

THEMATIC PLAN OF PRACTICAL CLASSES
on Pathophysiology for students
of medical faculty № 2
(5th semester)

№	Themes of practical classes	Hours
1.	Subject and methods of pathophysiology.	2
2.	Pathogenic influence of environment on the organism.	2
3.	The role of heredity and constitution in pathology.	2
4.	The pathology of reactivity. Immunological reactivity disorders. Immunodeficiency. Allergy.	2
5.	Practical skills from a theme "General nosology". Semantic module 1.	2
6.	Cell damage. Disorders of the peripheral circulation and microcirculation.	2
7.	Inflammation.	2
8.	Fever. Neoplasia. Tumors.	2
9.	Starvation. Hypoxia.	2
10.	Practical skills from a theme "Typical pathological process". Semantic module 2.	2
11.	Disorders of energetic metabolism. Carbohydrate metabolism disorders. Diabetes mellitus.	2
12.	Lipid and protein metabolism disorders.	2
13.	Water and electrolytic metabolism disorders. Microelements exchange disorders. Acid-base balance disorders.	2
14.	Practical skills from a theme "Disorders of metabolism". Semantic module 3.	2
15.	Final module 1	2

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№	Themes of practical classes	Hours
16	Pathophysiology of the blood system. Erythrocytoses. Anemias, caused by hemorrhage.	2
17	Hemolytic anemias and anemias, caused by disorders of erythrogenesis.	2
18	Morphological picture of blood at different types of anaemias.	2
19	Leucocytoses, leucopenias.	2
20	Leucoses.	2
21	Disorder of the hemostatic system.	2
22	Practical skills from a theme "Pathology of blood". Semantic module 4.	2
23	Pathophysiology of the external breathing. Respiratory failure.	2
24	Pathophysiology of systemic circulation. Pathophysiology of heart. Insufficiency of heart. Coronary heart disease.	2
25	Pathophysiology of blood vessels.	2
26	Heart arrhythmias. Pathophysiologic basics of ECG analysis.	2
27	Practical skills with the theme "The pathophysiology of circulatory system and external breathing" Semantic module 5.	2
28	Pathophysiology of the digestive system. Insufficiency of digestion.	2
29	Pathophysiology of liver. Liver failure.	2
30	Pathophysiology of kidneys. Renal failure. Basics of interpretation of urine analyzes.	2
31	Pathophysiology of the endocrine system. General characteristic of disorders of activity of the endocrine system. Pathology of the hypothalamo-pituitary system. Pathology of thyroid, parathyroid glands.	2
32	Pathophysiology of the endocrine system. Pathology of adrenal glands. Stress. Pathophysiology of sex glands.	2
33	Pathophysiology of the nervous system. Pathophysiology of the extreme states.	2
34	Practical skills from a theme "Pathophysiology of digestion, liver, kidneys, endocrine and nervous systems, extreme states". Semantic module 6.	2
35	Final module 2	2