



INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	General medicine
Qualification of the graduate:	General practitioner / Medical doctor
Year:	2023-2024
Semester:	4
Course duration:	18 weeks
Instructor/Assistant/Professor	Name: Kenzhebaev Sultan
Department:	Pathology
Day and Time for consultation:	
Classroom:	308,310
e-mail:	Sultan_kg05@mail.ru
Course Title:	Pathological physiology
Must/Elective:	Must
Credit/Hours:	3 credits
Course Description:	a branch of medicine and biology that studies the patterns of occurrence, development and outcome of pathological processes; features and nature of dynamic changes in physiological functions in various pathological conditions of the body.
Course Objectives:	The purpose of the discipline is to study the etiology, pathogenesis, functional foundations of pathological processes, acquired, congenital and hereditary diseases, their complications, outcomes, causes of death in order to use the acquired knowledge in practice in clinical departments and the work of a doctor.
Prerequisites:	molecular biology and medical genetics, biochemistry, anatomy, physiology, histology, microbiology, pharmacology
Post-requisites:	propaedeutics of internal diseases, childhood diseases, infectious diseases, cardiology and other clinical disciplines.
Learning Outcomes: (expected knowledge & ability at the end)	freely operate with modern data relating to issues of etiology, pathogenesis, manifestations and mechanisms of the development of the disease, syndromes and typical pathological processes, their clinical significance, modern possibilities for prevention, diagnosis and treatment; apply the acquired knowledge to solve most standard clinical situations
Basic references:	Kumar, Cotran, Robbins. General pathology Robbins Basic pathology.
Supplementary Textbook and Materials:	Pathology Practical Book, Harsh Mohan. Pathoma – Hussain Sattar

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 (weeks)	Practice	Subject
1	Practice	Hypertension. Types of primary and secondary hypertension and vascular changes in hypertension.
2	Practice	Atherosclerosis. Etiology, pathogenesis and complications of atherosclerosis differentiation between atherosclerosis, Monkeberg sclerosis sclerosis of medial calcifications and arteriolo-sclerosis.
3	Practice	Rheumatism or rheumatic fever in terms of aetiology, pathogenesis, morphological and clinical features. Consequences of rheumatic fever.
4	Practice	Cardiac malformations. Main features of tetralogy of Fallot and coarctation of the aorta, valvular heart defects and mitral valve prolapse.
5	Practice	Acute pneumonias: etiology, pathogenesis, morphology and clinical features, complications and clinical diagnosis of acute and chronic pneumonias, including atypical pneumonias.
6	Practice	Disorders associated with airflow obstruction disease. Bronchial asthma: Etiology, pathogenesis, morphology, morphology, clinical features and diagnosis of bronchial asthma.
7	Practice	Etiology, pathogenesis, morphology, clinical features and diagnosis: chronic obstructive pulmonary disease.
8	Practice	Diseases of the gastrointestinal tract. Predisposing factors, pathogenesis, morphological and

		clinical features of acute and chronic peptic ulcer disease. Gastritis.
9	Practice	Liver diseases. Types of jaundice taking into account the causes, clinical features and laboratory diagnostics. Causes, pathogenesis, complications of liver cirrhosis. Neonatal hepatitis.
Modul 1		
10	Practice	Renal diseases: etiology, pathogenesis, clinical features, complications. Azotemia, Uraemia, Acute renal failure, chronic renal failure. Insufficiency. Glomerulo-nephritis and its classification. Nephrotic and nephritic syndrome. Acute and chronic pyelonephritis.
11	Practice	Endocrine diseases: Diabetes mellitus: type 1 and 2, pathogenesis, morphology, clinical features, laboratory diagnosis and complications.
12	Practice	Gynaecological diseases: causes, routes of infection and diagnostic methods. Sexually transmitted diseases: micro-organisms pathogens, pathways of infection, pathogenesis and methods of diagnosis.
13	Practice	Lung cancer: Classification, etiology, pathogenesis and clinical features of various lung tumours.
14	Practice	Infectious diseases: etiology, pathogenesis and clinical features, clinical diagnosis of pulmonary tuberculosis.
15	Practice	Intestinal infections: etiology and treatment of acute and chronic diarrhoea (food poisoning), cholera, dysentery, botulism.
16	Practice	Acute respiratory infections: Covid.
17	Practice	Particularly dangerous infections. Tropical infections (malaria).
18	Practice	Sepsis. Paediatric bacterial infections.
Modul 2		

Lectures

Course Plan (weeks)	Subject
1	Hypertension. Types of primary and secondary hypertension and vascular changes in hypertension.
2	Atherosclerosis.
3	Rheumatism or rheumatic fever.
4	Acute pneumonias and chronic pneumonias, including atypical pneumonias.
5	Diseases of the gastrointestinal tract. Acute and chronic peptic ulcer disease. Gastritis.

6	Renal diseases: etiology, pathogenesis, clinical features, complications. Azotemia, Uraemia, Acute renal failure, chronic renal failure. Insufficiency.
7	Diabetes mellitus: type 1 and 2, pathogenesis, morphology, clinical features, laboratory diagnosis and complications.
8	Lung cancer: Classification, etiology, pathogenesis and clinical features of various lung tumours.
9	Acute respiratory infections: Covid.