

International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

Introduction to Clinics

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
Introduction to Clinics	11. Committee	Spring Semester	107+18	0	12
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Committee				
Course Coordinator	Assist.Prof. Nihan VERİMLİ				
Name of Lecturer(s)	Assist.Prof. Nihan VERİMLİ				
Assistant(s)					
Aim	The aim of this committee is; to provide an understanding of basic knowledge of the microbiological characteristics, pathogenesis and clinical consequences of the causative agents of infectious diseases, the basic principles applied in the prevention and control of these diseases, the functioning of microbiology and pathology laboratories; general pharmacokinetic, pharmacodynamic, pharmacogenetic properties of drugs; information on the principles of history taking, physical examination and healthy growth and development in the child patient; epidemiological and demographic methods used to assess public health; preventive medicine and improving health service principles.				
Course Content	This course contains; PUBLIC HEALTH: The relationship between health and disease with social, environmental, economic and cultural variables; epidemiological and demographic methods used to provide information on community health; preventive medicine and promoting health service principles; the most frequently using health indicators,CHILD HEALTH and DISEASES: Child health indicators; growth and development; history taking and physical examination; hypersensitivity reactions; endocrine diseases,PHARMACOLOGY: General pharmacokinetic, pharmacodynamic and pharmacogenetic properties of drugs; autacoids and antimicrobial agents,MEDICAL MICROBIOLOGY: The microbiological characteristics of the bacteria and the diseases they cause; operation of microbiology laboratory, methods used for detection of bacteria from clinical specimens and bacterial identification tests.,MEDICAL PATHOLOGY: Cell, tissue damage and repair mechanisms and clinical outcomes, inflammation; pathogenesis and clinical outcomes of infectious diseases and hemodynamic balance disorders; the role of pathology laboratory.,INFECTIOUS DISEASES: The routes of transmission and pathogenesis of infectious diseases agents , prevention and control of infectious diseases; general principles of vaccination and antimicrobial use.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Describes the damage response of cell and tissue to the agent; explains types, causes, mechanisms, morphological and basic clinical results of damage with examples			10, 16, 9	A	
Explains inflammation with types, pathogenesis and results			10, 16, 9	A	
Describes the pathogenesis of intracellular accumulations with examples			10, 16, 9	A	
Explains the routes of transmission of infectious disease agents; pathogenesis, prevention and control of infectious diseases.			10, 16, 9	A	
Explains fluid, electrolyte and hemodynamic equilibrium and describe the pathogenesis and clinical results of disorders			14, 16, 17, 9	A	
Defines the bacteria that causes infectious diseases and explains the diseases they cause with microbiological and pathological features.			14, 16, 17, 9	A	
Explains general pharmacokinetic, pharmacodynamic and pharmacogenetic properties of drugs			16, 9	A	
Explains the mechanism of action, pharmacokinetics, pharmacodynamics, pharmacogenetic properties, toxic effects, drug interactions and clinical use of antimicrobial drugs			14, 16, 17, 9	A	
Explains the mechanism of action, pharmacokinetics, toxic effects, drug interactions and clinical use of autacoids			14, 16, 17, 9	A	
Knows the principles of anamnesis, physical examination in a child patient and specify vital signs			17	A	
Has knowledge about the principles of healthy growth and development in children, knows the community criteria on these subjects			16, 9	A	
Has a basic knowledge about microbiology and pathology laboratories			14, 16, 17, 9	A	
Practices microbiological microscopy and culture and makes basic interpretations			14, 16, 17, 9	A	
Knows the principles of vaccination in adults and children			14, 16, 17, 9	A	
Knows the general principles of antimicrobial usage and acts according to these principles			14, 16, 17, 9	A	
Provide information on epidemiological and demographic methods used to evaluate public health; to teach preventive medicine and developmental health service principles.			16, 9	A	
Teaching Methods	10: Discussion Method, 14: Self Study Method, 16: Question - Answer Technique, 17: Experimental Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	PUBLIC HEALTH: The relationship between health and disease with social, environmental, economic and cultural variables; epidemiological and demographic methods used to provide information on community health; preventive medicine and promoting health service principles; the most frequently using health indicators				
2	CHILD HEALTH and DISEASES: Child health indicators; growth and development; history taking and physical examination; hypersensitivity reactions; endocrine diseases				
3	PHARMACOLOGY: General pharmacokinetic, pharmacodynamic and pharmacogenetic properties of drugs; autacoids and antimicrobial agents				
4	MEDICAL MICROBIOLOGY: The microbiological characteristics of the bacteria and the diseases they cause; operation of microbiology laboratory, methods used for detection of bacteria from clinical specimens and bacterial identification tests.				
5	MEDICAL PATHOLOGY: Cell, tissue damage and repair mechanisms and clinical outcomes, inflammation; pathogenesis and clinical outcomes of infectious diseases and hemodynamic balance disorders; the role of pathology laboratory.				

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Lecture Schedule		
Sequenc e	Topics	Preliminary Preparation
6	INFECTIOUS DISEASES: The routes of transmission and pathogenesis of infectious diseases agents , prevention and control of infectious diseases; general principles of vaccination and antimicrobial use	
Evaluation Methods		Weight(%)
Midterm Exam		60
General Exam		40

Resources
<p>1. Jawetz, Melnick, & Adelberg's Medical Microbiology 28th ed. McGraw-Hill Education; 2019. 2. Murray PR, Rosenthal KS, Pfaller MA. Medical microbiology. 8th ed. Philadelphia: Mosby/Elsevier; 2016. 3. Kayaalp, SO: Rasyonel Tedavi Yönünden Tıbbi Farmakoloji, Ankara. 4. Hardman JG, Limbird LE, Eds.: Goodman and Gilman's The Pharmacological Basis of Therapeutics, New York. 5. Katzung & Trevor: Farmakoloji, Ankara.</p> <p>5. Robbins Basic pathology 10th ed. Elsevier; 2017.</p> <p>6. Enfeksiyon Hastalıkları. Halil Kurt, Sibel Gündes, Mehmet Faruk Geyik (Editörler); Nobel Tıp Kitabevleri. 7. İnfeksiyon Hastalıkları ve Mikrobiyolojisi. Ayşe Wilke Topçu, Güner Söyletir, Mehmet Doğanay (Editörler); Nobel Tıp Kitabevleri. 8. Medikal Tedavi. İsfendiyar Candan (Editör); ANTIP AŞ Yayınları. 9. İnfeksiyon Hastalıkları. İsfendiyar Candan, Doğanay Alper, Şinasi Yavuzer (Editörler); ANTIP AŞ Yayınları. 10. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. John E. Bennett, Raphael Dolin, Martin J. Blaser (Editors); Elsevier Saunders. 11. UpToDate (http://www.uptodate.com)</p> <p>12. Nelson Essentials of Pediatrics 21th ed. Elsevier; 2019. 13. Prof. Dr. Olcay NEYZİ, Prof. Dr. Türkan ERTUĞRUL Çocuk Göğüs Hastalıkları- Prof. Dr. Elif Dağlı, Doç. Dr. Fazilet Karakoç.</p> <p>13. Applied Demography and Public Health. Nazrul Hoque, Mary A. McGehee, Benjamin S. Bradshaw (Eds.), Springer, 2013. 14. Epidemiology: Principles and Practical Guidelines. Jan Van den Broeck, Jonathan R. Brestoff, Eds., 2013, Springer. 15. Epidemiology and Demography in Public Health. Japhet Killewo (Ed. In Chief), H. Kristian Heggenhougen, Stella R. Quah (Eds.), 2010, Elsevier. 16. Modern Methods for Epidemiology" Yu-Kang Tu, Darren C. Greenwood (Eds.), Springer, 2012.</p>