

DEPARTMENT OF PATHOPHYSIOLOGY
Teaching Program
for English Speaking Medical Students
Academic year 2023-2024

Summer 2024

1. Pathophysiology of endocarditis and myocarditis. Valvular heart disease. Aortic stenosis. Aortic regurgitation. Mitral stenosis. Mitral regurgitation.
28.02.2024 - Prof. R. Hadjiolova / 29.02.2024 - Prof. R. Tashev
2. Coronary artery disease. Angina pectoris. Myocardial infarction. Pericardial disease. Pericarditis, pericardial effusion & tamponade. Primary hypertension. Secondary hypertension. Circulatory insufficiency. Shock. Hypotension.
06.03.2024 - Assoc.prof. Hr. Nocheva / 07.03.2024 - Prof. R. Tashev
3. Overview of gastrointestinal disorders. Esophageal achalasia. Reflux esophagitis. Acid-peptic disease. Gastric ulcer, acute erosive gastritis, chronic atrophic gastritis, duodenal ulcer. –
13.03.2024 - Prof. R. Hadjiolova / 14.03.2024 - Prof. R. Tashev
4. Disorders of the gallbladder. Cholelithiasis. Disorders of the exocrine pancreas – pancreatitis and pancreatic insufficiency. Disorders of the small intestine. Diarrhea. Inflammatory bowel disease. Diverticular disease. Constipation. –
20.03.2024- Assoc.prof. Hr. Nocheva / 21.03.2024- Prof. R. Tashev
5. Etiology and pathogenesis of liver diseases. Types of liver dysfunction. Manifestations of liver dysfunction. Acute hepatitis. Chronic hepatitis. Cirrhosis – etiology, pathogenesis and clinical manifestations (portal hypertension, ascites and hepatic encephalopathy). Jaundices. –
27.03.2024- Prof. R. Hadjiolova / 28.03.2024- Prof. R. Tashev
6. Disturbances in lipids digestion and absorption in the gastro-intestinal tract. Disturbances in lipids transport. Hyperlipidemia. Fatty liver. Disturbances in lipids metabolism in fat tissue. Obesity. Disturbances in intermediary lipid metabolism. Ketosis. Lipoprotein metabolism and Pathobiochemistry. Atherosclerosis. – **03.04.2024- Assoc.prof. Hr. Nocheva / 04.04.2024- Prof. R. Tashev**
7. Disturbances in carbohydrates digestion, absorption and transport. Hyper- and hypoglycemia. Disturbances in protein digestion and absorption. Changes in serum protein levels. Disturbances in intermediary protein metabolism and amino acid catabolism. Disturbances in the final steps of protein metabolism. Disturbances in purine metabolism. Gout. – **10.04.2024- Prof. R. Hadjiolova / 11.04.2024- Prof. R. Tashev**
8. Alterations of kidney structure and function in disease. Manifestations of altered kidney function. Acute and chronic renal failure. Uremia. Glomerulonephritis. Nephrotic syndrome. Renal stones. – **17.04.2024- Assoc.prof. Hr. Nocheva / 18.04.2024- Prof. R. Tashev**
9. Disturbances in water-electrolyte balance. Edema. Disturbances in mineral metabolism – sodium, potassium, chlorides, calcium, phosphates, trace elements.–
24.04.2024- Prof. R. Hadjiolova / 25.04.2024- Prof. R. Tashev

- 10.** Basic disturbances in acid-base equilibrium. Acidosis. Alkalosis. Interrelationships between intracellular and extracellular pH. –
01.05.2024- Assoc.prof. Hr. Nocheva / 02.05.2024- Prof. R. Tashev
- 11.** Primary & secondary hyperparathyroidism. Familial hypocalciuric hypercalcemia. Hypoparathyroidism & pseudohypoparathyroidism. Osteoporosis and osteomalacia. Diabetes mellitus - pathology & pathogenesis, pathobiochemistry, complications in diabetes mellitus. Body weight control by the hypothalamus - obesity. Pituitary adenoma. Hypopituitarism. Diabetes insipidus. Syndrome of inappropriate vasopressin secretion. – **08.05.2024- Prof. R. Hadjiolova / 09.05.2024- Prof. R. Tashev**
- 12.** Hyperthyroidism. Hypothyroidism. Goiter. Excessive secretion of adrenal glucocorticoid hormones - Cushing's syndrome. Adrenocortical insufficiency - Addison's disease. Hyperaldosteronism - Conn's syndrome. Disorders of adrenal androgen production. Disorders of the female reproductive tract. Menstrual disorders and infertility. Disorders of the male reproductive tract. Male infertility and benign prostatic hyperplasia. –
15.05.2024- Prof. A. Stoynev / 16.05.2024- Prof. R. Tashev
- 13.** Motor disturbances: lower and upper motor neurons, cerebellum and basal ganglia. Motor neuron disease. Parkinson's disease. Disturbances of the somatosensory system. Pain. – **22.05.2024- Prof. A. Stoynev / 23.05.2024 - Assoc.prof. Hr. Nocheva**
- 14.** Sensory disturbances – vision, hearing & balance. Disturbances in consciousness, arousal & cognition. Dementia & Alzheimer's disease. Epilepsy. Disturbances of the vegetative nervous system. Stroke. – **29.05.2024- Prof. A. Stoynev / 30.05.2024- Prof. R. Tashev**
- 15.** Pathophysiology of adaptation. Stress. Extreme states. – **05.06.2024- Prof. A. Stoynev / 06.06.2024- Prof. R. Tashev**

Groups 33 - 53 - Wednesday - 14.00 – 15.30 h., hall 4, 4th floor, 2 Zdrave str.
Groups 54 - 74 - Thursday - 11.30 – 13.00h., hall 3, 4th floor, 2 Zdrave str.

Textbooks for medical students (English speaking) :

1. G.D. Hammer, S. J. McPhee (Eds). Pathophysiology of Disease: An Introduction to Clinical Medicine. The MacGraw-Hill Companies, Lange, 7th edition 2014, ISBN 978-0-07-162167-0.
2. S.L. Robbins, R.S. Cotran, V. Kumar. Pathologic basis of disease. W.B. Saunders Co., 9th edition, 2014, ISBN 978-1-4160-3121-5.
3. S. Silbernagl, F. Lang. Color Atlas of Pathophysiology. Thieme, 3rd edition, 2016 ISBN 978-3-13-116552-7.

Head, Department of Pathophysiology

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