

Subject: Pathological Physiology 1
Study programme: General Medicine
Category of subject: Obligatory

Form of study: Lectures/seminars 2/3
Study form: Full-time study
Prerequisites: Medical Physiology 2

Semester: 5th
Completion of the course: Credit
Credits: 5

Department of Pathological Physiology, Faculty of Medicine, Pavol Jozef Šafárik University, Košice
Schedule of lectures and tutorials from Pathological Physiology 1 for General Medicine, Winter semester 2025/2026

W	Lecture (Tuesday 12 ¹⁵ -13 ⁴⁵ P2)		Lecturer	Practical lessons		Credit tests (other duties)
	Date	Topic		Date	Topic	
1.	16.9.	Etiology I. Introduction to Pathological Physiology Cellular pathophysiology	Pallayová	16.9.- 19.9.	Introduction to Pathophysiology. Instructions General nosology, General etiology	Choosing presentation topics
2.	23.9.	Etiology II. Genetic diseases Non-mendelian heredity, Epigenetics	Lovásová	22.9.- 26.9.	Genetics. Monogenic diseases, Chromosomal diseases, Polygenic diseases	Quiz, presentations, Case reports
3.	30.9.	Etiology III. Disorders of nutrition Obesity, Metabolic syndrome	Pallayová	29.9.- 3.10.	Nutrition. Undernutrition, Eating disorders, Vitamins, Trace elements	Quiz, presentations, Case reports
4.	7.10.	Etiology IV. Disorders of internal homeostasis Fluid, Electrolyte, Acid-base homeostasis	Lovásová	6.10.- 10.10.	Disorders of homeostasis. Acid-base disorders, compensation, Edemas	Protocol 1 Acid-base disorders
5.	14.10.	Pathogenesis I. Typical pathological processes Acute and chronic inflammation	Beňačka	13.10.- 17.10.	Typical pathological processes I. Fever	Quiz, presentations, Case reports
6.	21.10.	Pathogenesis II. Carcinogenesis	Beňačka	20.10.- 24.10.	Typical pathological processes II. Hypoxia, shock	Quiz, presentations, Case reports
7.	28.10.	Credit test 1		27.10.- 29.10.	Credit test 1 Semester work instructions	Credit test 1
8.	4.11.	Pathogenesis III. Immunology Hypersensitivity, Autoimmunity, Immunodeficiency	Beňačka	3.11.- 7.11.	Typical pathological processes III. Pain	Quiz, presentations, Case reports
9.	11.11.	Pathogenesis IV. Disorders of consciousness Quantitative and qualitative disorders, terminal states	Beňačka	10.11.- 14.11.	Stress. Neurohumoral regulation, adaptation, stress diseases	Quiz, presentations, Case reports
10.	18.11.	Hematology I. Pathophysiology of leukocytes Leukemias, Nonmalignant disorders of leukocytes	Brenišin	17.11.- 21.11.	Hematology I. Basic manifestations of hematologic disorders, hematological parameters	Quiz, presentations, Case reports
11.	25.11.	Hematology II. Pathophysiology of hemostasis Disorders of thrombocytes and hemocoagulation	Brenišin	24.11.- 28.11.	Hematology II. Anemia	Protocol 2 Anemia
12.	2.12.	Renal and urinary tract. Glomerulonephritis, tubular disorders, acute kidney injury, chronic kidney disease	Pallayová	1.12.- 5.12.	Renal and urinary tract. Basic manifestations of kidney disorders, nephrolithiasis	Quiz, presentations, Case reports
13.	9.12.	Credit test 2		8.12.- 12.12.	Credit test 2 Ageing	Credit test 2
14.	16.12.	Reserved topic		15.12.- 19.12.	Evaluation of semester, credits	

October 30 – Dean's day off, October 31 – Rector's day off

Prof. MUDr. Mária Pallayová, PhD