### Thematic plan of lectures and lessons


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tissue. Tumors of the nervous system and the brain covers

Control work Topics 8 – 12 (Module 2) | 5 | 14 | 4

**Section 2. Pathological anatomy of organs and systems**

Module 3

Topic 13. Introduction to nosology. Teaching about the diagnosis. Thanatology. Iatrogenia | 5 | 15 | 4 | 2

Topic 14. Diseases of the cardiovascular system | 5 | 16 | 2 | 4

Topic 15. Rheumatic diseases | 6 | 1 | 4 | 8

Topic 16. Diseases of the hematopoiesis system | 6 | 2 | 2 | 4 | 8

Topic 17. Infectious diseases. Tuberculosis. Syphilis | 6 | 3 | 2 | 4 | 4

Topic 18. Airborne droplet infections | 6 | 4 | 4 | 8

Topic 19. Intestinal infections | 6 | 5 | 4 | 8

Topic 20. Especially dangerous infections. Sepsis | 6 | 6 | 2 | 4 | 4

Control work Topics 13 – 20 (Module 3) | 6 | 7 | 4

Module 4

Topic 21. Diseases of the lungs | 6 | 8 | 2 | 4 | 8

Topic 22. Diseases of the gastrointestinal tract | 6 | 9 | 2 | 4 | 6

Topic 23. Diseases of the liver and biliary tract | 6 | 10 | 2 | 4 | 6

Topic 24. Kidney diseases | 6 | 11 | 2 | 4 | 6

Topic 25. Diseases of the reproductive system. Pathology of pregnancy | 6 | 12 | 2 | 4 | 4

Topic 26. Diseases of the mammary glands. Skin pathology | 6 | 13 | 2 | 4 | 4

Topic 27. Diseases of the endocrine system | 6 | 14 | 2 | 4 | 4

Control work Topics 21 – 27 (Module 4) | 6 | 15 | 4

Control work - Micropreparations (Module 5) | 6 | 16 | 4

Total | 34 | 128 | 108
Topic 1. Methodological basis of pathological anatomy

Subject, tasks, methods, objects and levels of research in pathological anatomy. The importance of pathological anatomy for fundamental science and clinical practice.


Topic 2. Adaptation processes


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 5. Morphology of lethal cell damage. Necrosis and apoptosis

Lecture. Etiological types, morphogenesis and microscopic signs of necrosis. Clinico-morphological forms of necrosis and their characteristics. The difference between necrosis and apoptosis. The importance of apoptosis in the normal conditions and pathology.

Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 6. Circulatory disorders 1

Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 7. Circulatory disorders 2


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Control work Topics 1 – 7 (Module 1)

Oral quiz in the form of an individual interview

Topic 8. Inflammation. Acute inflammation

Lecture. Causes, clinical signs, phases, inflammation classification. Types of exudative inflammation and their characteristics. Outcomes of inflammation.

Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 10. Immunopathological processes. HIV infection. Amyloidosis


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 11. Tumors. General provisions. Tumors from the epithelium

Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 12. Mesenchymal tumors. Tumors of melanin-forming tissue. Tumors of the nervous system and the brain covers


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Control work Topics 8 – 12 (Module 2)

Oral quiz in the form of an individual interview

Topic 13. Introduction to nosology. Teaching about the diagnosis. Thanatology. Iatrogenia


Lab work. Участие в аутопсии трупа (на клинической базе кафедры), написание протокола вскрытия, заполнение медицинского свидетельства о смерти.

Topic 14. Diseases of the cardiovascular system


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 15. Rheumatic diseases


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.
**Topic 16. Diseases of the hematopoiesis system**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 17. Infectious diseases. Tuberculosis. Syphilis**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 18. Airborne droplet infections**

Acute respiratory viral infections (influenza), meningococcal infection, diphtheria, scarlet fever, measles.

**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 19. Intestinal infections**

Typhoid fever, salmonellosis, dysentery, amoebiasis.

**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 20. Especially dangerous infections. Sepsis**

**Lecture.** List of infections regulated by the International Health Regulations. Plague, cholera, anthrax. Classification of sepsis. The difference between sepsis and other infectious diseases. Clinical-morphological forms of sepsis and their characteristics.

**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Control work Topics 13 – 20 (Module 3)**

Oral quiz in the form of an individual interview

**Topic 21. Diseases of the lungs**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 22. Diseases of the gastrointestinal tract**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 23. Diseases of the liver and biliary tract**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 24. Kidney diseases**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 25. Diseases of the reproductive system. Pathology of pregnancy**


**Lab work.** Study and description of macropreparations. Study, drawing and description of micropreparations.

**Topic 26. Diseases of the mammary glands. Skin pathology**

Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Topic 27. Diseases of the endocrine system


Lab work. Study and description of macropreparations. Study, drawing and description of micropreparations.

Control work Topics 21 – 27 (Module 4)

Oral quiz in the form of an individual interview

Control work - Micropreparations (Module 5)

Trainees are offered various collections of pathohistological micropreparations previously studied in practical classes (usually 3), but without any markings. The tasks of students after studying the proposed micropreparations are the following:

- making diagnosis,
- describing the detected morphological changes,
- determining the staining method,
- indicating possible diseases and outcomes.