

Course syllabus

TMCD535 Seminar in Clinical Tropical Medicine

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:** TMCD 535
 - b. **Course Title:** Seminar in Clinical Tropical Medicine
3. **Number of credits:** 3 (2-2-5)
4. **Programme use:** Master of Clinical Tropical Medicine
5. **Prerequisite:** None
6. **Type of Course:** Core subject
7. **Condition: class size:** maximum 25
8. **Session/Academics year:** The second semester of each academic year

9. Course description:

Literature search; review and summarize findings on interesting topics in tropical diseases; interpret; analyze; and criticize scientific articles logically; medical reviews; principles and methodology of conducting a literature search; statistics in medical research; critical appraisal of the literature including research methodology and ethical consideration; principles of writing and presenting literature reviews of medical papers

10. Course expected learning outcomes:

The students should be able to

- 1) Criticize the international literatures in research methodology, good clinical practice and ethical consideration
- 2) Appraise the statistical analysis and the result of clinical research according to the standard guidelines
- 3) Summarize the clinical research and generate the standard scientific presentation using proper presentation tools and presentation skill
- 4) Evaluate the value of the clinical research in the view of the applicability and the limitation of the result
- 5) Compose the literature reviews in tropical diseases by using standard guidelines and evidence-based summary
- 6) Integrate process of critical appraisal and literature reviews in lifelong learning in tropical diseases

11. Course outline and constructive alignment

Day	Title	Hours			Instructor	Course Learning Outcome	Programme ELOs	Learning Activities	Assessment
		Lecture	Lab	Self-study					
1	Lecture and demonstration of critical appraisal	1	1	2.5	Assoc Prof Pornthep	1,2,3,4,6	2.2,3,4	Lecture Demonstration	Attendant
2	Lecture and demonstration of topic review	1	1	2.5	Dr Wirongrong	1,2,3,4,5,6	2.2,3,4	Lecture Demonstration	Attendant
3	Critical appraisal 1	2	2	5	Prof Punnee/Asst Prof Apichart/Dr Chayasin and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
4	Topic review 1	2	2	5	Assoc Prof Vipa/Asst Prof Supat/Dr Kittiyod and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
5	Critical appraisal 2	2	2	5	Assoc Prof Chukiat/Asst Prof Watcharee/Dr Supawat/and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
6	Topic review 2	2	2	5	Asst Prof Jittima/Dr Prakaykaew/Dr Maleerat and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
7	Critical appraisal 3	2	2	5	Prof Sasithon/Asst Prof Noppadon/Dr Sant/and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
8	Topic review 3	2	2	5	Prof Punnee/Assoc Prof Kesinee/Dr Chayasin/and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
9	Critical appraisal 4	2	2	5	Assoc Prof Wattana/Assoc Prof Benjaluck/Dr Wirongrong and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score

Day	Title	Hours			Instructor	Course Learning Outcome	Programme ELOs	Learning Activities	Assessment
		Lecture	Lab	Self-study					
10	Topic review 4	2	2	5	Asst Prof Weerapong/Dr Wirongrong/Dr Chatporn and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
11	Critical appraisal 5	2	2	5	Assoc Prof Chukiat/Asst Prof Kriengsak/Dr Weerawan and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
12	Topic review 5	2	2	5	Assoc Prof Yupaporn/Asst Prof Jittima/Dr Chatporn and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
13	Critical appraisal 6	2	2	5	Assoc Prof Vipa/Dr Borimas/Dr Chayasin and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
14	Topic review 6	2	2	5	Asst Prof Kriengsak/Asst Prof Watcharee/Dr Raweerat and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
15	Critical appraisal 7	2	2	5	Asst Prof Udomsak/Asst Prof Watcharapong/Dr Sant and team	1,2,3,4,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
16	Topic review 7	2	2	5	Prof Polrat/Asst Prof Noppadon/Dr Kittiyod and team	1,2,3,4,5,6	1.1,1.2,2.2,3.3,3.4,3.5,4.1,4.2,5.2	Presentation Discussion Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
	Total	30	30	75					

12. Teaching and Learning Activities

- Lecture and demonstration on critical appraisal and topic review
- Assign critical appraisal and topic review for each student
- Search literature by using appropriate information technology
- Present and criticize clinical research
- Topic review presentation and discussion

13. Teaching media

- PowerPoint presentation
- Internet
- Discussion

14. Course achievement and evaluation

Attend lecture, critical appraisal and topic review ¹	10%
Discussion on critical appraisal ² and topic review ³	30%
Presentation on critical appraisal and topic review	60%

Note¹ Students must attend at least 80% of all activities

Note^{2,3} Evaluations using online rubric scale for critical appraisal and topic review, respectively

The students can see their updated score every week.

15. Course evaluation

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

16. References

1. Barratt A, Irwig L, Glasziou P, Cumming RG, Raffle A, Hicks N, et al. Users' guides to the medical literature: XVII. How to use guidelines and recommendations about screening. Evidence-Based Medicine Working Group. JAMA 1999;281(21):2029-34.
2. Hunt DL, Jaeschke R, McKibbin KA. Users' guides to the medical literature: XXI. Using electronic health information resources in evidence-based practice. Evidence-Based Medicine Working Group. JAMA 2000;283(14):1875-9.
3. McAlister FA, Straus SE, Guyatt GH, Haynes RB. Users' guides to the medical literature: XX. Integrating research evidence with the care of the individual patient. Evidence-Based Medicine Working Group. JAMA 2000;283(21):2829-36.
4. Hunt DL, McKibbin KA. Locating and appraising systematic reviews. Ann Intern Med 1997;126:532-8.
5. Guyatt GL, Rennie D. Users' Guides to the Medical Literature: A Manual for Evidence-Based Clinical Practice. Chicago: American Medical Association, 2001.

17. Instructors:

Staffs of Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University

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

18. Course responsibility:

Dr Chatporn Kittittrakul

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

TMCD 535: Seminar in Tropical Medicine (Topic Review)
Evaluation Form



Lecturer _____

Role Supervisor Commentators Staff attendants

Date ___/___/___

Presenter: _____ (Total score _____)

I. Information (Information score _____)

1.1 Organization of data

POORLY organized/very difficult to follow	FEWLY organized/difficult to follow	ADEQUATELY organized/fair to follow	MOSTLY organized/easy to follow	VERY WELL organized/very easy to follow
(1 mark)	(2 marks)	(4 marks)	(6 marks)	(8 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.2 Accuracy

LEAST accurate	SLIGHTLY accurate	ADEQUATELY accurate	MOSTLY accurate	ALL accurate
(1 mark)	(2 marks)	(4 marks)	(6 marks)	(8 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.3 Up-to-date references

ALL Out-of-date	FEW Up-to-date	FAIRLY Up-to-date	MOSTLY Up-to-date	ALL Up-to-date
(1 mark)	(2 marks)	(4 marks)	(6 marks)	(8 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.4 Level of detail in each article

Zero	FEW	ADEQUATE	MOST	ALL
(1 mark)	(2 marks)	(4 marks)	(6 marks)	(8 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.5 Discussions and Conclusions

INACCURATE/no conclusion	FEW accurate/incomplete	FAIRLY accurate/complete	MOSTLY accurate/complete	ALL accurate/complete
(1 mark)	(2 marks)	(4 marks)	(6 marks)	(8 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

II. Review scope (Review scope score _____)

2.1 Completeness of information

COMPLETELY FRAGMENTED	FEW in order	ADEQUATELY in order	MOSTLY in order	ALL in order
(1 mark)	(3 marks)	(5 marks)	(7 marks)	(9 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.2 Highlight agreements and disagreements

FAIL to highlight	FEW highlight	ADEQUATE highlight	MOSTLY highlighted	COMPLETE highlight
(1 mark)	(3 marks)	(5 marks)	(7 marks)	(9 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.3 Show relationships

NO relation	FEW relations	ADEQUATE relations	MOST relations	COMPLETE relations
(1 mark)	(3 marks)	(5 marks)	(7 marks)	(9 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.4 Identify the unanswered questions or gap

FAIL to identify	FEW	ADEQUATE	MOSTLY	COMPLETELY
(1 mark)	(3 marks)	(5 marks)	(7 marks)	(9 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III. Preparedness and presentation (Preparedness and presentation score ____)

3.1 Quality of slide presentation materials

Inappropriate/very difficult to read	Inconsistent/difficult to read	Fairly consistent/OK to read	Mostly consistent/easy to read	All consistent/appropriate perfect to read
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.2 Response to questions (manner, conflict management, etc.)

Poor	Fair	Average	Good	Excellent
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.3 Speaking style

ALL unclear/hardly heard	MOST unclear/poorly heard	SOME unclear/fairly heard	FEW unclear/easily heard	Loud and clear
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.4 Distracted actions (Uhs, Uhms, hand movement, etc.)

THROUGHOUT	MOSTLY	SOMETIMES	FEW	NO
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.5 Eye contact

NO/read slides	FEW	SOMETIMES	MOSTLY	THROUGHOUT
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.6 Timing

More than 40 minutes	36-40 minutes	31-35 minutes	WITHIN 30 minutes
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TMCD 535: Seminar in Tropical Medicine (Critical Appraisal)
Evaluation Form for Presenter



Lecturer _____

Role Supervisor Commentators Staff attendants

Date ___/___/___

Presenter: _____ (Total score _____)

I. Study design (Study design score _____)

1.1 Introduction and Objectives

LEAST accurate/understandable and incomplete	FEW accurate/understandable and nearly complete	ADEQUATELY accurate/understandable and complete	ALL accurate/understandable and complete
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.2 Methods

1.2.1 Explanation of Methods

LEAST accurate/understandable and incomplete	FEW accurate/understandable and nearly complete	ADEQUATELY accurate/understandable and complete	ALL accurate/understandable and complete
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.2.2 Student Understanding of Methods

Understand LEAST	Understand SOME	Understand MUCH	Understand ALL and CLEAR
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.3 Results

LEAST accurate/understandable and incomplete	FEW accurate/understandable and nearly complete	ADEQUATELY accurate/understandable and complete	ALL accurate/understandable and complete
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.4 Discussions and Conclusions

LEAST accurate/understandable and incomplete	FEW accurate/understandable and nearly complete	ADEQUATELY accurate/understandable and complete	ALL accurate/understandable and complete
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

II. Analysis and Critique (Analysis and Critique score _____)

2.1 Critique

Inappropriate	FEW appropriate	SOME appropriate	MOST appropriate	ALL appropriate
(3 marks)	(6 marks)	(9 marks)	(12 marks)	(15 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.2 Conclusions including key points, study limitation, implication, gap, etc.

Inappropriate	FEW appropriate	SOME appropriate	MOST appropriate	ALL appropriate
(3 marks)	(6 marks)	(9 marks)	(12 marks)	(15 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III. Knowledge (Knowledge score ____)

3.1 Study detail

Know LITTLE	Know FEW	Know SOME	Know MUCH	Know ALL
(1 mark)	(3 marks)	(6 marks)	(9 marks)	(12 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.2 Scientific contents

Know LITTLE	Know FEW	Know SOME	Know MUCH	Know ALL
(1 mark)	(3 marks)	(6 marks)	(9 marks)	(12 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

IV. Preparedness and presentation (Preparedness and presentation score ____)

4.1 Quality of slide presentation materials

Inappropriate/very difficult to read	Inconsistent/difficult to read	Fairly consistent/OK to read	Mostly consistent/easy to read	All consistent/appropriate perfect to read
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.2 Response to questions (manner, conflict management, etc.)

Poor	Fair	Average	Good	Excellent
(2 mark)	(3 mark)	(4 marks)	(5 marks)	(6 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.3 Speaking style

ALL unclear/hardly heard	MOST unclear/poorly heard	SOME unclear/fairly heard	FEW unclear/easily heard	Loud and clear
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.4 Distracted actions (Uhs, Uhms, hand movement, etc.)

THROUGHOUT	MOSTLY	SOMETIMES	FEW	NO
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.5 Eye contact

NO/read slides	FEW	SOMETIMES	MOSTLY	THROUGHOUT
(0 mark)	(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.6 Timing

More than 40 minutes	36-40 minutes	31-35 minutes	WITHIN 30 minutes
(1 mark)	(2 marks)	(3 marks)	(4 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TMCD 535: Seminar in Tropical Medicine (Critical Appraisal)

Evaluation Form for Discussants

Lecturer _____

Role Supervisor Commentators Staff attendants

Date ___/___/___

Discussant: _____ (Total score _____)

1 Points discussed

Absent	NO important point	FEW important points	SOME important points	SEVERAL important points
(0 mark)	(10 marks)	(20 marks)	(30 marks)	(40 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2 Contents

Absent	Inappropriate	FEW appropriate	SOME appropriate	MOST appropriate	ALL appropriate
(0 mark)	(10 marks)	(20 marks)	(30 marks)	(40 marks)	(50 marks)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>