

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 2022/2023

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.	19.9.	Oral health I. Physical & chemical lesions and reactive changes in the oral cavity	Beňačka	19.9.-23.9.	T: Introduction into pathophys., instructions S: Nosology; Pathol. manif., processes	Scientific work
	2.	26.9.	Etiology I: Mendelian, non – mendelian genetics ; Genetics in dentistry	Lovásová	26.9.-30.9.	T: Phys. factors; electr. inj., hypo/hyperbaria S: Chemical factors - smoking, alcohol	Semester work instructions
	3.	3.10.	Etiology II : Disorders of nutrition in dentistry; (incl. obesity, malnutrition, avitaminoses)	Lovásová	3.10.-7.10.	T: Review of genetic disorders S: <i>Mendelian & non- mendelian genetics</i>	QiuZ Presentation
	4.	10.10.	Etiology III: Disorders of inner milieu (water, electrolytes; calcium, phosphates);	Lovásová	10.10.-14.10.	T: Nutrition disorders; Metabolic sy. S: <i>Avitaminoses; Trace elements (fluorine)</i>	QiuZ Presentation
Unite 2	5.	17.10.	Pathogenesis I. Microcirculatory failure Shock, MODS, DIC (hypercoagulation)	Beňačka	17.10.-21.10.	T: <i>Acid - base balance disorders</i> S: <i>Edemas; Minerals (calcium, phosphate)</i>	QiuZ Presentation
	6.	24.10.	Pathogenesis II. Typical pathol. processes Pain, Fever, Ischemia, Hypoxia	Beňačka	24.10.-28.10.	S: <i>Review of etiology; Reserved topic</i>	Credit test 1
	7.	31.10.	Rector's day off		2.11.-4.11.	T: Typical path. procc., Fever – forms, causes S: <i>Pain – pain of head and neck</i>	QiuZ Presentation
	8.	7.11.	Pathogenesis III. Acute and chronic inflammation; SIRS; Sepsis; MODS	Beňačka	7.11.-11.11.	T: Inflamm. markers; Sepsis; Wound healing S: <i>Chronic inflammation; Abscess, granuloma</i>	QiuZ Presentation
	9	14.11.	Pathogenesis IV. Immunopathology	Beňačka	14.11.-18.11.	T: Dis. of immunity in dentistry S: <i>Immunodeficiency & autoimmunity</i>	QiuZ Presentation
	10.	21.11.	Pathogenesis V. Tumors - biology; molecular genetics	Beňačka	21.11.-25.11.	T: Genetic background of tumours S: <i>Precancer. and canc. states in oral cavity</i>	QiuZ Presentation
	11.	28.11.	Pathogenesis VI. Stress & maladaptation; Cellular stress	Beňačka	28.11.-2.12.	T: Stress; disorders form maladaptation S: <i>Oxidative stress Glycation end products</i>	QiuZ Presentation
	12.	5.12.	Pathogenesis VII. Disorders of consciousness Terminal states	Beňačka	5.12.-9.12.	T: Coma; Brain death S: <i>Resuscitation; Postresuscitation disease</i>	QiuZ Presentation
Unite 3	13.	12.12.	Oral health II. Disorders of oral cavity (caries, periodont., red & white lesions etc.)	Beňačka	12.12.-16.12.	S: <i>Review of pathogenesis; Reserved topic</i>	Credit test 2
	14.	19.12.	Oral health III. Typical path. processes in oral medicine; <i>Ontogenesis in oral cavity</i>	Lovásová	19.12.-22.12.	Evaluation of the semester results. Credits	Topics of semester work

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.