

THE PLANNED SCHEDULE OF PRACTICAL UNIT BY PATHOPHYSIOLOGY
on 5 semester 2022 – 2023 of academic year
Specialty 31.05.01 General Medicine

№ unit	№ section	The name of the theme	Amount of hour	Questions
5 semester				
1. 01.09.2022 – 02.09.2022	1	Topic 1. Introduction. General theories of the disease. <u>Unit 1.</u> Introduction. Pathological physiology as a medical discipline.	2	1. Pathological physiology as science and a medical discipline. Subject of study. 2. Tasks of pathophysiology.
			1	1. Research of methods. 2. The role to pathological physiology in system of the education.
2. 05.09.2022 – 09.09.2022	1	Topic 1. Introduction. General theories of the disease. <u>Unit 2.</u> General nosology. General etiology. General pathogenesis. The role of the damaging environmental factors in the genesis of the disease. Effect of changes in atmospheric pressure.	2	1. The concept of "general nosology", "general etiology," "general pathogenesis." 2. The definition of "disease." Stage and outcome of the disease.
			1	1. The role of the damaging environmental factors in the genesis of the disease. 2. Effect of changes in atmospheric pressure on the body.
3. 12.09.2022 – 16.09.2022	1	Topic 1. Introduction. General theories of the disease. <u>Unit 3.</u> General etiology. General pathogenesis. The damaging effects of radiant energy.	2	1. The essence of the concept of "The pathogenesis of the disease." 2. "The initial link in the pathogenesis", "cause-and-effect relationship in the pathogenesis", "leading element of pathogenesis," "vicious circle" in the pathogenesis of the disease. 3. Radiation sickness. Etiology, pathogenesis, forms, effects on the body.
			1	1. Blood picture in stages of bone marrow form of radiation sickness. 2. Sunstroke. The etiology and pathogenesis.
4. 19.09.2022 – 23.09.2022	1	Topic 2. Cell damage. <u>Unit 4.</u> Cell damage as a general principle of development of the disease.	2	1. The levels of damage in diseases. 2. The causes cell damage. Exogenous and endogenous factors. 3. Specific mechanisms of cell damage.
			1	1. Non-specific mechanisms of cell damage. 2. Manifestations of cell damage, effects. Types of cell death.
5. 26.09.2022 – 30.09.2022	1	Topic 3. The reactivity of the organism. Stress and its importance in pathology. <u>Unit 5.</u> The reactivity of the organism. Its role in the disease	2	1. The definition of "reactivity". 2. Types of reactivity. 3. Factors individual reactivity.
			1	1. The concepts of the mechanisms of individual-reactivity. 2. Role reactivity in the disease.
6. 03.10.2022 – 07.10.2022	2	Topic 4. Typical disorders of metabolism. <u>Unit 6.</u> General typical pathologic processes. Typical carbohydrate metabolism.	2	1. The definition of "diseases", "typical pathological process", "pathological condition". 2. Phases metabolic disorders.
			1	1. Types of carbohydrate metabolism. The concept of "Diabetes mellitus type I and II." 2. Disorders of lipid and protein metabolism in diabetes mellitus.
7. 10.10.2022 – 14.10.2022	2	Topic 4. Typical disorders of metabolism. <u>Unit 7.</u> Typical disorders of water-salt metabolism.	2	1. Types of disorders of water-salt metabolism (dyskinesia). 2. Hypohydration. Types, causes, mechanisms of development, effects. 3. Hyperhydration. Types, causes, mechanisms of development, effects.
			1	1. "Edema". The definition, types, causes, mechanisms of development. The role of Starling in understanding the mechanisms of edema.
8. 17.10.2022 – 21.10.2022	1-2	Topic 4. Typical disorders of metabolism. <u>Unit 8.</u> Typical disorders of water-salt metabolism.	2	1. Classification of edema in pathogenesis.
			1	1. Generalization and control of the level education material on the questions of section 1 "General nosology" and some questions of section 2 "Typical pathological processes".

9. 24.10.2022 – 28.10.2022	2	Topic 5. Changes in regional blood flow and microcirculation. <u>Unit 9.</u> General typical pathologic processes. Changes in regional blood flow and microcirculation.	2	1. Arterial hyperemia. Etiology, pathogenesis, symptoms, consequences. 2. Venous congestion. Etiology, pathogenesis, symptoms, effects on the body.
			1	1. Ischemia, etiology, pathogenesis, symptoms, effects on the body.
10. 31.10.2022 – 04.11.2022	2	Topic 5. Changes in regional blood flow and microcirculation. <u>Unit 10.</u> General typical pathologic processes. Changes in regional blood flow and microcirculation. Thrombosis. Embolism.	2	1. Thrombosis definition. 2. Etiology, pathogenesis, stage of thrombosis. Types of thrombus, outcomes, consequences.
			1	1. Embolism definition. 2. Etiology, pathogenesis, types, effects.
11. 07.11.2022 – 11.11.2022	2	Topic 6. Inflammation. <u>Unit 11.</u> Inflammation. Local and general inflammation. The biological significance. Acute inflammation. Chronic inflammation.	2	1. Inflammation. Definition of the concept. 2. Causes, mechanisms of acute inflammation. 3. Stage outcomes, principles of treatment of acute inflammation. 4. Local clinical signs, the mechanism of their development and general changes in the body in acute inflammation
			1	2. The concept of "chronic inflammation", types, etiology and pathogenesis. The difference between acute from chronic inflammation. The consequence of chronic inflammation.
12. 14.11.2022 – 18.11.2022	2	Topic 7. Acute phase response. Fever. <u>Unit 12.</u> Acute phase response. Fever.	2	1. Acute phase response, determining features mediators, meaning. 2. Fever as part of the acute phase response.
			1	1. Etiology, pathogenesis, stage biological significance. 2. The similarities and differences of fever and overheating.
13. 21.11.2022 – 25.11.2022	2	Topic 8. Neoplastic process. <u>Unit 13.</u> Neoplastic process.	2	1. Neoplastic process, the definition. 2. The etiology of the tumor process, the types of carcinogens. 3. The pathogenesis of cancer. The concepts of "proto-oncogenes", "oncogenes". The mechanisms of carcinogenesis. Stage.
			1	1. Types of tumors. Atypia of cancer. 2. Antineoplastic resistance of the body, types, mechanisms.
14. 28.11.2022 – 02.12.2022	2	Topic 9. Extreme states. <u>Unit 14.</u> Extreme states.	2	1. The concept of "extreme conditions". 2. Types of extreme conditions.
			1	1. Shock, collapse, coma. Causes, mechanisms of development, effects.
15. 05.12.2022 – 09.12.2022	2	Topic 10. Allergy. <u>Unit 15.</u> Typical disturbance of immunological reactivity. Allergy.	2	1. Allergy definition. 2. Classification of etiology and pathogenesis.
			1	1. 1, 2 types of allergic reactions on the classification of Gell, Coombs. Causes, mechanisms of development in stages. Manifestations, consequences.
16. 12.12.2022 – 16.12.2022	2	Topic 10. Allergy. <u>Unit 16.</u> Typical disturbance of immunological reactivity. Allergy.	2	1. 3, 4 types of allergic reactions on the classification of Gell, Coombs. Causes, mechanisms of development in stages. Manifestations, consequences.
			1	1. Generalization and control of the level education material on the questions of section 2 "Typical pathological processes".

Chairman of Pathophysiology
Department, Professor



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