

**Planned schedule of independent work of students 3 year of medical departments for the 2022-2023 academic year**

**(students can use the classroom (№ 1 - 4) from 17-00 hours).**

№ unit	№ themes	The name of the theme	Amount of hour	Questions
<b>5 semester</b>				
1. 30.01.2023 – 03.02.2023	11	Typical disturbance of immunobiological control (IBC).	2	1. Types of disturbance IBC. 2. Immunological status. Type. 3. Primary immunodeficiencies. Hereditary and congenital.
			1	1. Secondary (acquired) immunodeficiency and immunosuppressive state. Acquired immunodeficiency syndrome (AIDS).
2. 06.02.2023 – 10.02.2023	12	Typical disturbance of internal and external respiration. Hypoxia.	2	1. Hypoxia. Definition of the term. 2. Classification of hypoxia in cause (I.R. Petrov) in pathogenesis (A.D. Ado).
			1	1. The etiology and pathogenesis of different types of hypoxia, effects.
3. 13.02.2023 – 17.02.2023	12	Typical disturbance of external respiration. Respiratory failure.	2	1. The concept of respiratory failure (RF). 2. Types of RF on the etiology and pathogenesis. 3. Obstructive, restrictive and mixed type of ventilation of lungs. The criteria. 4. Diffusion form RF. Causes, mechanisms, manifestations, criteria.
			1	1. Ventilation-perfusion form of RF. Causes, mechanisms, manifestations, criteria. 2. Centrogenic RF. Pathological forms of breathing.
4. 20.02.2023 – 24.02.2023	13	Typical disorders kidney.	2	1. Nephrotic syndrome. The etiology and pathogenesis. 2. Nephritic syndrome. The etiology and pathogenesis.
			1	1. The etiology and pathogenesis of immune nephropathy. 2. Renal and extrarenal symptoms and syndromes in nephropathy.
5. 27.02.2023– 03.03.2023	14	Typical disorders of the blood system. The general concept of anemia.	2	1. Definition of "anemia". 2. Methods of study of anemia.
			1	1. Principles of classification of anemia.
6. 06.03.2023 – 10.03.2023	14	Typical disorders of the blood system. Acute and chronic blood loss. Acute and chronic hemorrhagic anemia.	2	1. Acute blood loss. Etiology, pathogenesis, the compensation stage. 2. The pathogenesis of acute hemorrhagic anemia, depending on the stage of compensation in acute blood loss. Blood picture in stages.
			1	1. Chronic blood loss. The etiology and pathogenesis. 2. Chronic hemorrhagic anemia as a symptom of chronic blood loss. Blood picture.
7. 13.03.2023 – 17.03.2023	14	Typical disorders of the blood system. Leukocytosis, leukopenia.	2	1. Leukocytosis. Definition of the term. 2. Types of leukocytosis on the etiology and pathogenesis. 3. Absolute and relative leukocytosis. Types absolute leukocytosis and meaning in the clinic. 4. Leukopenia definition.
			1	1. Types of leukopenia on the etiology and pathogenesis. 2. The absolute leukopenia, their types, the meaning for the clinic. Agranulocytosis as a type of absolute leucopenia
8. 20.03.2023 – 24.03.2023	14	Typical disorders of the blood system. Leukemia.	2	1. Definition of the term "leukemia." 2. Classification of leukemia by morphogenetic principle, clinical evolution, the number of leukocytes in peripheral blood.
			1	3. The main differences in the blood picture of acute and chronic leukemia. 4. Leukemia and leukemoid reaction.
9. 27.03.2023 – 31.03.2023	11-14	Typical disorders of the blood system. Leukemia.	2	1. Methods of study of leukemia.
			1	1. Generalization and control of the level of mastering the educational material on the section "Typical violations of the functions of organs and systems" (the final lesson 3 on "Typical violations of the functions of organs and systems")

10. 03.04.2023 – 07.04.2023	15	Typical disorders of the cardiovascular system. Heart failure.	2	1. Definition of the term "heart failure". 2. Types of etiology, to clinical evolution, to phases and the part heart.
			1	1. The etiology and pathogenesis acute and chronic heart failure.
11. 10.04.2023 – 14.04.2023	15	Typical disorders of the cardiovascular system. Systemic disorders of arterial blood pressure. Arterial hypertension and arterial hypotension.	2	1. Arterial hypertension definition. Type. Primary and secondary arterial hypertension. 2. Hypertensive heart disease. Etiology, pathogenesis, modern concepts of the cause and development of hypertension.
			1	1. Hypotension, definition. Type. Primary and secondary arterial hypotension. 2. Hypotonic diseases.
12. 17.04.2023 – 21.04.2023	15	Typical disorder of the cardiovascular system. Cardiac arrhythmias.	2	1. Cardiac arrhythmias, definition. Type on the etiology and pathogenesis. Classification.
			1	2. Etiology, pathogenesis, ECG signs of certain types of cardiac arrhythmias.
13. 24.04.2023 – 28.04.2023	16	Typical digestive disorders. Disorder of the parietal cavity and digestive system.	2	1. Consequences of removal of different parts of the gastrointestinal tract. Dumping syndrome. Etiology, pathogenesis, manifestations. 2. Disorder of the secretory and motor function of gastric minute. The etiology and pathogenesis. 3. Peptic ulcer and 12 duodenal ulcer. Etiology, pathogenesis, the modern concept of the cause and development.
			1	1. Disorder of cavity and parietalof the indigestion in the gut. The etiology, pathogenesis, consequences. Malabsorption syndrome. Celiac disease.
14. 01.05.2023 – 05.05.2023	17	Typical liver dysfunction. Jaundice.	2	1. Liver failure, definition. Classification in pathogenesis. 2. Manifestations and consequences of liver failure. Hepatic coma. 3. Jaundice definition. Classification in pathogenesis.
			1	1. The etiology and pathogenesis of certain types of jaundice. Differential diagnosis of it.
15. 08.05.2023 – 12.05.2023	18	Typical effects on the endocrine system.	2	1. The causes and the basic structure damage in the pathogenesis of endocrine disorders. 2. Role disorders feedback mechanisms in the development of endocrine disorders. 3. The etiology and pathogenesis of separate syndromes in diseases of the endocrine system.
			1	1. Hypo- and hyperfunctional disorder of adrenal, pituitary and thyroid glands.
16. 15.05.2023 – 19.05.2023	19	Typical disorders of the nervous system.	2	1. General etiology and characteristics of damage to the nervous system (the role of the blood-brain barrier, the second signal trace reaction system, etc.).
			1	1. Basic model pathological processes of the nervous system. Generator of pathologically enhanced excitation, inhibition deficit, Denervation syndrome, nerve dystrophy, pathological system, spinal shock, etc.
17. 22.05.2023 – 26.05.2023	15-19	Typical disorders of the nervous system.	2	1. Pain syndrome. The concept of nociceptive and antinociceptive systems. Types of pain. Principles of therapy
			1	1. Generalization and control of the level of mastering of educational material under the section "Typical violations of the functions of organs and systems" (summary session No. 4 on "Typical violations of organs and systems")
18. 29.05.2023 – 02.06.2023	12-19	Generalization and control of knowledge and skills in three sections of the discipline	2	Final testing in three sections of pathophysiology, clinical pathophysiology.
			1	Final testing in three sections of pathophysiology, clinical pathophysiology.

Chairman of Pathophysiology  
Department, Professor

E.V. Shchetinin