

Syllabus of discipline "Actual problems of clinical pathomorphology"

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Expected learning outcomes

As a result of studying the discipline, students:

have to *know:* the basics of histological techniques for the investigation of biopsy material, modern methods of processing histopathological material; histochemical, immunomorphological electron microscopic; etiology, pathogenesis, macro- and microscopic manifestations of diseases of functional systems; morphogenesis, clinical manifestations, complications and causes of death from coronavirus infection.

be able to: determine the cause-effect mechanisms diseases' development of functional systems; epredict possible complications at different stages of morphogenesis; identify possible mistakes in the establishment of the underlying disease, complications, comorbidities and causes of death; diagnose macro- and microscopic morphological changes in the course and pathomorphology of diseases.

Volume: 3 ECTS credits (90 hours).

The purpose of the discipline - mastering and using modern fundamental knowledge of morphological manifestations of diseases, skills acquisition and use in-depth clinical and anatomical analysis and substantiation of the established diagnosis in the professional activity of a doctor; obtaining professionally-oriented competencies; use of modern methods of pathomorphological research.

Originality of the discipline: author's course.

The content of the discipline

- Topic 1. Modern histological laboratory diagnostics of equipment and techniques;
- Topic 2. Pathoanatomical diagnosis. Modern approaches, problems, solutions;
- Topic 3. Current approaches to the study of pathomorphological manifestations of infectious diseases:
- Topic 4. Modern pathomorphology of lymphomas. Diagnostic and prognostic immunohistochemical markers;
- Topic 5. Pathomorphology and modern diagnosis of diseases of civilization;
- Topic 6. Pathomorphology and modern diagnosis of endocrinological diseases;
- Topic 7. Modern understanding of the morphogenesis of malignant tumors and their modern laboratory diagnosis;
- Topic 8. Pathomorphology and modern diagnosis of extreme conditions of the body.

Prerequisites

The theoretical material of the discipline is based on knowledge of related disciplines: cytology, histology, normal anatomy, pathological anatomy, pathophysiology and biochemistry.

Details

Students will be able to acquire practical skills in diagnosing clinical and morphological manifestations, complications, consequences and causes of death. Interpret the results of various types of histopathological examination of biopsy and surgical material. Independently analyse and critically identify a pathological diagnosis indicating the underlying disease, complications, comorbidities and causes of death.

Semester control: Credit

Evaluation:

For the semester: 120 points

For credit: 80 points

Types of work:

Independent work (Presentation: "Modern methods of diagnosing pathomorphological changes in the functional systems of the human body") - 40 points.

Final control work (testing) - 40 points. Survey at group classes - 40 points (4x10).

Technical support

Microscope.

Histological preparations.

Projection multimedia equipment (projector, screen, laptop / computer).

Internet access, Wi-Fi access point.

Moodle e-learning system 3.9.

Criteria for evaluating independent work

To master the theoretical and practical foundations of certain topics of the presented elective discipline, students must prepare: a presentation on the list and technical characteristics of the main and auxiliary laboratory equipment used in histological techniques. There are 2 main components of independent work: 1) oral presentation at a practical lesson (40% of the assessment); 2) completeness of disclosure of the presented material, taking into account world achievements (60% of the assessment).

Criteria for evaluating the control work

It is based on the determination of residual knowledge after mastering the elective discipline of choice. It includes 3 components: 1) test tasks; 2) Solving educational clinical problems; 3) Presentation of modern methods for diagnosing pathomorphological changes in the functional systems of the human body

Deadline policy

The completed works are presented in a certain training schedule, the term - according to the schedule for a particular week of training.

Academic Integrity Policy

Provides independent performance of the provided works and tasks. Write-off during the offset (including using mobile devices) is prohibited. In case of detection of plagiarism or write-off of work are not credited.