

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 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.	<i>Reserved topic</i>		14.12.-18.12.	Evaluation of semester, credits	

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