

Modul designation	Tropical Medicine System
Semester in which the module is taught	6th Semester of Academic/Bachelor Stage
Person responsible for the module	<ol style="list-style-type: none"> 1. Julia Hartati., dr 2. Ratna Dewi Indi,dr., MKes. 3. Ismawati, dr., MKes. 4. Mia Yasmina,dr., SpKK. 5. Winni Maharani,dr., MKes.
Language	Bilingual (Indonesia & English)
Relation to curriculum	Compulsory
Teaching methods	<ul style="list-style-type: none"> - Lecture - Tutorial - Laboratory activity
Workload	<p>Total workload : 7 weeks</p> <p>Contact hours : Lecture 2 hours/week</p> <p style="padding-left: 40px;">Tutorial 3 hours/meeting (3 meeting/week)</p> <p style="padding-left: 40px;">Laboratory activity 3 hours/meeting</p>
Credit points	10 ECTS (7 SKS)
Required & recommended prerequisites for joining the module	Learning course at 1 st -5 th semester
Module Objective	<p>At the end of course, students will be able to:</p> <ol style="list-style-type: none"> 1. Correlating organ microstructure with tropical diseases (C3) 2. Correlating the macrostructure of organ systems with tropical disease systems. (C3) 3. Describe the physiology of organs associated with tropical diseases. (C4) 4. Describe the process of thermoregulation and types of fever. (C4) 5. Describe skin efflorescence associated with tropical diseases. (C4) 6. Explain the morphology and characteristics, virulence, and examination of microorganisms related to tropical diseases. (C2) 7. Explain the morphology and life cycle of vectors related to

	<p>tropical diseases. (C2)</p> <ol style="list-style-type: none"> 8. Describe the virulence and infection processes associated with tropical diseases. (C4) 9. Describe the body's immune response to bacterial, viral, fungal, and parasitic infections related to tropical diseases. (C4) 10. Explain the definition of tropical disease disorders (viral, bacterial, parasite, fungal and worm infections). (C2) 11. Explain the etiology of tropical disease disorders (viral, bacterial, parasite, fungal and worm infections). (C2) 12. Explain the classification of tropical disease disorders (viral, bacterial, parasitic, fungal and worm infections). (C2) 13. Relate clinical manifestations to the pathogenesis and pathophysiology of tropical disease disorders (viral, bacterial, parasite, fungal and worm infections) in accordance with the principles of clinical medicine. (C3,A4) 14. Relate efflorescence to the pathogenesis and pathophysiology of tropical disease disorders (viral, bacterial, parasite, fungal and worm infections) in accordance with the principles of clinical medicine. (C3) 15. Analyze the pathogenesis and pathophysiology of tropical disease disorders (viral, bacterial, parasite, fungal and worm infections) (C4, A4) 16. Explain clinical pathology findings and histopathological features related to viral, bacterial, fungal, and parasitic infectious diseases. (C2) 17. Correlate clinical pathology findings and histopathological features with viral, bacterial, fungal, and parasitic infectious diseases. (C3, A4, P3) 18. Summarize clinical pathology findings and histopathological features related to viral, bacterial, fungal, and parasitic infectious diseases. (C5, A4, P3) 19. Summarize the differential diagnosis, diagnosis, and management of viral, bacterial, fungal, and parasitic infectious diseases. (C5) 20. Describe the complications and prognosis of viral, bacterial, fungal, and parasitic infectious diseases. (C4) 21. Describe the prevention and rehabilitation of viral, bacterial, fungal, and parasitic infectious diseases. (C4) 22. Behave politely, ethically, and professionally in communicating in accordance with the principles of bioethics, humanities, and Islamic values. (A4)
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	23. Applying the principles of communication, humanities, professional ethics, and Islamic values in managing tropical disease systems. (A4)
Content	Tropical medicine system provide student with knowledge about basic medical science and clinical medical science related to tropical disease cases, but are also given clinical skills and strengthened basic medical knowledge.
Examination forms	Multidisciplinary Examination (MDE), SOOCA, Lab exam
Study and examination requirements	System Pass Criteria : Minimum MDE, SOOCA and Lab exam score 55.5 (C)
Reading list	<ol style="list-style-type: none"> 1. Gubler DJ, Kuno G. Dengue Hemorrhagic Fever. CAB International, New York 2. Halstead S.B. Dengue Fever and Dengue Hemorrhagic Fever. In : Behrman, R.E; Kliegman R.M. and Jenson H.B (eds.) 3. Nelson textbook of Pediatrics, 20 ed., Saunders, International ed., Philadelphia, Pennsylvania 4. Woodward, T. F. The Fever Pattern as a Diagnostic Aid. In : Mackowiak, P.A (ed.), Fever : Basic Mechanism and Management, 2nd ed., Lippincott-Raven, Philadelphia-New York 5. WHO. Dengue Hemorrhagic Fever. Diagnosis, Prevention and Control. Geneva 6. Pedoman Diagnosis dan Tatalaksana Infeksi Virus Dengue pada Anak, IDAI 7. Current concept dengue infection, NEJM 8. Ahmad N, Reller LB, Alspaugh JA, Reller ME, Drew WL, Sterling CR, et al. Sherris Medical Microbiology. 7th ed. Ryan KJ, editor. New York: McGraw Hill Education 9. Cleary T.G. Enteric Fever in Behrman R.E, Kliegman R.M, and Jenson H.B (Eds.), Nelson Textbook of Pediatrics, 17th ed., International Ed., Saunders, Philadelphia 10. Gillespie. Salmonella Infection in Cook, G.C and Zumla, A.I (eds) Manson's Tropical Diseases, 21th eds., W.B Saunders, Philadelphia 11. Trevor AJ, Katzung BG,Master SB, Katzung & Trevor's Pharmacology Examination & Board Review. Eight Edition, Mc Graww Hills. 12. Kumar V, et all, Robin's and Cotran Pathologic Basis of Disease, eight edition. Saunder's Elsevier 13. Junqueira LC, Carneiro J, Basic Histology Texts and Atlas, Eleven Edition. McGraw-Hill 14. Harrison's Principles of Internal Medicine, Twentieth Edition. 15. Manson's Tropical Diseases, 21st edition 16. Nelson Textbook of Pediatrics, 17th edition 17. Harrison Internal Medicine

18. WHO, Guidelines for severe falciparum malaria
19. Panduan DepKes "Tata laksana malaria" (terbaru)
20. Rippon JW. Medical Mycology. WB Saunders Co. Philadelphia,
21. Arnold HL, Odom RB, James WD. Andrews' Diseases of the Skin. WB Saunders Co. Philadelphia
22. Odom RB, James WD, Berger TG. Andrews' diseases of the skin clinical dermatology. 9th ed. Philadelphia : WB Saunders Co.,473 - 491.
23. Straus SE, Schmader KE, Oxman NM. Varicella and herpes zoster. In : Freedberg IM, Eisen AZ, Wolff K, Austen KF, eds. Fitzpatrick's Dermatology in General Medicine. 6th ed. New York : Mc Graw - Hill : 1Inc.
24. Murray PR, Rosenthal KS, Pfaller MA. Medical Microbiology. 8th ed. Merritt J, DeFrancesco K, Jackson C, Howell R, Salisbury B, editors. Philadelphia: Elsevier Inc.
25. Walter F Boron, Emile L Boulpaep. Medical Physiology third edition. Elvisier.
26. Lauralee Sherwood. Human Physiology From Cells to Systems Sixth Edition. Thomson Brooks/Cole.