

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: 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 the lectures and tutorials from Pathological Physiology 1 for Dental Medicine, Winter semester 2024/2025

W	Lecture (Monday 9 ¹⁵ – 10 ⁴⁵ P2)			Lecturer	Practical lessons		Credit tests (other duties)
	Date	Topic	Date		Topic (T-tutorials, S-seminars)		
Unite 1	1.	16.9.	Oral health I. Intro Physical and chemical factors in the oral cavity	Beňačka	16.9.-20.9.	T: Introduction into pathophys., instructions S: Nosology; Pathol. manif., processes	Scientific work
	2.	23.9.	Etiology II. Mendelian, non – mendelian genetics ; Genetics in dentistry	Lovásová	23.9.-27.9.	T: Rev.: Phys. factors; hypo/ hyperbaria S: Rev: Chemical factors - <i>smoking, alcohol</i>	Semester work instructions
	3.	30.9.	Etiology III. Disorders of nutrition in dentistry; (incl. obesity, malnutrition, avitaminoses)	Lovásová	30.9.-4.10.	T: Rev.: Genetics; Lip& gingival clefts S: <i>Disorders/malform. of soft/hard palate</i>	Quiz Presentation
	4.	7.10.	Etiology IV. Disorders of inner milieu (water, electrolytes; edemas);	Lovásová	7.10.-11.10.	T: Rev: Nutrition; Caries/hard tissues dis. S: <i>Avitaminoses; Trace elements (fluorine)</i>	Quiz Presentation
Unite 2	5.	14.10.	Pathogenesis I. Microcirculatory failure Shock, MODS, DIC	Brenišin	14.10.-18.10.	T: Rev.: Inner milieu; Edemas S: <i>Minerals (calcium, phosphate)</i>	Quiz Presentation
	6.	21.10.	Pathogenesis II. Typical pathol. processes Pain, Fever, Ischemia, Hypoxia	Beňačka	21.10.-25.10.	T: Acid base balance S: <i>Review of etiology. Reserved topic.</i>	Credit test 1
	7.	28.10.	Pathogenesis III. Acute & Chronic inflammation; SIRS; Sepsis; MODS	Beňačka	28.10.-1.11.	T: Typical path. proc., Fever – forms, causes S: <i>Pain – pain of head and neck</i>	Quiz Presentation
	8.	4.11.	Pathogenesis IV: Immunopathology & hypersensitivity	Beňačka	4.11.-8.11.	T: Inflammation markers, sepsis, wound heal. S: <i>Chronic inflammation, granulomas</i>	Quiz Presentation
	9	11.11.	Pathogenesis V. Tumors - biology; molecular genetics	Beňačka	11.11.-15.11.	T: Rev: Cancer; Genetic background S: <i>Precancer. and canc. states in oral cavity</i>	Quiz Presentation
	10.	18.11.	Pathogenesis VI. Stress & maladaptation; Cellular stress	Beňačka	18.11.-22.11.	T: Rev. Stress; Disorders form maladaptation S: <i>Oxidative stress Glycation end products</i>	Quiz Presentation
	11.	25.11.	Pathogenesis VII. Disorders of consciousness; Terminal states	Beňačka	25.11.-29.11.	T: Rev. Terminal states S: <i>Ageing in oral cavity</i>	Quiz Presentation
	12.	2.12.	Oral health II. Disorders of oral cavity (caries, periodont., red & white lesions etc.)	Beňačka	2.12.-6.12.	T: Systemic disease manifestations in OC S: <i>Autoimmunity & iummunodeficiency</i>	Quiz Presentation
Unite	13.	9.12.	Haematology I: Disorders of haemostasis	Ráčz	9.12.-13.12.	S: <i>Review of pathogenesis; Reserved topic</i>	Credit test 2
	14.	16.12.	Oral health III: Typical pathological processes in oral cavity	Nováková	16.12.-20.12.	Evaluation of the semester results. Credits	Topics of semester work

October 30 – Dean’s day off, October 31 - Rector’s day off, November 1 and November 17 – National Holidays

Seminars (S) = special topics for discussion; **Tutorials & homeworks & exams (T)** = discussions, consultations, oral and Quiz exams on the current topics.
Responsible for the subject: doc. MUDr. Roman Beňačka, CSc., mim. prof.