

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 2021/2022

| 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. | 20.9. | Oral health I. Physical & chemical lesions and reactive changes in the oral cavity | Beňačka | 20.9.-24.9. | T: Introduction into pathophys., instructions S: Nosology; Pathol. manif., processes | Scientific work |
| | 2. | 27.9. | Etiology I: Mendelian, non – mendelian genetics ; Genetics in dentistry | Lovásová | 27.9.-1.10. | T: Phys. factors; electr. inj., hypo/hyperbaria S: Chemical factors - smoking, alcohol | Semester work instructions |
| | 3. | 4.10. | Etiology II : Disorders of nutrition in dentistry; (incl. obesity, malnutrition, avitaminoses) | Lovásová | 4.10.-8.10. | T: Review of genetic disorders S: <i>Mendelian & non- mendelian genetics</i> | QiuZ Presentation |
| | 4. | 11.10. | Etiology III: Disorders of inner milieu (water, electrolytes; calcium, phosphates); | Lovásová | 11.10.-15.10. | T: Nutrition disorders; Metabolic sy. S: <i>Avitaminoses; Trace elements (fluorine)</i> | QiuZ Presentation |
| Unite 2 | 5. | 18.10. | Pathogenesis I. Microcirculatory failure Shock, MODS, DIC (hypercoagulation) | Beňačka | 18.10.-22.10. | T: <i>Acid - base balance disorders</i> S: <i>Edemas; Minerals (calcium, phosphate)</i> | QiuZ Presentation |
| | 6. | 25.10. | Pathogenesis II. Typical pathol. processes Pain, Fever, Ischemia, Hypoxia | Beňačka | 25.10.-29.10. | S: <i>Review of etiology; Reserved topic</i> | Credit test 1 |
| | 7. | 1.11. | Public Holiday | | 2.11.-5.11. | T: Typical path. procc., Fever – forms, causes S: <i>Pain – pain of head and neck</i> | QiuZ Presentation |
| | 8. | 8.11. | Pathogenesis III. Acute and chronic inflammation; SIRS; Sepsis; MODS | Beňačka | 8.11.-12.11. | T: Inflamm. markers; Sepsis; Wound healing S: <i>Chronic inflammation; Abscess, granuloma</i> | QiuZ Presentation |
| | 9 | 15.11. | Pathogenesis IV. Immunopathology | Beňačka | 15.11.-19.11. | T: Dis. of immunity in dentistry S: <i>Immunodeficiency & autoimmunity</i> | QiuZ Presentation |
| | 10. | 22.11. | Pathogenesis V. Tumors - biology; molecular genetics | Beňačka | 22.11.-26.11. | T: Genetic background of tumours S: <i>Precancer. and canc. states in oral cavity</i> | QiuZ Presentation |
| | 11. | 29.11. | Pathogenesis VI. Stress & maladaptation; Cellular stress | Beňačka | 29.11.-3.12. | T: Stress; disorders form maladaptation S: <i>Oxidative stress Glycation end products</i> | QiuZ Presentation |
| | 12. | 6.12. | Pathogenesis VII. Disorders of consciousness Terminal states | Beňačka | 6.12.-10.12. | T: Coma; Brain death S: <i>Resuscitation; Postresuscitation disease</i> | QiuZ Presentation |
| Unite 3 | 13. | 13.12. | Oral health II. Disorders of oral cavity (caries, periodont., red & white lesions etc.) | Beňačka | 13.12.-17.12. | S: <i>Review of pathogenesis; Reserved topic</i> | Credit test 2 |
| | 14. | 20.12. | Oral health III. Typical path. processes in oral medicine; <i>Ontogenesis in oral cavity</i> | Lovásová | 20.12.-24.12. | Evaluation of the semester results. Credits | Topics of semester work |

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.