

## Course syllabus

### TMID526 Food- and Water-borne Diseases II (Tissue Parasites)

#### Academic Year 2016-2018

1. **Institute** Mahidol University  
**Faculty/Department** Faculty of Tropical Medicine, Department of Clinical Tropical Medicine
2. **Course Name:**
  - a. **Course Code:** TMID 526
  - b. **Course Title:** Food- and Water-borne Diseases II (Tissue Parasites)
3. **Number of credits:** 2 (2-0-4)
4. **Programme use:** Graduate Diploma Programme in Tropical Medicine and Hygiene  
Master of Clinical Tropical Medicine  
Master of Clinical Tropical Medicine (Tropical Paediatrics)
5. **Prerequisite:** None
6. **Type of Course:** Core subject (D.T.M.&H.)  
Elective subject (M.C.T.M.)
7. **Condition: class size:** None
8. **Session/Academics year:** The first semester of each academic year
9. **Course description:**

Food- and water-borne extra-gastrointestinal parasitic diseases, pathogens, intermediate hosts, life-cycle, pathogenesis, pathology, clinical manifestation, diagnosis, management, prevention and control
10. **Course expected learning outcomes:**

The students should be able to

  - 1) Explain and differentiate type of important food- and water-borne pathogenic tissue parasites; including residence, epidemiology and life-cycle
  - 2) Explain symptoms and signs, pathogenesis, pathophysiology, diagnosis and plan of management of tropical diseases caused by food- and water-borne pathogenic tissue parasites
  - 3) Explain the prevention and control of common important tropical diseases caused by food- and water-borne pathogenic tissue parasites

## 11. Course outline and constructive alignment

Topic	Title	Hours			Instructors	Course Learning Outcome	Programme ELOs	Teaching & Learning Strategies	Assessment
		Lecture	Lab	Self-study					
1	Gnathostomiasis and Creeping Eruption	2	0	4	Asst Prof Jittima/Asst Prof Dorn	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
2	Visit Gnathostomiasis Clinic	1	0	2	Assoc Prof Mario/ Asst Prof Jittima/Dr Vorada	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
3	Trichinellosis	2	0	4	Prof Punnee/Dr Prakaykaew/ Asst Prof Teera	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
4	Sarcocystis	1	0	2		1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
5	Case Discussion (Larva Migran)	2	0	4	Prof Punnee/ Asst Prof Jittima/Asst Prof Dorn			PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
6	Eosinophilic Meningoencephalitis	2	0	4	Assoc Prof Yupaporn/Assoc Prof Chalit/Dr Maleerat/Asst Prof Dorn/Assoc Prof Paron/Asst Prof Poom	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
7	Free Living Amoeba	2	0	4	Asst Prof Kriengsak/Lect Rachatawan/Assoc Prof Panpen	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
8	Toxoplasmosis	3	0	6	Prof Yaowalark/Assoc Prof Chukiat/Dr Sant/Lect Chukiat/Asst Prof Viravarn/Dr Saengduen/Dr Supaluk/Dr Khunchai	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination

Topic	Title	Hours			Instructors	Course Learning Outcome	Programme ELOs	Teaching & Learning Strategies	Assessment
		Lecture	Lab	Self-study					
9	Liver Fluke: Case Discussion, Complication and Management	3	0	6	Assoc Prof Yupaporn/ Dr Maleerat/Asst Prof Poom/ Asst Prof Urusa	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
10	Echinococcosis	1	0	2	Prof Arjen Dondorp/Dr Wirongrong	1,2,3	2.1,3.1	PowerPoint presentation, Case Discussion, Q&A	Discussion, MCQ Examination
11	Cysticercosis and Sparganosis: Clinical aspect & Laboratory Demonstration	3	0	6	Dr Prakaykaew/Dr Maleerat/ Asst Prof Dorn/Asst Prof Poom	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
12	Lung Fluke: Case Discussion and Clinical Management	3	0	6	Asst Prof Udomsak/ Dr Maleerat/Assoc Prof Chalit/ Asst Prof Urusa	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
13	Blood Fluke: Case Discussion and Clinical Management	3	0	6	Assoc Prof Yupaporn/ Asst Prof Poom/Dr Sant	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Case Discussion, Q&A	Discussion, MCQ Examination
14	Review Tissue Helminth and Protozoa Morphology	2	0	4	Dept of Helminthology and Dept of Protozoology Staff	1,2,3	2.1,3.1	PowerPoint presentation, Laboratory demonstration, Q&A	Discussion, MCQ Examination
	<b>Total</b>	<b>30</b>	<b>0</b>	<b>45</b>					

**12. Teaching and Learning Activities**

Lecture  
 Case discussion and seminar  
 Laboratory demonstration

**13. Teaching media**

PowerPoint presentation  
 Case Scenario  
 Microscope

**14. Course achievement and evaluation**

Attendance and Participation	10%
Presentation and discussion during academic activity	10%
Multiple-choice question examination (online examination)	70%

Students who get grade lower than B, will need re-examination within 2 weeks after first examination.

**15. Course evaluation**

Discussion and comments session at the end of the course  
 Questionnaire for contentment and suggestion for the course

**16. References**

- 16.1. Service M. *Medical Entomology for Students*. 5<sup>th</sup> ed. Cambridge, UK: Cambridge University Press, 2012
- 16.2. Bennett JE, Dolin R and Blaser MJ. *Mandell Douglas, and Bennett's Principles and Practice of Infectious Diseases*. 8<sup>th</sup> ed. Oxford, UK: Elsevier; 2014
- 16.3. Farrar J, Hotes P, Junghanss T, Kang G, Lalloo D, and White NJ. *Manson's Tropical Diseases*, 23<sup>rd</sup> ed. Oxford, UK: Elsevier; 2014
- 16.4. Eddleston M, Davidson R, Wilkinson R, and Pierini S. *Oxford Handbook of Tropical Medicine*, 2<sup>nd</sup> ed. Oxford, UK: Oxford University Press; 2014

**17. Instructors:**

Prof Polrat Wilairatana  
 Prof Pratap Singhasivanon  
 Prof Yaowalark Sukthana  
 Prof Punnee Pitisutthithum  
 Prof Arjen Dondorp  
 Assoc Prof Yupaporn Wattanagoon  
 Assoc Prof Paron Deekumyoy  
 Assoc Prof Chalit Komalamisra  
 Assoc Prof Chukiat  
 Asst Prof Teera Kusolsuk

Asst Prof Watcharee Chokejindachai

Asst Prof Jittima Dhitavat

Asst Prof Udomsak Silachamroon

Asst Prof Kriengsak Limkittidul

Asst Prof Dr Dorn Wattanagulpanich

Asst Prof Dr Urusa Tankum

Asst Prof Poom Adisakwattana

Dr Chayasin Mansanguan

Dr Kittiyod Poovorawan

Dr Prakaykaew Charunwatthana

Dr Wirongrong Chierakul

Lect Rachatawan Chiabchalard

Dr Maleerat Sutherat

Dr Sant Muangnoicharoen

**18. Course responsibility:**

Asst Prof Kriengsak Limmkittikul

Department of Tropical Paediatrics, Faculty of Tropical Medicine, Mahidol University