



Department of Human Physiology and Pathophysiology

PATHOPHYSIOLOGY

SEMINARS (27 h):

No.	Semianr	Tutor	Hours
1	General pathophysiology part. 1. 1. Pathophysiology. 2. Health and disease. 3. Pathophysiology of cell. 4. Inflammation.	A. Prowancki, MD	2 h
2	General pathophysiology part 2. 1. Effects of environmental factors. 2. Pathophysiology of edema. 3. Disorders of thermoregulation. 4. Pathophysiology of burns.	A. Prowancki, MD	2 h
3	Pathophysiology of the hematopoietic system. 1. Diseases of the red blood cells. 2. Diseases of the white blood cells. 3. Hemostasis disorders.	A. Prowancki, MD	2 h





COLLOQUIUM 1 (K1) – 60 min – sem. 1-3, literature: JLB – Chapter 1, 2, 4, 7, 9, 10, 11, 13, 14, 24, 25

4	Pathophysiology of the cardiovascular system - ECG. 1. Pathophysiology changes in the ECG recording.	A. Prowancki, MD	2h
5	Pathophysiology of the cardiovascular system. 1. Arterial hypertension. 2. Pulmonary hypertension. 3. The formation of murmurs.	A. Prowancki, MD	2h
6	Pathophysiology of the respiratory system. 1. Pathophysiology of the obstructive diseases in the respiratory system. 2. Pathophysiology of the restrictive diseases in the respiratory system. 3. Pathophysiology of interstitial diseases. 4. Respiratory failure.	B. Kordas, DVM	2 h
COLLOQUIUM 2 (K2) – 60 min – sem. 4-6, literature: <u>JLB – Chapter 15, 16, 18, 19, 21, 22, 23</u>LSL – Chapter 4			
7	Pathophysiology of the digestive system - digestive tract and pancreas. 1. Acute liver failure. 2. Fatty liver. 3. Cirrhosis of the liver. 4. Cholestasis. Jaundice. 5. Viral hepatitis.	B. Kordas, DVM	2 h





	6. Autoimmune diseases of the liver.		
8	Pathophysiology of the digestive system - liver. 1. Diarrhea. 2. Celiac disease. 3. Inflammatory bowel diseases. 4. Malnutritional disorders. 5. Chronic pancreatitis.	A. Prowancki, MD	2 h
9	Pathophysiology of renal and bladder function. 1. Urinary tract infections, urinary system disorders. 2. Tumors and kidney cysts. 3. Chronic kidney disease. 4. Urolithiasis.	N. Kwella, MD, PhD	2h
10	Pathophysiology of the endocrine system. 1. Pathophysiology of the reproductive system. 2. Types of diabetes. 3. Nutrition and nutritional disorders - psychosomatic nutritional disorders, malnutrition and cachexia. 4. Vitamins.	B. Kordas, DVM	2 h
11	Pathophysiology of bone diseases. Cytokine storm. Macrophage activation syndrome. 1. Bone metabolism.	B. Kordas, DVM	2 h





<ol style="list-style-type: none">2. The role and importance of vitamin D.3. Osteopenia and osteoporosis.4. Osteomalasia.5. Pro-and anti-inflammatory cytokines.6. Receptors cytokines.7. Cytokine storm in the course of macrophage activation syndrome.		
COLLOQUIUM 3 (K3) – 60 min – sem. 9-12, literature: <u>JLB – Chapter 10, 27, 28, 29, 36, 37, 38, 40, 41, 42, p. 1053-1056</u>		

JLB – J. L. Banasik, "Pathophysiology", Elsevier, 2022, 7th edition

LSL – L. S. Lilly, „Pathophysiology of Heart Disease: An Introduction to Cardiovascular Medicine. Seventh edition.”, Wolters Kluwer, 2020, 7th edition

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