

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

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

Semester: 5th
Completion of the course: Credit
Credits: 3

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

W	Lecture (Monday 9 ¹⁵ -10 ⁴⁵ P2)		Lecturer	Practical lessons		Credit tests (other duties)
	Date	Topic		Date	Topic	
1.	15.9.	PUBLIC HOLIDAY	---	16.9.-19.9.	Introduction to Pathophysiology , Instructions Physical and chemical factors in oral cavity	Assignment of presentations
2.	22.9.	Etiology II. Genetics and epigenetics in dental medicine; soft and hard palate malformations	Lovásová	22.9.-26.9.	Caries, parodontitis, malvolution of soft and hard tissues	Quiz, presentations, Case reports
3.	29.9.	Etiology III. Disorders of nutrition in dental medicine – avitaminoses, trace elements, lack of nutrients	Brenišin	29.9.-3.10.	Nutrition. Obesity. Undernutrition, Eating disorders	Quiz, presentations, Case reports
4.	6.10.	Etiology IV. Disorders of internal homeostasis Fluid, Electrolyte, Acid-base homeostasis	Lovásová	6.10.-10.10.	Disorders of homeostasis. Acid-base disorders, compensation, Edemas in dental medicine	Quiz, presentations, Case reports
5.	13.10.	Pathogenesis I. Typical pathological processes Acute and chronic inflammation	Beňačka	13.10.-17.10.	Typical pathological processes I. Inflammation in oral cavity, wound healing, fever	Quiz, presentations, Case reports
6.	20.10.	Pathogenesis II. Carcinogenesis Oral cavity cancer – benign, pre-malignant, malignant	Beňačka	20.10.-24.10.	Typical pathological processes II. Hypoxia, ischemia, cyanosis	Quiz, presentations, Case reports
7.	27.10.	Credit test 1	---	27.10.-29.10.	Credit test 1 Semester work instructions	Credit test 1
8.	3.11.	Pathogenesis III. Immunology Hypersensitivity, Autoimmunity, Immunodeficiency	Beňačka	3.11.-7.11.	Typical pathological processes III. Microcirculation failure, shock, DIC, MODS	Quiz, presentations, Case reports
9.	10.11.	Pathogenesis IV. Pain in head and neck region, trigeminal neuralgia	Nováková	10.11.-14.11.	Stress. Neurohumoral regulation, adaptation, stress diseases	Quiz, presentations, Case reports
10.	17.11.	Hematology I. Pathophysiology of leukocytes in dental medicine	Brenišin	17.11.-21.11.	Hematology I. Red blood cells disorders in dental medicine	Quiz, presentations, Case reports
11.	24.11.	Hematology II. Pathophysiology of hemostasis	Brenišin	24.11.-28.11.	Hematology II. Platelets disorders, bleeding diatheses in dental medicine	Quiz, presentations, Case reports
12.	1.12.	Renal and urinary tract. Glomerulonephritis, tubular disorders, acute kidney injury, chronic kidney disease	Nováková	1.12.-5.12.	Renal and urinary tract. Kidney disorders, manifestation in oral cavity	Quiz, presentations, Case reports
13.	8.12.	Credit test 2	---	8.12.-12.12.	Credit test 2 Ageing, alterations in head and oral cavity regions	Credit test 2
14.	15.12.	Reserved topic		15.12.-19.12.	Evaluation of semester, credits	

Dean's Day Off – 30th Oct, Rector's Day-Off 31st Oct.