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Khanty-Mansiysk Autonomous Okrug-Ugra "Surgut State University"

Approved by
Deputy Rector for Academic Affairs

E.V. Konovalova

11 June 2025, protocol No. 5

Clinical Pathophysiology Syllabus

Department Pathophysiology and General Pathology

Curriculum s310501-ЛечДелоИн-25-4.plx

Specialty 31.05.01 General Medicine

Qualification General Practitioner

Form of education Full-time

Total (in credits) 2

Total academic hours 72 Control:

including: Credit, B term

Practical classes 36
Self-study 36

Course outline in terms

Academic year (Term)	7 (4.1)		Total	
Weeks	17			
Types of classes	Cur	Cur Syl		Syl
Lectures	4	4	4	4
Practical classes	32	32	32	32
Contact	36	36	36	36
Self-study	36	36	36	36
Total	72	72	72	72

The Syllabus is compiled by:

The Syllabus

Clinical Pathophysiology

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on $12.08.2020 \, \text{N}_{\text{\tiny 2}} \, 988$

Based on the Curriculum:

31.05.01 GENERAL MEDICINE Specialization: General Medicine

Approved by the Academic Council of Surgut State University, 11 June 2025, protocol No. 5.

The Syllabus was approved by the Department

Pathophysiology and General Pathology

Head of Department, Doctor of Medicine, Professor Kovalenko L.V.

1. COURSE OBJECTIVES

1.1 The **aim** Study of general patterns and specific pathophysiological mechanisms of occurrence, clinical development and outcomes of pathological processes, conditions, individual diseases and to develop practical skills for assessing morphofunctional, physiological conditions and pathological processes in the human body, the principles of their identification, pathogenetic treatment and prevention.

	2. COURSE OVERVIEW				
Cours	e code (in curriculum)	Б1.О.04.01			
2.1	Assumed background:				
2.1.1	Anatomy				
2.1.2	Chemistry				
2.1.3	Biology				
2.1.4	Microbiology, virology				
2.1.5	Normal physiology				
2.1.6	Biochemistry				
2.2	Post-requisite courses a	nd practice:			
2.2.1	Obstetrics and gynecolog	у			
2.2.2	Faculty surgery, urology				
2.2.3	Hospital therapy, endocri	nology			
2.2.4	Traumatology, orthopedic	es			
2.2.5	Hospital surgery, pediatr	ic surgery			
2.2.6	Oncology, radiation thera	ару			
2.2.7	Faculty therapy, occupati	ional diseases			

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

GPC-5.6. Demonstrates knowledge and skills to identify: the structure of the human body, morphological macro- and microscopic parameters in pathology; diagnose criteria of general pathological pathophysiological processes in various nosologies; on the basis of which he/she possesses skills in topographic anatomy and is able to solve questions of operative surgery;

GPC-5.8 Demonstrates understanding of mechanisms of development of general pathological processes, knowledge of issues of pathogenesis of various human diseases and pathological conditions, ability to identify the leading links of pathogenesis in their relationship in a particular disease or pathological condition and on this basis the ability to justify effective pharmacotherapy;

GPC-5.9 Demonstrates knowledge of the theoretical foundations of immunology and allergology, understanding of immune defense mechanisms, types of immunological reactions and their role in the pathogenesis of human disease;

GPC-5.10. Demonstrates knowledge of the etiology and pathogenesis of diseases, which is necessary to assess physiological state and pathological processes in order to diagnose treatment and prevention of diseases.

PC-9.1 Analyzes medical information

PC-9.2 Presents medical information based on evidence-based medicine

PC-10.1 Participates in the introduction of new methods and techniques aimed at protecting the health of citizens

By the end of the course students must:

3.1	Know:
3.1.1	the specifics of the subject and objectives of the discipline pathophysiology, clinical pathophysiology;
3.1.2	about the role, place and connection with other sciences in the system of biological and medical disciplines;
3.1.3	the main historical stages in the development of pathophysiology, clinical pathophysiology;
	about the prospects for the development of science and new directions in the study of pathophysiology, clinical pathophysiology;

3.1.5	basic concepts used in pathophysiology, clinical pathophysiology;

3.1.6	general patterns of development and manifestation of various pathological reactions, processes, conditions and individual diseases;
3.1.7	mechanisms of formation of pathological systems and disturbances of the information process when the body is exposed to various pathological agents;
3.1.8	patterns of development of basic pathological conditions, symptoms, syndromes, diseases, as well as mechanisms of recovery of various diseases;
3.1.9	mechanisms of formation of pathological systems and disturbances of the information process when the body is exposed to various pathological agents.
3.2	Be able to:
	use acquired knowledge in pathophysiology, clinical pathophysiology when studying other biomedical and clinical disciplines;
	correctly interpret and apply the basic concepts of pathophysiology, clinical pathophysiology when studying biomedical and medical literature and when working together with medical specialists;
3.2.3	analyze pathological processes and individual diseases at various structural and morphofunctional levels;
3.2.4	conduct clinical and pathogenetic parallels of leading pathological syndromes;
	conduct a pathophysiological analysis of clinical, laboratory, experimental and other data and formulate on their basis a conclusion about the possible causes and mechanisms of development of pathological processes (diseases);
3.2.6	carry out differential diagnosis between pathological conditions based on drawing up pathogenesis diagrams;
3.2.7	justify the pathogenetic approach to the treatment of the pathological process (disease);
	analyze the role of causes, conditions, reactivity of the body in the occurrence, development and completion (outcome) of diseases;
	analyze the etiology, pathogenesis, manifestations and outcomes of the most common forms of pathology of organs and physiological systems, the principles of their etiological and pathogenetic therapy.

	4. STRUCTURE A	AND CONTENT	S OF THE C	OURSE (MODULE)		
Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Notes
1.1	Systemic inflammatory response syndrome. Sepsis. /Lec/	7	1	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.2	Pathophysiology of the infectious process. Inflammation. SIRS. Sepsis./Pr/	7	4	GPC-5.6 GPC-5.8	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.3	Pathophysiology of the infectious process. Inflammation. SIRS. Sepsis. /Self. study/	7	3	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.4	Pathophysiology of the pulmonary system. DN.RDSV /Lec/	7	1	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.5	Pathophysiology of the pulmonary system. DN. RDSV. RDSN. PE Airway obstruction syndrome /Pr/	7	4	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.6	Pathophysiology of the pulmonary system. DN. RDSV. RDSN. PE Airway obstruction syndrome //Self. study/	7	3	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.7	Pathophysiology of hemostasis. DIC syndrome /Lec/	7	1	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.8	Pathophysiology of hemostasis. Thrombohemorrhagic syndromes. DIC syndrome. Thrombophilia./Pr/	7	4	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.9	Pathophysiology of hemostasis. Thrombohemorrhagic syndromes. DIC syndrome. Thrombophilia /Self. study/	7	3	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2 PC-10.1	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	
1.10	Bleeding and blood loss. Posthemorrhagic anemia. /Lec/	7	1	GPC-5.6 GPC-5.8 GPC-5.9 GPC-5.10 PC-9.1 PC-9.2	L1.1 L1.2 L1.3L2.1 L2.2 L2.3L3.1 L3.2 E1 E2	

Directing and blood loss.					PC-10.1	
Remorrhagic shock CPC-5.9	1.11	Bleeding and blood loss	7	4		L1.1 L1.2
Posthemorrhagic anemia /Pr/ GPC-5.10 E1 E2			,	·	I	
CPC-5.10 F1 E2						
PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1		1 ostnemorriagie anemia /1 i/				
I.12 Bleeding and blood loss. 7 3 GPC-56 L1.11.1.1.2 GPC-5.8 L1.31.2.1.1.2.2 GPC-5.9 L2.31.3.1.3.2 GPC-5.9 L2.31.3.1.3.2 GPC-5.0 GPC-5.10 GPC-5.10						
Inc.						
1.12 Heeding and blood loss. 7 3 GPC-56 L1.11.1.1.2 GPC-8 CPC-8 L1.312.1.12.2 GPC-8 CPC-8 L1.312.1.12.2 GPC-8 CPC-8 CPC-						
Hemorrhagic anemia /Self. GPC-5.8 L1.31.2.1 L2.2 GPC-5.0 E1 E2	1.12	D1 1 11 11	7	2		111112
Posthemorrhagic anemia /Self. SPC-5.9 L2.31.3.1 L3.2 El E2	1.12		/	3		
Study/ PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1						
Pathophysiology of the liver. Personal						
PC-9.2 PC-10.1		study/			I	E1 E2
PC-10.1						
1.13 Pathophysiology of the liver. 7 2 GPC-5.6 L1.11.1.12 L1.12 L1.13.1.2 L2.1 L2.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.8 L1.11.1.1.2 GPC-5.8 L1.11.1.1.2 GPC-5.8 L1.31.2.1 L2.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.9 L2.31.3.1.13.2 GPC-5.10 GPC-5.10						
Hepatorenal syndrome. Uremia GPC-5.8 L1.31.2.1 L2.2 GPC-5.9 L2.31.3.1 L3.2 GPC-5.10 E1 E2						
Self. study/ GPC-5.10 GPC-5.10 E1 E2	1.13		7	2		
Side Company Company		Hepatorenal syndrome. Uremia			GPC-5.8	
PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1		/Self. study/			GPC-5.9	L2.3L3.1 L3.2
PC-9.2 PC-10.1					GPC-5.10	E1 E2
1.14 Hepatorenal syndrome, Hepatic coma. Uremia./Pt/ GPC-5.6 CPC-5.9 CPC-5.10 CPC-5.8 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CP					PC-9.1	
1.14 Hepatorenal syndrome, Hepatic coma. Uremia./Pt/ GPC-5.6 CPC-5.9 CPC-5.10 CPC-5.8 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CPC-5.9 CPC-5.10 CP						
1.14 Kidney and liver failure. 7 4 GPC-5.6 CPC-5.8 L1.31.2.1 L2.2 GPC-5.9 L2.31.3.1 L3.2 GPC-5.0 GPC-5.0						
Hepatorenal syndrome. Hepatic coma. Uremia./Pr/ GPC-5.8 L1.31.2.1 L2.2 E1 E2	1.14	Kidney and liver failure	7	4		1.1.1.1.2
Coma. Uremia./Pt/ GPC-5.10 E1 E2	1.17	Henatorenal syndrome Henatic	,	,		
CPC-5.10						
PC-9.1 PC-9.2 PC-10.1		Coma. Oremia./11/				
1.15 Kidney and liver failure. Hepatorenal syndrome. Hepatic coma. Uremia 7 3 GPC-5.6 L1.1 L1.2 GPC-5.9 L2.31.3.1 L3.2 GPC-5.9 L2.31.3.1 L3.2 GPC-5.9 L2.31.3.1 L3.2 GPC-5.9 L2.31.3.1 L3.2 GPC-5.9 GPC-5.10 E1 E2						E1 E2
1.15 Kidney and liver failure. Hepatorenal syndrome. Hepatic coma. Uremia 7 3 GPC-5.6 CPC-5.9 L2.3L3.1 L3.2 GPC-5.9 GPC-5.10 E1 E2 PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-9.1 PC-9.1 PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.						
1.15 Kidney and liver failure. Hepatorenal syndrome. Hepatic coma. Uremia 7 3 GPC-5.6 CPC-5.8 L1.3 L2.1 L2.2 GPC-5.8 L2.3 L3.1 L3.2 GPC-5.10 E1 E2 PC-9.1 PC-9.2 PC-10.1						
Syndrome, Hepatic coma. Uremia GPC-5.8 L1.3L2.1 L2.2 GPC-5.10 E1 E2 PC-9.1 PC-9.2 PC-10.1	4.1.5					
Self. study/ GPC-5.10 E1 E2	1.15		7	3		
Comparison of the content of the c						
PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.3 PC-5.6 PC-5.8 PC-5.10 E1 E2 PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.1 PC-9.2 PC-9.1 PC-9.1 PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-9.1 PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-9.2 PC-10.1 PC-9.3 PC-5.6 PC-5.8 PC-5.9 PC-5.10 PC-5.10 PC-9.1 PC-9.1 PC-9.2 PC-10.1 PC-9.2 PC-10.1 PC-9.3 PC-5.6 PC-5.8 PC		/Self. study/				
PC-9.2 PC-10.1					GPC-5.10	E1 E2
PC-10.1						
1.16 Types of Shock. Pathogenesis, clinical picture, treatment /Self. 2 GPC-5.6 CPC-5.8 CPC-5.8 CPC-5.9 CPC-5.9 CPC-5.9 CPC-5.10 CPC-9.1 CPC-9					PC-9.2	
Clinical picture, treatment /Self. GPC-5.8 L1.31.2.1 L2.2 Study/					PC-10.1	
Clinical picture, treatment /Self. GPC-5.8 CL.3L2.1 L2.2 CPC-5.9 CL.3L3.1 L3.2 CPC-5.9 CPC-5.10 CPC-5.10 CPC-5.10 CPC-9.1 CP	1.16	Types of Shock. Pathogenesis,	7	2	GPC-5.6	L1.1 L1.2
Study/ GPC-5.9 L2.3L3.1 L3.2 E1 E2					GPC-5.8	L1.3L2.1 L2.2
CPC-5.10						
PC-9.1 PC-9.2 PC-10.1					1	
PC-9.2 PC-10.1						
PC-10.1]				
1.17 Shock Kinds. Pathogenesis, clinical picture, treatment /Pr/ 4 GPC-5.6 L1.1 L1.2 L2.2 GPC-5.8 L2.3 L3.1 L2.2 GPC-5.9 L2.3 L3.1 L3.2 GPC-5.10 E1 E2]			1	
clinical picture, treatment /Pr/ Clinical picture, treatment /Pr/ GPC-5.8	1 17	Shook Vinda Dathagan	7	1	_	111112
Consciousness. Types of disturbances of consciousness. Types of com. Pathogenesis, study/ PC-9.1 PC-9.2 PC-10.1 PC-9.1 PC-	1.1/		/	"		
CPC-5.10 E1 E2		clinical picture, treatment /Pr/				
PC-9.1 PC-9.2 PC-10.1]				
PC-9.2 PC-10.1]				E1 E2
PC-10.1]				
1.18 Shock. Kinds. Pathogenesis, clinical picture, treatment /Self. 7 3 GPC-5.6 L1.1 L1.2 L1.3 L2.1 L2.2 GPC-5.8 L2.3 L3.1 L3.2 GPC-5.10 E1 E2]				
Clinical picture, treatment /Self. GPC-5.8 L1.3L2.1 L2.2 Study/ GPC-5.9 L2.3L3.1 L3.2 GPC-5.10 E1 E2 PC-9.1 PC-9.2 PC-10.1 Types of disturbances of consciousness. Types of com. Pathogenesis, manifestations /Self. GPC-5.9 L2.3L3.1 L3.2 FROM the consciousness of com. Pathogenesis, manifestations /Self. GPC-5.9 L2.3L3.1 L3.2 GPC-5.10 E1 E2 GPC-5.10 E1						
Clinical picture, treatment /Self. GPC-5.8 L1.3L2.1 L2.2 Study/ GPC-5.9 L2.3L3.1 L3.2 GPC-5.10 E1 E2 PC-9.1 PC-9.2 PC-10.1 Types of disturbances of consciousness. Types of com. Pathogenesis, manifestations /Self. GPC-5.9 Study/ Self. GPC-5.10 PC-9.1 E1 E2 PC-9.1 E1 E2 Consciousness GPC-5.9 L2.3L3.1 L3.2 GPC-5.10 E1 E2 Consciousness GPC-5.10 E1 E2 E1 E2 Consciousnes	1.18		7	3	GPC-5.6	
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CPC-5.10 E1 E2						
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PC-9.2 PC-10.1]				
1.19 Types of disturbances of consciousness. Types of com. 7 2 GPC-5.6 L1.1 L1.2 L1.3 L2.1 L2.2 Consciousness, manifestations /Self. GPC-5.9 L2.3 L3.1 L3.2 GPC-5.10 E1 E2 PC-9.1 E1 E2 Consciousness Consciou]				
1.19 Types of disturbances of consciousness. Types of com. Pathogenesis, manifestations /Self. study/ Types of disturbances of CPC-5.6 L1.1 L1.2 L2.2 L1.3 L2.1 L2.2 CPC-5.9 L2.3 L3.1 L3.2 CPC-5.10 E1 E2]				
consciousness. Types of com. Pathogenesis, manifestations /Self. study/ PC-5.8 GPC-5.8 L1.3L2.1 L2.2 L2.3L3.1 L3.2 GPC-5.10 PC-9.1	1 10	Types of disturbances of	7	2		111112
Pathogenesis, manifestations /Self. study/ GPC-5.9 L2.3L3.1 L3.2 E1 E2 PC-9.1	1.17		,			
study/ E1 E2 PC-9.1					I	
PC-9.1						
		study/				E1 E2
PC-9.2]				
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				1 C-10.1		
1.20	Main types of disorders of	7	4	GPC-5.6	L1.1 L1.2	
	consciousness. Classification of			GPC-5.8	L1.3L2.1 L2.2	
	com. Types of com. Types of			GPC-5.9	L2.3L3.1 L3.2	
	disturbances of consciousness /Pr/			GPC-5.10	E1 E2	
				PC-9.1	E1 22	
				PC-9.2		
				PC-10.1		
1.21	Main types of disorders of	7	3	GPC-5.6	L1.1 L1.2	
1.21	consciousness. Classification of	·		GPC-5.8	L1.3L2.1 L2.2	
	com. Types of coma. Types of			GPC-5.9	L2.3L3.1 L3.2	
	disturbances of consciousness.			GPC-5.10	E1 E2	
	/Self. study/			PC-9.1		
	/Ben. study/			PC-9.2		
				PC-10.1		
1.22	Multiple organ failure syndrome	7	2	GPC-5.6	L1.1 L1.2	
1.22	//Self. study/	·	2	GPC-5.8	L1.3L2.1 L2.2	
	//Sell. study/			GPC-5.9	L2.3L3.1 L3.2	
				GPC-5.10	E1 E2	
				PC-9.1	E1 E2	
				PC-9.1 PC-9.2		
				PC-10.1		
1.23	Multiple organ failure syndrome	7	4	GPC-5.6	L1.1 L1.2	
1.23	/Pr/	·	7	GPC-5.8	L1.3L2.1 L2.2	
	/11/			GPC-5.9	L2.3L3.1 L3.2	
				GPC-5.10	E1 E2	
				PC-9.1	E1 E2	
				PC-9.2		
				PC-10.1		
1.24	Multiple organ failure syndrome	7	3	GPC-5.6	L1.1 L1.2	
1.27	/Self. study/	·	3	GPC-5.8	L1.3L2.1 L2.2	
	/Scii. study/			GPC-5.9	L2.3L3.1 L3.2	
				GPC-5.10	E1 E2	
				PC-9.1	E1 E2	
				PC-9.2		
				PC-10.1		
1.25	/Control work./	7	0	GPC-5.6	L1.1 L1.2	Essay
1.23	/ Control work./	'		GPC-5.8	L1.3L2.1 L2.2	
				GPC-5.9	L2.3L3.1 L3.2	
				GPC-5.10	E1 E2	
				PC-9.1	12.12	
				PC-9.2		
				PC-10.1		
1.26	Test /Credit/	7	0	GPC-5.6	L1.1 L1.2	Question for
1.20	1 Cot / Credit/	'		GPC-5.8	L1.3L2.1 L2.2	
				GPC-5.9	L2.3L3.1 L3.2	
				GPC-5.10	E1 E2	Situation
				PC-9.1	L 1 E 2	task
				PC-9.1 PC-9.2		
				PC-10.1		
	1	l		11 (-10.1		

	5. ASSESSMENT TOOLS
	5.1. Assessment tools for midterm assessment
Presented by a single document	
	5.2. Assessment tools for diagnostic testing
Presented by a single document	

		6.COURSE (MODULE) RESOURCES		
		6.1. Recommended Literature		
		6.1.1. Core		
	Authors	Title	Publish., year	Quantity
L 1.1	П. Ф. Литвицкий, С. В. Пирожков, Е. Б. Тезиков	Clinical pathophysiology: concise lectures, tests, cases = Клиническая патофизиология: курс лекций, тесты, задачи: учебное пособие для студентов учреждений высшего образования	Москва : ГЭОТАР- Media - electronic resource	2
L 1.2	Litvitsky P.F.	Pathophysiology. In 2 vols. T. 1: Ministry of Education and Science of the Russian Federation Science of the Russian Federation Federation Frofessional Education "First Moscow State Medical University named after I.M. Sechenov" as a textbook for students of institutions of higher professional education studying in specialties 060101.65 "General Medicine", 060103.65 "Pediatrics" in the discipline "Patophysiology, Clinical Pathophysiology", in the specialty 060105.65 "Medical and Preventive Care" in the discipline "Patophysiology"	Москва: Юрайт, 2022, electronic resource	2
L 1.3	Loginova A. K.	Imageology	Sankt-Peterburg: Lan', 2022, electronic resource	2
	•	6.1.2. Supplementary	•	
	Authors	Title	Publish., year	Quantity
L 2.1	Poryadin G.V.	Pathophysiology: course of lectures: textbook	Moscow: GEOTAR- Media, 2018, , electronic resource	1

L 2.2	Barsukov V. Selezneva T.	Pathological physiology: Textbook	Saratov: Scientific book, 2019, electronic resource	2		
		6.1.3. Methodical development				
	Authors	Title	Publish., year	Quantity		
L 3.1	Dolgikh V. T., Korpacheva O. V.	Pathophysiology. Immunology. Tests: Study Guide	Moscow: Yurait Publishing House, 2019, electronic resource	1		
		6.2. Internet resources				
E 1	Clinical pathophysiolog http://www.niiopp.ru/jpa	y. Journal "Pathological Physiology and Experimental Thera athphys/	py"			
E 2	Clinical pathophysiolog	y. Journal "Pathogenesis" http://www.niiopp.ru/pathogenesis/				
Е 3	E 3 Clinical pathophysiology. Russian Medical Journal http://www.rmj.ru/main.htm					
E 4	Clinical pathophysiolog	y. Pathology archive. http://www.medlit.ru/medrus/arhpat.htm				

6.3.1 Software				
6.3.1.1 Operational system Microsoft, applied programs pack Microsoft Office				
6.3.2 Information Referral systems				
6.3.2.1 http://www.garant.ru "Garant"				
6.3.2.2 http://www.consultant.ru "Consultant Plus"				

7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)

7.1 Classrooms for conducting lecture-type classes, seminar-type classes (practical classes), group and individual consultations, ongoing monitoring and intermediate certification are equipped with: standard educational furniture, technical teaching aids used to present educational information