
		UNIVERSITY OF EAST SARAJEVO Faculty of Medicine						
		Study program: medicine						
		Integrated academic studies		III study year				
Full subject title		PATHOPHYSIOLOGICAL ASPECTS OF FUNCTIONAL DIAGNOSTICS						
Department		Department of preclinical subjects, Faculty of Medicine Foca						
Subject code			Subject status		Semester		ECTS	
ME-02-2-032-5			elective		V		1	
Professor/ -s		Assistant Professor Bojan Joksimović, MD, PhD, assistant professor Ivan Radić MD PhD						
Associate/ -s								
Number of lectures/ teaching workload (per week)			Individual student workload (in hours per semester)			Coefficient of student workload S_0^1		
L	E	SP	L	E	SP	L		
1	0	0	1*15*1	0*15*1	0*15*1	1		
total teaching workload (in hours, per semester) $1*15 + 0*15 + 0*15 = 15$			total teaching workload (in hours, per semester) $1*15*1 + 0*15*1 + 0*15*1 = 15$					
Learning outcomes			Total subject workload (teaching + student): $15 + 15 = 30$ hours					
			1. Through the pathophysiological aspects of functional diagnostics the student is additionally acquainted with the mechanisms of the occurrence of the disease.					
			2. Knowledge of modern diagnostic methods and interpretation of results through the differential diagnosis of certain functional system disorders.					
			3. Understanding the pathophysiological aspects of functional diagnostics provides a holistic approach to the patient.					
			4. He needs to know basic ECG changes, which allows easier monitoring of clinical subjects and later easier involvement in independent work.					
General competences			They are prepared for further development and advances within the field of medicine.					
			They have acquired a systemic thinking approach as well as a structured approach to medical problems during their education.					
			They are acquainted with a specific diagnostic algorithm.					
			They are acquainted with methodology of scientific research.					
			They are acquainted with health improvement and disease prevention and are eager to make medical professionals adopt more positive attitude towards it.					
Preconditions			Requirement for taking the exam: all passed exams from the previous year of study					
Teaching methods			Lectures, seminars and consultations.					
Subject content per week			Lectures					
			1. Calcium homeostasis disorder, metabolic bone disease, function evaluation based on biochemical indicators.					
			2. Functional examination of the full glands					
			3. Functional examination of peripheral circulation (methods of blood pressure measurement, methods of measuring arterial flow)					
			4. Functional examination of the lungs (overview of sputum, examination of pleural effusion, performance and interpretation of gas analysis, lung perfusion testing)					
			5. Methods of Functional Pancreatic Testing (Laboratory Indicators of Acute and Chronic Pancreatitis)					
			6. Methods of stool testing (the influence of other diseases on the formation of a chair)					
			7. PBL-angina lakunaris.					
			8. PBL-allergic reaction to drugs.					
			9. Laboratory findings in hematology.					

¹The coefficient of student workload S_0 is calculated as it follows:

- a) for the study programs not going through the licensing process: $S_0 = (\text{total workload in semester for all of the subjects } 900 \text{ hrs} - \text{total teaching workload } L+E \text{ in semester for all of the subjects } 870 \text{ hrs}) / \text{total teaching workload } L+E \text{ in semester for all of the subjects } ______ \text{ hrs} = ______$. Consult form content and its explanation.
b) for the study programs going through the licensing process, it is necessary to use form content and its explanation.

	10. PBL-renal hypertension. 11. PBL-osteoporosis. 12. PBL-pathogenesis of cardiac decompensation. 13. PBL-acute poisoning. 14. ECG (frequency and disorders of the heart rhythm, determination of the axis) 15. ECG (hypertrophy of the anterior and chamber, diagnosis of localization of infarction, ECG disorders in special pathological conditions)			
Compulsory literature				
Author/s	Publication title/Publisher	Year	Pages(from-to)	
Judi Nath	Applied Pathophysiology A Conceptual Approach, fourth edition	2022		
Additional literature				
Author/s	Publication title/Publisher	Year	Pages (from-to)	
Student responsibilities, types of student assessment and grading	Grading policy		Points	Percentage
	Pre-exam activities			
	Seminar paper		50	50%
	Final exam			
	Written exam		50	50%
	TOTAL		100	100 %
Certification date	June 17th 2024			