

Course syllabus

TMCD535 Seminar in Clinical Tropical Medicine

Academic Year 2018-2022

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:**

Interesting topics in clinical tropical medicine; principle and methodology of literature search; critical appraisal; medical statistic and applied statistic in research article; research methodology
10. **Course expected learning outcomes:**

The students should be able to

 - 1) Criticize the scientific articles 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) Compose the critical appraisal and the literature reviews in tropical diseases by using standard guidelines and evidence-based summary required for basis of conducting tropical medicine clinical research

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 how to perform critical appraisal	1	1	2.5	Dr Wirongrong	1,2	1,3	Lecture Demonstration	Attendant
2	Lecture and demonstration of how to perform topic review	1	1	2.5	Dr Chatporn	1,2	1,3	Lecture Demonstration	Attendant
3	Critical appraisal	14	14	35	All Department of Clinical Tropical Medicine Academic Staff	1,2,3,4	1,2,3,4,6	Presentation Criticize clinical research Q&A	Attendant/Presentation/Discussion: Using Rubric assessment score
4	Topic review	14	14	35	All Department of Clinical Tropical Medicine Academic Staff	1,2,3,4	1,2,3,4,6	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

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|---|-----|
| 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 | 30% |
| Presentation on critical appraisal and topic review | 30% |

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.

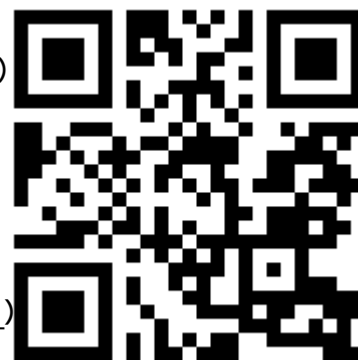
17. Instructors:

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. Criticize the scientific articles in research methodology and ethical consideration (20 marks)

1.1 Criticize in research methodology

<input type="checkbox"/> 3 marks Criticize the appropriateness of each study correctly <25%	<input type="checkbox"/> 5 marks Criticize the appropriateness of each study correctly 25-50%	<input type="checkbox"/> 8 marks Criticize the appropriateness of each study correctly 51-75%	<input type="checkbox"/> 10 marks Criticize the appropriateness of each study correctly >75%
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1.2 Criticize in ethical consideration

<input type="checkbox"/> 3 marks Criticize <25% important points correctly	<input type="checkbox"/> 5 marks Criticize 25-50% important points correctly	<input type="checkbox"/> 8 marks Criticize 51-75% important points correctly	<input type="checkbox"/> 10 marks Criticize >75% important points correctly
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II. Appraise the statistical analysis and the result of clinical research according to the standard guidelines (30 marks)

<input type="checkbox"/> 2 marks Appraise the appropriateness of the statistic used correctly <25%	<input type="checkbox"/> 4 marks Appraise the appropriateness of the statistic used correctly 25-50%	<input type="checkbox"/> 6 marks Appraise the appropriateness of the statistic used correctly 51-75%	<input type="checkbox"/> 8 marks Appraise the appropriateness of the statistic used correctly >75%
<input type="checkbox"/> 2 marks Appraise the agreement and disagreement of all studies correctly <25%	<input type="checkbox"/> 4 marks Appraise the agreement and disagreement of all studies correctly 25-50%	<input type="checkbox"/> 6 marks Appraise the agreement and disagreement of all studies correctly 51-75%	<input type="checkbox"/> 8 marks Appraise the agreement and disagreement of all studies correctly >75%
<input type="checkbox"/> 2 marks Appraise the relationships of all studies correctly <25%	<input type="checkbox"/> 4 marks Appraise the relationships of all studies correctly 25-50%	<input type="checkbox"/> 6 marks Appraise the relationships of all studies correctly 51-75%	<input type="checkbox"/> 8 marks Appraise the relationships of all studies correctly >75%
<input type="checkbox"/> 2 marks Identify the gap of the research correctly <25%	<input type="checkbox"/> 3 marks Identify the gap of the research correctly 25-50%	<input type="checkbox"/> 4 marks Identify the gap of the research correctly 51-75%	<input type="checkbox"/> 6 marks Identify the gap of the research correctly >75%

III. Summarize the clinical research and generate the standard scientific presentation using proper presentation tools and presentation skill (20 marks)

3.1 Quality of slide presentation materials

<input type="checkbox"/> 2 marks	<input type="checkbox"/> 4 marks	<input type="checkbox"/> 6 marks	<input type="checkbox"/> 8 marks
Difficult to read Misspelling >75% of slides Copy all of the content in slides, no summary	Difficult to read 51-75% Misspelling 51-75% Copy 51-75% of all content of the study	Difficult to read 25-50% Misspelling 25-50% Copy 25-50% of all content of the study	Easy to read No misspelling Perfect summary

3.2 Presentation skills (speaking style, distracted actions, eye contact)

<input type="checkbox"/> 2 marks	<input type="checkbox"/> 4 marks	<input type="checkbox"/> 6 marks	<input type="checkbox"/> 8 marks
Speak hardly heard and unclear Distracted action >45% No eye contact	Speak unclear 51-75% Distracted action 51-75% Eye contact 25-50%	Speak unclear 25-50% Distracted action 25-50% Eye contact 51-75%	Speak loud and clear No distracted action Eye contact with audiences

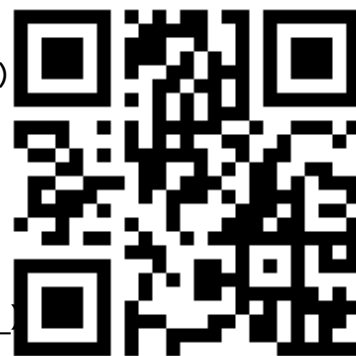
3.3 Timing

<input type="checkbox"/> 1 marks	<input type="checkbox"/> 2 marks	<input type="checkbox"/> 3 marks	<input type="checkbox"/> 4 marks
> 30 minutes	26-30 minutes	21-25 minutes	≤ 20 minutes

IV. Compose the literature review in tropical diseases by using standard guidelines and evidence-based summary required for basis of conducting tropical medicine clinical research (30 marks)

<input type="checkbox"/> 3 marks	<input type="checkbox"/> 5 marks	<input type="checkbox"/> 8 marks	<input type="checkbox"/> 10 marks
All studies are updated <25%	All studies are updated 25-50%	All studies are updated 51-75%	All studies are updated >75%
<input type="checkbox"/> 3 marks	<input type="checkbox"/> 5 marks	<input type="checkbox"/> 8 marks	<input type="checkbox"/> 10 marks
Completeness of information <25%	Completeness of information 25-50%	Completeness of information 51-75%	Completeness of information >75%
<input type="checkbox"/> 3 marks	<input type="checkbox"/> 5 marks	<input type="checkbox"/> 8 marks	<input type="checkbox"/> 10 marks
All studies are reliable <25%	All studies are reliable 25-50%	All studies are reliable 51-75%	All studies are reliable >75%

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



Lecturer _____

Role Supervisor Commentators Staff attendants

Date ____/____/____

Presenter: _____ (Total score _____)

I. Criticize the scientific articles in research methodology and ethical consideration (30 marks)

1.1 Criticize in research methodology

<input type="checkbox"/> 5 marks Criticize <25% important points correctly	<input type="checkbox"/> 10 marks Criticize 25-50% important points correctly	<input type="checkbox"/> 15 marks Criticize 51-75% important points correctly	<input type="checkbox"/> 20 marks Criticize >75% important points correctly
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1.2 Criticize in ethical consideration

<input type="checkbox"/> 3 marks Criticize <25% important points correctly	<input type="checkbox"/> 5 marks Criticize 25-50% important points correctly	<input type="checkbox"/> 8 marks Criticize 51-75% important points correctly	<input type="checkbox"/> 10 marks Criticize >75% important points correctly
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II. Appraise the statistical analysis and the result of clinical research according to the standard guidelines (30 marks)

<input type="checkbox"/> 2 marks Appraise the appropriateness of the statistic used correctly <25%	<input type="checkbox"/> 4 marks Appraise the appropriateness of the statistic used correctly 25-50%	<input type="checkbox"/> 6 marks Appraise the appropriateness of the statistic used correctly 51-75%	<input type="checkbox"/> 8 marks Appraise the appropriateness of the statistic used correctly >75%
<input type="checkbox"/> 2 marks Appraise the reliability of the result correctly <25%	<input type="checkbox"/> 4 marks Appraise the reliability of the result correctly 25-50%	<input type="checkbox"/> 6 marks Appraise the reliability of the result correctly 51-75%	<input type="checkbox"/> 8 marks Appraise the reliability of the result correctly >75%
<input type="checkbox"/> 2 marks Appraise the limitations and implication of the research correctly <25%	<input type="checkbox"/> 4 marks Appraise the limitations and implication of the research correctly 25-50%	<input type="checkbox"/> 6 marks Appraise the limitations and implication of the research correctly 51-75%	<input type="checkbox"/> 8 marks Appraise the limitations and implication of the research correctly >75%
<input type="checkbox"/> 2 marks Appraise the gap of the research correctly <25%	<input type="checkbox"/> 3 marks Appraise the gap of the research correctly 25-50%	<input type="checkbox"/> 4 marks Appraise the gap of the research correctly 51-75%	<input type="checkbox"/> 6 marks Appraise the gap of the research correctly >75%

III. Summarize the clinical research and generate the standard scientific presentation using proper presentation tools and presentation skill (20 marks)

3.1 Quality of slide presentation materials

<input type="checkbox"/> 2 marks	<input type="checkbox"/> 4 marks	<input type="checkbox"/> 6 marks	<input type="checkbox"/> 8 marks
Difficult to read Misspelling >75% of slides Copy all of the content in slides, no summary	Difficult to read 51-75% Misspelling 51-75% Copy 51-75% of all content of the study	Difficult to read 25-50% Misspelling 25-50% Copy 25-50% of all content of the study	Easy to read No misspelling Perfect summary

3.2 Scientific contents

<input type="checkbox"/> 2 marks	<input type="checkbox"/> 4 marks	<input type="checkbox"/> 6 marks	<input type="checkbox"/> 8 marks
Speak hardly heard and unclear Distracted action >45% No eye contact	Speak unclear 51-75% Distracted action 51-75% Eye contact 25-50%	Speak unclear 25-50% Distracted action 25-50% Eye contact 51-75%	Speak loud and clear No distracted action Eye contact with audiences

3.3 Timing

<input type="checkbox"/> 1 marks	<input type="checkbox"/> 2 marks	<input type="checkbox"/> 3 marks	<input type="checkbox"/> 4 marks
> 30 minutes	26-30 minutes	21-25 minutes	≤ 20 minutes

IV. Compose the critical appraisal in tropical diseases by using standard guidelines and evidence-based summary required for basis of conducting tropical medicine clinical research (20 marks)

4.1 Using standard guidelines to criticize the research correctly according to the research methodology

<input type="checkbox"/> 0 marks	<input type="checkbox"/> 5 marks
Not used standard guidelines or mismatch with the research methodology	Using standard guidelines to criticize the research correctly according to the research methodology

4.2 Criticize correctly by using checklist from the standard guidelines

<input type="checkbox"/> 3 marks	<input type="checkbox"/> 7 marks	<input type="checkbox"/> 11 marks	<input type="checkbox"/> 15 marks
Criticize correctly <25% of checklist	Criticize correctly 25-50% of checklist	Criticize correctly 51-75% of checklist	Criticize correctly >75% of checklist

TMCD 535: Seminar in Tropical Medicine (Critical Appraisal)

Evaluation Form for Discussants

Lecturer _____

Role Supervisor Commentators Staff attendants

Date ____/____/____

Discussant: _____ (Total score____)

I. Criticize the scientific articles in research methodology and ethical consideration (50 marks)

1.1 Criticize in research methodology

<input type="checkbox"/> 8 marks Criticize important points correctly <25%	<input type="checkbox"/> 15 marks Criticize important points correctly 25-50%	<input type="checkbox"/> 22 marks Criticize important points correctly 51-75%	<input type="checkbox"/> 30 marks Criticize important points correctly >75%
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1.2 Criticize in ethical consideration

<input type="checkbox"/> 5 marks Criticize important points correctly <25%	<input type="checkbox"/> 10 marks Criticize important points correctly 25-50%	<input type="checkbox"/> 15 marks Criticize important points correctly 51-75%	<input type="checkbox"/> 20 marks Criticize important points correctly >75%
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II. Appraise the statistical analysis and the result of clinical research according to the standard guidelines (50 marks)

<input type="checkbox"/> 4 marks Appraise the appropriateness of the statistic used correctly <25%	<input type="checkbox"/> 7 marks Appraise the appropriateness of the statistic used correctly 25-50%	<input type="checkbox"/> 10 marks Appraise the appropriateness of the statistic used correctly 51-75%	<input type="checkbox"/> 14 marks Appraise the appropriateness of the statistic used correctly >75%
<input type="checkbox"/> 4 marks Appraise the reliability of the result correctly <25%	<input type="checkbox"/> 7 marks Appraise the reliability of the result correctly 25-50%	<input type="checkbox"/> 10 marks Appraise the reliability of the result correctly 51-75%	<input type="checkbox"/> 14 marks Appraise the reliability of the result correctly >75%
<input type="checkbox"/> 2 marks Appraise the limitations and implication of the research correctly <25%	<input type="checkbox"/> 5 marks Appraise the limitations and implication of the research correctly 25-50%	<input type="checkbox"/> 8 marks Appraise the limitations and implication of the research correctly 51-75%	<input type="checkbox"/> 11 marks Appraise the limitations and implication of the research correctly >75%
<input type="checkbox"/> 2 marks Appraise the gap of the research correctly <25%	<input type="checkbox"/> 5 marks Appraise the gap of the research correctly 25-50%	<input type="checkbox"/> 8 marks Appraise the gap of the research correctly 51-75%	<input type="checkbox"/> 11 marks Appraise the gap of the research correctly >75%