Questions for practical classes on pathological anatomy
for 3rd year students of the Faculty of international students
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Topic 1
«Introduction to pathological anatomy. Parenchymal degenerations»

1. Pathological anatomy as a medical science: definition, goals, objectives, and methods.
2. Autopsy: clinical and anatomical analysis, importance in medical practice, and legal aspects.
3. Biopsy: definition, types, and methods for studying biopsy specimens. The value of modern morphological methods (histochemistry, immunohistochemistry, electron microscopy) in the life-time diagnosis of diseases.
4. Pathology of the cell nucleus: changes in the structure, size, shape, and number of nuclei; structure and size of the nucleoli; nuclear membrane; pathology of mitosis; chromosomal aberrations and chromosomal diseases.
5. Parenchymal protein degenerations (dystrophies). Definition. Classification. General mechanisms of development of degenerative processes.
6. Parenchymal lipid degenerations (lipidosis). Etiology. Pathogenesis. Morphology. Clinical examples.
7. Parenchymal carbohydrate degenerations. Etiology. Pathogenesis. Morphology. Clinical examples.
8. Storage diseases: Gaucher’s disease, Niemann-Pick disease, Pompe’s disease, McArdle disease, Gierke disease.

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Topic 2
«Mesenchymal (stromal-vascular) degenerations»

1. Mesenchymal degenerations (dystrophies). Definition. Classification. General mechanisms of development of degenerative processes.
2. Mucoid and fibrinoid swelling. Etiology. Pathogenesis. Morphology. Clinical examples. Outcomes.
3. Hyalinosis. Classification. Etiology. Pathogenesis. Morphology. Clinical examples.
4. Amyloidosis. Classification. Etiology. Pathogenesis. Morphology. Methods of detection and staining. Outcomes.
5. Obesity, cachexia. Definition. Classification. Etiology. Pathogenesis. Morphology. Staining.

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Topic 3
«Mixed degenerations. Pigments accumulations»

1. Pathology of proteinogenic (tyrosinogenic) pigments (melanin): hyperpigmentation and hypopigmentation.
2. Pathology of hemoprotein-derived (hemoglobinogenic) pigments. Hemosiderosis. Etiology. Pathogenesis. Morphology. Staining. Clinical examples. Outcomes.
3. Hemochromatosis. Etiology. Pathogenesis. Morphology. Staining. Clinical examples. Outcomes.
4. Porphyria. Etiology. Pathogenesis. Morphology. Staining. Clinical examples. Outcomes.
5. Pathology of bilirubin metabolism. Jaundice. Etiology. Pathogenesis. Morphology. Clinical examples.
6. Pathologic calcification. Classification. Localization. Causes. Morphology. Outcomes.
7. Disturbances of nucleoproteins metabolism. Gout. Morphology. Clinical examples. Outcomes.
8. Metabolic disorders of copper. Morphology. Clinical examples. Outcomes.

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Topic 4
«Necrosis and apoptosis»

1. Necrosis. Definition. Etiology. Nuclear and cytoplasmic changes. Classification. Outcomes. Difference between apoptosis and necrosis.
2. Apoptosis. Definition. Etiology. Nuclear and cytoplasmic changes. Classification. Outcomes. Difference between apoptosis and necrosis.
3. Gangrene. Definition. Etiology. Classification. Clinical examples.
4. Pressure ulcers. Definitions. Etiology. Clinical examples.
5. Sequestrum. Definitions. Etiology. Clinical examples.
6. Death. Medical definition. Difference between clinical and biological death. Clinical and physiological criteria.

Questions for practical classes on pathological anatomy for 3rd year students of the Faculty of international students for 2026-2027 academic year

Test № 1

1. Pathological anatomy as a medical science: definition, goals, objectives, and methods.
2. Autopsy: clinical and anatomical analysis, importance in medical practice, and legal aspects.
3. Biopsy: definition, types, and methods for studying biopsy specimens. The value of modern morphological methods (histochemistry, immunohistochemistry, electron microscopy) in the life-time diagnosis of diseases.
4. Pathology of the cell nucleus: changes in the structure, size, shape, and number of nuclei; structure and size of the nucleoli; nuclear membrane; pathology of mitosis; chromosomal aberrations and chromosomal diseases.
5. Parenchymal protein degenerations (dystrophies). Definition. Classification. General mechanisms of development of degenerative processes.
6. Hydropic degeneration. Etiology. Pathogenesis. Morphology. Clinical examples. Outcomes.
7. Hyaline droplet degeneration. Etiology. Pathogenesis. Morphology. Clinical examples. Outcomes.
8. Keratosis (keratin degeneration). Etiology. Pathogenesis. Morphology. Clinical examples. Outcomes.
9. Parenchymal lipid degenerations (lipidosis). Etiology. Pathogenesis. Morphology. Clinical examples.
10. Parenchymal carbohydrate degenerations. Etiology. Pathogenesis. Morphology. Clinical examples.
11. Storage diseases: Gaucher's disease, Niemann-Pick disease, Pompe’s disease, McArdle disease, Gierke disease.
12. Parenchymal mesenchymal degenerations (dystrophies). Definition. Classification. General mechanisms of development of degenerative processes.
13. Mucoid and fibrinoid swelling. Etiology. Pathogenesis. Morphology. Clinical examples. Outcomes.
14. Hyalinosis. Classification. Etiology. Pathogenesis. Morphology. Clinical examples.
15. Amyloidosis. Classification. Etiology. Pathogenesis. Morphology. Methods of detection and staining. Outcomes.
16. Obesity, cachexia. Definition. Classification. Etiology. Pathogenesis. Morphology. Staining.
17. Pathology of proteinogenic (tyrosinogenic) pigments (melanin): hyperpigmentation and hypopigmentation.
18. Pathology of hemoprotein-derived (hemoglobinogenic) pigments. Hemosiderosis. Etiology. Pathogenesis. Morphology. Staining. Clinical examples. Outcomes.
19. Hemochromatosis. Porphyria. Etiology. Pathogenesis. Morphology. Staining. Clinical examples. Outcomes.
20. Pathology of bilirubin metabolism. Jaundice. Etiology. Pathogenesis. Morphology. Clinical examples.
21. Pathologic calcification. Classification. Localization. Causes. Morphology. Outcomes.
22. Disturbances of nucleoproteins metabolism. Gout. Metabolic disorders of copper. Morphology. Clinical examples. Outcomes.
23. Necrosis. Definition. Etiology. Nuclear and cytoplasmic changes. Classification. Outcomes.
24. Gangrene. Definition. Etiology. Classification. Clinical examples.
25. Pressure ulcers. Sequestrum. Definitions. Etiology. Clinical examples.
26. Apoptosis. Definition. Etiology. Difference between apoptosis and necrosis.
27. Death. Medical definition. Difference between clinical and biological death. Clinical and physiological criteria.

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Topic 6
«Circulatory disorders: arterial hyperemia, venous congestion,
ischemia, bleeding and hemorrhage, edema»

1. Arterial hyperemia. Definition. Classification. Etiology. Clinical examples. Outcomes.
2. Venous congestion. Definition. Classification. Etiology. Clinical examples. Outcomes.
3. Ischemia. Definition. Classification. Etiology. Clinical examples. Outcomes.
4. Bleeding and hemorrhage. Definition. Classification. Etiology. Clinical examples. Outcomes.
5. Edema and dehydration. Definition. Classification. Etiology. Clinical examples. Outcomes.

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Topic 7
«Circulatory disorders: thrombosis, embolism, DIC syndrome»

1. Infarction. Definition. Classification. Etiology. Clinical examples. Outcomes.
2. Thrombosis. Definition. Pathophysiology. Thrombus morphology. Etiology. Clinical examples. Outcomes.
3. Embolism. Definition. Classification. Etiology. Clinical examples. Outcomes.
4. Disseminated intravascular coagulation (DIC). Definition. Pathophysiology. Etiology. Clinical examples. Outcomes. Blood stasis. Sludge phenomenon.

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Topic 8
«Inflammation: exudative and proliferative inflammation»

1. Exudative inflammation. Definition. Classification. Pathophysiology.
2. Serous inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
3. Fibrinous inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
4. Purulent (suppurative) inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
5. Catarrhal inflammation. Definition. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
6. Putrid, hemorrhagic and mixed inflammation. Definition. Pathophysiology. Serous inflammation. Etiology. Morphology. Clinical examples. Outcomes.
7. Productive (proliferative) inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
8. Interstitial inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
9. Granulomatous inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
10. Specific granulomas in tuberculosis, syphilis, leprosy, scleroma, sarcoidosis. Morphology. Outcomes.

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Topic 9
«Immunopathology: thymus pathology, hypersensitivity reactions, autoimmune diseases, immunodeficiency syndromes»

1. Type 1 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
2. Type 2 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
3. Type 3 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
4. Type 4 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
5. Autoimmune diseases. Definition. Classification. Etiology. Morphology. Clinical examples. Outcomes.
6. Immunodeficiency disorders. Definition. Classification. Etiology. Clinical examples.
7. Acquired immunodeficiency syndrome (AIDS). Definition. Pathophysiology. Etiology. Morphology. Outcomes. Opportunistic infections associated with HIV.

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Test № 2

1. Arterial hyperemia. Definition. Classification. Etiology. Clinical examples. Outcomes.
2. Venous congestion. Definition. Classification. Etiology. Clinical examples. Outcomes.
3. Ischemia. Definition. Classification. Etiology. Clinical examples. Outcomes.
4. Bleeding and hemorrhage. Definition. Classification. Etiology. Clinical examples. Outcomes.
5. Edema and dehydration. Definition. Classification. Etiology. Clinical examples. Outcomes.
6. Infarction. Definition. Classification. Etiology. Clinical examples. Outcomes.
7. Thrombosis. Definition. Pathophysiology. Thrombus morphology. Etiology. Clinical examples. Outcomes.
8. Embolism. Definition. Classification. Etiology. Clinical examples. Outcomes.
9. Disseminated intravascular coagulation. Definition. Pathophysiology. Etiology. Clinical examples. Outcomes.
10. Exudative inflammation. Definition. Classification. Pathophysiology. Serous inflammation. Etiology. Morphology. Clinical examples. Outcomes.
11. Fibrinous inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
12. Purulent (suppurative) inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
13. Catarrhal inflammation. Definition. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
14. Putrid, hemorrhagic and mixed inflammation. Definition. Pathophysiology. Serous inflammation. Etiology. Morphology. Clinical examples. Outcomes.
15. Productive (proliferative) inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
16. Interstitial inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
17. Granulomatous inflammation. Definition. Classification. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
18. Tuberculous granuloma. Pathophysiology. Morphology. Outcomes.
19. Syphilis pathology. Primary syphilis (primary chancre): localization, morphology, outcomes. Secondary syphilis: localization, morphology, outcomes. Tertiary syphilis (gumma): localization, morphology, outcomes.
20. Granulomatous inflammation in leprosy, scleroma, sarcoidosis. Morphology. Outcomes.
21. Hypersensitivity reactions. Definition. Classification. Clinical examples.
22. Type 1 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
23. Type 2 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
24. Type 3 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
25. Type 4 hypersensitivity reaction. Pathophysiology. Etiology. Morphology. Clinical examples. Outcomes.
26. Autoimmune disease. Definition. Classification. Etiology. Morphology. Clinical examples. Outcomes.
27. Immunodeficiency disorders. Definition. Classification. Etiology. Clinical examples.
28. Primary immunodeficiency disorder (PID). Definition. Classification. Etiology. Clinical examples.
29. Acquired immunodeficiency syndrome (AIDS). Definition. Pathophysiology. Etiology. Morphology. Outcomes. Opportunistic infections associated with HIV.

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Topic 11
«Tissue repair, regeneration and adaptation»

1. Regeneration. Definition. Pathophysiology. Classification. Clinical examples.
2. Hypertrophy. Definition. Pathophysiology. Classification. Clinical examples.
3. Hyperplasia. Definition. Pathophysiology. Classification. Clinical examples.
4. Metaplasia. Definition. Pathophysiology. Classification. Clinical examples.
5. Atrophy. Definition. Pathophysiology. Classification. Clinical examples.
6. Dysplasia. Definition. Pathophysiology. Classification. Clinical examples.
7. Sclerosis and calcification. Definition. Pathophysiology. Classification. Clinical examples.

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Topic 12
«Tumors: carcinogenesis, atypism, metastasis, clinical aspects of neoplasia»

1. Tumors. Definition. Classification. Properties of tumors.
2. Cellular and tissue atypism.
3. Tumor growth. Examples of tumors with different types of growth.
4. Theories of carcinogenesis.
5. Metastasis. Pathways and stages of metastasis.
6. Clinical aspects of neoplasia. Diagnosis of cancer.

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Topic 13
«Tumors: epithelial, neuroendocrine, melanocytic neoplasms»

1. Tumors from squamous epithelium: papilloma, squamous cell carcinoma, basal cell carcinoma. Definition. Classification. Most frequent localization. Pathological features.
2. Adenoma. Definition. Classification. Types and localization. Pathological features.
3. Adenocarcinoma. Definition. Classification. Types and localization. Pathological features.
4. Urothelial tumors. Definition. Classification. Most frequent localization. Pathological features.
5. Neuroendocrine tumor and carcinoma. Carcinoid. Definition. Classification. Most frequent localization. Pathological features.
6. Melanocytic tumors: nevus. Definition. Classification. Types and localization. Pathological features.
7. Melanocytic tumors: melanoma. Definition. Classification. Types and localization. Pathological features. Metastatic pathways.
8. Mesothelioma. Definition. Classification. Types and localization. Pathological features.
9. Teratoma. Definition. Classification. Types and localization. Pathological features.

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Topic 14
«Tumors: mesenchymal (soft tissue) neoplasms»

1. Fibrous tissue tumors. Definition. Classification. Types and localization. Pathological features.
2. Adipose tissue tumors. Definition. Classification. Types and localization. Pathological features.
3. Muscle tissue tumors. Definition. Classification. Types and localization. Pathological features.
4. Nervous tissue tumors. Definition. Classification. Types and localization. Pathological features.
5. Tumors of blood vessels. Definition. Classification. Types and localization. Pathological features.
6. Tumors of lymphatic vessels. Definition. Classification. Types and localization. Pathological features.
7. Tumors of synovial tissue. Definition. Classification. Types and localization. Pathological features.
8. Bone tissue tumors. Definition. Classification. Types and localization. Pathological features.
9. Cartilage tissue tumors. Definition. Classification. Types and localization. Pathological features.

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Topic 15
«Tumors: classification of neoplasms according to tissue origin, system and body location»

1. Lung cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
2. Esophageal cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
3. Stomach cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
4. Colon cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
5. Uterine cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
6. Cervical cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
7. Breast cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
8. Thyroid cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
9. Kidney cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
10. Liver cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
11. Pancreas cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
12. Prostate cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.

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Topic 16
«Tumors: leukemias, lymphomas, multiple myeloma»

1. Acute leukemias. Definition. Classification. Clinical and morphological manifestations. Complications and causes of death.
2. Chronic leukemias. Definition. Classification. Clinical and morphological manifestations. Complications and causes of death.
3. Multiple myeloma. Definition. Classification. Clinical and morphological manifestations. Complications and causes of death.
4. Lymphomas. Definition. Classification. Clinical and morphological manifestations of Hodgkin and non-Hodgkin's lymphomas. Complications and causes of death.
5. Anemia: definition, classification, etiology. Morphology of anemia due to blood loss, impaired hematopoiesis (pernicious anemia), and hemolytic anemia. Morphology.

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Test № 3

1. Regeneration. Definition. Pathophysiology. Classification. Clinical examples.
2. Hypertrophy. Definition. Pathophysiology. Classification. Clinical examples.
3. Hyperplasia. Definition. Pathophysiology. Classification. Clinical examples.
4. Metaplasia. Definition. Pathophysiology. Classification. Clinical examples.
5. Atrophy. Definition. Pathophysiology. Classification. Clinical examples.
6. Dysplasia. Definition. Pathophysiology. Classification. Clinical examples.
7. Sclerosis and calcification. Definition. Pathophysiology. Classification. Clinical examples.
8. Tumors. Definition. Classification. Properties of tumors. Cellular and tissue atypism. Tumor growth. Examples of tumors with different types of growth.
9. Theories of carcinogenesis. Metastasis. Pathways and stages of metastasis. Clinical aspects of neoplasia. Diagnosis of cancer.
10. Fibrous and adipose tissue tumors. Definition. Classification. Types and localization. Pathological features.
11. Muscle and nervous tissue tumors. Definition. Classification. Types and localization. Pathological features.
12. Tumors of blood and lymphatic vessels. Tumors of synovial tissue. Definition. Classification. Types and localization. Pathological features.
13. Bone and cartilage tissue tumors. Definition. Classification. Types and localization. Pathological features.
14. Tumors from squamous epithelium: papilloma, squamous cell carcinoma, basal cell carcinoma. Definition. Classification. Most frequent localization. Pathological features.
15. Adenoma and adenocarcinoma. Definition. Classification. Types and localization. Pathological features.
16. Urothelial tumors. Definition. Classification. Most frequent localization. Pathological features.
17. Neuroendocrine tumor and carcinoma. Carcinoid. Definition. Classification. Most frequent localization. Pathological features.
18. Melanocytic tumors: nevus and melanoma. Definition. Classification. Types and localization. Pathological features. Metastatic pathways.
19. Mesothelioma. Teratoma. Definitions. Classification. Types and localization. Pathological features.
20. Lung cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
21. Esophageal cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
22. Stomach cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
23. Colon cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
24. Uterine cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
25. Cervical cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
26. Breast cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
27. Thyroid cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
28. Kidney cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
29. Liver cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
30. Pancreas cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
31. Prostate cancer. Carcinogenesis. Precancerous conditions. Classification. Macroscopic forms. Histological types. Metastatic pathways. Complications and causes of death.
32. Acute and chronic leukemias. Definition. Classification. Clinical and morphological manifestations. Complications and causes of death.
33. Multiple myeloma. Definition. Classification. Clinical and morphological manifestations. Complications and causes of death.
34. Lymphomas. Definition. Classification. Clinical and morphological manifestations non-Hodgkin's lymphomas. Complications and causes of death.
35. Hodgkin lymphoma. Definition. Clinical manifestations. Morphological features. Complications and causes of death.
36. Anemia: definition, classification, etiology. Morphology of anemia due to blood loss, impaired hematopoiesis (pernicious anemia), and hemolytic anemia. Morphology.

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Topic 18
«Congenital malformations»

1. Congenital malformations of the placenta. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.
2. Congenital malformations of the amnion. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.
3. Congenital malformations of the umbilical cord. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.

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Topic 19
«Cardiovascular system diseases: atherosclerosis, arterial hypertension, IHD»

1. Atherosclerosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Microscopic stages of atherosclerosis. Clinical forms of atherosclerosis. Complications and outcomes.
2. Arterial hypertension. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
3. Ischemic heart disease. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Morphology of chronic heart failure.
4. Myocardial infarction. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
5. Cerebrovascular diseases. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.

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Topic 20
«Rheumatic diseases. Vasculitis»

1. Rheumatic heart disease. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Rheumatic myocarditis. Rheumatic granuloma.
2. Periarteritis nodosa. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
3. Rheumatoid arthritis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
4. Sjogren's syndrome. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
5. Systemic lupus erythematosus (SLE). Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
6. Ankylosing spondylitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
7. Systemic scleroderma (SSD). Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
8. Dermatomyositis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.

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Topic 21
«Respiratory system diseases: acute pneumonia»

1. Acute bronchitis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
2. Bronchopneumonia. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
3. Lobar pneumonia. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
4. Interstitial pneumonia. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
5. Acute respiratory distress syndrome (ARDS). Definition. Etiology. Pathogenesis. Morphology. Outcomes.
6. Aspiration pneumonia. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
7. Hypostatic pneumonia. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.

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Topic 22
«Respiratory system diseases: chronic nonspecific lung diseases»

1. Chronic obstructive pulmonary disease (COPD). Chronic bronchitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
2. Emphysema. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
3. Bronchiectasis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
4. Bronchial asthma. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Morphological features in status asthmaticus.
5. Chronic interstitial lung diseases. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.

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Topic 23
«Gastrointestinal tract diseases: gastritis, peptic ulcers, colitis»

1. Diseases of esophagus. Esophagitis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
2. Gastritis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
3. Peptic ulcer disease: gastric ulcer, duodenal ulcer. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
4. Appendicitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
5. Inflammatory bowel disease (IBD): ulcerative colitis, Crohn's disease. Differential diagnosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.

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Topic 24
«Liver pathology: steatosis, hepatitis, cirrhosis»

1. Hepatosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
2. Autoimmune hepatitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
3. Primary biliary cholangitis (PBC). Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
4. Viral hepatitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
5. Liver cirrhosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Causes of death. Portal hypertension.

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Topic 25
«Renal pathology: glomerulonephritis, pyelonephritis.
Nephrotic and nephritic syndromes»

1. Classification of kidney diseases. Etiology. Pathogenesis. Proliferation of cells in the glomeruli. Nephrotic and nephritic syndromes. Acute tubular injury.
2. Postinfectious glomerulonephritis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
3. IgA-nephropathy (Berger's disease). Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
4. Rapidly progressive glomerulonephritis (RPGN): anti-GBM disease (Goodpasture syndrome), immune-complex-mediated glomerulonephritis, ANCA-associated vasculitis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
5. Minimal change disease (lipoid nephrosis). Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
6. Membranous glomerulonephritis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
7. Membranoproliferative glomerulonephritis (MPGN). Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
8. Focal segmental glomerulosclerosis (FSGS). Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
9. Interstitial nephritis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
10. Pyelonephritis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
11. Hydronephrosis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.

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Topic 26
«Endocrine disorders and diseases»

1. Growth hormone pathology: acromegaly, nanism. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
2. Adrenogenital syndrome. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
3. Waterhouse-Friderichsen syndrome (WFS). Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
4. Addison's disease. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
5. Cushing's syndrome. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
6. Thyroid pathology. Goiter. Thyroiditis. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
7. Diabetes mellitus. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Causes of death of patients with diabetes mellitus.

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Test № 4

1. Atherosclerosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Microscopic stages of atherosclerosis. Clinical forms of atherosclerosis. Complications and outcomes.
2. Arterial hypertension. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
3. Ischemic heart disease. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Morphology of chronic heart failure.
4. Myocardial infarction. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
5. Cerebrovascular diseases. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
6. Rheumatic heart disease. Periarteritis nodosa. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Rheumatic myocarditis. Rheumatic granuloma.
7. Rheumatoid arthritis. Sjogren's syndrome. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
8. Systemic lupus erythematosus (SLE). Ankylosing spondylitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
9. Systemic scleroderma (SSD). Dermatomyositis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
10. Acute bronchitis. Bronchopneumonia. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
11. Lobar pneumonia. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
12. Interstitial pneumonia. Acute respiratory distress syndrome (ARDS). Aspiration pneumonia. Hypostatic pneumonia. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
13. Chronic obstructive pulmonary disease (COPD). Chronic bronchitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
14. Bronchiectasis. Emphysema. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
15. Bronchial asthma. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Morphological features in status asthmaticus.
16. Chronic interstitial lung diseases. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
17. Diseases of esophagus. Esophagitis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
18. Gastritis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
19. Peptic ulcer disease. Gastric ulcer. Duodenal ulcer. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
20. Appendicitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
21. Inflammatory bowel disease (IBD). Ulcerative colitis. Crohn's disease. Differential diagnosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
22. Hepatosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
23. Autoimmune hepatitis. Primary biliary cholangitis (PBC). Differential diagnosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
24. Viral hepatitis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes.
25. Liver cirrhosis. Definition. Etiology. Pathogenesis. Classification. Morphology. Complications and outcomes. Causes of death. Portal hypertension.
26. Classification of kidney diseases. Etiology. Pathogenesis. Proliferation of cells in the glomeruli. Nephrotic and nephritic syndromes. Acute tubular injury.
27. Minimal change disease. IgA-nephropathy. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
28. Rapidly progressive glomerulonephritis (RPGN). Postinfectious glomerulonephritis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
29. Membranous nephropathy. Membranoproliferative glomerulonephritis (MPGN). Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
30. Postinfectious glomerulonephritis. Focal segmental glomerulosclerosis (FSGS). Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
31. Interstitial nephritis. Pyelonephritis. Hydronephrosis. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
32. Growth hormone pathology: Acromegaly, nanism. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
33. Fröhlich's syndrome. Adrenogenital syndrome. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
34. Adrenal gland pathology: Waterhouse-Friderichsen syndrome (WFS), Addison's disease, Cushing's syndrome. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
35. Thyroid pathology. Goiter. Thyroiditis. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
36. Diabetes mellitus. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Causes of death of patients with diabetes mellitus.

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Topic 28
«Infectious pathology: sepsis»

1. Sepsis. Diagnostic criteria. Morphology.
2. SOFA score.
3. Clinical and anatomical forms of sepsis.

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Topic 29
«Infectious pathology: intestinal infections»

1. Typhoid fever. Definition. Etiology. Morphology of different stages of the disease. Complications and outcomes.
2. Cholera. Definition. Etiology. Morphology. Complications and outcomes. Causes of death.
3. Intestinal coli infection. Definition. Etiology. Morphology. Complications and outcomes.
4. Salmonellosis. Definition. Etiology. Classification. Morphology. Complications and outcomes.
5. Dysentery. Definition. Etiology. Classification. Morphology. Complications and outcomes. Causes of death. Morphological features of dysentery in children.

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Topic 30
«Infectious pathology: viral infections»

1. Influenza. Definition. Etiology. Morphology of community-acquired viral pneumonias (CAVP). Complications and outcomes.
2. SARS-CoV-2. Definition. Etiology. Morphology of community-acquired viral pneumonias (CAVP). Complications and outcomes.
3. Parainfluenza. Definition. Etiology. Morphology of community-acquired viral pneumonias (CAVP). Complications and outcomes.
4. Adenoviral infection. Definition. Etiology. Morphology of community-acquired viral pneumonias (CAVP). Complications and outcomes.
5. RSV-infection. Definition. Etiology. Morphology of community-acquired viral pneumonias (CAVP). Complications and outcomes.
6. CMV-infection. Definition. Etiology. Complications and outcomes.
7. HIV-infection. Definition. Etiology. Pathogenesis. Morphology of different stages of the disease. The concept of opportunistic infections. AIDS. Causes of death.

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Topic 31
«Infectious pathology: pediatric infections»

1. Meningococcal infection. Definition. Etiology. Classification. Morphology. Complications and outcomes. Causes of death.
2. Diphtheria. Definition. Etiology. Morphology. Differential diagnosis of true and false croup. Complications and outcomes.
3. Scarlet fever. Definition. Etiology. Morphology. Complications of the first and second periods of the course of the disease.
4. Measles. Definition. Etiology. Morphology. Differences between chickenpox and measles. Complications and outcomes.

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Topic 32
«Infectious pathology: tuberculosis»

1. Primary tuberculosis. Definition. Pathogenesis. Morphology. Primary tuberculosis complex. Complications and outcomes. Causes of death.
2. Hematogenous tuberculosis. Definition. Pathogenesis. Classification. Morphology. Miliary tuberculosis. Complications and outcomes. Causes of death.
3. Secondary tuberculosis. Definition. Pathogenesis. Classification. Morphology. Complications and outcomes. Causes of death.

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Topic 33
«Female reproductive system pathology»

1. Pathology of external female genital organs. Examples. Morphology. Complications and outcomes.
2. Cervicitis. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations.
3. Cervical ectropion (cervical erosion). Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes. Colposcopy.
4. Squamous cervical precursor lesions: CIN, SIL. Definition. Etiology. Pathogenesis. Morphology. Complications and outcomes.
5. Endometritis. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.
6. Endometrial hyperplasia. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.

«Pathology of pregnancy»

1. Ectopic pregnancy. Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.
2. Hydatidiform mole (molar pregnancy). Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes.
3. Hypertensive disorders of pregnancy (gestational nephropathy, preeclampsia, eclampsia). Definition. Etiology. Pathogenesis. Morphology (placental and renal changes). Clinical manifestations. Complications and outcomes.
4. Placental pathology. Definition. Etiology. Pathogenesis.
5. Placental insufficiency: primary vs. secondary, acute vs. chronic.
6. Placental inflammation: morphology based on infection route, effects on the fetus. Clinical manifestations.

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Topic 34
«Radiation injuries. Resuscitation pathology»

1. Acute radiation syndrome (ARS). Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes. Causes of death.
2. Chronic radiation syndrome (CRS). Definition. Etiology. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes. Causes of death.
3. Resuscitation pathology. Definition. Etiology. Classification. Pathogenesis. Morphology. Clinical manifestations. Complications and outcomes. Causes of death.

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Topic 35
«Iatrogenesis»

1. Iatrogenic pathology. Definition. Examples. Morphology. Complications and outcomes. Causes of death.

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Topic 36