

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KFT/13-Mgr/22	Course title: Pathology
Educational activities: Type of activities: lecture / laboratory practicals Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Personal attendance at all lectures and practical training, to pass 2 scheduled pre-tests, each minimally 60% rate. To pass the final exam test by students in written form, minimally 60% rate. Evaluation (mark and score): A 91-100%, B 81-90%, C 71-80%, D 66-70%, E 60-65%, FX # 60%. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: Completing the subject, students will gain knowledge of general pathology - focused on the fundamental cellular and tissue responses to pathologic stimuli, and special pathology – oriented on the specific responses of specialized organs and systems of the diseased organism. Students recognize the causes of disease, underlying mechanisms that result in the clinical signs, symptoms, and subsequent complications. Student could understand the structural and functional changes at the level of cells, tissues, organs, and systems of the diseased organism, as well as the disturbances in the regulatory mechanisms. The obtained knowledge helps him to bridge basic science to pharmacology and clinically oriented subjects.	
Class syllabus: Introduction to pathology. Concept of disease and illness, etiology, pathogenesis, clinical manifestations, classification, and incidence of diseases. Principles of molecular pathogenesis and genetics. Genetic abnormalities, developmental disorders. Hereditary diseases. Pain – etiopathogenesis, symptomatology, consequences, prophylaxis. Mechanisms of disturbances in vascular circulation. Inflammation - etiology, acute, chronic, pathomechanisms, role of blood elements, mediators. Edema. Fever. General symptomatology – causes, pathomechanisms. Alterations in blood pressure and circulation. Hypertension. Etiopathogenesis, symptomatology, compensatory mechanisms, complications. Shock (hypovolemic, cardiogenic, septic, anaphylactic, neurogenic, endocrine). Alterations in coronary circulation. Ischemic disease of the heart. Myocardial Infarction. Definition, type/form/clinical manifestation, etiopathogenesis, symptomatology, compensatory mechanisms, consequences. Rhythm disturbances. Heart failure. Diseases of the respiratory system. Cough, Asthma. Bronchitis, Obstructive airways disease. Respiratory insufficiency. Alterations of the digestive function. Basic manifestations of GIT	

disorders. Peptic ulceration - disturbances of the Gastric Juice Production. Liver diseases - jaundice, hepatitis, cirrhosis, failure.

Alterations of the Hormonal Regulation. Pathophysiology of renal disorders. General symptomatology, Glomerular diseases. Tubulo-interstitial disorders. Renal Failure. Selected disorders of the nervous system. Epilepsy, neurodegenerative disorders (Alzheimer Disease, Parkinson Disease). Sleeping disorders, memory disturbances, pathophysiology of ANS. Psychiatric disorders - anxiety and personality disorders, depression, bipolar disorder, schizophrenia. Basic concepts in oncology. Definitions and epidemiology. Classification. Benign and malignant neoplasia. Clinical manifestation, Metastasis, Prognosis. Disorders of the Sensory System.

In the practical part of subject students practice communicating ideas, interpret relevant data, analyze problems, and solve them. Students will focus on practicing basic terminology, pathophysiology of symptoms, cases in selected systems, diagnostic tests, e.g. cognitive ability testing, analysis of records of pathologically altered functions of selected organs, investigative techniques, biochemical examinations. Pathophysiology of skin changes in childhood, adulthood, older age, and infectious diseases. Diets and recommendations for special diets.

Recommended literature:

Textbook of pathology, 7th edition, by H. Mohan. Ed. Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, India, 2014, ISBN 978-9351523697

Essentials of Pathophysiology for Pharmacy, 1st edition, MM Zdanovicz, CRC Press, 2002, by ISBN 781587160363 (e-version)

Pathophysiology, by I Hulín, Bratislava: Slovak Academis Press, 1997, ISBN 80-85665-90-5
Lecture and exercise materials are available in Moodle's online system 2021

Languages necessary to complete the course:

Slovak language

Notes:

Past grade distribution

Total number of evaluated students: 0

A	ABS	B	C	D	E	FX	N/a
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. MUDr. Tatiana Stankovičová, CSc., PharmDr. Dominika Dingová, PhD., doc. PharmDr. Anna Paul Hrabovská, PhD., PharmDr. Tomáš Rajtík, PhD., PharmDr. Tatiana Foltánová, PhD., PharmDr. Stanislava Kosírová, PhD., PharmDr. Eva Kráľová, PhD.

Last change: 01.04.2022

Approved by: PharmDr. Stanislava Kosírová, PhD.