

Azerbaijan Medical University
Department of Pathological Anatomy

SYLLABUS

PATHOLOGICAL ANATOMY-2

for students of the General Medicine Faculty
Spring semester of the 2019-2020 Academic year

Faculty: 070101 General Medicine
Faculty code: IPF-B11
Subject type: Required
Education term of subject: V
Subject credits: 4 credits
Teaching method of subject: On-campus teaching
Instruction languages of subject: English
Instructors: Teaching staff of the Department
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<https://amu.edu.az/page/200/patoloji-anatomiya-kafedrasi?local=1637074960>

INTRODUCTION

The purpose of “Pathological anatomy-2” course.

The aims of Pathological anatomy-2 as course: to study the structural basis of etiology, pathogenesis and morphology (morphogenesis), recovery and complication processes of diseases, and outcomes at different developmental levels of diseases; to determine the changes in classical courses of diseases (pathomorphosis), in response to changes in human's life conditions and due to application of modern treatment methods nowadays, and the atypical characteristics of performed diagnostic and therapeutic manipulations, leading to undesirable pathological effects (iatrogenic disease), to investigate the aims of pathologicoanatomic service in system of public health, and also the organization forms of solution ways of them.

Due to the aim of Pathological anatomy-2 course in high medical education, is a notion of the theoretical bases of medicine, the deep study of clinics and comprehensive study of the structural bases, causes, pathogenesis, morphogenesis, effects, complications, clinical patterns of disorders for the further application of the acquired knowledge broadly in practical activities.

Pathological anatomy-2 is one of the important components of medical science and the health system, studying the structural (morphological) basis of all diseases.

Course description:

Nosology, nomenclature and classification of diseases, pathological-anatomical diagnosis, diseases of the cardiovascular system, rheumatic diseases, diseases of the respiratory system and digestive tract, liver and kidney diseases, diseases of the endocrine glands, diseases of the internal genitals and mammary glands, pregnancy pathologies, prenatal and perinatal pathologies and infectious diseases are taught during the subject of Pathological anatomy-2.

The teaching of the subject "Pathological Anatomy-2" is based on the scientific materials obtained in this field in other related medical sciences, including genetics,

oncology, immunology, surgical diseases, internal diseases, etc. It is carried out with the application of the achievements of modern morphological research methods (cytochemistry, histochemistry, immunohistochemistry, immunomorphology, electron microscopy, molecular pathology), based on the latest and latest achievements of science.

The teaching program "Pathological Anatomy-2" is taught to students in the form of classical and virtual lectures and practical classes. Lectures or video lectures on the topics covered in the program are held and practical classes are held. Some topics that are not covered in the lessons are mastered by students independently from textbooks.

Requirements for students' knowledge and skills at the end of the study of the subject

The student **should know:**

- etiology, pathogenesis and morphology of diseases at different stages of development (morphogenesis), structural bases of recovery, complications, consequences and long-term consequences of diseases, causes and mechanisms of death (tanatogenesis);
- specificity of perinatal period and uterine pathology: etiology, pathogenesis and morphological features;
- morphology and mechanisms of adaptation and compensation processes of the organism in response to the influence of pathogenic factors and changing environmental conditions;
- changes in human life and changes in diseases as a result of treatment (pathomorphosis), changes that occur as a result of therapeutic and diagnostic manipulations (pathology of treatment);
- structure of pathological-anatomical service, place and tasks in the health system.

The student **should be able to:**

- to determine the diagnosis and nature of the disease by means of macropreparations during the examination;
- detection of diseases by light microscopy and histological preparations;
- to diagnose diseases based on the description of macro- and microscopic changes in the organs and tissues of the body.

The student **must own:**

- clinical-anatomical analysis skills;
- the basis of the synthetic generalization of morphological diagnostic features of diseases and their correct interpretation in cause-and-effect relationships.

**Thematic plan
of lectures on Pathological anatomy-2**

№	Topic	Hours
1.	General information about diseases. Pathological-anatomical diagnosis. Nomenclature and classification of diseases. Cardiovascular diseases. General information. Classification. Atherosclerosis and chronic hypertension. Ischemic heart diseases. Cerebrovascular diseases.	2
2.	Rheumatic diseases.	2
3.	Pulmonary diseases.	2
4.	Gastrointestinal tract diseases.	2
5.	Liver diseases.	2
6.	Kidney diseases. Endocrine system diseases. Diseases of reproductive system and mammary glands. Pathology of pregnancy.	2
7.	Infectious diseases. Viral infections. Rickettsiosis. Bacterial infections. Tuberculosis. Sepsis.	2
Total		14

**Thematic plan
of practical classes on Pathological anatomy-2**

№	Topic	Hours
1.	Nosology. Pathologicoanatomic diagnosis. Iatrogenia. Discrepancies between the clinical and pathologicoanatomic diagnoses, categories. Cardiovascular diseases. (Endocarditis. Myocarditis. Pericarditis). Heart defects. Vasculitis.	4
2.	Atherosclerosis. Chronic hypertension.	4
3.	Ischemic heart diseases. Cerebrovascular diseases.	4
4.	Rheumatic diseases.	4
5.	I Colloquium	4
	Diseases of respiratory system.	
6.	Diseases of digestive tract organs.	4
7.	Liver diseases.	4
8.	Renal diseases.	4
9.	Diseases of endocrine organs. Diseases of reproductive system and mammary gland. Pathology of pregnancy.	4
10.	II Colloquium.	4
	General information about infectious diseases.	
11.	Viral infections (Influenza. Measles. Poliomyelitis. HIV-infection). Rickettsiosis (Epidemic typhus).	4
12.	Airborne transmitted bacterial infections (Diphtheria. Scarlet fever. Meningococcal infections). Intestinal bacterial infections (Typhoid fever. Cholera. Dysentery).	4
13.	Tuberculosis. Sepsis.	4
14.	Prenatal pathology.	5
15.	Perinatal pathology.	4
	III Colloquium.	
Total:		61

ASSESSMENT

The collection of 100 points required to obtain a credit on the Pathological anatomy-1 course is carried out as follows:

50 points – before the exam, including:

10 points – participation;

10 points – independent study;

30 points – colloquium;

50 points – Final examination.

For the missed hours, attendance points are deducted up to 3 points, depending on the number of hours missed. Students who score less than 7 on the course are not allowed to take the exam.

Independent study is used to develop students' ability to learn independently outside the classroom. During the semester, the student must prepare 2 independent works in the form of Ppt presentation or abstract and upload them to the University's Electronic Learning System (ETS). The list of independent works is prepared by the department in accordance with the course program and is given to each student in the first week of the semester. Acceptance of independent work is carried out during the semester and is usually completed in the 14th week. Each independent work is evaluated with a maximum of 5 points (10 points in total).

A colloquium will be held 3 times during the semester in the form of an oral survey. Each colloquium is evaluated with a maximum of 10 points. If the student does not participate in the colloquium, 0 (zero) points will be recorded in the journal.

The final exam will be held in the "Virtual Test Center" of the university. If a minimum of 17 marks is not scored in the exam, the points earned before the exam will not be collected. The points obtained during and before the exam are summarized and the final amount is evaluated as follows:

In order to help students prepare for the exam, a schedule of pre-exam consultation hours of experienced professors and associate professors of the department will be compiled. The points collected during and before the exam are summed up and the final amount is evaluated as follows:

- A - "Excellent" - 91 - 100
- B - "Very good" - 81 - 90
- C - "Good" - 71 - 80
- D - "Satisfactory" - 61 - 70
- E - "Pass" - 51 - 60
- F - "Insufficient" - less than 51 points

INDEPENDENT STUDY:

Topics of independent study on the course of Pathological anatomy-2

№	Topic
1.	Cardiovascular diseases.
2.	Rheumatic diseases.
3.	Pulmonary diseases.
4.	Diseases of the gastrointestinal tract.
5.	Liver diseases.
6.	Kidney diseases. Diseases of the endocrine glands.
7.	Diseases of the genitals and mammary glands.
8.	Pathologies of pregnancy.
9.	Prenatal and perinatal pathology.
10.	Infectious diseases.

SYLLABUS

The content of basic higher medical education includes the planning of the educational process, forms and methods of its implementation, amount of study time, duration of teaching periods (semesters), types of teaching (lectures, practical classes, laboratory, etc.), volume of different courses, requirements for educational programs in specialties.

Planning and organization of the educational process is carried out on the basis of curricula (exemplary working and individual curricula) and course syllabuses. The form and structure of these documents are determined by the higher education institution.

Course programs are developed by higher education institutions in accordance with the requirements of higher education programs by specialties and duly approved by the Ministry of Education of the Republic of Azerbaijan. Syllabuses are developed on the basis of course programs and approved by higher education institutions.

Syllabus - a document prepared on the basis of the relevant course program and containing a description of the course taught, its purpose and objectives, summary,

duration and types of lessons, assignments for independent study of students, their duration, consultation hours, teacher information, teacher requirements, assessment criteria, midterm examination schedule, list of used literature.

BASIC LITERATURE:

1. Kerimova I.I. Pathological Anatomy Lectures. Part I. Baku, “Tabib” publishing house, 2018, 319 pp.
2. Kerimova I.I. Pathological Anatomy Lectures. Part II. Baku, “Tabib” publishing house, 2020, 323 pp.
3. Серов В.В., Ярыгин Н.Е., Пауков В.С. Патологическая анатомия. Атлас. Москва, 1986. 368 с.
4. Texts of lectures on the course “Pathological anatomy-1”
5. Videlectures on the course “Pathological anatomy-1”

ADDITIONAL LITERATURE:

6. Kumar V, Abbas A, Aster J, Perkins J. Robbins basic pathology. 10th edition. Elsevier, 2018, 910 p.
7. Kumar V, Abbas A, Aster J, Perkins J. Robbins and Cotran pathologic basis of diseases. Elsevier Saunders, 2015, 1412 pp.