

INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	General medicine
Qualification of the graduate:	General practitioner / Medical doctor
Year:	2023-2024
Semester:	3
Course duration:	18 weeks
Instructor/Assistant/Professor	Name: Akmatova A.A.
Department:	Pathology
Day and Time for consultation:	26.10.23y27.10.23y28.10.23y.
Classroom:	108, 301, 402
e-mail:	akmatovaasiya@gmail.com
Course Title:	Pathological anatomy, clinical pathological anatomy
Must/Elective:	Must
Credit/Hours:	4
Course Description:	The discipline "Pathological anatomy, clinical
	pathological anatomy" is a fundamental medical
	discipline aimed at studying changes in organs and
	tissues caused by various pathological processes. The
	course includes the study of morphological changes in
	organs and tissues at the macroscopic and microscopic
	level. Students are introduced to the major diseases of
	various organs and body systems, their morphological
	manifestations and clinical aspects. Special attention is
	paid to the role of pathological anatomy in the
	diagnosis, treatment and prognosis of diseases,
	including oncological diseases. Successful mastering of
	the discipline allows students to master the skills of
	morphological diagnosis and understanding of the
	pathogenesis of various pathological conditions.
Course Objectives:	The purpose of studying the discipline is to master the
	pathology of the cell and general pathological
	processes, including etiology, pathogenesis and
	morphology of diseases at different stages of their
	development, morphology of adaptation and
	compensation of the organism, as well as the study of
	changes in diseases under the influence of changing
D	conditions of life, treatment and manipulation.
Prerequisites:	Normal anatomy, normal physiology, biology and
D 4 ***	medical genetics, histology, microbiology.
Post-requisites:	Forensic medicine, evidence-based medicine,
T	propaedeutics of internal medicine, general surgery.
Learning Outcomes:	Will know terms used in the course of pathological
	anatomy and basic methods of pathological

(expected knowledge & ability	anatomical research; concepts of etiology,
at the end)	pathogenesis, morphogenesis, pathomorphosis of
, and the second	disease, nosology, principles of classification of
	diseases;
	Will understand the essence and basic regularities of
	general pathological processes; characteristic changes
	of internal organs in the most important human
	diseases;
	Will be able to use principles of clinical-anatomical
	analysis of biopsy and surgical material; use the
	acquired knowledge of structural changes in
	pathological processes and diseases in the study of
	subsequent clinical disciplines;
	Will be able to determine macroscopic changes in
	organs and tissues in general pathological processes
	and various diseases (gross examination); the nature
	of the pathological process and its clinical
	manifestations; diagnose the causes, pathogenesis and
	morphogenesis of diseases, their manifestations,
	complications and outcomes, as well as
	pathomorphosis;
	Will be able to perform clinical and anatomical
	analysis; comparison of morphological and clinical
	manifestations of diseases; macroscopic diagnosis of
	pathological processes; microscopic (histological)
	diagnosis of pathological processes;
	Will be able to analyze macroscopic morphological
	characteristics of organs and tissues in order to
	establish a preliminary pathological diagnosis;
	clinical, laboratory, experimental and other data, and
	formulate on their basis a conclusion about the most
	probable causes and mechanisms of development of
	pathological processes (diseases);
	Will be able to synthesize the results of clinical and
Dagia wafawar assa	anatomical analysis.
Basic references:	1. Robbins Basic Pathology (Robbins Pathology) 10th
	edition 2. Toythook of Pathology, Harsh Mahan 8th adition
	2. Textbook of Pathology, Harsh Mohan 8th edition3. Robbins and Cotran Pathologic Basis of Disease
	10th edition
Supplementary Textbook and	4. Rapid Review Pathology, Edward F. Goljan 6th
Materials:	edition
Tradecialis.	5. BRS Pathology 6th edition
	Websites:
	1. nature.com - Pathology
	2. feedspot.com
	3. webpath.med.utah.edu
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COURSE POLICY AND EVALUATION CRITERIA:

Type of control (current,	Control form	Assessment of learning
milestone, final)		outcomes

Attendance	For one missed lesson minus	20 points
	2 points	
Current control	Oral surveey, written work	20 points
IWS+IWW	Perfoming assignments, work	20 points
	with literature	
Milestone control (modul	Testing, control tasks	40 points
submission)		
Final control (differential	Conversation, examination	100 points
test)	(test.edu.kg)	

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 /	Subject
	Practice	
1 week	Lecture /	Introduction to pathological anatomy
	Practice	
2 week	Lecture /	Cell injury. Irreversible and reversible cell injury and the role of
	Practice	free radicals. Apoptosis. Necrosis and types of necrosis.
3 week	Lecture /	Intracellular accumulations.
	Practice	
4 week	Lecture /	Mesenchymal dystrophies.
	Practice	
5 week	Lecture /	Mixed dystrophies.
	Practice	
6 week	Lecture /	Cellular adaptation. Atrophy, hypertrophy, hyperplasia,
	Practice	metaplasia, dysplasia.
7 week	Lecture /	Definition of the "repair", "regeneration", "growth factors" and
	Practice	"scar formation".
8 week	Lecture /	Acute inflammation.
	Practice	
9 week	Lecture /	Chronic inflammation.
	Practice	
Modul 1		
10 week	Lecture /	Tumors. General pathology.
	Practice	
11 week	Lecture /	Epithelial and mesenchymal tumors.
	Practice	
12 week	Lecture /	Carcinogenesis, carcinogenic agents, tumor metastasis and
	Practice	tumor markers.
13 week	Lecture /	Tumors in children
	Practice	
14 week	Lecture /	Circulatory disorders-1: edema, ischemia, infarction.
	Practice	

15 week	Lecture /	Circulatory disorders-2: thrombosis, embolism, haemorrhage,
	Practice	shock.
16 week	Lecture /	Genetic disorders (Down, Turner, Klinefelter, Ehlers-Danlos,
	Practice	Marfan syndromes).
17 week	Lecture /	Immunopathology
	Practice	
Modul 2		
18 week	Lecture /	Environmental diseases.
	Practice	