Course syllabus

TMMH 503 Food- and Water-borne Diseases: Tissue Parasites

Academic Year 2018-2022

- 1. Institute
 Mahidol University

 Faculty/Department
 Faculty of Tropical Medicine, Department of Clinical Tropical Medicine

 2. Compare Number
 Faculty of Tropical Medicine, Department of Clinical Tropical Medicine
- 2. Course Name:
 - a. Course Code: TMMH 503
 - b. Course Title: Food- and Water-borne Diseases: 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
- 7. Condition: class size: None
- 8. Session/Academics year: The first semester of each academic year
- 9. Course description:

Pathogens; intermediate hosts; pathogenesis; pathology; clinical manifestation; diagnosis, management; prevention and control

10. Course expected learning outcomes:

At the end of the course, the students should be able to

CLO1: Describe the tissue parasitic diseases in aspect of biological pathogens, intermedi-ate hosts; pathogenesis; pathology; clinical manifestations; diagnosis; management; prevention and control
CLO2: Plan for management of tissue parasitic diseases in the level of individual and community
CLO3: Communicate clinical information using appropriate technologies

11. Course outline and constructive alignment

		Hours				Course	Duamana		
Topic	Title	Lecture	Lab	Self- study	Instructors	Learning Outcome	ELOs	Teaching & Learning Strategies	Assessment
1	Overview Tissue helminth and protozoa morphology	3	0	6	Assoc. Prof. Paron, Asst. Prof. Aongart	1,2,3	2.1,3.1	Lecture, Lab. demonstration	Formative assessment: oral reflection
2	Gnathostomiasis and Creeping Eruption	2	0	4	Asst. Prof. Jittima Assoc. Prof. Dorn, MD. Lect. Supitcha, MD.	1,2,3	2.1,3.1		Formative assessment: oral reflection, MCQ Examination
3	Visit Gnathostomiasis Clinic (OPD)	1	0	2	Asst. Prof. Jittima, MD.	1,2,3	2.1,3.1	Ward round	Formative assessment: oral reflection, MCQ Examination
4	Trichinellosis	2	0	4	Prof. Punnee, MD. Dr. Prakaykaew, MD. Asst. Prof. Teera, MD.	1,2,3	2.1,3.1	Lecture case discussion, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
5	Sarcocystis	1	0	2	Asst. Prof. Aongart			Lecture, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
6	Case discussion (larva migran)	1	0	2	Prof. Punnee, MD Assoc. Prof. Dorn, MD	1,2,3	2.1,3.1	Case discussion	Formative assessment: oral reflection, MCQ Examination
7	Eosinophilic Meningoencephalitis	2	0	4	Assoc. Prof. Weerapong, et al. Assoc. Prof. Chalit, Assoc. Prof. Dorn Assoc. Prof. Paron, Assoc. Prof. Poom	1,2,3	2.1,3.1	Lecture, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
8	Free living amoeba	2	0	4	Assoc. Prof. Kriengsak, MD., Ms. Ratchatawan, Assoc. Prof. Panpen, MD. Asst. Prof. Aongart, Asst. Prof. Saengduen, Asst. Prof. Supaluk	1.2.3	2.1,3.1	Lecture, case discussion, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
9	Toxoplasmosis	3	0	6	Prof. Yaowalark, MD., Asst. Prof. Aongart Assoc. Prof. Chukiat, MD., Asst. Prof. Viravarn Lect. Sant, MD., Ms.	1,2,3	2.1,3.1		Formative assessment: oral reflection, MCQ Examination

	Title	Hours				Course	Drogrammo	Teaching & Learning	
Topic		Lecture	Lab	Self- study	Instructors	Learning Outcome		Strategies	Assessment
					Rachatawan, Asst. Prof. Saengduen, Asst. Prof. Supaluk				
10	Liver Fluke	3	0	6	Assoc. Prof. Weerapong, et al. Assoc. Prof. Poom, Asst. Prof. Urusa	1,2,3	2.1,3.1	Lecture, case discussion, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
11	Echinococcosis	1	0	2	Dr. Wirongrong, MD., Dr. Prakaykaew, MD.	1,2,3	2.1,3.1	Lecture, case discussion	Formative assessment: oral reflection, MCQ Examination
12	Cysticercosis and Sparganosis	3	0	6	Dr. Prakaykaew, MD., Assoc. Prof. Dr.Dorn, MD. Assoc. Prof. Poom	1,2,3	2.1,3.1	Seminar, Lab. demonstration	Discussion, Observation (rubric scale)
13	Lung Fluke	3	0	6	Asst. Prof. Udomsak, MD. Assoc. Prof. Chalit Asst. Prof. Urusa	1,2,3	2.1,3.1	Lecture, Case discussion, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
14	Blood Flukes	3	0	6	Assoc. Prof. Weerapong, et al. Assoc. Prof. Poom	1,2,3	2.1,3.1	Lecture Case discussion, Lab. demonstration	Formative assessment: oral reflection, MCQ Examination
	Total	30	0	60					

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

CLO	Teaching/learning strategies	Assessment methods and weight (%)			
CLO	reaching tearning strategies	Assessment Methods/tools	%		
CI 01		MCQ	60		
CLO1	Lecture, seminar, case discussion/ward round	Observe (Rubric scale)	4		
CI 02		MCQ	20		
CLO2	Seminar, case discussion	Observe (Rubric scale)	3		
CLO3	Seminar, case discussion	Observe (Rubric scale)	3		
	Total weight		100		

The summative evaluation of the student will be criteria based using the cutoff point as the following

Score (total 100)	grade
>=80	A
70 - <80	B+
60 - <70	В
50 - <60	C+
40 - <50	С
30 - <40	D+
20 - <30	D
< 20	F

The student who achieve the score 40-<60 can request to perform re-examination on the failed aspect of summative assessment. For student who achieve the score less than 40, the re-examination is not allowed.

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*. 5th 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*. 8th ed. Oxford, UK: Elsevier; 2015.

16.3. Farrar J, Hotes P, Junghanss T, Kang G, Lalloo D, and White NJ. *Manson's Tropical Diseases*, 23rd ed. Oxford, UK: Elsevier; 2014.

16.4. Eddleston M, Davidson R, Wilkinson R, and Pierini S. *Oxford Handbook of Tropical Medicine*, 2nd 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

Rubric score for TMMH503

- Seminar (1 session) (10% of course)

CLO1: Describe the tissue parasitic diseases in aspect of pathogen, intermediate hosts; pathogenesis; pathology; clinical manifestation; diagnosis; management; prevention and control **(40%)**

10%	8%	5%	2%	0
Able to describe with	Able to describe with	Able to describe without	Able to partial describe	Unable to describe
scientific rational	partial scientific rational	scientific rational		
Able to describe with	Able to describe with	Able to describe without	Able to partial describe	Unable to describe
scientific rational	partial scientific rational	scientific rational		
Able to describe with	Able to describe with	Able to describe without	Able to partial describe	Unable to describe
scientific rational	partial scientific rational	scientific rational		
Able to describe with	Able to describe with	Able to describe without	Able to partial describe	Unable to describe
scientific rational	partial scientific rational	scientific rational		
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CLO2: Plan for management of tissue parasitic diseases in the level of individual and community (30%)

CLO2	10%	5%	0
Management individual	Comprehensive	Describe important	Unable to describe
		aspect	
Management community	Comprehensive	Describe important	Unable to describe
		aspect	
Prevention individual	-	Describe important	Unable to describe
		aspect	
Prevention community	-	Describe important	Unable to describe
		aspect	

CLO3: Communicate clinical information using appropriate technologies (30%)

CLO3	10%	5%	0
Presentation idea/opinion	Information is directly (76-100%)	Information is partial (51-75%)	Information is not linked
	linked to topic	linked to topic	(<25%) to topic
Presentation skill	-	Easy to understand	Not understandable
Discussion	Understandable response with	Understandable response with	Could not response
	appropriate scientific rational	partially appropriate scientific	
		rational	
Manner	_	Appropriate	Unacceptable