Subject: Pathological Physiology 1 **Form of study:** Lectures/seminars 2/2 **Semester:** 5th
Study programme: Dental Medicine **Study form:** Full-time study **Completion of the course:** Credit
Category of subject: Obligatory **Prerequisites:** MedicalPhysiology 2 **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 2026/2027

W	Lecture (Monday 9[15]-10[45] P2)		Lecturer	Practical lessons		Credit tests (other duties)
	Date	Topic		Date	Topic	
1.	14.9.	N/A	---	16.9.-18.9.	**Introduction to Pathophysiology**, Instructions Physical and chemical factors in oral cavity	Assignment of presentations
2.	21.9.	**Etiology II.** Genetics and epigenetics in dental medicine; soft and hard palate malformations	Lovásová	21.9.-25.9.	**Oral cavity I** Caries, parodontitis, malvolution of soft and hard tissues	Quiz, presentations, Case reports
3.	28.9.	**Etiology III.** Disorders of nutrition in dental medicine – avitaminoses, trace elements, lack of nutrients	Nováková	28.9.-2.10.	**Nutrition.** Obesity. Undernutrition, Eating disorders	Quiz, presentations, Case reports
4.	05.10.	**Etiology IV**. Disorders of internal homeostasis Fluid, Electrolyte, Edemas in dental medicine	Lovásová	5.10.-9.10.	**Disorders of homeostasis.** Acid-base disorders, compensation, Acid-base homeostasis	Quiz, presentations, Case reports
5.	12.10	**Pathogenesis I.** Typical pathological processes Acute and chronic inflammation	Beňačka	12.10.-16.10.	**Typical pathological processes I.** Inflammation in oral cavity, wound healing, fever	Quiz, presentations, Case reports
6.	19.10.	**Pathogenesis II.** Carcinogenesis Oral cavity cancer – benign, pre-malignant, malignant	Beňačka	19.10.-23.10	**Typical pathological processes II.** Microcirculation failure, shock, DIC, MODS	Quiz, presentations, Case reports
7.	26.10.	***Credit test 1***	---	26.10.-31.10.	***Credit test 1*** Semester work instructions	***Credit test 1***
8.	02.11.	**Pathogenesis III.** Hypoxia, ischemia, cyanosis	Brenišin	2.11.-6.11.	**Typical pathological processes III.** Immunology Hypersensitivity, Autoimmunity, Immunodeficiency	Quiz, presentations, Case reports
9.	09.11.	**Pathogenesis IV.** Pain in head and neck region, trigeminal neuralgia	Nováková	9.11.-13.11.	**Stress.** Neurohumoral regulation, adaptation, stress diseases	Quiz, presentations, Case reports
10.	16.11.	**Hematology I**. Pathophysiology of leukocytes in dental medicine	Brenišin	16.11.-20.11.	**Hematology I**. Red blood cells disorders in dental medicine	Quiz, presentations, Case reports
11.	23.11.	**Hematology II**. Pathophysiology of hemostasis	Brenišin	23.11.-27.11.	**Hematology II**. Platelets disorders, bleeding diatheses in dental medicine	Quiz, presentations, Case reports
12.	30.11.	**Renal and urinary tract**. Glomerulonephritis, tubular disorders, acute kidney injury, chronic kidney disease	Pallayová	30.11.-4.12.	**Renal and urinary tract.** Kidney disorders, manifestation in oral cavity	Quiz, presentations, Case reports
13.	07.12.	***Credit test 2***	---	7.12.-11.12.	***Credit test 2*** Ageing, alterations in head and oral cavity regions	***Credit test 2***
14.	14.12.	Immunopathophysiology, autoimmunity, immunodeficiency, hypersensitivity	Beňačka	14.12.-18.12.	Evaluation of semester, credits	

Dean's Day Off – 30th Oct, Rector's Day Off – 2nd Nov, 17th Nov .

Prof. MUDr. Mária Pallayová, PhD

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