Thailand-Cambodia cross border malaria elimination workshop for central and provincial levels,

29-30 August 2018, Pattaya, Thailand.

Note for the Record

Objectives

- Allowing a detailed understanding of the dynamics of malaria transmission within and across the targeted border areas
- Consensus from national malaria control programs of Thailand and Cambodia around:
 - Access, notification, case investigation and ACDs, case follow up;
 - Foci mapping, response and management; and
 - Response and contingency for outbreaks

This was organized as a government to government (G-to-G) meeting between central and provincial staff from Cambodia and Thailand. The Bureau of Vector Borne Disease (BVBD), Department of Disease Control (DDC), Ministry of Public Health (MoPH) Thailand was host. WHO Thailand and MME provided technical support.

Opening remarks by Dr. Jeeraphat Sirichaisinthop (Senior Expert, Department of Diseases Control, Ministry of Public Health, Thailand) on behalf of Dr Panumard Yarriwaidsakul (Deputy Director-General, Department of Diseases Control, Thailand) and Dr. Theme Viravann (Deputy Director, International Cooperation, MoH, Cambodia). Dr. Hiromasa Okayasu (Coordinator, Mekong Malaria Elimination Programme, WHO) presented an overview of the epidemiology in the Greater Mekong Subregion and Thailand-Cambodia border. He pointed out that the cases are limited in only a few places in GMS. Yet, the circulation continues in Northern Cambodia and adjacent province in Thailand (Si Sa Ket).

Day 1

There was opening remarks by Dr. Jeeraphat Sirichaisinthop (Senior Experts, Department of Diseases Control, MoPH, Thailand) on behalf of Dr Panumard Yarriwaidsakul (Deputy DG, DCC, Thailand) and Dr. Theme Viravann (Deputy Director, International Cooperation, MoH, Cambodia).

Dr. Hiromasa Okayasu (Coordinator, Mekong Malaria Elimination Programme, WHO) presented an overview of the epidemiology in the Greater Mekong Subregion and Thailand-Cambodia border. He pointed out that the cases are limited in only a few places in GMS. Yet, the circulation continues in Northern Cambodia and adjacent province in Thailand (Si Sa Ket).

Then, representatives from provinces in Thailand/Cambodia presented the status of malaria elimination in the Thailand-Cambodia border provinces.

Representatives from provinces in Thailand suggested that there is a transmission of malaria close to its Cambodia border. Thailand is in elimination phase and conducts a case-based surveillance and responds to each case with "1-3-7 approach". They indicated that most patients are military/police along the border

areas with some importation from Cambodia side (7/12 in Trat, 16/16 in Sakeo, 0/2 in Surin and 1/121 cases out of all imported cases are from Cambodia in 2018). They also indicated that some areas are hard to access due to the forest and security concern.

A representative from provinces in Cambodia presented the update of its malaria elimination. Four provinces are in the elimination phase (Battenbang, Palin, Banteay Meanchey, Pursat) and the other four are in the burden reduction phase. Cases are located in bordering districts/health facilities especially in Pursat, Preah Vihear and Oddar Meanchey. Some provinces are already collaborating with the adjacent provinces in Thailand. It proposed that 1) regular information sharing and 2) joint programme such as screening at the border areas, bi-lingual communications (e.g. billboard), addressing migratory population.

In Thailand ,Pv patients receive 14 day Primaquine treatment mostly at health facility without G6PD test. The treatment seems effective; positive rate is very low after 14 days (and at 60 days). Patients are followed up for the potential side effect due to G6PD deficiency. Provincial representative indicated that the side effect is very rare (2-3 patients/year). Patients with dark urine will be admitted to the hospital.

Cambodia has implemented the low-dose Primaquine for Pf/mix infection cases. It seems effective (no gametocytes after a few days) and safe (no confirmed side effect cases).

There are not many Cambodia people diagnosed/treated in Thailand. Still, there could be a cross-border transmission (Thailand people are infected by mosquitos from Cambodia). Cambodia has recently initiated case-based surveillance in 4 provinces.

In the afternoon, the team was divided into four groups:

- Trat (Thailand) Koh Kong, Battanbang, Pailin, Pursat (Cambodia)
- Sakeo (Thailand), Banteay Meanchey, Battambang, Pailin (Cambodia)
- Surin (Thailand), Oddar Meanchey (Cambodia)
- Sisaket (Thailand), Preah Vihear, Oddar Menchey (Cambodia)

At the end of the group work, each group presented the distribution of health centers and cases in the border area, epidemiology (foci, number of cases, especially imported cases) mobility pattern and proposed cross border activities.

The groups proposed joint activities such as: 1) data sharing/notification on cross-border cases (and outbreak), 2) nomination of focal points on both sides, 3) joint meeting at district level to exchange information and discuss joint activities, and 4) training of VMWs.

TICA supports cross border activities such as cross-border meetings (different places), VMW training (in Sakeo), M&E, IEC/BCC and capacity building (in Surin, proposed).

Day 2

The group reviewed the summary of group work. (See attached). Then, the group discussed the conclusion and recommendations.

Conclusions:

- Magnitude of cross border malaria transmission appears not to be a significant problem (given current data from routine surveillance)
- Resources (existing GF or other) should be focused on screening at worksite (plantations, forest reserve etc) esp in Thai side where migrants work. Current screening at official points of entry (POE) does not yield cases.
- Three out of the seven border provinces in Cambodia that border Thailand are still in burden reduction phase (vs all four border provinces in Thailand in elimination phase) and as such are unable currently to conduct case investigations and determine travel history viz indigenous vs imported cases. Magnitude of imported cases either from/to Cambodia/Thailand in elimination provinces in Cambodia does not seem to be a significant problem (given low number of imported cases reported currently).

Recommendations:

- WHO MME RDSP consolidates key malaria indicators monthly facility (Cambodia) and provincial (Thailand). Proposed Thailand shares district (or lower level) with MME RDSP. This will be shared on a dedicated cross border dashboard on MME RDSP. This is intended as a tool for provincial and district level staff for response. MME will provide training for this purpose.
- Value of a cross border subnational level notification by (LINE/email) should be focused in elimination areas (i.e. imported cases in the case-based surveillance)
- Establish focal points at provincial and district level (for Cambodia suggest current OD CDC focal point) Responsibility: CNM and BVBD
- Follow up planning workshop with district level for cross border elimination districts to:
- (1) Agree on data variables to be shared MME RDSP and through LINE/email [this includes specific questions in case investigation forms to obtain detail travel history]
- (2) detail cross border activities to be implemented

[Dr Siv (CNM) will take initiative to explore funding support from GF. This will be for a cross border district level workshop]

- Provincial-central level cross border meeting could follow up on implementation in 6 months depending on how fast district level implementation commences
- Regular provincial level quarterly meetings should continue (if not planned, funds should be allocated CDC, GF, TICA etc) hosted alternatively on either side

Outcome of the Group Work

Group 1

Trat Pursat ELIMINATION

Koh Kong

Battambang* ELIMINATION
Pailin ^ ELIMINATION

Group 2

Sakeo Banteay Meanchey ELIMINATION

Battambang*

Group 3

Surin Oddar Meanchey ~

Group 4

Sisaket Preah Vihear

Oddar Meanchey ~

Group work

- Geographical coverage by district –improving access?
- 2. Mobility pattern
- Cross border:
 - Notification, case investigation
 - ACDs, case follow up, special measures? (chemoprophylaxis?)
 - · foci mapping, foci response and management
 - response and contingency for outbreaks
 - · data sharing and reporting
 - Community mobilization/IEC/BCC
 - M&E
- Timelines & funding Domestic/GF/TICA/USAID/PMI?
- · Administrative procedures -focal persons/communication etc

Group 1

Trat Pursat (E)

Koh Kong

Battambang (E)

Pailin (E)

Thai:

4 border districts

- 12 A1 and 19 A2 foci, approx. 70% of transmission occurs outside village (farm, forest)
- 52 cases, 42 investigated, 12 cases imported 7 Cambodian
- XB activity supported by TICA for XB quarkterly health meeting btwn Koh Kong and Trat

Cam:

- 7 border districts, 4 ODs, 12 HC
- · Mobility to Thailand- Farm, construction, fishery, Rubber Plantation.
 - · Chanthabory-Pailin, Battambang: Longan Farm
 - · Trat- Koh Kong & Pursat: Rubber plantation, fishery, Resort

Proposed XB activity:

- Sharing simple form and data (Residence, Place of transmission, travel history, malaria species, age, name, sex) using Line, Telegram etc with the common language such as English
- Need to identify focal person at each sites- HCs staff, District staff & Provincial staff.
- Currently no fund for this activities.

Group 2

Sakeo Banteay Meanchey (E)

Thai:

- Battambang (E)
- 4 border districts;, 4 border crossings
- Migration from Camfor tapioca and sugar cane plantations Dec Apr
- 6 villagesare A1
- · 16 cases from Cam mainly from Pursat and Kampung Speu
- TICA funds are planned for training VMW in Camside (cascade training of OD and HC staffonly in BM. Funds available to Camfor VMW training on elimination). Funds also for meetings
- Funds: RAI2E

Cam:

- 6 border districts (with Sakaeo)
- both elimination provinces, no indigenous case reported
- Pailin foci not mapped yet, case imported from other OD/provinces (L3/L4). L4: Pursat, Kampung Speu, Stung Treng, Oddar Meanchy
- Thai cases imported Ban Namrong (Buriram province)
- · VMWs a Iready using smartphone/tablet for Case Investigations

Proposed XB activity:

- Suggest using LINE/FB for weekly case notification and outbreak notification @ facility level, district and province
- 2. Foci mapping to commence in Cam side
- 3. Joint XB foci investigation

Group 3

Surin Oddar Meanchey

Thai:

- 4 border districts, rubber plantation along border, 1 official border crossing point
- 17 cases, 16 indigenous, 13 A1A2 located in border districts about 20 villages, no foreign imported cases
- Funds: RAI2E. Have submitted proposal with TICA for data sharing, capacity building for Hc in OM, training of VMW, trilingual communication material, prevention commodities (maybe to be focused along Srisaket border)

Cam:

- 4 border districts, VMW in 146 villages; 1,142 cases (includes along border with Srisaket)
- · 2 districts (30% of cases) border with Surin
- 3 main points of entry along border
- More activities needed for MMPs messaging, LLINs
- More investigation needed to know transmission patterns of these cases unknown.
 Activities and source of additional funding needs to be decided later.

Proposed XB activity:

- 1. Data sharing & joint planning, PHO/level focal point both sides
- Cross border real time case notification by email (Thai). Outbreak notification (Cam)
- 3. Case follow up linked to cross border notification

Group 4

Sisaket Preah Vihear

Oddar Meanchey

Thai:

- · 3 border districts; Cam: 6 border districts
- Key XB activity: Mobile clinics at border trade zones/POE screen and treat, MP and BMP to continue
- · Funds: RAI2E, AFRIMS, Government

Cam:

- Mobility patterns not known, many unofficial entry point,
- Key XB activity: VMWs in villages along border.
- PV high number of cases but not certain source of infection/XB transmission. Funds: GF, ADB, MSF.
- OM 2 districts, 1 unofficial border crossing, migrants from other provinces. Funds: GF, CRS

Proposed XB activity:

- 1. Weekly case reports through LINE group, outbreak notification
- Assess extent of cases seen in private sector in both sides to inform appropriate strategy
- See notes

Agenda

Day 1		
Time	Agenda	Lead person
08:00 - 08:30	Registration	
08:30 - 08:45	Welcome remarks from MoPH Thailand	Dr Jeeraphat Sirichaisinthop
	Remarks from MoH Cambodia	Dr Theme Viravann
08:45 - 09:00	Self-introductions	
	Nomination of Chairperson/ co-chair/secretariat	
09:00 - 09:15	Introduction to workshop, objectives and expected outcomes	Dr Hiromasa Okayasu WHO (MME)
09:15 - 10:15	Background and update on malaria situation in Thailand - Sa Kaeo, Trat, Si Sa Ket, Surin	Provincial Health Offices, Thailand
10:15 - 10:30	Break and group photo	
10:30 - 11:00	Background and update on malaria situation in Cambodia: - South-West of Cambodia: (Battambang, Pailin, Pursat and Koh Kong); (15min) - North-West of Cambodia: (Oddar Meanchey, Banteay Meanchey and Preah Vihear)	Provincial Health Department, Cambodia
11:00-12:00	Q&A, Discussion	
12:00 - 13:00	Lunch	
13:00 - 13:30	Summary of key issues from morning presentation	Secretariat
13:30 - 15:30	Brainstorming on scope of cross border collaboration - mapping exercise – paired districts and identified issues and solutions	
15:30 - 17:00	Presentation by paired district (world café method)	
17:00-17:20	Summary of Day 1 and Agenda for Day 2	Secretariat

Day 2		
Time	Agenda	Lead person
08:30 - 12:00	Consensus from national malaria control programs of Thailand and Cambodia around:	Dr Deyer Gopinath
	 Cross border objectives by border pairs Geographical coverage by district Agreed activities – improving access, notification, case investigation and ACDs, case follow up, foci mapping, response and management, response and contingency for outbreaks Timelines & funding Data sharing and reporting M&E Administrative procedures -communication 	
12:00 - 13:00	Lunch	
13:00 - 14:00	Q&A –Discussion-Consensus	
14:00 - 15:00	Next steps and Closing	Dr Jeeraphat Sirichaisinthop

List of Participants

1. Thailand

Dr Jeeraphat Sirichaisinthop Senior Advisor

Department of Disease Control

Dr Preecha Prempree Director, Bureau of Vector-borne Diseases

Dr Prayuth Sudathip Chief, Malaria Elimination, Bureau of Vector-borne

Diseases

Bureau of Vector-borne Diseases Dr Rungrawee Tipmontree Dr Jerdsuda Kanjanasuwan Bureau of Vector-borne Diseases Ms Suravadee Kitchakarn Bureau of Vector-borne Diseases Ms Praparat Amonsurintawong Bureau of Vector-borne Diseases Bureau of Vector-borne Diseases Ms Thannikar Thong-ard Bureau of Vector-borne Diseases Ms Naraporn Khuanyoung Surin Office of Public Health Ms Panita Suvanich Surin Office of Public Health Mr Pijet Niyamratanekulsri Si Sa Ket Office of Public Health Ms Kanyarat Lausatianragit

Dr Apirat Katangutanon Director, Sa Kaew Office of Public Health

Mr Prawit Kamnueng Sa Kaew Office of Public Health

Ms Ravisara Jirarojwatana Office of Disease Prevention and Control 6 Chon Buri
Ms Pranee Thawonsiri Office of Disease Prevention and Control 6 Chon Buri

Ms Wanna Phon-Or Vector Borne Diseases Centerr 6.2 Sa Kaoew Ms Wichan Patirat Vector Borne Diseases Centerr 6.4 Trat Wr Suriyan Butimal Vector Borne Diseases Centerr 9.2 Surin Vector Borne Diseases Centerr 9.2 Surin

Mr Chatee Raseebut Vector Borne Diseases Centerr 10.1 Ubon Ratchathani Mr Surajit Termvong Vector Borne Diseases Centerr 10.1 Ubon Ratchathani

Mr Prasert Nonkaew Vector Borne Diseases Centerr 10.1.3 Si Sa Ket

2. Cambodia

Dr Theme Viravann Deputy Director, International Cooperation Department

Dr Siv Sovannaroth Chief of Technical Bureau, CNM

Dr Keo Sophaktra Director, Banteay MeanChey Provincial Health Department

Dr Khoy Dy Director, Pursat Provincial Health Department

Dr Voeurng Bunreth
Dr Koung Lo
Director, Preah Vihear Provincial Health Department
Dr Khlok Huot
Dr Yok Sovann
Deputy Director, Pailin Provincial Health Department
Dr Roeurn Sothy
Director, Pailin Provincial Health Department
Dr Roeurn Sothy

Department

Dr Mao Sivanna Malaria Supervisor, Pursat Provincial Health Department

Dr Chan Davoeung Malaria Supervisor, Battambang Provincial Health

Department

Mr Kouch Channa Malaria Supervisor, Preah Vihear Provincial Health

Department

Dr Khourn Pong Malaria Supervisor, Oddar Meanchey Provincial Health

Department

Ms Oum Sarith Malaria Supervisor, Pailin Provincial Health Department

Mr Sam Vantha Malaria Supervisor, Koh Kong Provincial Health

Department

WHO

Dr Luciano Tuseo Head of Programme, Malaria, Other Vector borne and

Parasitic Diseases, WHO Cambodia

Dr Hiromasa Okayazu Coordinator for Mekong Malaria Elimination, WHO

Cambodia

Mr Rady Try Malaria Surveillance Officer, WHO Cambodia

Dr Deyer Gopinath Medical Officer, Malaria and Border Health, WHO Thailand

Ms Kallayanee Laempoo Programme Associate, WHO Thailand