

Subject: Pathological physiology 2	Subject type:	Compulsory
Study year: 3rd	Content:	2/2 summer term
Study program: Dental Medicine		

Aim of the course

Since its beginning Department of Pathophysiology provided organizational support and content of pre-graduate subject **Pathological Physiology** for General Medicine and Dentistry. Within the European tradition Pathophysiology is the essential part of pre-clinical medical education, providing a systematic review of the scientific basis for the emergence and development of the disease, symptoms (Nosology), contemporary overview of the causes and risk factors (aetiology) of human diseases, mechanisms of progression and development of the clinical expressions (pathogenesis), including molecular and cellular processes and changes during different pathophysiological processes and diseases.

Subject is placed to the 3rd year of study and has prerequisite condition (Pathological Physiology 1). It is important part of knowledge of future physician, because it connects pre-clinical and clinical subjects and it gives important information for understanding of internal medicine and other clinical disciplines.

Education: lectures/seminars 2/2

Assessment: exam (written and oral part)

Syllabus

Week 1

CVS I. Congenital and acquired heart defects. Atherosclerosis. Endocarditis, myocarditis, pericarditis. Cardiomyopathies.

Week 2

CVS II. Ischemic heart disease. Acute coronary syndrome, heart failure. Hypertension and applications in dental medicine.

Week 3

RS I. Respiratory disorders pathomechanisms. Respiratory failure (overview, mechanisms). Breathing disorders. Sleep apnoea syndrome.

Week 4

RS II. Obstructive and restrictive disorders, pulmonary hypertension, embolism, paradoxical embolism. Bronchial asthma, COPD in dental medicine.

Week 5

DENT I. White and red lesions. Soft tissues disorders. Systemic diseases manifestations in oral cavity.

Week 6

NS I. Basic motoric disorders pathomechanisms. Upper and lower motor neuron damage. Bell's palsy and palsy of facial nerve. Cranial nerves disorders.

Week 7**Credit test 3**

Spinal shock and spinal cord disorders.

Week 8

NS II. Epilepsy in dental medicine. Neuromuscular disorders. Neurodegenerative disorders. Overview of cerebrovascular disorders

Week 9

ENDO I. Hypothalamus-pituitary disorders. Endocrine regulation overview. Thyroid gland and parathyroid glands disorders.

Week 10

ENDO II. Pathomechanisms and types of diabetes mellitus (overview). Acute and chronic diabetes mellitus complications. DM manifestations in oral cavity.

Week 11

GIT I. Overview of GIT pathology (excl. oral cavity). Oesophagus disorders. Liver dysfunction, icterus. Pancreas pathology.

Week 12

GIT II. Peptic ulcer of stomach and duodenum (basics). Salivary glands disorders. Gums diseases. Lymphadenopathies.

Week 13**Credit test 4**

Osteoporosis and osteomalacia, rheum. arthritis

Week 14

DENT II. Hard tissues pathology. Sudden emergency in dental medicine.