

## Quantitative questionnaire to assess malaria service access among Migrants

### Part I. Socio-economic characteristics

|                                                                 |                                                                                                                                                   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Age                                                          | _____ years                                                                                                                                       |
| 2. Gender                                                       | Male / Female                                                                                                                                     |
| 3. How many times have you been in Thailand?                    | _____ times                                                                                                                                       |
| 4. Duration of current stay in Thailand                         | _____ month(s) _____ day(s)                                                                                                                       |
| 5. Occupation                                                   | 1. Daily wage labour<br>2. Agriculture<br>3. Travelers<br>4. Dependent<br>5. Unemployed<br>6. Others _____                                        |
| 6. Normal working hours                                         | From _____ to _____                                                                                                                               |
| 7. Education completed                                          | 1. Primary school not completed<br>2. Primary school (grade 5)<br>3. Middle school (grade 9)<br>4. High school (grade 12)<br>5. College and above |
| 8. How many family members come with you to Thailand?           | _____ Members                                                                                                                                     |
| 9. Monthly family income (estimate)                             | _____ THB                                                                                                                                         |
| 10. Ethnicity                                                   | 1. Karen<br>2. Mon<br>3. Burmese<br>4. Others _____                                                                                               |
| 11. Language ability<br>(select all the apply))                 | 1. Karen<br>2. Burmese<br>3. Thai<br>4. Others _____                                                                                              |
| 12. How many times have you experienced malaria in your life?   | _____ times                                                                                                                                       |
| 13. Current residential subdistrict                             | 1. Umphang<br>2. Phop Phra<br>3. Thasongyang                                                                                                      |
| 14. How long does it take to reach the nearest health facility? | 1. Distance _____ mile(s)<br>2. Time _____ minutes                                                                                                |

## Part II. Knowledge about malaria

| Knowledge question (select all the apply)   |                                                        | Yes | No |
|---------------------------------------------|--------------------------------------------------------|-----|----|
| <b>1. How can malaria be transmitted?</b>   |                                                        |     |    |
| <input type="checkbox"/>                    | - Through the bite of infected mosquitoes              |     |    |
| <input type="checkbox"/>                    | - Eating durian/ banana                                |     |    |
| <input type="checkbox"/>                    | - Drinking stagnant water                              |     |    |
| <input type="checkbox"/>                    | - Staying in the forest                                |     |    |
| <input type="checkbox"/>                    | - Others: _____                                        |     |    |
| <b>2. What are the symptoms of malaria?</b> |                                                        |     |    |
| <input type="checkbox"/>                    | - Fever                                                |     |    |
| <input type="checkbox"/>                    | - Chills and rigor                                     |     |    |
| <input type="checkbox"/>                    | - Sneezing and coughing                                |     |    |
| <input type="checkbox"/>                    | - Headache                                             |     |    |
| <input type="checkbox"/>                    | - Diarrhoea                                            |     |    |
| <input type="checkbox"/>                    | - Others: _____                                        |     |    |
| <b>3. How can we diagnose malaria?</b>      |                                                        |     |    |
| <input type="checkbox"/>                    | - By a blood test                                      |     |    |
| <input type="checkbox"/>                    | - By visiting a malaria clinic                         |     |    |
| <input type="checkbox"/>                    | - By assessing symptoms, ourselves                     |     |    |
| <input type="checkbox"/>                    | - By consulting village malaria volunteers             |     |    |
| <input type="checkbox"/>                    | - Cannot be diagnosed                                  |     |    |
| <input type="checkbox"/>                    | - Others: _____                                        |     |    |
| <b>4. How can malaria be treated?</b>       |                                                        |     |    |
| <input type="checkbox"/>                    | - By healthcare providers                              |     |    |
| <input type="checkbox"/>                    | - By village malaria volunteers                        |     |    |
| <input type="checkbox"/>                    | - By taking anti-malarial medicines                    |     |    |
| <input type="checkbox"/>                    | - By taking traditional remedies                       |     |    |
| <input type="checkbox"/>                    | - It will automatically recover                        |     |    |
| <input type="checkbox"/>                    | - Others _____                                         |     |    |
| <b>5. How can malaria be prevented?</b>     |                                                        |     |    |
| <input type="checkbox"/>                    | - The use of bed nets                                  |     |    |
| <input type="checkbox"/>                    | - By using long-lasting insecticide-treated nets       |     |    |
| <input type="checkbox"/>                    | - By taking antimalarial medicines as chemoprophylaxis |     |    |
| <input type="checkbox"/>                    | - Avoiding drinking stagnant water                     |     |    |
| <input type="checkbox"/>                    | - Not eating fruits such as banana, papaya and durian  |     |    |
| <input type="checkbox"/>                    | - Applying mosquito repellent                          |     |    |
| <input type="checkbox"/>                    | - Wearing long-sleeved clothes                         |     |    |
| <input type="checkbox"/>                    | - Burning mosquito coils or rubbish                    |     |    |
| <input type="checkbox"/>                    | - Others: _____                                        |     |    |

### Part III. Perception toward malaria

| Statement                                                                                      | Agree | Neutral | Disagree |
|------------------------------------------------------------------------------------------------|-------|---------|----------|
| 1. Myanmar citizens cannot contract malaria in Thailand.                                       |       |         |          |
| 2. Malaria is a potentially deadly disease.                                                    |       |         |          |
| 3. Malaria can be treated with traditional medicines or drugs from a pharmacy.                 |       |         |          |
| 4. Taking antimalarial medicines reduces the risk of transmitting the disease to other people. |       |         |          |
| 5. Having suffered malaria once will invoke immunity that prevents future infection.           |       |         |          |
| 6. Myanmar citizens cannot access malaria treatment services in Thailand.                      |       |         |          |
| 7. Myanmar migrants may not have access to long-lasting insecticide treated nets in Thailand.  |       |         |          |
| 8. Visiting malaria clinics may pose a risk of being caught by officials.                      |       |         |          |
| 9. Anti-malarial medicines are generally very harmful to us.                                   |       |         |          |
| 10. Malaria diagnostic and treatment services are free for us.                                 |       |         |          |

### Part IV. Access to malaria services

| Accessibility question                                                          | Yes | No |
|---------------------------------------------------------------------------------|-----|----|
| 1. Do you and your family possess long-lasting insecticide treated nets?        |     |    |
| 1.1 If yes, where did you get them?                                             |     |    |
| - Took from Myanmar                                                             |     |    |
| - Got from Thailand government/ healthcare providers                            |     |    |
| - Bought from a shop                                                            |     |    |
| - Received from farm owners or boss                                             |     |    |
| - Others:<br>_____                                                              |     |    |
| 1.2 If yes, when did you get them?                                              |     |    |
| - Within 1 year                                                                 |     |    |
| - Within 2 years                                                                |     |    |
| - More than 2 years                                                             |     |    |
| 2. Do you know where you can receive malaria diagnostic and treatment services? |     |    |
| 3.1 If yes, where can you get them?                                             |     |    |
| - Malaria clinics                                                               |     |    |
| - Village malaria volunteers                                                    |     |    |
| - Pharmacy                                                                      |     |    |
| - Government hospital                                                           |     |    |
| - Private clinics                                                               |     |    |
| - Others:<br>_____                                                              |     |    |

|                                                                                   |  |  |
|-----------------------------------------------------------------------------------|--|--|
| <b>3.</b> Have you ever received malaria-related health information or education? |  |  |
| 4.1 If yes, where did you receive it?                                             |  |  |
| - Malaria clinics                                                                 |  |  |
| - Village malaria volunteers                                                      |  |  |
| - Pharmacy                                                                        |  |  |
| - Government hospital                                                             |  |  |
| - Private clinics                                                                 |  |  |
| - Friends or family members                                                       |  |  |
| - Others: _____                                                                   |  |  |

## V. Malaria preventive practices and health seeking behaviours

| Preventive practice and health seeking behaviour                                                      | Yes | No |
|-------------------------------------------------------------------------------------------------------|-----|----|
| <b>1.</b> Have you ever suffered from fever while staying in Thailand?                                |     |    |
| If you have fever, how would you manage it?                                                           |     |    |
| - Went to malaria clinics                                                                             |     |    |
| - Went to government hospitals                                                                        |     |    |
| - Went to private clinics                                                                             |     |    |
| - Went to village malaria volunteers                                                                  |     |    |
| - Took traditional remedies                                                                           |     |    |
| - Self-treatment                                                                                      |     |    |
| - Took medicines form a pharmacy                                                                      |     |    |
| - It recovered by itself                                                                              |     |    |
| - Others: _____                                                                                       |     |    |
| When did you go to this facility after the onset of fever? _____ Days                                 |     |    |
| <b>2.</b> Have you ever suffered from malaria while staying in Thailand?                              |     |    |
| If you suffered malaria, how would you manage it?                                                     |     |    |
| - Went to malaria clinics                                                                             |     |    |
| - Went to government hospitals                                                                        |     |    |
| - Went to private clinics                                                                             |     |    |
| - Went to village malaria volunteers                                                                  |     |    |
| - Took traditional remedies                                                                           |     |    |
| - Others: _____                                                                                       |     |    |
| <b>3.</b> Did you use bed nets or long-lasting insecticide-treated nets last night before the survey? |     |    |
| If no, why?                                                                                           |     |    |
| - Do not have any nets                                                                                |     |    |
| - Afraid of harmful effects of LLINs, such as skin allergies                                          |     |    |
| - Bed nets cannot be set up in the workplace                                                          |     |    |
| - I do not need it as there are no mosquitoes                                                         |     |    |
| - Cannot afford to buy                                                                                |     |    |

|                                                                   |  |  |
|-------------------------------------------------------------------|--|--|
| - Thailand has no malaria                                         |  |  |
| - Others: _____                                                   |  |  |
| <b>4. Have you ever used mosquito repellents?</b>                 |  |  |
| If no, why?                                                       |  |  |
| - Do not have it                                                  |  |  |
| - Afraid of harmful effects of repellents, such as skin allergies |  |  |
| - It is not effective in preventing mosquito bites                |  |  |
| - I do not need it as there are no mosquitoes                     |  |  |
| - Cannot afford to buy                                            |  |  |
| - Thailand has no malaria                                         |  |  |
| - Others: _____                                                   |  |  |