



INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	Epidemiology
Qualification of the graduate:	General practitioner / Medical doctor
Year:	2022-2023
Semester:	9
Course duration:	18 weeks
Instructor/Assistant/Professor	Name: Moldokanova R.K.
Department:	Public health
Day and Time for consultation:	Monday ,15.00
Classroom:	204
e-mail:	roza.moldokanova@mail.ru
Course Title:	Epidemiology
Must/Elective:	Must
Credit/Hours:	3
Course Description:	The discipline epidemiology refers to the variable cycle of the academic plan, is a variable discipline
Course Objectives:	The purpose of teaching the discipline "Epidemiology" is to acquire theoretical and practical knowledge on the epidemiology of infectious and non-infectious diseases, identify patterns of occurrence, spread and termination of diseases, organize and conduct anti-epidemic measures aimed at preventing, reducing and eliminating diseases of the population.
Prerequisites:	Latin language and basic terminology, anatomy, physiology, general pathology, virology, immunology, microbiology, ecology and environmental health, biostatistics, bioethics.
Post-requisites:	Public health and health care, Information activities for the protection and promotion of health.
Learning Outcomes: (expected knowledge & ability at the end)	The results of mastering the discipline are formed using the active verbs of Bloom's Taxonomy: After mastering this discipline, the student: Will know the general patterns of the emergence and spread of infectious, parasitic and non-infectious diseases among the population and in military teams. Causes and conditions, the mechanism of development and manifestation of the epidemic process among the population in certain nosological forms; Will understand the methodological and organizational foundations of epidemiological

	<p>surveillance of individual groups and nosological forms of infectious and parasitic diseases;</p> <p>Will be able to use the main types of epidemiological research to analyze population health indicators;</p> <p>Will be able to carry out the necessary anti-epidemic and preventive measures in the foci of certain groups and nosological forms of infectious and parasitic diseases;</p> <p>Will be able to analyze the incidence using statistical data to study the epidemiology of infectious diseases for a number of characteristics for a year or several years;</p> <p>Will be able to synthesize their knowledge to develop a work plan during various epidemiological situations;</p> <p>Will be able to evaluate the potential and actual effectiveness of individual anti-epidemic measures and their complex.</p>
Basic references:	
Supplementary Textbook and Materials:	<ol style="list-style-type: none"> 1. Ray M. Merrill “Introduction to Epidemiology” -Jones & Bartlett Learning, 2016. 2. J. E. Park " Community medicine"- Karachi, Pakistan, 2015 3. K. Park "Preventive and social medicine"- Mumbai, India, 2016. 4. Ann Aschengrau, ScD, George R. Seage, ScD “Essentials of Epidemiology in Public Health”, Jones & Bartlett Learning, 2020.

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		Theoretical foundations of epidemiology
2 week		Methods of epidemiological research
3 week		Epidemic process
4 week		Epidemiological diagnostics
5 week		Disease prevalence rates
6 week		Average values. Assessment of the reliability of indicators.
7 week		Organization of preventive and anti-epidemic measures
8 week		Organization of anti-epidemiological service
9 week		Epidemiological surveillance
Modul 1 (Date)	28.03- 31.03.2023г.	
10 week		Outbreak investigation basics
11 week		Epidemiology of infectious and parasitic diseases
12 week		Immunoprophylaxis of infectious diseases
13 week		Infection control in medical organizations
14 week		Organization of anti-epidemic support in emergency (extreme) situations
15 week		Epidemiology of noncommunicable diseases
16 week		Prevention of noncommunicable diseases
17 week		Clinical epidemiology. Evidence-based medicine.
18 week		Information technology in epidemiology
Modul2 (Date)	23.05- 26.05.2023г.	