

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KFT/13-Mgr/20	Course title: Systemic and Pathological Physiology
Educational activities: Type of activities: lecture / laboratory practicals / seminar Number of hours: per week: 2 / 2 / 0 per level/semester: 28 / 28 / 0 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: None	
Course requirements: Personal attendance at all lectures and practical classes, justified absence (max 2x) is replaced according to the instructions of the teacher; to pass 2 scheduled pre-tests, each minimally 60% rate. The final exam test is completed by students in computer by written form (distant), of examination. To pass the final exam test by students in 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: In the newly created subject, the student will get a comprehensive conception of the arrangement and activity of the human organism as a whole, about the functions of individual systems, regulatory, coordination and integration relationships between individual anatomical systems. Student will learn about pathophysiology at the systemic level in the context of basic pathophysiological principles leading to damage of the physiological functions of systems. Student will understand the causes, course, symptoms of pathological conditions and subsequent complications, which are a prerequisite for the study of pharmacology and clinically oriented disciplines. Student will be extended and completed the spectrum of diseases and syndromes from selected systems, in more detailed way, he will recognize new or experimentally detected pathomechanisms. Student will become oriented in the current knowledge, which he will use in other profile biomedically oriented subjects of pharmaceutical studies.	
Class syllabus: Function and pathophysiology of the central, peripheral somatic and autonomic nervous system, neurological and psychiatric diseases. Control, regulation and disorders of cardiac activity, blood circulation and pathophysiology of vascular diseases and blood. Physiology and pathophysiology of breathing and pulmonary ventilation, digestive tube, liver, gallbladder, pancreas. Formation and disorders of the regulation of endocrine glands. Physiology and pathophysiology of the reproductive system of a man and a woman, hormonal regulation and its disturbances. Pathophysiology of inflammatory diseases of the skin (eczema, erythema, lupus, psoriasis, atopic dermatitis), allergic and autoimmune diseases. Pathophysiology of inflammatory and degenerative diseases of the joints,	

disorders of bone metabolism and inflammation. Infectious diseases caused by bacteria, viruses, rickettsia, chlamydia, parasites, fungi, protozoa. Children's infectious diseases. During practical training students will focused 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, old age. and infectious diseases. Diets and advice for special diets.

Recommended literature:

Recommended Literature:

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

Vander's Human Physiology 12th Ed, McGraw/Hill, Ed., NY, by EP Widmaier, H Raff, KT Strang, 2011, ISBN 978/0/07/122215/0

Essentials of Human Physiology for Pharmacy, CEC Press, 2008, by LK McCorry (e-version)

Essentials of Pathophysiology, 3rd edition, by C.M. Porth. Ed. Lippincott and Wilkins: Philadelphia, 2011, ISBN 0781770874

General and Systemic Pathology, 4th edition, by J.C.E. Underwood. Ed. Churchill Livingstone: NY, 2004 ISBN 0443073341/9780443073342

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 handouts will be available in Moodle's online system 2220,2021.

Languages necessary to complete the course:

slovak

Notes:

New subject SAPF introduced in the winter course 2020

Past grade distribution

Total number of evaluated students: 320

A	ABS	B	C	D	E	FX
4,69	0,0	29,06	40,94	12,5	11,88	0,94

Lecturers: doc. MUDr. Tatiana Stankovičová, CSc., PharmDr. Tatiana Foltánová, PhD., prof. PharmDr. Ján Klimas, PhD., MPH, PharmDr. Stanislava Kosírová, PhD., PharmDr. Eva Kráľová, PhD., PharmDr. Tomáš Rajtík, PhD., doc. PharmDr. Anna Paul Hrabovská, PhD., PharmDr. Attila Kulcsár, PhD., PharmDr. Dominika Dingová, PhD.

Last change: 13.12.2021

Approved by: doc. MUDr. Tatiana Stankovičová, CSc.