

CONTENT OF THE SUBJECT

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

Department: Department of Pathological Physiology, UPJŠ FM

Week	Lectures https://portal.lf.upjs.sk/index-en.php	Seminars
1.	Etiology I. Introduction to Pathological Physiology Evidence-based medicine	Introduction to Pathophysiology Instructions Physical and chemical factors in oral cavity
2.	Etiology II. Genetics and epigenetics in dental medicine; soft and hard palate malformations	Caries, parodontitis, malvolution of soft and hard tissues Knowledge assessment (quiz, oral answer) Students presentations Case studies
3.	Etiology III. Disorders of nutrition in dental medicine – avitaminoses, trace elements, lack of nutrients	Nutrition. Obesity. Undernutrition, Eating disorders Knowledge assessment (quiz, oral answer) Students presentations Case studies
4.	Etiology IV. Disorders of internal homeostasis Fluid, Electrolyte, Acid-base homeostasis	Disorders of homeostasis. Acid-base disorders, compensation, Edemas in dental medicine Knowledge assessment (quiz, oral answer) Students presentations Case studies
5.	Pathogenesis I. Typical pathological processes Acute and chronic inflammation	Typical pathological processes I. Inflammation in oral cavity, wound healing, fever Knowledge assessment (quiz, oral answer) Students presentations Case studies
6.	Pathogenesis II. Carcinogenesis Oral cavity cancer – benign, pre-malignant, malignant	Typical pathological processes II. Hypoxia, ischemia, cyanosis Knowledge assessment (quiz, oral answer) Students presentations Case studies
7.	Credit test 1 – ROGO – Y/N part	Credit test 1 – Open Questions Semester work instructions

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8.	Pathogenesis III. Immunology Hypersensitivity, Autoimmunity, Immunodeficiency	Typical pathological processes III. Microcirculation failure, shock, DIC, MODS Knowledge assessment (quiz, oral answer) Students presentations Case studies
9.	Pathogenesis IV. Pain in head and neck region, trigeminal neuralgia	Stress. Neurohumoral regulation, adaptation, stress diseases Knowledge assessment (quiz, oral answer) Students presentations Case studies
10.	Hematology I. Pathophysiology of leukocytes in dental medicine	Hematology I. Red blood cells disorders in dental medicine Knowledge assessment (quiz, oral answer) Students presentations Case studies
11.	Hematology II. Pathophysiology of hemostasis	Hematology II. Platelets disorders, bleeding diatheses in dental medicine Knowledge assessment (quiz, oral answer) Students presentations Case studies
12.	Renal and urinary tract. Glomerulonephritis, tubular disorders, acute kidney injury, chronic kidney disease	Renal and urinary tract. Kidney disorders, manifestation in oral cavity Knowledge assessment (quiz, oral answer) Students presentations Case studies
13	Credit test 2 – ROGO – Y/N part	Credit test 2 – Open Questions Ageing, alterations in head and oral cavity regions
14.	Reserved topic	Evaluation of semester, credits