

**DEPARTMENT OF PATHOPHYSIOLOGY**  
**Teaching Program**  
Practical exercises and seminars for medical students  
Academic year 2023 - 2024  
**Summer 2024**

**26. 02 – 01. 03. 2024**

**1.** Pathophysiology of cardiovascular disorders II. Valvular heart disease. Myocarditis. Endocarditis. Pericardial diseases.

Clinical cases – aortic stenosis, aortic insufficiency, mitral stenosis, mitral insufficiency, acute myocarditis, acute endocarditis, acute pericarditis.

**04. 03 – 08. 03. 2024**

**2.** Pathophysiology of cardiovascular disorders III. Coronary artery disease. Arterial hypertension- primary and secondary. Shock - definition and classification.

Clinical cases – myocardial infarction, renovascular hypertension, primary hyperaldosteronism, hypovolemic shock.

**11. 03 – 15. 03. 2024**

**3. Colloquium:** Pathophysiology of the respiratory and the cardiovascular systems.

**18. 03 – 22. 03. 2024**

**4.** Overview of gastrointestinal disorders. Acid-peptic disease – gastritis, ulcer. Pancreatitis. Disorders of the intestines.

Clinical cases – achalasia, gastroesophageal, reflux disease, duodenal ulcer, acute pancreatitis, celiac disease, Crohn`s disease.

**25. 03 – 29. 03. 2024**

**5.** Etiology and pathogenesis of liver diseases. Jaundice- classification. Hepatitis – acute and chronic. Cirrhosis. Hepatic encephalopathy (coma).

Clinical cases – hepatitis A, B and C, hepatic cirrhosis, hepatorenal syndrome.

**01. 04 – 05. 04. 2024**

**6. Colloquium.** Disorders of the gastrointestinal system and the liver.

**08. 04 – 12. 04. 2024**

**7.** Disorders of the lipid, carbohydrate and protein metabolism. Hyperglycemia and hypoglycemia.

Clinical cases – atherosclerosis, dysbetalipoproteinemia, gout.

**15. 04 – 19. 04. 2024**

**8.** Renal disorders - glomerulonephritis, nephrotic syndrome, nephrolithiasis, renal failure, uremia.

Clinical cases – membrano-proliferative glomerulonephritis, nephrotic syndrome, nephrolithiasis, acute tubular necrosis.

**22. 04 – 26. 04. 2024**

**9.** Alterations in water- electrolyte balance – edema, sodium, potassium and calcium disorders.

Clinical cases – ascites (liver cirrhosis), primary hyperaldosteronism.

**29. 04 – 03. 05 2024**

**10.** Alterations of acid-base balance. Acidosis. Alkalosis.

Clinical case – renal tubular acidosis.

**06. 05 – 10. 05. 2024**

**11. Colloquium.** Disorders of the lipid, carbohydrate and protein metabolism, water-electrolyte and acid-base balance.

**13. 05 – 17. 05. 2024**

**12.** Endocrine disorders. Alterations of the pituitary, thyroid, parathyroid and adrenal glands. Diabetes mellitus. Obesity.

Clinical cases – hyperthyroidism, primary hyperparathyroidism, Cushing`s syndrome diabetes mellitus type I and II, primary hyperaldosteronism.

**20. 05 – 24. 05. 2024**

**13.** Pathophysiology of the nervous system. Motor disorders. Parkinson`s disease.

Clinical cases – myasthenia gravis, amyotrophic lateral sclerosis, Parkinson`s disease.

**27. 05 – 31. 05. 2024**

**14.** Pathophysiology of the nervous system II. Disorders of the somatosensory system. Pain. Stroke.

Clinical cases – syringomyelia, stroke.

**03. 06 – 07. 06. 2024**

**15.** Revision. Certification.

**Head of the Department of**

**Pathophysiology.....**

**/ Assoc. Prof.Dr. R. Tafradjiiska-Hadjiolova,MD,PhD /**