

APPROVED

Chief of the department of pathophysiology
Professor Mykhailo REGEDA

Reviewed and recommended on the
methodical meeting of the department
on 23.06.23 protocol № 19

THEMATIC PLAN OF LECTURES
on Pathological Physiology for students
of medical faculty
5th semester
2023-2024 study years

№	Theme	Hours
1	The role of heredity, constitution, and age changes in pathology. Inherited and congenital diseases	2
2	Pathology of reactivity. Disorders of the immune system. Insufficiency of immune system. Allergy: etiology, pathogenesis, and clinical manifestations. Autoimmune diseases	2
3	Inflammation: its types and manifestations. Etiology and pathogenesis of acute and chronic inflammation. Side effects SARS infection COVID-19 in pathogenesis of inflammation	2
4	Tumors. Etiology and pathogenesis of the tumor growth.	2
5	Carbohydrates metabolism disorders. Diabetes mellitus: definition, classification, clinical manifestation and complication. Etiology, pathogenesis and the major forms of diabetes mellitus.	2
6	Pathophysiology of water and electrolyte metabolism disorders. Edema: its types, etiology, and pathogenesis.	2
7	Acid-base disorders. Acidosis, alkalosis: classification, etiology, and pathogenesis. Mechanisms of compensation and correction of acid-base disorders.	2
8	Pathophysiology of the cell. General mechanisms of cell injury and its death. Necrosis and apoptosis	2
	Total	16

Associate Professor, MD, Ph.D.

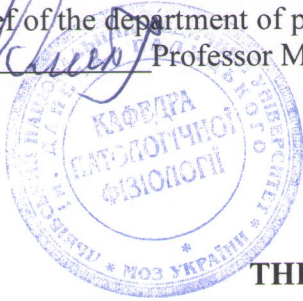


Nataliya SEMENTSIV

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THEMATIC PLAN OF PRACTICAL CLASSES

on Pathological Physiology for students
of medical faculty

5th semester

2023-2024- study years

№	Themes of lessons	Hours
1	Pathophysiology as a subject of study; task and methods of pathophysiology.	2
2	Cell injury	2
3	Pathologic influence of the changed atmospheric pressure on the organism.	2
4	Pathogenic influence of the ionizing radiation on the organism.	2
5	The role of heredity and constitution in pathology.	2
6	Pathology of reactivity. Disorders of immunological reactivity. Side effects SARS COVID-19 in immune response	2
7	Allergy.	2
8	Disorders of the peripheral circulation and microcirculation. Negative complication in microcirculation after SARS COVID-19	2
9	Inflammation. Side effects SARS infection COVID-19 in pathogenesis of inflammation	2
10	Fever.	2
11	Tumors.	2
12	Starvation. Testing students' knowledge and practical skills by the theme "Typical pathological process".	2
13	Carbohydrate metabolism disorders. Diabetes mellitus.	2
14	Water and electrolytic metabolism disorders. Microelements exchange disorders.	2
15	Acid-base balance disorders.	2
	Total	30

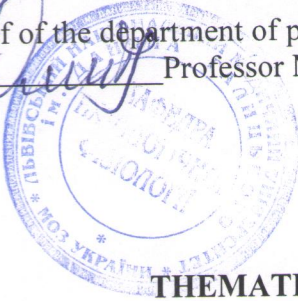
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THEMATIC PLAN OF STUDENTS' INDEPENDENT WORK
on Pathological Physiology for students
of medical faculty
5th semester 2023-2024 study years

№	Themes	Hours
•	Preparing to practical lessons (theoretical preparation, acquiring practical skills)	24
•	Self-preparation of the topics, which are not included to the time-table of practical lessons:	26
	Pathophysiology as a subject of study; task and methods of pathophysiology	2
	Pathologic influence of the changed atmospheric pressure on the organism	1
	Pathogenic influence of the ionizing radiation on the organism	2
	The role of heredity and constitution in pathology	2
	Pathology of reactivity. Disorders of immunological reactivity Disorders of immunological reactivity. Side effects SARS COVID-19 in immune response	2
	Allergy	2
	Disorders of the peripheral circulation and microcirculation	2
	Inflammation. Side effects SARS infection COVID-19 in pathogenesis of inflammation	2
	Fever.	2
	Tumors	1
	Starvation	2
	Carbohydrate metabolism disorders.	2
	Water and electrolytic metabolism disorders. Microelements exchange disorders.	2
	Acid-base balance disorders	2
	Total	50

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