

DESCRIPTION OF THE COURSE OF STUDY

Course code	0912-7LEK-F-18-PN	
Name of the course in	Polish	Patofizjologia nerek
	English	Pathophysiology of kidney

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Medicine
1.2. Mode of study	Full-time
1.3. Level of study	Uniform Master's studies
1.4. Profile of study*	General academic
1.5. Specialization*	Lack
1.6. Unit running the course of study	The Faculty of Medicine and Health Sciences
1.7. Person/s preparing the course description	dr hab. n. med. Andrzej Jaroszyński, prof. UJK
1.8. Person responsible for the course of study	dr hab. n. med. Andrzej Jaroszyński, prof. UJK
1.9. Contact	Wnoz_inm@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation with the module	Elective
2.2. Language of instruction	English
2.3. Semesters in which the course of study is offered	5 th semester
2.4. Prerequisites*	none

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lecture- 15h	
3.2. Place of classes	Traditional classes in the didactic room	
3.3. Form of assessment	Credit with grade	
3.4. Teaching methods	Informative lecture	
3.5. Bibliography	Required reading	Copstead L-E., Banasik J.: Pathophysiology” Elsevier, 5th Edition, 2013 Kumar V., Abbas A.K., Fausto N., Aster J.C. – “Robbins and Cotran Pathologic Basis of Disease” 8th ed. Saunders Elsevier 2010
	Further reading	McPhee S.J., Hammer G.D: “Pathophysiology of Disease. An Introduction to Clinical Medicine” Lange Medical Books/Mc-Graw-Hill, 6th edition, 2010 Carol Mattson Porth – “Pathophysiology Concepts of Altered Health States”, 7th ed. Lippincott & Wilkins 2006

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives (lecture)

1. Understanding of the mechanisms underlying the selected kidney diseases
2. Mastering knowledge of clinical symptoms associated with disorders of the excretory, secretory and regulatory function of the kidneys;
3. Understanding the natural ways of compensating by the body adverse changes and functional reserves accompanying kidney diseases;
4. Understanding the systemic consequences associated with kidney disease;
5. Practical use of acquired knowledge.

4.2. Detailed syllabus (lecture)

1. Pathogenesis of proteinuria / nephrotic syndrome;
2. Pathogenesis of the nephritic syndrome;
3. The role of kidneys in hypertension;
4. Pathophysiology of glomerulonephritis;
5. Pathophysiology of acute renal failure;
6. Pathophysiology of chronic kidney disease;
7. Cardiovascular dysfunction in chronic kidney disease;
8. Pathophysiology of tubular interstitial kidney diseases;
9. Disorders of water and electrolyte management in kidney diseases;
10. Disturbances in the acid-base economy in kidney diseases.

4.3. Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of KNOWLEDGE:		
W01	knows the mechanism of hormones' functioning and the consequences of disorders of hormonal regulation	B.W26.
W02	knows the mechanisms of aging	B.W28
W03	knows the relationship between the factors that disrupt the equilibrium of biological processes and physiological and pathophysiological changes;	B.W30
W04	knows the foundation for the diagnosis of gene and chromosome mutations responsible for hereditary and acquired diseases, including cancer;	C.W9.
W05	lists clinical forms of most common diseases of various systems and organs, metabolic diseases and disorders of water-electrolyte balance and acid-base balance;	C.W33.
within the scope of ABILITIES:		
U01	understands the relation between images of tissue and organ damage and clinical symptoms of the disease, medical history and the results of laboratory determinations;	C.U11.

4.4. Methods of assessment of the intended teaching outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others*		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	..
W01																					
W01																					
W01																					
U01																					
U02																					
U03																					

*delete as appropriate

4.5. Criteria of assessment of the intended teaching outcomes		
Form of classes	Grade	Criterion of assessment
lecture (L)	3	61%-68% Mastering program content at the elementary level, chaotic answers, necessary guidance questions.
	3,5	69%-76% Mastering program content at the elementary level, systematized answers, requires teacher's help required.
	4	77%-84% Mastering program content at the elementary level, systematized and independent responses. Solving problems in typical situations.
	4,5	85%92% The scope of the presented knowledge goes beyond the basic level based on the provided supplementary literature. Solving problems in new and complex situations.
	5	93%-100% The scope of the presented knowledge goes beyond the basic level based on independently acquired scientific sources of information.

- **Thresholds are valid from 2018/ 2019 academic year**

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload
	Full-time studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	15
<i>Participation in lectures*</i>	15
<i>Participation in classes, seminars, laboratories*</i>	
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	10
<i>Preparation for the lecture*</i>	5
<i>Preparation for the classes, seminars, laboratories*</i>	
<i>Preparation for the exam/test*</i>	5
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others*</i>	
<i>TOTAL NUMBER OF HOURS</i>	25
ECTS credits for the course of study	1

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

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