

Course syllabus

TMCD530 Tropical Infectious Diseases Case Study

1. **Institute** Mahidol University
Faculty/Department Faculty of Tropical Medicine, Department of Clinical Tropical Medicine
2. **Course Name:**
 - a. **Course Code:** TMCD 530
 - b. **Course Title:** Tropical Infectious Diseases Case Study
3. **Number of credits:** 1 (0-2-1)
4. **Programme use:** Graduate Diploma Programme in Tropical Medicine and Hygiene
Master of Clinical Tropical Medicine
5. **Prerequisite:** None
6. **Type of Course:** Elective subject
7. **Condition: class size:** minimum 5, maximum 15
8. **Session/Academics year:** The first semester of each academic year
9. **Course description:**

Observation on the patients admitted to the hospital(s) in the endemic areas of selected tropical diseases in order to gain direct experience of how to diagnose tropical infectious diseases using proper laboratory investigation clinical manifestation and discussion on the treatment and care for these patients, and introduction to primary health care including referral system for care of tropical infectious diseases

10. **Course expected learning outcomes:**

The students should be able to

- 1) Approach the patients with common tropical diseases presented to hospital in endemic areas.
- 2) Distinguish the diagnosis of patients with tropical infectious disease, especially malaria, leptospirosis, scrub typhus, melioidosis, and other common tropical infectious diseases in the area.
- 3) Plan for the investigations, treatment and generate the proper advice for the patient with tropical infectious diseases.
- 4) Compare the primary, secondary and tertiary healthcare centres, and explain the referral system in Thailand.
- 5) Reflect ethical consideration of patient care and professionalism

10. Course outline and constructive alignment

| Day | Title | Hours | | | Instructor | Course Learning Outcome | Programme ELOs | Learning Activities | Assessment |
|-----|---|---------|-----------|------------|---|-------------------------|---------------------------------|---|--|
| | | Lecture | Lab | Self-study | | | | | |
| 1 | Introduction of Government hospital system in Thailand | | 1 | 0.5 | Director of hospitals | 4 | 2.1,3.1 | Power point presentation | Attendant |
| | Epidemiology of tropical diseases in Thailand (Tak / Ubon Ratchathani / Udon Thani) | | 1 | 0.5 | Deputy director | 4 | 2.1,3.1 | Power point presentation Q & A | Student participation |
| | Ward round on severe malaria management (Mae Sot)/ Ward round on tropical infectious diseases management (Ubon Ratchathani/Udon Thani) | | 3 | 1.5 | Dr Arjen Dondorp Dr Prakaykaew Dr Wirongrong Dr Chatporn Asst Prof Viravarn | 1,2,3,5 | 1.1,1.2,2.1,3.1, 3.5,4.1,4.2 | Ward round, Bed-side teaching Case discussion, Q & A | Student participation Discussion |
| | Laboratory diagnosis for human malaria/other tropical infectious diseases | | 2 | 1 | Assoc Prof Kesinee Dr Kobporn | 3 | 3.1 | Laboratory Demonstration Case discussion, Q & A | Student participation Discussion |
| 2 | Ward round (medicine ward 1) Case discussion | | 3 | 1.5 | Staff of Internal | 1,2,3,5 | 1.1,1.2,2.1,3.1, 3.5,4.1,4.2 | Ward round, Bed-side teaching Case discussion, Q & A | Student participation Discussion |
| | | | 3 | 1.5 | Medicine ward | | | | |
| 3 | Ward round (medicine ward 2) Case discussion | | 3 | 1.5 | Staff of Internal | 1,2,3,5 | 1.1,1.2,2.1,3.1, 3.5,4.1,4.2 | Ward round, Bed-side teaching Case discussion, Q & A | Student participation Discussion |
| | | | 3 | 1.5 | Medicine ward | | | | |
| 4 | Study of health care system in Thai community (visit malaria clinic/health care centers) | | 8 | 4 | Deputy director/ Dr Prakaykaew Dr Wirongrong | 4 | 2.1,3.1,4.1,4.2 | Site visit Case discussion, Q & A | Student participation Discussion |
| 5 | Case presentation by students | | 3 | 1.5 | Staff of Internal Medicine ward Dr Prakaykaew Dr Wirongrong | 1,2,3,4,5 | 2.1,3.1,3.5,4.1, 4.2,5.2 | Assignment Student presentation Seminar Case discussion, Q & A | Student participation Presentation tool and readiness Discussion |
| | Total | | 30 | 15 | | | | | |

11. Teaching and Learning Activities

Hospital (Mae Sot/Sappasitthiprasong/Udon Thani): lecture on the health care system, ward round and discussion, case discussion

Health care centers: visit, lecture on the primary health care and referral system

12. Teaching media

Power point presentation

Discussion

Microscopy/other diagnostic laboratory methods

13. Course achievement and evaluation

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| ¹ Attend ward round and health care visit | 10% |
| Discussion on diagnosis, investigation plan and treatment plan during ward round | 40% |
| Case presentation | 25% |
| Participation and discussion in the case presentation session | 25% |

Note¹ Students must attend at least 80% of all activities.

14. Course evaluation

Discussion and comments session at the end of the course before leaving the field site

Questionnaire for contentment and suggestion for the course

15. Course fee

Since the study venue will be upcountry, there will be 12,000 THB extra charge for student who attend this course. The charge will include traveling cost (van), accommodation and meals.

16. References

NA

17. Instructors:

Staff of Medical Department of Mae Sot General hospital, Tak

Staff of Medical Department of Sappasit Prasong Hospital, Ubon Ratchathani

Staff of Medical Department of Udon Thani Regional Hospital, Udon Thani

Prof Arjen Dondorp (Invited lecturer: severe malaria expertise)

Dr Wirongrong Chierakul

Dr Prakaykaew Charunwatthana

Asst Prof Viravarn Luvira

Dr Chatporn kittitrakul

18. Course responsibility:

Dr Wirongrong Chierakul

Dr Prakaykaew Charunwatthana

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