45 pm

Poster Session B

892 Correlations of ex vivo antimalarial drug sensitivities between standard and new antimalarial compounds in Tororo, Uganda, Thomas Katairo, Infectious Diseases Research Collaboration, Uganda

Prince George’s Exhibit Hall D (Lower Atrium Level)
Saturday, 23 Nov., 12.00 pm – 1.45 pm

Poster Session C

1589 Pharmacokinetics, efficacy and safety of artemether-lumefantrine dispersible tablet formulation (1:12) in the treatment of acute uncomplicated Plasmodium falciparum malaria in neonates and infants <5 kg body weight, Cornelis Winnips, Novartis Pharma AG, Switzerland

1595 Pharmacological properties of piperaquine in healthy volunteers with induced blood-stage P. falciparum malaria infection: a mechanistic modelling approach, Thanaporn Wattanakul, MORU, Thailand

LB-5487 Optimizing the impact of seasonal malaria chemoprevention: improving delivery and building capacity for evaluation, Jean Louis A. Ndiaye, Université de Thiès, Senegal

Photos: Toby Madden/MMV (p1, 5) - Maud Majeres Lugand/MMV (p3)