



INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	General medicine
Qualification of the graduate:	General practitioner / Medical doctor
Year:	2022-2023
Semester:	3
Course duration:	18 weeks
Instructor	Name: Amanbekov Ilias
Department:	Pathology
Day and Time for consultation:	
Classroom:	308,310
e-mail:	Ilsgroup.0227@gmail.com
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	Practice	Subject
1 week	Practice	The subject and tasks of pathological physiology. Basic concepts of nosology. Etiology and pathogenesis, their relationship.
2 week	Practice	Growth Adaptations, Basic Principles Cellular Injury,
3 week	Practice	Cell Death. Apoptosis. Free radical injury. Amyloidosis
4 week	Practice	Inflammation. Acute inflammation.
5 week	Practice	Chronic inflammation. Wound Healing
6 week	Practice	Principles of Neoplasia. Basic principles. Epidemiology. Role of screening. Carcinogenesis.
7 week	Practice	Tumor suppressor genes. Tumor progression. Clinical characteristics
8 week	Practice	Hemostasis and Related Disorders. Primary hemostasis and related bleeding disorders.
9 week	Practice	Secondary hemostasis and related disorders. Other disorders of hemostasis. Thrombosis. Embolism.
Modul 1 (Date)29.10.22		
10 week	Practice	Red Blood Cell Disorders. Anemia. Microcytic anemias. Macrocytic anemia.
11 week	Practice	Normocytic anemia. Immune hemolytic anemia. Anemia due to underproduction.

12 week	Practice	White Blood Cell Disorders. Leukopenia and leukocytosis. Acute leukemia.
13 week	Practice	Chronic leukemia. Myeloproliferative disorders.
14 week	Practice	Lymphadenopathy. Lymphoma. Plasma cell disorders.
15 week	Practice	Vascular Pathology. Large vessel vasculitis.
16 week	Practice	Arteriosclerosis. Aortic dissection and aneurysm.
17 week	Practice	Cardiac Pathology. Ischemic heart disease.
Modul 1 (Date)20.12.22		
18 week	Practice	Angina. Myocardial infarction

Lectures

Course Plan (weeks)	Subject
1	Introduction to Pathological Physiology Basic principles of cell damage. Cellular adaptation.
2	Cell death. Necrosis. Apoptosis Acute inflammation.
3	Chronic inflammation. Healing. Neoplasia. Benign neoplasms.
4	Tumor suppressor genes. Tumor progression. Clinical Characteristics Hemostasis and related disorders. Primary hemostasis and associated bleeding disorders.
5	Secondary hemostasis and related disorders. Other disorders of hemostasis. Thrombosis. Embolism. Diseases of erythrocytes. Anemia. microcytic anemia. macrocytic anemia.
6	normocytic anemia. Immune hemolytic anemia. Anemia due to insufficient production. Leukocyte disorders. Leukopenia and leukocytosis. Acute leukemia.
7	Chronic leukemia. Myeloproliferative diseases. Lymphadenopathy. Lymphoma. Plasma cell disorders. vascular pathology. Vasculitis of the great vessels
8	vascular pathology. Vasculitis of large vessels. Arteriosclerosis. Aortic dissection and aneurysm.

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Cardiac pathology. Cardiac ischemia.
Angina. myocardial infarction