



INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	General medicine
Qualification of the graduate:	General practitioner / Medical doctor
Year:	2022-2023
Semester:	9
Course duration:	18 weeks
Instructor/Assistant	Name:
Department:	Infectious diseases
Day and Time for consultation:	
Classroom:	East medical campus, 7 April street, 6
e-mail:	
Course Title:	Infectious diseases
Must/Elective:	Must
Credit/Hours:	5/180
Course Description:	<p>Course “Infectious diseases” is an integral fundamental part of the clinical training of a specialist. As a result of studying this discipline, students develop important professional skills in examining patients with infectious diseases, the basics of clinical thinking, as well as medical ethics. Without mastering these main components perfectly, it is difficult to count on a sufficiently high-quality training of a doctor of any specialty. The purpose of teaching the course of infectious diseases is to teach methods of examination of patients with acute intestinal and respiratory infections, infections with neurologic disorders and especially dangerous, diagnostic rules, principles of therapy and rehabilitation of patients.</p>
Course Objectives:	<ol style="list-style-type: none">1. To familiarize students with the basic concepts and modern concepts of general nosology about the most common infectious diseases.2. Master the basic methods of clinical and laboratory examination of patients with infectious diseases.3. To study nosological forms related to the competence of a general practitioner.4. To master the most important approaches to the treatment of infection diseases.5. Acquire the practical skills necessary to recognize the most common infection diseases.

	<p>6. To familiarize with preventive measures to prevent the spread of infectious diseases.</p> <p>7. To form the methodological and methodological foundations of clinical thinking and rational action of a doctor among students.</p>
<p>Prerequisites:</p>	<p>The discipline "Infectious diseases" is studied by students of the specialty Medicine (for foreign citizens) and is included in the variable part of C.3. in the professional block of the studied disciplines of the State Higher Educational Institution.</p>
<p>Post-requisites:</p>	<p>The content of the discipline "Infectious diseases" is based on the content of such previous disciplines as:</p> <ul style="list-style-type: none"> - on the anatomy of the internal organs and systems: the structure of the gastro-intestinal tract, respiratory tract, central nervous system and others vital systems. - on the pathological anatomy and histology of the internal organs and systems including cardio-vascular, nervous systems etc. Histological examination of damage organs biopsy material under a microscope. - microbiology: morphology of pathogenic and conditionally pathogenic microorganisms for human internal organs and systems and their actions, virulence and general patterns of development of infectious processes. - on biochemistry: the chemical nature of skin cells, organs and systems, as well as the chemical processes underlying the vital activity of cells and interaction with their functions. - on the physiology of the organs and systems: embryogenesis of intrauterine development of the different internal organs and systems. Organ functions and their participation in vital processes, such as digestion, metabolic processes, blood supply, respiration etc. - on the pathophysiology of the internal organs and systems: the main patterns of the occurrence, development and outcome of infection diseases depending on which organ is affected. The pathogenesis of inflammatory and allergic reactions, as well as the development of the infectious process and the immune response to the introduction of a pathogenic agent. - according to pharmacology: medicines belonging to the groups of antiviral, antifungal, antimicrobial, antihistamine, anti-inflammatory, desensitizing,

	<p>restorative drugs, as well as the composition of external medicines.</p> <p>The knowledge of students obtained at the Department of Infectious Diseases can later be used in the study of other clinical disciplines of a therapeutic and surgical profile. The studied section also covers emergencies associated with infectious diseases, such as edema and swelling of the brain, various types of shock and coma, which are also an integral part of the skills of a general practitioner.</p>
<p>Learning Outcomes: (expected knowledge & ability at the end)</p>	<p>After mastering the discipline "Infectious diseases", the student:</p> <p>will know:</p> <ol style="list-style-type: none"> 1. methods of sanitary and educational work; 2. etiology, pathogenesis and prevention measures of the most common diseases; modern classification of diseases; 3. methods of clinical, laboratory, instrumental examination of patients; 4. fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, principles of medical examination of the population, rehabilitation of patients; 5. criteria for the diagnosis of various diseases; 6. features of the organization and scope of work of an outpatient doctor, modern diagnostic capabilities of the polyclinic service, methods of emergency measures, indications for planned hospitalization of patients; 7. types of inheritance of diseases and clinical manifestations of hereditary pathology, general characteristics of diseases with hereditary predisposition, general principles and features of diagnosis of hereditary diseases, congenital anomalies; 8. features of the organization of work with patients with HIV infection; 9. the main clinical manifestations of infection diseases. <p>will be able to:</p> <ol style="list-style-type: none"> 1. Collect anamnesis from a patient with infectious diseases. 2. Examine the anatomic and functional state of internal organs and systems in adults. 3. To identify the main pathognomonic symptoms of infectious diseases

	<ol style="list-style-type: none"> 4. To identify acute complications of infectious diseases, to prevent their occurrence. 5. To identify the development of emergency conditions that are characteristic of infectious diseases, as well as to determine the tactics of managing such patients Apply external dosage forms for various dermatoses, work in a dressing room. 6. Prescribe correct and timely drug therapy for patients with infectious diseases. 7. To determine the tactics of managing patients with infectious diseases, to prevent complications. 8. Help the patient undergo rehabilitation after an infectious disease. 9. Assign the correct laboratory and instrumental examination to patients with infectious diseases. 10. To make a differential diagnosis with other therapeutic and surgical diseases that have similar symptoms with infectious diseases. <p>will own:</p> <ol style="list-style-type: none"> 1. proper maintenance of medical records; 2. methods of general clinical examination; 3. interpretation of the results of laboratory, instrumental diagnostic methods; 4. by the algorithm of a detailed clinical diagnosis; 5. the algorithm of making a preliminary diagnosis with the subsequent referral of the patient to the appropriate specialist doctor; 6. the main medical diagnostic and therapeutic measures for the provision of first aid; 7. the principles of evidence-based medicine based on the search for solutions using theoretical knowledge and practical skills
<p>Basic references:</p>	
<p>Supplementary Textbook and Materials:</p>	<p>Literature:</p> <p>John E. Bennett; Raphael Dolin; Martin J. Blaser / Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, ed.9 / 2020.</p> <p>Dennis L. Kasper; Anthony S. Fauci / Harrison's Infectious Diseases, ed.3 / 2017.</p> <p>Jeremy Farrar; Peter J. Hotez; Thomas Junghanss; Gagandeep Kang; David Lalloo; Nicholas J. White / Manson's Tropical Diseases / 2013.</p> <p>William F. Wright / Essentials of Clinical Infectious Diseases, Second Edition. / 2018.</p>

Timothy P. Endy; Tom Solomon; David R. Hill; Naomi Aronson / Hunter's Tropical Medicine and Emerging Infectious Disease, ed. 10 / 2020.

Joseph Domachowske / Introduction to Clinical Infectious Diseases / 2019.

Kenrad E. Nelson; Carolyn Williams / Infectious Disease Epidemiology, 3rd ed. / 2013.

Barry R. Bloom; Paul-Henri Lambert / The Vaccine Book / 2016.

John A. Marx, Robert S. Hockberger, Ron M. Walls / Rosen's Emergency Medicine: Concepts and Clinical Practice, Sixth Edition, 3 volume / 2006.

Judith Tintinalli, J. Stapczynski, O. John Ma, Donald Yealy, Garth Meckler, David Cline / Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 8th edition / 2018.

Frank H. Netter / Netter's infectious diseases/ 2011.

John G. Bartlett / Management of respiratory tract infections / 2 edition. 2000.

K.-P. Meyer / Hepatitis and the consequences of hepatitis / 1999.

Robert M. Kliegman / Nelson textbook of pediatric/ edition 20. 2016.

Ronald T.D. Emond, H.A.K. Rowland, Philip D. Welsby / Color atlas of infectious diseases / 1998.

S.N. Sorrinson / Viral hepatitis / 1997.

The list of resources of the information and telecommunication network "Internet" necessary for the development of the discipline: www.kyrlibnet.kg.

- www.who.int

- www.iprbookshop.ru.

- www.consilium-medicum.com.

- www.cdc.gov

- www.medportal.ru.

- www.studmedlib.ru.

	<ul style="list-style-type: none"> - www.nejm.org - www.clinicianreviews.com
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COURSE POLICY AND EVALUATION CRITERIA:

Type of control (current, milestone, final)	Control form	Assessment of learning outcomes
Attendance	For one missed lesson minus 2 points	20 points
Current control	Oral survey, written work	20 points
IWS+IWW	Performing assignments, work with literature	20 points
Milestone control (modul submission)	Testing, control tasks	40 points
Final control (differential test)	Conversation, examination (test.edu.kg)	100 points

Scale of correspondence between grades and scores on the final control (exam)	
Score	Grade
90-100	«excellent»
76-89	«good»
60-75	«satisfactory»
0-59	«unsatisfactory»

Course Plan	Lecture / Practice	Subject
1 week	Lecture Practice	Typhoid and paratyphoid fever
2 week	Practice	Shigellosis. Amebiasis
3 week	Practice	Cholera
4 week	Lecture Practice	Salmonellosis. Food-borne toxic infection
5 week	Practice	Yersiniosis. Rotavirus infection
Modul 1 (Date)	Practice	Acute intestinal infections
6 week	Lecture Practice	Viral hepatitis A and E
7 week	Lecture Practice	Viral hepatitis B and D
8 week	Practice	Viral hepatitis C. Fulminant hepatitis
9 week	Lecture Practice	Influenza. Parainfluenza.

10 week	Lecture Practice	Adenovirus infection. RS-infection. Rhinovirus infection
<i>Modul 2 (Date)</i>	Lecture Practice	Viral hepatitis. Acute respiratory viral infections
11 week	Practice	Malaria
12 week	Practice	Typhus fever (Epidemic typhus. Brill's disease)
13 week	Practice	Meningococcal infection
14 week	Lecture Practice	Rabies. Tetanus
<i>Modul 3 (Date)</i>	Practice	Vector borne infections. Infections with neurologic disorders
15 week	Lecture Practice	Plague. Tularemia
16 week	Practice	Anthrax. Smallpox
17 week	Lecture Practice	Hemorrhagic fever with renal syndrome
18 week	Lecture Practice	Ebola and Marburg hemorrhagic fever