

Course syllabus

TMCD531 Tropical Clinical Pathology

1. **Institute** Mahidol University
Faculty/Department Faculty of Tropical Medicine, Department of Clinical Tropical Medicine
2. **Course Name:**
 - a. **Course Code:** TMCD 531
 - b. **Course Title:** Tropical Clinical Pathology
3. **Number of credits:** 1 (1-0-2)
4. **Programme use:** Master of Clinical Tropical Medicine
5. **Prerequisite:** None
6. **Type of Course:** Elective Subject
7. **Condition: class size:** minimum 5, maximum 20
8. **Session/Academics year:** The second semester of each academic year

9. **Course description:**

Wide range of tropical laboratory including diagnosis, management and further prevention. Study on blood smear, urine interpretation, microbial and viral culture, blood chemistries in corporation with clinical findings for management the patients with tropical diseases

10. **Course expected learning outcomes:**

The students should be able to

- 1) Explain the basic knowledge and clinical application of tropical clinical pathology
- 2) Apply the knowledge of tropical clinical pathology to the patients with tropical diseases
- 3) Interpret laboratory findings and plan for proper treatment for the patients with 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	Overview of Clinical Tropical Pathology	2	0	4	Asst Prof Supat		2.1,3.1	PowerPoint Presentation	Attendance, student participation, discussion
2	Good Clinical Laboratory Practice and Interpretation in Clinical Tropical Pathology	1	0	2	Asst Prof Supat			PowerPoint Presentation, Case discussion	Attendance, student participation, discussion
3	Haematology and Tropical Diseases	2	0	4	Asst Prof Supat			Case demonstration and discussion	Attendance, student participation, discussion
4	Blood Bank and Tropical Diseases	2	0	4	Asst Prof Supat Blood bank staff of BHTD			Case demonstration, blood bank practice and discussion	Attendance, student participation, discussion
5	Biochemistry and Tropical Diseases	2	0	4	Asst Prof Supat			Case demonstration and discussion	Attendance, student participation, discussion
6	Urinalysis	3	0	6	Assoc Prof Varunee Assoc Prof Vipa Asst Prof Supat			Case demonstration and discussion	Attendance, student participation, discussion
7	Bacteriology and Virology	3	0	6	Asst Prof Viravarn Luvira			Case demonstration, laboratory demonstration and discussion	Attendance, student participation, discussion
	Total	15	0	30					

11. Teaching and Learning Activities

PowerPoint presentations for case and laboratory demonstration and discussion

12. Teaching media

PowerPoint presentations

Case demonstration

Discussion

13. Course achievement and evaluation

Attendance of academic activity 20%

Participation and quality of practices in special clinics 80%

(Students must attend at least 80% of all activities.)

14. Course evaluation

Questionnaires after the end of lecture and suggestion for the course

Discussion and comments session at the end of the course

15. References

- 15.1 Young SA, Poulsen KB. Anderson's Atlas of Hematology. 2nd revised North American ed. Lippincott Williams and Wilkins; 2013.
- 15.2 Mandell GL, Bennett JE, Dolin R. Mandell Douglas, and Bennett's Principle and Practice of Infectious Disease. 7th ed. Philadelphia: Churchill Livingstone; 2010.
- 15.3 Nayak R, Rai S, Gupta A. Essentials in Hematology & Clinical Pathology. 1st ed. Jaypee Brothers Medical Publisher Private Limited; 2012.
- 15.4 Cook GC, Zomula AI. Manson's Tropical Disease. 21st ed. Philadelphia: Saunders Elsevier; 2008.
- 15.5 Shamil E, Ravi P, Chariadra A. 100 Cases in Clinical Pathology. CRC Press; 2014.
- 15.6 Harmening DM. Modern Blood Banking & Transfusion Practices. 6th ed. F.A. Davis Company; 2012.

16. Instructors:

Asst Prof Supat Chamnanchanunt

Assoc Prof Varunee Desakorn

Assoc Prof Vipha Thanachartwet

Asst Prof Viravarn Luvira

Blood bank staffs of Hospital for Tropical Diseases

17. Course responsibility:

Asst Prof Supat Chamnanchanunt

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