

**Plan lecture for students of the 3-year Specialty 31.05.01 General Medicine
for the 2024-2025 academic year**

No	Name of lectures	List of educational questions
5th semester		
1.	Introduction. Subject and tasks of pathophysiology. Methods of study.	1. Pathophysiology as a science subject, objectives, methods of study. 2. Pathophysiology as a medical discipline, subject, objective, methods of study. 3. The role of pathophysiology in the general system of training doctors.
2.	The studies of the reactivity of the organism and its role in disease.	1. The definition of "reactivity". 2. Species reactivity A.D. Ado. 3. Factors individual reactivity. 4. Mechanisms of individual reactivity
3.	Pathophysiology metabolism.	1. Disorder of water-salt metabolism (dyshydria). 2. Hypohydration, types, etiology and pathogenesis. Correction. 3. Hyperhydration, types, etiology and pathogenesis. Correction. 4. The concept of "swelling". Types, etiology and pathogenesis.
4.	Inflammation. Acute inflammation. The etiology and pathogenesis. The biological role of inflammation	1. The definition of "inflammation", the etiology and pathogenesis of acute inflammation. 2. The biological role of inflammation. 3. Principles of therapy.
5.	Acute phase response. Fever.	1. The concept of "acute phase response" (APR). 2. Fever as a reaction APR. The causes and pathogenesis. 3. The difference fever from overheating.
6.	The pathophysiology of cancer.	1. The definition of "neoplastic process." 2. The etiology of the tumor process, the types of carcinogens. 3. Stages of carcinogenesis. 4. Types of tumors. Atypia of cancer. 5. Antineoplastic resistance of the body
7.	Typical disorder of immunological reactivity. Allergy.	1. The definition of "allergy". 2. Classification of allergic etiology, by pathogenesis. 3. The causes and mechanisms of the stages of different types of allergic reactions. 4. Meaning of allergic reactions. The principles of treatment of allergic diseases.
6th semester		
8.	Typical disorder of external breathing. Respiratory failure, its species criteria.	1. The concept of "external respiration". 2. Types of hypoxia in disorders of respiratory (exogenous respiratory hypoxia). The etiology and pathogenesis. 3. Blood gases during hypoxia with respiratory disorders. 4. The concept of "respiratory failure." Types of etiology and pathogenesis. The criteria for individual species respiratory failure.
9.	Typical disorder kidney.	1. The concepts of "nephropathy", "immune nephropathy." The etiology and pathogenesis. 2. Nephrotic syndrome, the clinical evolution, renal, extrarenal manifestations. 3. Nephrotic syndrome, types, renal, extrarenal manifestations. 4. Acute and chronic renal failure, causes and pathogenesis. Uremia.
10.	Typical disorder of the blood system. The general study of anemia.	1. The definition of "anemia". 2. Methods of study of anemia. 3. Pathological forms of red blood cells. 4. Principles of classification of anemia. 5. Meaning for the doctor

11.	Typical disorder of the blood system. Leukocytosis. Leukopenia.	1. The definition of "leukocytosis", etiology and pathogenesis. 2. The concepts of "absolute", "relative" leukocytosis. 3. Types of absolute leukocytosis. Meaning for practical doctor. 4. Leukopenia, etiology and pathogenesis.
12.	Typical disorder of the blood system. Leukemia.	1. The concepts of "leukemia." 2. The etiology and pathogenesis of leukemia, the methods of the study. 3. Classification of leukemia. 4. Picture of blood in leukemia. 5. Leukemoid reaction.
13.	Typical disorder of the cardiovascular system. Heart failure	1. The concept of "heart failure". 2. Types of heart failure in phases of the heart, on the etiology, to clinical evolution. 3. The etiology and pathogenesis acute and chronic heart failure. 4. Hemodynamic parameters in heart failure
14.	Typical disorder of the cardiovascular system. Systemic disorders of arterial blood pressure. Arterial hypertension and arterial hypotension.	1. The concept of "hypertension". Primary and secondary arterial hypertension. 2. Hypertensive heart disease, the concept, the concept of the cause and pathogenesis of hypertension. 3. Arterial hypotension, the concept, the primary and secondary arterial hypotension. 4. Hypotension, etiology and pathogenesis.
15.	Typical functional disorders of the nervous system.	1. Pain syndrome. Theory of pain. Nociceptive and antinociceptive systems. The principles treatment of pain. 2. The role of the nervous system disease. Conclusion. A short summary of the discipline

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