

CONTENT OF THE SUBJECT

<b>Subject:</b>	<b>Pathological physiology 1</b>		
<b>Study</b>	Dental Medicine	<b>Study Period:</b>	Winter time
<b>Evaluation:</b>	Graduated (credit)	<b>Subject Type:</b>	Compulsory
<b>Content:</b>	2 h. lectures and 2h. practical exercises/ week		Total 56 hours

**Department: Department of Pathological Physiology, UPJŠ FM**

<b>Week</b>	<b>Lectures</b> <a href="https://portal.lf.upjs.sk/index-en.php">https://portal.lf.upjs.sk/index-en.php</a>	<b>Seminars</b>
1.	<b>Oral health I:</b> Physical & chemical lesions and reactive changes in the oral cavity	<b>Tutorial (T):</b> Introduction into pathophys., instructions <b>Seminar (S):</b> Nosology; Pathological manifestation of processes
2.	<b>Etiology I:</b> Mendelian, non – mendelian genetics; Genetics in dentistry	<b>T:</b> Physical factors; electrical injury, hypo/hyperbaria <b>S:</b> Chemical factors - smoking, alcohol
3.	<b>Etiology II :</b> Disorders of nutrition in dentistry; (incl. obesity, malnutrition, avitaminoses)	<b>T:</b> Review of genetic disorders <b>S:</b> Mendelian & non- mendelian genetics
4.	<b>Etiology III:</b> Disorders of inner milieu (water, electrolytes; calcium, phosphates)	<b>T:</b> Nutrition disorders; Metabolic sy. <b>S:</b> Avitaminoses; Trace elements (fluorine)
5.	<b>Pathogenesis I.</b> Microcirculatory failure Shock, MODS, DIC (hypercoagulation)	<b>T:</b> Acid - base balance disorders <b>S:</b> Edemas; Minerals (calcium, phosphate)
6.	<b>Pathogenesis II.</b> Typical pathol. processes Pain, Fever, Ischemia, Hypoxia	<b>S:</b> Review of etiology; Reserved topic Credit test 1
7.	<b>Public Holiday</b>	<b>T:</b> Typical path. procc., Fever – forms, causes <b>S:</b> Pain – pain of head and neck
8.	<b>Pathogenesis III.</b> Acute and chronic inflammation; SIRS; Sepsis; MODS	<b>T:</b> Inflamm. markers; Sepsis; Wound healing <b>S:</b> Chronic inflammation; Abscess, granuloma
9.	<b>Pathogenesis IV.</b> Immunopathology	<b>T:</b> Dis. of immunity in dentistry <b>S:</b> Immunodeficiency & autoimmunity
10.	<b>Pathogenesis V.</b> Tumors - biology; molecular genetics	<b>T:</b> Genetic background of tumours <b>S:</b> Precancer. and canc. states in oral cavity
11.	<b>Pathogenesis VI.</b> Stress & maladaptation; Cellular stress	<b>T:</b> Stress; disorders form maladaptation <b>S:</b> Oxidative stress; Glycation end products

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<b>12.</b>	<b>Pathogenesis VII.</b> Disorders of consciousness Terminal states	<b>T:</b> Coma; Brain death <b>S:</b> Resuscitation; Postresuscitation disease
<b>13</b>	<b>Oral health II.</b> Disorders of oral cavity (caries, periodont., red & white lesions etc.)	<b>S:</b> Review of pathogenesis; Reserved topic Credit test 2
<b>14.</b>	<b>Oral health III.</b> Typical path. processes in oral medicine; Ontogenesis in oral cavity	Evaluation of the semester results. Credits