

Collaborating Centres

Annual report 9/2011-9/2012

Institution Name: Mahidol University

Name of the relevant department, unit, section or area of the institution

Department of Clinical tropical Medicine, Faculty of Tropical medicine

City Bangkok

Country Thailand

Reference Number THA-42

Title WHO Collaborating Centre for Clinical management of Malaria

Report Year 9/2011-9/2012

1. Implementation of work plan

Activity 1 Technical collaboration

Explanation

September 13-15, 2011

Participating International Task Force meeting on artemisinin resistance containment in Southeast Asia; and Development of a Southeast Asia Artemisinin Resistance Containment Response Framework (SEAARCR), Dusit Thani Hotel, Bangkok, Thailand.

December 1-2, 2011

Collaborating with faculty of Tropical Medicine, Mahidol University, SEAMEO-TROPMED Network to organize Joint International Tropical Medicine Meeting, (JITMM), Bangkok, Thailand.

October 30, 2012

Evaluating the 3rd year activities and the 4th year plan of Malaria Molecular Research Unit, Department of Parasitology, Faculty of Medicine, Chulalongkorn University Hospital, Thailand.

Activity 2 Informal exchange via research and scientific articles in journals

Explanation

Proxies and prevention of malaria in pregnancy.

McGready R, Nosten F.

Lancet Infect Dis. 2012 Sep 17. pii: S1473-3099(12)70240-2. doi: 10.1016/S1473-3099(12)70240-2. [Epub ahead of print] No abstract available.

Artemisinin resistance containment project in Thailand. II: responses to mefloquine-artesunate combination therapy among falciparum malaria patients in provinces bordering Cambodia.

Satimai W, Sudathip P, Vijaykadga S, Khamsiriwatchara A, Sawang S, Potithavoranan T, Sangvichean A, Delacollette C, Singhasivanon P, Kaewkungwal J, Lawpoolsri S.

Malar J. 2012 Aug 28;11:300.

Diagnosing Severe Falciparum Malaria in Parasitaemic African Children: A Prospective Evaluation of Plasma PfHRP2 Measurement.

Hendriksen IC, Mwanga-Amumpaire J, von Seidlein L, Mtove G, White LJ, Olaosebikan R, Lee SJ, Tshefu AK, Woodrow C, Amos B, Karema C, Saiwaew S,

Maitland K, Gomes E, Pan-Ngum W, Gesase S, Silamut K, Reyburn H, Joseph S, Chotivanich K, Fanello CI, Day NP, White NJ, Dondorp AM.

PLoS Med. 2012 Aug;9(8):e1001297. Epub 2012 Aug 21.

[Respiratory manifestations of malaria.](#)

Taylor WR, Hanson J, Turner GD, White NJ, Dondorp AM.

Chest. 2012 Aug 1;142(2):492-505.

[Artemisinin-Resistant Malaria: Research Challenges, Opportunities, and Public Health Implications.](#)

Fairhurst RM, Nayyar GM, Breman JG, Hallett R, Vennerstrom JL, Duong S, Ringwald P, Wellems TE, Plowe CV, Dondorp AM.

Am J Trop Med Hyg. 2012 Aug;87(2):231-241.

[No Association of Phenotypic ABO Blood Group and Malaria during Pregnancy.](#)

Boel ME, Rijken MJ, Pimanpanarak M, Keereecharoen NL, Proux S, Nosten F, McGready R.

Am J Trop Med Hyg. 2012 Sep;87(3):447-9. Epub 2012 Jul 23.

[Genotyping of Plasmodium vivax reveals both short and long latency relapse patterns in Kolkata.](#)

Kim JR, Nandy A, Maji AK, Addy M, Dondorp AM, Day NP, Pukrittayakamee S, White NJ, Imwong M.

PLoS One. 2012;7(7):e39645. Epub 2012 Jul 13.

[Diagnosis, Clinical Presentation, and In-Hospital Mortality of Severe Malaria in HIV-Coinfected Children and Adults in Mozambique.](#)

Hendriksen IC, Ferro J, Montoya P, Chhaganlal KD, Seni A, Gomes E, Silamut K, Lee SJ, Lucas M, Chotivanich K, Fanello CI, Day NP, White NJ, von Seidlein L, Dondorp AM.

Clin Infect Dis. 2012 Oct;55(8):1144-53. Epub 2012 Jul 2.

[Activation of nuclear factor kappa B in peripheral blood mononuclear cells from malaria patients.](#)

Punsawad C, Krudsood S, Maneerat Y, Chaisri U, Tangpukdee N, Pongponratn E, Nantavisai K, Udomsangpetch R, Viriyavejakul P.

Malar J. 2012 Jun 10;11:191.

[Optimising strategies for Plasmodium falciparum malaria elimination in Cambodia: primaquine, mass drug administration and artemisinin resistance.](#)

Maude RJ, Socheat D, Nguon C, Saroth P, Dara P, Li G, Song J, Yeung S, Dondorp AM, Day NP, White NJ, White LJ.

PLoS One. 2012;7(5):e37166. Epub 2012 May 25.

[Cloning of a trypsin-like serine protease and expression patterns during Plasmodium falciparum invasion in the mosquito, Anopheles dirus \(Peyton and Harrison\).](#)

Sriwichai P, Rongsiryam Y, Jariyapan N, Sattabongkot J, Apiwathnasorn C, Nacapunchai D, Paskewitz S.

Arch Insect Biochem Physiol. 2012 Aug;80(3):151-65. doi: 10.1002/arch.21034. Epub 2012 May 24.

[Plasmodium vivax adherence to placental glycosaminoglycans.](#)

Chotivanich K, Udomsangpetch R, Suwanarusk R, Pukrittayakamee S, Wilairatana P, Beeson JG, Day NP, White NJ.

PLoS One. 2012;7(4):e34509. Epub 2012 Apr 17.

[Emergence of artemisinin-resistant malaria on the western border of Thailand: a longitudinal study.](#)

Phyo AP, Nkhoma S, Stepniewska K, Ashley EA, Nair S, McGready R, ler Moo C, Al-Saai S, Dondorp AM, Lwin KM, Singhasivanon P, Day NP, White NJ, Anderson TJ, Nosten F.

Lancet. 2012 May 26;379(9830):1960-6. Epub 2012 Apr 5.

[The CTLA-4 and PD-1/PD-L1 inhibitory pathways independently regulate host resistance to Plasmodium-induced acute immune pathology.](#)

Hafalla JC, Claser C, Couper KN, Grau GE, Renia L, de Souza JB, Riley EM.

PLoS Pathog. 2012 Feb;8(2):e1002504. Epub 2012 Feb 2.

[Humoral immune responses to Plasmodium vivax subtelomeric transmembrane proteins in Thailand.](#)

Sungkapong T, Culleton R, Yahata K, Tachibana M, Ruengveerayuth R, Udomsangpetch R, Torii M, Tsuboi T, Sattabongkot J, Kaneko O, Chotivanich K.

Southeast Asian J Trop Med Public Health. 2011 Nov;42(6):1313-21.

[Factors associated with acute renal failure in falciparum malaria infected patients.](#)

Tangpukdee N, Elshiekh SB, Phumratanaprapin W, Krudsood S, Wilairatana P.

Southeast Asian J Trop Med Public Health. 2011 Nov;42(6):1305-12.

[Population pharmacokinetics and pharmacodynamics of piperazine in children with uncomplicated falciparum malaria.](#)

Tarning J, Zongo I, Somé FA, Rouamba N, Parikh S, Rosenthal PJ, Hanpithakpong W, Jongrak N, Day NP, White NJ, Nosten F, Ouedraogo JB, Lindegardh N.

Clin Pharmacol Ther. 2012 Mar;91(3):497-505. doi: 10.1038/clpt.2011.254. Epub 2012 Jan 18.

[Population pharmacokinetics of dihydroartemisinin and piperazine in pregnant and nonpregnant women with uncomplicated malaria.](#)

Tarning J, Rijken MJ, McGready R, Phyo AP, Hanpithakpong W, Day NP, White NJ, Nosten F, Lindegardh N.

Antimicrob Agents Chemother. 2012 Apr;56(4):1997-2007. Epub 2012 Jan 17.

[Falciparum malaria parasitemia index for predicting severe malaria.](#)

Tangpukdee N, Krudsood S, Kano S, Wilairatana P.

Int J Lab Hematol. 2012 Jun;34(3):320-7. doi: 10.1111/j.1751-553X.2011.01398.x. Epub 2012 Jan 4.

[The first Plasmodium vivax relapses of life are usually genetically homologous.](#)

Imwong M, Boel ME, Pagornrat W, Pimanpanarak M, McGready R, Day NP, Nosten F, White NJ.

J Infect Dis. 2012 Feb 15;205(4):680-3. Epub 2011 Dec 22.

[Timing of enteral feeding in cerebral malaria in resource-poor settings: a randomized trial.](#)

Maude RJ, Hoque G, Hasan MU, Sayeed A, Akter S, Samad R, Alam B, Yunus EB, Rahman R, Rahman W, Chowdhury R, Seal T, Charunwatthana P, Chang CC, White NJ, Faiz MA, Day NP, Dondorp AM, Hossain A.

PLoS One. 2011;6(11):e27273. Epub 2011 Nov 16.

[Artesunate/dihydroartemisinin pharmacokinetics in acute falciparum malaria in pregnancy: absorption, bioavailability, disposition and disease effects.](#)

McGready R, Phyo AP, Rijken MJ, Tarning J, Lindegardh N, Hanpithakpon W, Than HH, Hlaing N, Zin NT, Singhasivanon P, White NJ, Nosten F.

Br J Clin Pharmacol. 2012 Mar;73(3):467-77. doi: 10.1111/j.1365-2125.2011.04103.x.

[Ultrastructural and real-time microscopic changes in P. falciparum-infected red blood cells following treatment with antimalarial drugs.](#)

Sachanonta N, Chotivanich K, Chaisri U, Turner GD, Ferguson DJ, Day NP, Pongponratn E.

Ultrastruct Pathol. 2011 Oct;35(5):214-25.

[A review of mixed malaria species infections in anopheline mosquitoes.](#)

Imwong M, Nakeesathit S, Day NP, White NJ.

Malar J. 2011 Aug 31;10:253. Review.

Activity 3 Capacity building via education and training

Explanation

February 1, 2012

Speakers of sessions “Overview of severe malaria” and “Efficacy of new antimalarials” in International Training Course on Malaria Prevention and Control for Africa Personnel organized by of Japan International Cooperation Agency (JICA), Thailand International Development Cooperation Agency (TICA), Ministry of Public Health/Thailand.

March 12, 2012

Speaker of topic ‘Complicated and severe malaria’ to Japanese doctors organized by Tokyo Metropolitan Government (TMG), Japan and Faculty of Tropical Medicine, Mahidol University, Thailand.

March 30, 2012

Speaker of topic “Malaria treatment and prophylaxis’ in Pharmacology workshop entitled: Trends in Infectious Diseases Pharmacotherapy organized by Ministry of Public Health/ Thailand and 4 Faculties of Pharmacology (Chiengmai, Khon Kaen, Silpakorn, and Prince of Songkla Universities) in Thailand.

May 21-25, 2012

WHO Collaborating Centre for Clinical Management of Malaria organized the Training Course on Management of Malaria for 5 Bhutanese from Ministry of Public Health, Bhutan at the Faculty of Tropical Medicine, Mahidol University.

May 28 - June 1, 2012

WHO Collaborating Centre for Clinical Management of Malaria organized the Training Course on Severe Malaria Management for 6 Iranian doctors from Ministry of Health, Iran at the Faculty of Tropical Medicine, Mahidol University.

July 23, 2012

Speakers of session: Malaria case presentations in the international training course: Asian Clinical Tropical Medicine 2012 organized by The Faculty of Tropical Medicine, Mahidol University in collaboration with The Ottawa Hospital, Georgia Health Sciences University, and University of Minnesota at the Faculty of Tropical Medicine, Mahidol University, Thailand. There were 28 participants from 6 countries attended the training, consisting of USA, Canada, Australia, Hong Kong, Indonesia, and Cambodia. The training course consists of lectures, demonstration, workshops and small-group clinical rounds.

September 10-14, 2012

The Faculty of Tropical Medicine, Mahidol University on behalf of WHO Collaborating Centre for Clinical Management of Malaria in collaboration with the World Health Organization Regional Office for South East Asia (WHO SEARO) and WHO Mekong Malaria (MMP) organized the 10th International Training Course on Management of Malaria for 41 doctors from Cambodia, Indonesia, Hong Kong, Somalia, Ghana, Cameroon, Myanmar, Sudan, Japan, Vietnam, Sri Lanka, Bangladesh, Timor Leste, Philippines, Congo, USA and Thailand at the Faculty of Tropical Medicine, Mahidol University.

Activity 4 Organizing international and national conferences/meetings

Explanation

April 25, 2012

Coordinator and speaker of Malaria Case Discussion in the session: Interesting topics in tropical medicine at the 28th Annual Meeting of the Royal College of Physicians of Thailand, Pattaya, Thailand.

December 1-2, 2011

Collaborating with faculty of Tropical Medicine, Mahidol University, SEAMEO-TROPMED Network to organize Joint International Tropical Medicine Meeting, (JITMM), Bangkok, Thailand.

2. Other information related to the collaboration

February 20, 2012

Professor Polrat Wilairatana, Director together with Professor Srivicha Krudsood, Deputy Director of WHO Collaborating Centre for Clinical Management of Malaria welcomed and discussed technical collaboration with Dr. Leonard Ortega, Adviser/ Malaria/ WHO SEARO at WHO Collaborating Centre for Clinical Management of Malaria, Faculty of Tropical Medicine, Mahidol University.

April 23, 2012

Professor Polrat Wilairatana, Director of WHO Collaborating Centre for Clinical Management of Malaria welcomed and discussed technical collaboration with Dr. Anand B Joshi, WHO Indonesia at WHO Collaborating Centre for Clinical Management of Malaria, Faculty of Tropical Medicine, Mahidol University.

September 10-14, 2012

WHO provided financial support to 6 doctors from Somalia (sponsored by WHO/EMRO), 3 doctors from Indonesia (sponsored by WHO/Indonesia), and 4 doctors from Timor - Leste (sponsored by WHO/ Timor Leste) to attend the 10th International Training Course on Management of Malaria organized by The Faculty of Tropical Medicine, Mahidol University on behalf of WHO Collaborating Centre for Clinical Management of Malaria in collaboration with the World Health Organization Regional Office for South East Asia (WHO SEARO) and WHO Mekong Malaria (MMP) at the Faculty of Tropical Medicine, Mahidol University.

There was no difficulty encountered in the collaboration and suggestions for increased and improved collaboration with WHO.

There was no visit of the centre staff to WHO (HQ and/or regional office).

3. Collaboration with other WHO Collaborating Centres:

None