

PLAN
for the lectures of III course medical students
winter semester of 2026 / 2027

WEEK 1	Health and disease.	Prof. B. Marinov
WEEK 2	Pathophysiology of carbohydrate metabolism. Hypoglycemia. Hyperglycemias. Diabetes mellitus – etiology, pathogenesis, pathobiochemistry, complications.	Prof. B. Marinov
WEEK 3	Pathophysiology of lipid metabolism. Hyperlipoproteinemias – pathogenetic types and their relation to atherosclerosis.	Prof. B. Marinov
WEEK 4	Etiology and pathogenesis of altered water-electrolyte metabolism. Pathogenesis of oedema.	Prof. B. Marinov
WEEK 5	Pathophysiology of acid-base balance.	Prof. B. Marinov
WEEK 6	Pathophysiology of calcium-phosphate homeostasis. Disturbed bone remodeling.	Prof. B. Marinov
WEEK 7	Hypoxia-definition, classification, types, adaptations.	Prof. B. Marinov
WEEK 8	Reactivity and resistance – types and classification.	Prof. B. Marinov
WEEK 9	Pathophysiology of inflammation. Etiology, pathogenesis, classification. Fever - etiology and pathogenesis	Prof. B. Marinov
WEEK 10	Pathophysiology of altered cellular growth. Carcinogenesis – pathogenesis and stages. Interrelations between organism and neoplasma.	Prof. B. Marinov
WEEK 11	Pathophysiology of respiratory diseases. Basic mechanisms disturbing lung function and gas exchange.	Prof. B. Marinov
WEEK 12	Pathophysiology of respiratory diseases. Respiratory failure – etiology, pathogenesis, types.	Prof. B. Marinov
WEEK 13	Dyspnea – etiology, types. Sleep apnea syndromes.	Prof. B. Marinov
WEEK 14	Pathophysiology of cardiocirculatory system – adaptive mechanisms of the heart. Cardiac failure – etiology, pathogenesis, types.	Prof. B. Marinov

11. 09. 2026

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