

## Course syllabus

### TMCD 526 Tropical Medicine Apprenticeship

#### 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 526
  - b. **Course Title:** Tropical Medicine Apprenticeship
3. **Number of credits:** 6 (3-6-9)
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:**  
History taking; differential diagnosis; laboratory test interpretations; plan of treatment, and clinical progression of inpatient and outpatient with tropical diseases
10. **Course expected learning outcomes:**  
The students should be able to
  1. Practice the history taking and perform physical examination essential for patients with tropical diseases
  2. Approach patient's problems and make differential diagnosis of tropical diseases
  3. Planning for appropriate investigation for tropical diseases
  4. Planning for appropriate management and prevention of common tropical diseases
  5. Develop and apply code of conduct in medical professionalism and reflect ethical consideration on patient care

#### 11. Course outline and constructive alignment

Week	Title	Hours			Instructor	Course Learning Outcome	Programme ELOs	Learning Activities	Assessment
		Lecture	Lab	Self-study					
1-15	Ward Round and Bed side teaching	45	90	135	All Department Staff (M.D.)	1,2,3,4,5	1,2	Bed side teaching, Case discussion, Q&A	Attendant Discussion using Rubric assessment Scale
	<b>Total</b>	<b>45</b>	<b>90</b>	<b>135</b>					

**12. Teaching and Learning Activities**

Ward Round, bed side teaching, case discussion, Q&A

**13. Teaching media**

Patient cases

Discussion

**14. Course achievement and evaluation**

Attend bed side teaching activities <sup>1</sup>	4%
Practice approaching cases <sup>2</sup>	36%
Objective structured clinical examination (OSCE)	30%
Long case examination <sup>3</sup>	30%

Note<sup>1</sup> Students must attend at least 80% of all activities

Note<sup>2,3</sup> Evaluations using online rubric scale for ward round and long case examination, 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:**

All medical staff of Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University

**18. Course responsibility:**

Asst Prof Supat Chamnanchanunt

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

**TMCD 526: Tropical Medicine Apprenticeship  
Evaluation Form**



Lecturer \_\_\_\_\_

Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Student Name: \_\_\_\_\_ (Total score\_\_\_\_)

<input type="checkbox"/> 0 mark Attend ward round late more than 15 min or absent	<input type="checkbox"/> 5 marks Attend late 1-15 min	<input type="checkbox"/> 10 marks Attend on time
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1. Practice the history taking and perform physical examination essential for patients with tropical diseases (20 marks)

<input type="checkbox"/> 3 marks Taking <25% important history of patient required for differential diagnosis	<input type="checkbox"/> 5 marks Taking 25-50% important history of patient required for differential diagnosis	<input type="checkbox"/> 8 marks Taking 51-75% important history of patient required for differential diagnosis	<input type="checkbox"/> 10 marks Taking >75% important history of patient required for differential diagnosis
<input type="checkbox"/> 3 marks Doing physical exam of patient correctly <25%	<input type="checkbox"/> 5 marks Doing physical exam of patient correctly 25-50%	<input type="checkbox"/> 8 marks Doing physical exam of patient correctly 51-75%	<input type="checkbox"/> 10 marks Doing physical exam of patient correctly >75%

Important history of patients: patient’s profile, chief complaint, present illness, past history, underlying disease, current medication, allergies to drug/foods, contact illness, vaccination, chemoprophylaxis, drug/substance abuse, travel history, exposures (pet, animals, unsafe sex, occupation, hobbies, hometown, food/drink habits)

2. Approach patient’s problems and make differential diagnosis of tropical diseases (30 marks)

<input type="checkbox"/> 3 marks Identify <25% of patient’s problems from history and physical exam	<input type="checkbox"/> 5 marks Identify 25-50% of patient’s problems from history and physical exam	<input type="checkbox"/> 8 marks Identify 51-75% of patient’s problems from history and physical exam	<input type="checkbox"/> 10 marks Identify >75% of patient’s problems from history and physical exam
<input type="checkbox"/> 5 marks Make the differential diagnosis correctly <25%	<input type="checkbox"/> 10 marks Make the differential diagnosis correctly 25-50%	<input type="checkbox"/> 15 marks Make the differential diagnosis correctly 51-75%	<input type="checkbox"/> 20 marks Make the differential diagnosis correctly >75%

3. Planning for appropriate investigation for tropical diseases (20 marks)

<input type="checkbox"/> 3 marks Choosing the appropriate investigation correctly <25%	<input type="checkbox"/> 5 marks Choosing the appropriate investigation correctly 25-50%	<input type="checkbox"/> 8 marks Choosing the appropriate investigation correctly 51-75%	<input type="checkbox"/> 10 marks Choosing the appropriate investigation correctly >75%
<input type="checkbox"/> 3 marks Interpret results of all investigations correctly <25%	<input type="checkbox"/> 5 marks Interpret results of all investigations correctly 25-50%	<input type="checkbox"/> 8 marks Interpret results of all investigations correctly 51-75%	<input type="checkbox"/> 10 marks Interpret results of all investigations correctly >75%

4. Planning for appropriate management and prevention of common tropical diseases (20 marks)

<input type="checkbox"/> 3 marks Choosing the appropriate management correctly <25%	<input type="checkbox"/> 6 marks Choosing the appropriate management correctly 25-50%	<input type="checkbox"/> 9 marks Choosing the appropriate management correctly 51-75%	<input type="checkbox"/> 12 marks Choosing the appropriate management correctly >75%
<input type="checkbox"/> 2 marks Plan the appropriate prevention correctly <25%	<input type="checkbox"/> 4 marks Plan the appropriate prevention correctly 25-50%	<input type="checkbox"/> 6 marks Plan the appropriate prevention correctly 51-75%	<input type="checkbox"/> 8 marks Plan the appropriate prevention correctly >75%

5. Develop and apply code of conduct in medical professionalism and reflect ethical consideration on patient care (10 marks)

<input type="checkbox"/> 0 mark – Speak to the patient impolitely – Do physical exam roughly	<input type="checkbox"/> 3 marks – Speak to the patient politely – Do physical exam gently (71-90% of total time)	<input type="checkbox"/> 5 marks – Speak to the patient politely – Do physical exam gently (>90% of total time)
<input type="checkbox"/> 0 marks Send investigations <u>without</u> consideration in psychosocial and economic aspects of patient	<input type="checkbox"/> 3 marks Send investigations carefully with consideration in psychosocial and economic aspects of patient (71-90% of all investigations)	<input type="checkbox"/> 5 marks Send investigations carefully with consideration in psychosocial and economic aspects of patient (>90% of all investigations)

**TMCD 526: Tropical Medicine Apprenticeship**  
**Long case examination**



Examiner \_\_\_\_\_

Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Student Name: \_\_\_\_\_ (Total score \_\_\_\_\_)

1. Practice the history taking and perform physical examination essential for patients with tropical diseases (20 marks)

<input type="checkbox"/> 3 marks Taking <25% important history of patient required for differential diagnosis	<input type="checkbox"/> 5 marks Taking 25-50% important history of patient required for differential diagnosis	<input type="checkbox"/> 8 marks Taking 51-75% important history of patient required for differential diagnosis	<input type="checkbox"/> 10 marks Taking >75% important history of patient required for differential diagnosis
<input type="checkbox"/> 3 marks Doing physical exam of patient correctly <25%	<input type="checkbox"/> 5 marks Doing physical exam of patient correctly 25-50%	<input type="checkbox"/> 8 marks Doing physical exam of patient correctly 51-75%	<input type="checkbox"/> 10 marks Doing physical exam of patient correctly >75%

Important history of patients: patient’s profile, chief complaint, present illness, past history, underlying disease, current medication, allergies to drug/foods, contact illness, vaccination, chemoprophylaxis, drug/substance abuse, travel history, exposures (pet, animals, unsafe sex, occupation, hobbies, hometown, food/drink habits)

2. Approach patient’s problems and make differential diagnosis of tropical diseases (30 marks)

<input type="checkbox"/> 3 marks Identify <25% of patient’s problems from history and physical exam	<input type="checkbox"/> 5 marks Identify 25-50% of patient’s problems from history and physical exam	<input type="checkbox"/> 8 marks Identify 51-75% of patient’s problems from history and physical exam	<input type="checkbox"/> 10 marks Identify >75% of patient’s problems from history and physical exam
<input type="checkbox"/> 5 marks Make the differential diagnosis correctly <25%	<input type="checkbox"/> 10 marks Make the differential diagnosis correctly 25-50%	<input type="checkbox"/> 15 marks Make the differential diagnosis correctly 51-75%	<input type="checkbox"/> 20 marks Make the differential diagnosis correctly >75%

3. Planning for appropriate investigation for tropical diseases (20 marks)

<input type="checkbox"/> 3 marks Choosing the appropriate investigation correctly <25%	<input type="checkbox"/> 5 marks Choosing the appropriate investigation correctly 25-50%	<input type="checkbox"/> 8 marks Choosing the appropriate investigation correctly 51-75%	<input type="checkbox"/> 10 marks Choosing the appropriate investigation correctly >75%
<input type="checkbox"/> 3 marks Interpret results of all investigations correctly <25%	<input type="checkbox"/> 5 marks Interpret results of all investigations correctly 25-50%	<input type="checkbox"/> 8 marks Interpret results of all investigations correctly 51-75%	<input type="checkbox"/> 10 marks Interpret results of all investigations correctly >75%

4. Planning for appropriate management and prevention of common tropical diseases (20 marks)

<input type="checkbox"/> 3 marks Choosing the appropriate management correctly <25%	<input type="checkbox"/> 6 marks Choosing the appropriate management correctly 25-50%	<input type="checkbox"/> 9 marks Choosing the appropriate management correctly 51-75%	<input type="checkbox"/> 12 marks Choosing the appropriate management correctly >75%
<input type="checkbox"/> 2 marks Plan the appropriate prevention correctly <25%	<input type="checkbox"/> 4 marks Plan the appropriate prevention correctly 25-50%	<input type="checkbox"/> 6 marks Plan the appropriate prevention correctly 51-75%	<input type="checkbox"/> 8 marks Plan the appropriate prevention correctly >75%

5. Develop and apply code of conduct in medical professionalism and reflect ethical consideration on patient care (10 marks)

<input type="checkbox"/> 0 mark – Speak to the patient impolitely – Do physical exam roughly	<input type="checkbox"/> 3 marks – Speak to the patient politely – Do physical exam gently (71-90% of total time)	<input type="checkbox"/> 5 marks – Speak to the patient politely – Do physical exam gently (>90% of total time)
<input type="checkbox"/> 0 marks Send investigations <u>without</u> consideration in psychosocial and economic aspects of patient	<input type="checkbox"/> 3 marks Send investigations carefully with consideration in psychosocial and economic aspects of patient (71-90% of all investigations)	<input type="checkbox"/> 5 marks Send investigations carefully with consideration in psychosocial and economic aspects of patient (>90% of all investigations)