



APPROVED
Chief of the department of pathophysiology
Professor M.S. Regeda

Reviewed and recommended on the
methodical meeting of the department
on 08.11.23. protocol № 6

THEMATIC PLAN OF LECTURES

on Pathological Physiology for students
of medical faculty
6th semester 2023-2024 study years

№	Theme of lecture	Hours
1.	Pathophysiology of blood system. Anaemias: principles of classification, types, aetiology, pathogenesis; clinical and haematological manifestations of anaemias.	2
2.	Leukocytosis, leukopenia. Leukosis: aetiology, pathogenesis. Leukosis: principles of classification, main types, typical manifestations. Aetiology of leukosis. Properties of acute and chronic leukosis pathogenesis.	2
3.	Pathophysiology of blood circulation. Blood circulation insufficiency; cardiac failure, coronary failure: aetiology, pathogenesis, consequences, clinical manifestation. Myocardium infarction. Pathophysiology of blood vessels, arterial hypertension: types, aetiology, pathogenesis. Atherosclerosis: aetiology, pathogenesis.	2
4.	Pathophysiology of breathing. Respiratory failure. Causes and mechanisms of alveolar ventilation, gas diffusion, and blood perfusion abnormalities. Side effect of SARS-Covid-19 on respiratory system.	2
5.	Pathophysiology of gastro-intestinal system. Disorders of secretory and motile function of digestive tract. Digestion canal ulcers. Digestive disorders associated with secretory insufficiency of the pancreas. Pathophysiology of the liver. Hepatic failure. Types, causes, and mechanisms of development.	2
6.	Pathophysiology of kidneys. Causes and mechanisms of disorders of glomerular filtration, tubular reabsorption and secretion. Acute and chronic renal failure: criteria, causes, mechanisms, general manifestations. Glomerulonephritis, nephrotic syndrome.	2
7.	Pathophysiology of the endocrine system. General mechanisms of the endocrine system dysfunctioning.. Syndrome of excess or insufficiency of pituitary gland hormones secretion. Pathophysiology of the adrenals. Pathophysiology of the thyroid gland.	2
8.	Pathophysiology of the nervous system. Principles of classification of the nervous system disorders. Typical pathological processes of the nervous system. Abnormalities of sensitive, motor, and trophic functions of the nervous system. Pathogenesis of neurogenous dystrophies.	2
9.	Pathophysiology of extreme states. Aetiology and pathogenesis of shock and collapse. Aetiology and pathogenesis of comas.	2
	Total	18

Associate Professor, MD, Ph.D.

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THEMATIC PLAN OF PRACTICAL CLASSES

on Pathological Physiology for students
of medical faculty
6th semester
2023-2024 study years

№	Theme	Hours
1.	Pathophysiology of the blood. Red blood cell disorders: anaemia caused by blood loss.	2.5
2.	Red blood cell disorders: haemolytic anaemia and anaemia caused by erythropoiesis disorders.	2.5
3.	White blood cell disorders: leukocytosis, leukopenia. White blood cell disorders: leukaemia.	2.5
4.	Disorders of physicochemical properties of the blood and the haemostasis system. Trombophilic syndromin SARS- Covid development.	2.5
5.	Testing students' knowledge and practical skills by the theme "Blood disorders"	2.5
6.	Pathophysiology of the blood circulation. Blood circulation insufficiency. Pathophysiology of the heart. Cardiac insufficiency. Coronary failure.	2.5
7.	Pathophysiology of the blood vessels.	2.5
8.	Pathophysiology of the lungs. Respiratory failure. Side effect of SARS-Covid-19 on respiratory system.	2.5
9.	Hypoxias.	2.5
10.	Pathophysiology of the gastrointestinal tract. Digestion insufficiency.	2.5
11.	Pathophysiology of the liver. Hepatic failure.	2.5
12.	Pathophysiology of the kidneys. Renal failure.	2.5
13.	Testing students' knowledge and practical skills by the theme "Pathophysiology of the gastrointestinal tract, liver and kidneys"	2.5
14.	Pathophysiology of the endocrine system.	2.5
15.	Pathophysiology of the nervous system.	2.5
16.	Pathophysiology of extreme states.	2.5
	Total	40

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THEMATIC PLAN OF STUDENTS' INDEPENDENT WORK

on Pathological Physiology for students
of medical faculty

6th semester

2023-2024 study years

№	Type of preparation	Hours
1	Preparation to practical classes (theoretical preparation, acquiring of practical skills)	33
2	Individual work	19
3	Preparation to module control	4
	Total	56

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