Federal State Budgetary Educational Institution of Higher Education "Privolzhsky Research Medical University" Ministry of Health of the Russian Federation



# WORKING PROGRAM

Name of the academic discipline: **PATHOLOGICAL ANATOMY** 

PATHOLOGICAL ANATOMY,

CLINICAL

Specialty: 31.05.01 GENERAL MEDICINE (code, name) Qualification: GENERAL PRACTITIONER

Department: PATHOLOGICAL ANATOMY

Mode of study: FULL-TIME

Labor intensity of the academic discipline: 252 academic hours

Nizhny Novgorod 2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.01 GENERAL MEDICINE approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.

Developers of the working program:

Orlinskaya N.Yu., Grande PhD Medical sciences, Associate Professor, the Head of the Pathological Anatomy Department Yunusova K.E., PhD in Medical sciences, Associate Professor, Associate Professor of the Pathological

Anatomy Department

The program was reviewed and approved at the department meeting (protocol No.5 20.04.21)

Head of the Department, Grande PhD Medical sciences, Offer (Orlinskaya N.Yu.) (signature)

20.04.21

AGREED Deputy Head of EMA ph.d. of biology Lovtsova L.V.

20.04.21

(signature)

## 1. THE PURPOSE AND OBJECTIVES OF MASTERING THE DISCIPLINE

1.1 The purpose and objectives of mastering the discipline "Pathological anatomy, clinical pathological anatomy" (hereinafter referred to as the discipline).

The purpose of mastering the discipline: participation in the formation of competencies of the UC-1; GPC-5.

1.2 Objectives of the discipline:

The student should

know:

1. Basic medical terms reflecting the content of the curriculum.

2. Causes, morphological manifestations, complications, outcomes of general pathological processes, major human diseases.

be able to:

1. To distinguish at the macro- and light-optical levels structural changes in the main general pathological processes.

2. To recognize pathomorphological changes of organs in the most important human diseases.

3. Describe morphological changes in the studied macro-preparations, micro-preparations and electronograms.

4. Formulate a conclusion about the pathological process according to the totality of pathomorphological changes.

5. To conduct a comparative assessment of morphological changes in various forms of the pathological process.

posses:

1. Skills of describing macroscopic changes in various pathological processes and major human diseases.

2. Skills of microscopy of pathohistological preparations.

3. Skills of sketching pathohistological preparations.

4. Understanding the mechanisms of formation of morphological changes that occur in organs and tissues during the pathological process, meaning for the body.

2. The place of the discipline in the structure of the Main professional educational program of higher education.

2.1 The discipline belongs to the basic part of block 1 "Disciplines (modules)" The main educational program of higher education. The discipline is studied from the fifth and sixth semesters.

2.2 To study the discipline, knowledge, skills and abilities formed by previous disciplines are required: biology, physics, chemistry, anatomy; histology, embryology, cytology; bioorganic chemistry; microbiology, virology; normal physiology; propaedeutics of internal diseases.

2.3 The study of the discipline is necessary for the knowledge, skills and abilities formed by subsequent disciplines: internal diseases, surgical diseases, faculty therapy, occupational diseases; hospital therapy, endocrinology, hospital surgery; polyclinic therapy, infectious diseases, neurology, otorhinolaryngology, ophthalmology, gynecology, urology, pediatrics, oncology, radiation therapy, oncohematology.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition Mastering the discipline aims at acquiring the following universal (UC) and general professional (GPC) competencies

	Compete	The content of the	Code and name of the	As a result of ma	esult of mastering the discipline, the studer should:					
N⁰	nce code	part)	competence acquisition metric	know	be able to	possess				
	UK-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	AI-1 UC-1.1 selection of critical analysis methods and evaluation of modern scientific achievements; basic principles of critical analysis AI-2 UC-1.2 obtaining new knowledge based on analysis, synthesis, etc.; collecting data on complex scientific problems related to the professional field; searching for information and solutions based on actions, experiment and experience AI-3 UC-1.3 implementatio n of practical experience: research of the problem of	Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience	Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems				

	professional		
	activity with		
	the use of		
	analysis,		
	synthesis and		
	other methods		
	of intellectual		
	activity;		
	development of	f	
	an action		
	strategy for		
	solving		
	professional		
	problems		

GPC-5	Able to assess	AI-1	Knows:	Able to:	Has practical
	morphofunctiona	Knowledge	anatomy,	evaluate the	experience in:
	1,	of	histology,	basic	assessment of
	physiological	pathological	embryology,	morphological	basic
	conditions and	anatomy and	topographic	and functional	morphological
	pathological	anatomy and	anatomy,	data,	and functional
	processes in the	physiology	physiology,	physiological	data,
	human body to	of human	pathological	conditions and	physiological
	solve	organs and	anatomy and	pathological	conditions and
	professional	systems	physiology of	processes in	pathological
	problems	AI-2	human organs	the human	processes in the
		the ability to	and systems	body	human body
		evaluate the			when solving
		basic			professional
		morphofunct			problems
		ional data			
		physiological			
		states and			
		pathological			
		processes in			
		the human			
		body			
		A.I-3			
		implementati			
		on of			
		practical			
		experience:			
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		processes in			
		he numan			
		solving			
		professional			
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#### Section name The content of the section in Competen № ce code of the discipline teaching units UK-1 Damage to cells and tissues. Necrosis. Apoptosis. GPC-5 1. UK-1 Morphology of protein and lipid metabolism Fat and protein intracellular GPC-5 and extracellular disorders. 2. accumulations, hyaline changes, amyloidosis, obesity. UK-1 Violation of the metabolism of Morphology of pigment metabolism disorders GPC-5 hemosiderin, bilirubin, 3. melanin, lipofuscin. Stone formation. Calcification. UK-1 Circulatory disorders: Full blood (arterial, venous), GPC-5 bleeding, hemorrhage, stasis. Violations of the content of tissue fluid. thrombosis, 4. embolism, anemia (ischemia), heart attack. DIC syndrome. Shock. UK-1 Morphology of exudative Acute inflammation. GPC-5 inflammation, types (serous, 5. fibrinous, purulent, putrefactive, hemorrhagic, catarrhal, mixed). Chronic inflammation. Morphology of productive UK-1 GPC-5 inflammation (interstitial inflammation, granulomatous 6. inflammation, inflammation with the formation of polyps and genital warts). UK-1 Adaptation and adaptive processes. Hypertrophy. Hyperplasia. GPC-5 Atrophy. Metaplasia. 7. Dysplasia. Compensation. Regeneration. Sclerosis. UK-1 Principles of classification of Tumors. General provisions. Tumors of GPC-5 tumors. Theory of tumor mesenchymal derived tissues. Tumors from melanin-forming tissue. progression. Types of tumor 8. growth. Mature and immature tumors from mesenchymal derived tissues. Nevus, melanoma. UK-1 Tumors from the epithelium. Mature and immature tumors GPC-5 from multilayered squamous 9. and glandular epithelium morphology, localization,

## 4. Sections of the academic discipline and competencies that are formed when mastering them

			degree of differentiation,
			prognosis.
	UK-1	Cancer of individual localizations.	Cancer of the esophagus,
	GPC-5		stomach, breast, uterus –
			relevance, precancerous
10.			processes, anatomical,
			histological forms, localization
			of early, late metastases, causes
			of death.
	UK-1	Tumors of hematopoietic and lymphoid	Leukemia – classification
	GPC-5	tissue.	principles, clinical and
			morphological features of
11.			different types, prognosis.
			Lymphogranulomatosis –
			variants according to Lewkis,
			prognosis.
	UK-1	Diseases of the cardiovascular system	Atherosclerosis. Hypertension.
	GPC-5		Coronary heart disease.
12.			Cerebrovascular diseases.
			Rheumatism. Acquired heart
			defects.
	UK-1	Lung diseases.	Lung infections. Pneumonia
	GPC-5		(croup, bronchopneumonia,
13.			intrauterine). Flu. Chronic
			nonspecific lung diseases.
			Lung cancer.
	UK-1	Diseases of the gastrointestinal tract	Gastritis, peptic ulcer of the
14.	GPC-5		stomach and duodenum,
			appendicitis.
		Discourse of the linear and hillings (as of	I and in the set is well
	GPC-5	Diseases of the liver and binary tract.	jaundice, nepatic cell
15	010-5		prograssive liver percesis)
15.			bapatitis airrhosis of the liver
			cholelithiasis
	<u>ШК-1</u>	Kidney diseases	Acute renal failure (necrotic
	GPC-5	Kiune y uiseases.	nenhrosis) nenhrotic
			syndrome glomerulonenbritis
16.			amyloidosis of the kidneys
			kidney stones
			Ridney stones.
	UK-1	Intestinal infections. Sepsis.	Salmonellosis, typhoid fever
	GPC-5		dysentery, cholera, versiniosis.
15			Sepsis: septicemia,
17.			septicopyemia, bacterial
			endocarditis, chroniosepsis.
	UK-1	Tuberculosis.	Primary tuberculosis,
19	GPC-5		hematogenic tuberculosis,
10.			secondary tuberculosis.
10	UK-1	Bacterial and viral infections transmitted by	Diphtheria, scarlet fever,
17.	GPC-5	airborne droplets (diphtheria, scarlet fever,	measles, meningococcal

Importance       Infection.         Ne       Competence code       Section name of the discipline       The content of the section in teaching units         I.       UK-1       Organization of pathanatomic service in medical institutions (its prospects, further improvement). The importance and role of the pathology service in the health care system (tasks).       The content of the section in teaching units         2.       UK-1       Tasks, documentation of PAO medical institutions. The significance and tasks of pathoanatomic autopsy. Execution of the autopsy report.       Organization of pathanatomic service in medical institutions (is prospects, further improvement).         2.       UK-1       Tasks, documentation of PAO medical institutions. The significance and tasks of pathoanatomic autopsy. Execution of the autopsy report.       Organization of pathanatomic service in medical institutions (is prospects, further improvement).         The importance and role of the pathology service in medical institutions (is prospects, further improvement).       Organization of pathanatomic institutions (is prospects, further improvement).         The importance and role of the pathology service in the health care system (tasks). Order of the Ministry of Health No. 667 of 15.10.70, No. 8 of 04.04.83, No. 82 of 29.04.94 "On mesures to improve the pathology service".         Decision of the Board of the Ministry of Health No. 11.11.76, g. "On the state and prospects of development of the pathology service in the country (issues of information and registration of PAO). Circular letter of the Ministry of Health No. 10 the RSFSR* dired 28.06.78. Order No. 2 of the Ministry of Health of 10 t		m	easles, meningococcal infection). HIV	infection.
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	Regulations on PAO medical
	institutions, its tasks,
	documentation. Order of the
	Ministry of Health No. 1092 of
	1982 Equipment and equipment of
	PAO hospital. Instruction "On the
	procedure for autopsy of corpses in
	medical institutions, including the
	procedure for autopsy of corpses of
	stillbirths and newborns who died
	in the perinatal period." Order No.
	82 of 29.04.94. The procedure for
	opening the corpses of patients who
	died at the medical site. A
	demonstrative autopsy (in which
	students take part as assistants). The
	technique of pathoanatomic autopsy
	of a corpse, discussion of the found
	changes.
	The remaining time from the lesson
	is used by students for self-
	recording of the autopsy performed
	according to the schemes-
	instructions, medical history,
	textbook. They make up the text of
	the protocol and hand it over to the
	teacher for verification the next
	day. WHEN THERE IS NO
	AUTOPSY: The movie "Shore
	Autopsy Technique". Familiarity
	with the work of the regional
	dissection: equipment and
	equipment, stall, documentation,
	of the Ministry of Health No. 82 of
	29 04 94
	WHEN THERE IS NO AUTOPSV
	Independent work of students
	(under the guidance and constant
	advice of a teacher) to study and
	solve logical problems, as which
	the protocols of pathoanatomic
	autopsy with a clinical extract from
	the medical history and the final
	clinical diagnosis are used.
	Task 1. Based on the information
	received:
	A) Formulate a detailed path.
	anatomical diagnosis in compliance
	with its structure.
	B) Write a clinical and anatomical
	epicrisis.
	C) Issue a medical certificate of
	death.

			Task 2 The enumeration of
			nosological forms and
			nosological lotins and
			at the pathoanatomic sytonsy is
			at the pathoanatonne autopsy is
			given without observing
			the structure of the diagnosis as a
			whole. Having discovered defects
			in the formulation of the diagnosis,
			correctly formalize a detailed
			pathoanatomical diagnosis,
			observing the necessary order,
			highlighting the underlying disease,
			its complications, etc.
			Task 3. In case of insufficiency of
			sectional material –
			use archival material of
			macropreparations
			with various pathological processes
			(including drugs from the museum
			of the department). In this regard
			- a macroscopic description of the
			drug is given.
			- a diagnosis is being made.
			The correctness of the interpretation
			of the pathological process on
			macropreparations is checked
			during its analysis.
3.	UK-1	Biopsy work.	Types of biopsies, rules for fixing
	GPC-5		biopsy and surgical material,
			registration of a referral for
			histological examination, the
			procedure for maintaining

# 5. Volume of the academic discipline and types of academic work

Type of educational work	Labor i volume in	ntensity volume in	Labor intensity (AH) in semesters	
	credit units (CU)	academic hours (AH)	5	6
Classroom work, including				
Lectures (L)	0,7	26	18	8
Laboratory practicum (LP)*				
Practicals (P)	2,8	102	66	36
Clinic practicals (CP)				
Seminars (S)				
Student's individual work (SIW)	2,4	88	60	28
Student's Research work (R&D)				
Mid-term assessment				
credit/exam (specify the type)	1	36		36
TOTAL LABOR INTENSITY	7	252	144	108

# 6. Content of the academic discipline

# 6.1. Sections of the discipline and types of academic work

# PATHOLOGICAL ANATOMY

N⁰	Semester	Name of the section of	Types of academic work* (in AH)						
		the academic discipline							
			L	LP	Р	CP	S	SIW	total
1.	5	Pathological anatomy: content, tasks, objects and methods of research. Historical stages of pathology development. Damage and death of cells and tissues: causes, mechanisms, types of irreversible damage.	1		5			4,5	10,5
2.	5	Necrosis. Apoptosis. Reversible damage to cells and tissues. Intracellular and extracellular accumulations due to impaired protein and fat metabolism. Hyaline changes.	1		5			4,5	10,5
3.	5	Morphology of pigment metabolism disorders (hemosiderin, bilirubin, melanin, lipofuscin). Stone formation. Calcification.	2		5			4,5	11,5
4.	5	Circulatory disorders: full blood (arterial, venous), bleeding, hemorrhage, stasis. Violations of the content of tissue fluid.	1		5			4,5	10,5
5.	5	Circulatory disorders: thrombosis, embolism, anemia (ischemia), infarction. DIC syndrome. Shock.	1		5			4,5	10,5
6.	5	Inflammation. Acute inflammation. Morphology of exudative inflammation.	2		5			4,5	11,5
7.	5	Chronic inflammation. Productive inflammation. Adaptation processes. Hypertrophy. Hyperplasia. Atrophy. Metaplasia. Dysplasia.	2		5			4,5	11,5

8.	5	Tumors. General provisions. Tumors of mesenchymal derived tissues. Tumors from melanin-forming tissue.	2	5		4,5	11,5
9.	5	Tumors from the epithelium. Cancer of individual localizations (esophagus, stomach, breast, uterus).	2	5		3,5	10,5
10.	5	Tumors of hematopoietic and lymphoid tissue (leukemia, lymphogranulomatosis).	2	5		4	11
11.	6	Atherosclerosis. Hypertension. Coronary heart disease.	1	5		4	10
12.	6	Cerebrovascular diseases. Rheumatism. Acquired heart defects.	1	5		4	10
13.	6	Lung infections. Pneumonia (croup, bronchopneumonia, intrauterine). Flu. Chronic nonspecific lung diseases. Lung cancer.	2	5		4	11
14.	6	Diseases of the gastrointestinal tract (gastritis, peptic ulcer, appendicitis).	1	5		4	10
15.	6	Diseases of the liver and biliary tract: jaundice, hepatic cell insufficiency (massive progressive liver necrosis), hepatitis, cirrhosis of the liver, cholelithiasis.	1	5		4	10
16.	6	Kidney diseases: acute renal failure (necrotic nephrosis), nephrotic syndrome, glomerulonephritis, amyloidosis of the kidneys, kidney stones.	1	5		4	10

17.	6	Intestinal infections (salmonellosis, typhoid fever, dysentery, cholera, yersiniosis). Sepsis.	1	5		4	10
18.	6	Tuberculosis (primary, hematogenic, secondary).	1	5		4	10
19.	6	Bacterial and viral infections transmitted by airborne droplets (diphtheria, scarlet fever, measles, meningococcal infection). HIV infection.	1	5		4	10
20	6	Organization of pathanatomic service in medical institutions (its prospects, further improvement). The importance and role of the pathology service in the health care system (tasks).		3		4	7
21	6	Tasks, documentation of PAO medical institutions. The significance and tasks of pathoanatomic autopsy. Execution of the autopsy report.		2		3	5
22	6	Biopsy work.		2		2	4
TOTAL			26	102		88	252

L- lectures LP – Laboratory practicum P – practicals Clinic practicals (CP) Seminars (S) Student's individual work (SIW)

6.2. Thematic schedule of lectures

N⁰	Name of lecture topics	Volume in	AH
		semester5	semester6
1	Pathological anatomy: content, tasks, objects and methods of	1	
	research. Historical stages of pathology development. Damage and		
	death of cells and tissues: causes, mechanisms, types of irreversible		
	damage. Necrosis. Apoptosis.		
2	Reversible damage to cells and tissues. Intracellular accumulations.	1	
	Hemosiderosis. Jaundice. Pathological calcification. Hyaline		
	changes.		

3	Water-electrolyte balance: characteristics, regulation, violations.	2	
	Circulatory disorders: venous congestion, bleeding, hemorrhage.		
	Stasis. Thrombosis. Embolism. Ischemia. Infarction.		
4	Inflammation. Definition, essence, biological significance.	2	
	Inflammatory mediators. Local and general manifestations of		
	inflammation. Acute inflammation: etiology, pathogenesis.		
	Morphological manifestations of exudative inflammation.		
5	Outcomes of acute inflammation.v	2	
Э	Tumors: definition, nomenclature, principles of classification.	2	
	Characteristics of tumor growth. Molecular bases of		
	carcinogenesis. Antitumor immunity. Tumors are benign and		
	from mangement tions		
	Classification, nomenclature and morphological factures of tumore		
	from the opithelium		
6	The destrine of diagnosis Definition principles of construction of	2	
0	clinical and pathoanatomic diagnoses. Causes, categories of	2	
	discrepancy of diagnoses. The concept of jatrogeny		
	Vascular diseases Atherosclerosis and arteriosclerosis Vasculitis		
	Ftiology nathogenesis morphological characteristics Heart		
	disease Coronary heart disease Hypertension Chronic and acute		
	pulmonary heart		
7	Heart disease. Diseases of the heart valves. Myocardial diseases.	1	
	Diseases of the pericardium. Rheumatism.	-	
8	Pathology of blood cells and bone marrow. Tumors of	2	
_	hematopoietic tissues. Myeloproliferative diseases.		
	Myelodysplastic syndromes. Tumors from plasma cells. Hodgkin's		
	disease. Non-Hodgkin's lymphomas.		
9	Infectious and parasitic diseases. Interaction of the macroorganism	1	
	and infectious agents. Characteristics of the infectious process.		
10	Local and general reactions in infections. Bacteremia. Sepsis as a		1
	special form of infection development. Intestinal infections:		
	typhoid fever, cholera, dysentery, salmonellosis, yersiniosis.		
11	Tuberculosis. Etiology, pathogenesis, morphogenesis,		1
	classification, morphological characteristics.		
12	Bacterial and viral airborne infections. Flu. Parainfluenza.		1
	Adenovirus infection. Measles. Scarlet fever. Meningococcal		
	infection. Diphtheria. Legionellosis.		
13	Respiratory diseases: classification. Acute pneumonias.		1
14	Obstructive and restrictive lung diseases. Tumors of the bronchi		1
	and lung.		
15	Diseases of the gastrointestinal tract: classification. Stomach		1
	diseases: gastritis, peptic ulcer (peptic ulcer), stomach tumors.		
16	Liver diseases: hepatoses, hepatitis, cirrhosis.		1
17	Kidney diseases: classification. Glomerular diseases, acute, rapidly		1
	progressive and chronic glomerulonephritis. Nephrotic syndrome.		
	Acute and chronic renal failure. Kidney tumors.		
	TOTAL (total 34 AH)	18	8

**6.3.** The thematic plan of laboratory practicums is not provided by the federal state educational standard

# **6.4.** Thematic plan of practicals

п/№	Name of the topics of practicals	Volume in	AH
		semester5	Semester6
1	Pathological anatomy: content, tasks, objects and methods of research. Historical stages of pathology development. Damage and death of cells and tissues: causes, mechanisms, types of irreversible damage. Necrosis. Apoptosis.	5	
2	Reversible damage to cells and tissues. Intracellular and extracellular accumulations due to impaired protein and fat metabolism. Hyaline changes.	5	
3	Morphology of pigment metabolism disorders (hemosiderin, bilirubin, melanin, lipofuscin). Stone formation. Calcification.	5	
4	Circulatory disorders: full blood (arterial, venous), bleeding, hemorrhage, stasis. Violations of the content of tissue fluid.	5	
5	Circulatory disorders: thrombosis, embolism, anemia (ischemia), infarction. DIC syndrome. Shock.	5	
6	Inflammation. Acute inflammation. Morphology of exudative inflammation.	5	
7	Chronic inflammation. Productive inflammation. Adaptation processes. Hypertrophy. Hyperplasia. Atrophy. Metaplasia. Dysplasia.	5	
8	Tumors. General provisions. Tumors of mesenchymal derived tissues. Tumors from melanin-forming tissue.	5	
9	Tumors from the epithelium. Cancer of individual localizations (esophagus, stomach, breast, uterus).	5	
10	Tumors of hematopoietic and lymphoid tissue (leukemia, lymphogranulomatosis).	5	
11	Atherosclerosis. Hypertension. Coronary heart disease.	5	
12	Cerebrovascular diseases. Rheumatism. Acquired heart defects.	5	
13	Lung infections. Pneumonia (croup, bronchopneumonia, intrauterine). Flu. Chronic nonspecific lung diseases. Lung cancer.		5
14	Diseases of the gastrointestinal tract (gastritis, peptic ulcer, appendicitis).		5
15	Diseases of the liver and biliary tract: jaundice, hepatic cell insufficiency (massive progressive liver necrosis), hepatitis, cirrhosis of the liver, cholelithiasis.		5
16	Kidney diseases: acute renal failure (necrotic nephrosis), nephrotic syndrome, glomerulonephritis, amyloidosis of the kidneys, kidney stones.		5

17	Intestinal infections (salmonellosis, typhoid fever, dysentery, cholera, yersiniosis). Sepsis.		5
18	Tuberculosis (primary, hematogenic, secondary).		5
19	Bacterial and viral infections transmitted by airborne droplets (diphtheria, scarlet fever, measles, meningococcal infection). HIV infection.		5
20	Organization of pathanatomic service in medical institutions (its prospects, further improvement). The importance and role of the pathology service in the health care system (tasks).		3
21	Tasks, documentation of PAO medical institutions. The significance and tasks of pathoanatomic autopsy. Execution of the autopsy report.		2
22	Biopsy work.		2
	TOTAL (total - 102 AH)	60	42

# 6.5. Thematic plan of seminars is not provided by the federal state educational standard

п/№	Types and topics of SIW	Volume in AH		
		semester 5	semester 6	
1	Pathological anatomy:	Preparation for practical		
	content, tasks, objects	classes, testing, current		
	and methods of	control with the help of		
	research. Historical	lecture materials,		
	stages of pathology	textbooks, including		
	development. Damage	work with electronic		
	and death of cells and	educational resources on		
	tissues: causes,	the university portal. –		
	mechanisms, types of	4,5		
	irreversible damage.			
	Necrosis. Apoptosis.			
2	Reversible damage to	Preparation for practical		
	cells and tissues.	classes, testing, current		
	Intracellular and	control with the help of		
	extracellular	lecture materials,		
	accumulations due to	textbooks, including		
	impaired protein and fat	work with electronic		
	metabolism. Hyaline	educational resources on		
	changes.	the university portal $-4,5$		
3	Morphology of pigment	Preparation for practical		
	metabolism disorders	classes, testing, current		

# 6.6. Types and topics of student's individual work (SIW)

	(hemosiderin, bilirubin,	control with the help of	
	melanin, lipofuscin).	lecture materials.	
	Stone formation	textbooks including	
	Calcification	work with electronic	
		educational resources on	
		the university portal $-45$	
4	Circulatory disorders:	Preparation for practical	
	full blood (arterial	classes testing current	
	vanous) blooding	control with the halp of	
	homorrhago stasis	lactura materials	
	Violations of the	taythooks including	
	violations of the	work with alastronia	
	Cinculatory disorders:	work with electronic	
	throwshoois and alian	the university parts 4.5	
		the university portal.– 4,5	
	anemia (ischemia),		
	heart attack. DIC		
	syndrome. Shock.		
2	Inflammation. Acute	Preparation for practical	
	inflammation.	classes, testing, current	
	Morphology of	control with the help of	
	exudative	lecture materials,	
	inflammation.	textbooks, including	
		work with electronic	
		educational resources on	
		the university portal. $-4,5$	
6	Chronic inflammation.	Preparation for practical	
	Productive	classes, testing, current	
	inflammation.	control with the help of	
	Adaptation processes.	lecture materials,	
	Hypertrophy.	textbooks, including	
	Hyperplasia. Atrophy.	work with electronic	
	Metaplasia. Dysplasia.	educational resources on	
		the university portal.–4,5	
7	Tumors. General	Preparation for practical	
	provisions. Tumors of	classes, testing, current	
	mesenchymal derived	control with the help of	
	tissues. Tumors from	lecture materials,	
	melanin-forming tissue.	textbooks, including	
		work with electronic	
		educational resources on	
		the university portal. – 4,5	
8	Tumors from the	Preparation for practical	
	epithelium.	classes, testing, current	
		control with the help of	
		lecture materials	
		iccluic matchais,	

		work with electronic educational resources on the university portal. – 4,5	
9	Cancer of individual localizations (esophagus, stomach, breast, uterus).	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal.– 3,5	
10	Tumors of hematopoietic and lymphoid tissue (leukemia, lymphogranulomatosis).	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal4	
11	Atherosclerosis. Hypertension. Coronary heart disease.	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal4	
12	Cerebrovascular diseases. Rheumatism. Acquired heart defects.	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal4	
13	Lung infections. Pneumonia (croup, bronchopneumonia, intrauterine). Flu. Chronic nonspecific lung diseases. Lung cancer.		Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal4

14	Diseases of the	Preparation for practical
	gastrointestinal tract	classes, testing, current
	(gastritis, peptic ulcer,	control with the help of
	appendicitis).	lecture materials, textbooks,
		including work with
		electronic educational
		resources on the university
		portal.–4
15	Diseases of the liver	Preparation for practical
	and biliary tract:	classes, testing, current
	jaundice, hepatic cell	control with the help of
	insufficiency (massive	lecture materials, textbooks,
	progressive liver	including work with
	necrosis), hepatitis,	electronic educational
	cirrhosis of the liver.	resources on the university
	cholelithiasis.	portal.–4
16	Kidney diseases: acute	Preparation for practical
	renal failure (necrotic	classes, testing, current
	nephrosis), nephrotic	control with the help of
	syndrome,	lecture materials, textbooks,
	glomerulonephritis,	including work with
	amyloidosis of the	electronic educational
	kidneys, kidney stones.	resources on the university
		portal.–4
17	Intestinal infections	Preparation for practical
	(salmonellosis, typhoid	classes, testing, current
	fever, dysentery,	control with the help of
	cholera, yersiniosis).	lecture materials, textbooks,
	Sepsis.	including work with
		electronic educational
		resources on the university
		portal. – 4
18	Tuberculosis (primary,	Preparation for practical
	hematogenic,	classes, testing, current
	secondary).	control with the help of
		lecture materials, textbooks,
		including work with
		electronic educational
		resources on the university
		portal.–4
19	Bacterial and viral	Preparation for practical
	infections transmitted	classes, testing, current
	by airborne droplets	control with the help of
	(diphtheria, scarlet	lecture materials, textbooks,
	fever, measles,	including work with
	meningococcal	electronic educational

	infection). HIV		resources on the university
	infection.		portal.–4
20	Organization of pathanatomic service in medical institutions (its prospects, further improvement). The importance and role of the pathology service in the health care system (tasks).		Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal.– 4
21	Tasks, documentation of PAO medical institutions. The significance and tasks of pathoanatomic autopsy. Execution of the autopsy report.		Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal. – 3
22	Biopsy work.		Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal.– 2
	TOTAL (total - 88 AH)	50	38

# 7. Types of assessment formats for ongoing monitoring and mid-term assessment

				Assessment formats		
№	Semes ter No.	Types of control	Name of section of academic discipline	types	number of test questions	number of test task options
1	2	3	4	5	6	7
1.	5	Current	General pathological	multiple	10	Not limited
		monitoring	anatomy	choice		
				questions		
				situationa	10	40
		Midterm		l cases		
		assessment				

2.	6	Current	Systemic pathological	multiple	10	Not limited
		monitoring	anatomy	choice		
				questions		
				situationa	10	40
		Midterm		l cases		
		assessment				
3.	6	Current	Clinical pathological	multiple	10	Not limited
		monitoring	anatomy	choice		
				questions		
				situationa	10	40
		Midterm		l cases		
		assessment				
4.	6	Exam	All sections of the	multiple	100	Not limited
			discipline	choice		
				questions		
				Grosses,	200	Not limited
				slides,		
				situationa		
				l cases		

Examples of evaluation tools :

- 1. General pathology:
- Exudative inflammation:
- 1. Highlight the phase of the inflammatory reaction
- 1) fullness of blood 4) repair
- 2) dystrophy 5) regeneration
- 3) exudation
- 2. The main cells in the focus of acute inflammation are
- 1) monocytes 4) neutrophilic leukocytes
- 2) macrophages 5) fibroblasts
- 3) histiocytes
- 3. What is exudate?
- 1) edematous fluid
- 2) inflammatory fluid
- 3) abnormal fluid containing protein
- 4} inflammatory fluid with the addition of red blood cells 5) any pathological fluid
- 4. Specify the type of exudative inflammation
- 1) serous 4) mucosal
- 2) granulomatous 5) chronic
- 3) interstitial

- 5. Highlight the erroneous name of the type of exudative inflammation
- 1) serous 4) fibrous
- 2) purulent 5) putrid
- 3) fibrinous
- 6. Localization, in which only diphtheria inflammation develops and there is no croup
- 1) pleura 4) palatine tonsils
- 2) peritoneum 5) large intestine
- 3) pericardium
- 7, The following type of fibrinous inflammation develops on the oral mucosa:
- 1) phlegmonous:
- 2) interstitial;
- 3) hemorrhagic;
- 4) putrefactive;
- 5) diphtheria.
- 8. With microscopy, purulent exudate is diagnosed by a large number of
- 1) fibrin 4) lymphocytes
- 2) neutrophilic white blood cells 5) red blood cells
- 3) macrophages
- 9. Specify the name of the purulent inflammation
- 1) abscess 4) cyst
- 2) granuloma 5) hematoma
- 3) anasarka
- 10. Specify the types of acute catarrhal inflammation
- 1) serous 4) purulent
- 2) mucus 5) all of the listed
- 3) mucopurulent

Exudative inflammation

1. Name the forms (types) of inflammation, depending on the predominance of a particular

inflammatory reaction P=2

2. List the morphological types of acute catarrh P=5

3. In the development of what morphological changes is expressed in the restructuring of the mucous membrane in chronic catarrh P=4

- 4. What are the most frequent outcomes of acute abscess P=3
- 5. The patient suffered from kidney disease for a long time. He died of uremia (poisoning with nitrogenous slags with insufficient kidney function). At the autopsy, in addition to kidney pathology, fibrinous pericarditis and diphtheria colitis were found.
- 1. describe the appearance of the pericardium found at the autopsy P=3
- 2. give a name to such a heart P=1
- 3. what kind (type) of fibrinous inflammation developed in the pericardium P=1
- 4. whether here (the pericardium) to develop another kind of fibrinous inflammation P=1
- 5. what outcomes can be fibrinous pericarditis R=2

6. what morphological changes of the mucosa of the large intestine determines in this case, diphtheric inflammation fibrinous form R=1

- 7. could this localization to develop croupous inflammation P=1
- 8. what is the outcome of fibrinous inflammation of the colon R=1
- 9. what other localization diphtheric inflammation P=4
- 10. what was the cause of diphtheria colitis described in the problem P=1

2. Systemic pathology

Tuberculosis

Option 1

1. Name the forms of progression of primary tuberculosis P-4

2. What morphological changes occur during the stabilization and healing of primary tuberculosis foci? P-6

3. What morphological changes are characteristic of tuberculous lymphadenitis / preparation No. 164/  $P\mbox{-}2$ 

4. A 60-year-old patient suffered from fibrocavernous pulmonary tuberculosis for a long time, the symptoms of chronic pulmonary-heart failure gradually increased, from which he died.

1) list the main morphological features of this form of tuberculosis P-5

2) describe the structure of the wall of the chronic cavity P-3

3) explain why the patient developed chronic heart failure P-1

4) which part of the heart will be changed more? P-1

5) what are the possible causes of death in secondary tuberculosis? P-5

6.3. Evaluation tools recommended for inclusion in the fund of evaluation tools for the final state certification.

1. Set the match:

1. primary tuberculosis a) acute focal tuberculosis

2. hematogenic tuberculosis b) hematogenically disseminated pulmonary tuberculosis

3. secondary tuberculosis c) growth of primary affect

Correct answer: 1-b 2-b 3-a

2. Establish the correct sequence of events in the development of cervical cancer:

cancer "in situ" grade III

epithelial dysplasia epithelial dysplasia I, II

invasive carcinoma

metastasis

Correct answer: 3, 2, 1, 4, 5

3. Name the morphological type of necrosis:

dry wet gangrene curd colliquation

4. Hemorrhage with destruction (necrosis) of the tissue is called: bruising petechiae ecchymosis hematoma hemorrhagic infiltration

5. Complete the:

\_\_\_\_\_\_ – this is a focal purulent inflammation with melting of the tissue (necrosis) and subsequent formation of a cavity Correct answer: abscess

6. Septicemia is characterized by all of the above, except: rapid rapid course development of hemorrhagic syndrome necrotic changes in parenchymal organs metastatic ulcers pronounced hemolytic jaundice

# 8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources) 8.1. Key literature references

N⁰	Name according to bibliographic requirements	Number of copies	
		at the	in the library
		department	
1.	Robbins Basic Pathology / edited by Vinay Kumar,	0	100
	Abul K. Abbas, Jon C.Aster 9th ed, Elsevier		
	Saunders, 2015, 924 p.		

# **8.2.** Further reading

N⁰	Name according to bibliographic requirements	Number of copies	
		at the	in the library
		department	
1.	Pathological anatomy of general part: manual /	0	50
	A. Artifeksova et al. – Nizhny Novgorod: Publishing House		
	of NNSMA, 2011. – 76 p.		
2.	Pathological anatomy of systemic and infectious diseases:	0	50
	manual / A.Artifeksova et al. – Nizhny Novgorod:		
	Publishing House of NNSMA, 2011. – 48 p.		

# 8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

Name	of the	Brief description (content)	Access conditions	Number of users
electronic resource				
Internal	Electronic	The works of the academic staff	from any computer located	Not limited
Library	System	of the Academy: textbooks and	on the Internet, using an	
(ELS)		manuals, monographs,	individual login and	
		collections of scientific papers,	password	
		scientific articles, dissertations,	[Electronic resource] –	
		abstracts of dissertations,	Access mode:	
		patents.	http://95.79.46.206/login.ph	
			p	

# 8.3.2. Electronic educational resources acquired by the University

Name of the	Brief description (content)	Access conditions	Number of users
electronic resource			
Electronic database	Educational literature +	from any computer located	General PIMU
"Student	additional materials (audio,	on the Internet, using an	subscription
Consultant"	video, interactive materials, test	individual login and	
	tasks) for higher medical and	password	
	pharmaceutical education.	[Electronic resource] –	
	Publications are structured by	Access mode:	
	specialties and disciplines in	http://www.studmedlib.ru/	
	accordance with the current		
	federal state educational		
	standards		

Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishers, including translations of foreign publications.	from any computer located on the Internet by login and password, from the computers of the academy. The subscription editions are available for reading. [Electronic resource] – Access mode: http://www.books-up.ru/	General PIMU subscription
«Bibliopoisk»	Integrated single window search service for electronic catalogs, electronic library system and full-text databases. The results of a single search in the demo version include documents from domestic and foreign electronic libraries and databases available to the university as part of a subscription, as well as from open access databases.	PIMU has access to the demo version of the Bibliopoisk search engine: http://bibliosearch.ru/pimu .	General PIMU subscription
Domestic electronic periodicals	Periodicals on medical subjects and on higher school issues	<ul> <li>from the computers of the academy on the platform of the electronic library eLibrary.RU</li> <li>journals of the Media Sphere publishing house - from library computers or provided by by the library at the request of the user [Electronic resource] – Access mode: https://elibrary.ru/</li> </ul>	
International scientometric database "The main collection of Web of Science"	Web of Science covers materials on natural, technical, social, and humanitarian sciences; takes into account the mutual citation of publications developed and provided by Thomson Reuters; has built-in capabilities for searching, analyzing, and managing bibliographic information.	Access is free from PIMU computers [Electronic resource] – Access to the resource at: http://apps.webofknowledge .com	Access is free from PIMU computers

# 8.3.3 Open access resources

Name of the	Brief description (content)	Access conditions
electronic resource		
Federal Electronic	Includes electronic analogues of printed publications	from any computer
Medical Library	and original electronic publications that have no	located on the Internet
	analogues recorded on other media (dissertations,	
	abstracts, books, journals, etc.).	

	[Electronic resource] – Access mode: http://нэб.рф/	
Scientific	The largest Russian information portal in the field of	from any computer
Electronic Library	science, technology, medicine and education,	located on the Internet.
eLIBRARY.RU	containing abstracts and full texts of scientific articles	
	and publications. [Electronic resource] – Access	
	mode: https://elibrary.ru/	
Open Access	Full texts of scientific articles with annotations	from any computer
Scientific	published in scientific journals of Russia and	located on the Internet
Electronic Library	neighboring countries. [Electronic resource] – Access	
CyberLeninka	mode: https://cyberleninka.ru/	
Russian State	Abstracts for which there are copyright agreements	from any computer
Library (RSL)	with permission for their open publication [Electronic	located on the Internet
	resource] – Access mode: http://www.rsl.ru/	
Legal reference	Federal and regional legislation, judicial practice,	from any computer
system "Consultant	financial advice, comments on legislation, etc.	located on the Internet
Plus"	[Electronic resource] – Access mode:	
	http://www.consultant.ru/	
Official website of	National clinical guidelines	from any computer
the Ministry of	[Electronic resource] – Access mode: cr.rosminzdrav.ru - Clinical	located on the Internet
Health of the	recommendations	
Russian Federation		
Official website of	Modern materials and clinical recommendations for the diagnosis	from any computer
the Russian	and treatment of respiratory diseases	located on the Internet
Respiratory Society	Respiratory Society	
Official website of	Современные материалы и клинические рекомендации по	from any computer
the Russian	диагностике и лечению заболеваний внутренних органов	located on the Internet
Scientific Society	[Электронный ресурс] – Режим доступа: <u>www.rnmot.ru</u> –	
of Therapists	and clinical recommendations for the diagnosis and treatment of	
	diseases of internal organs	
	[Electronic resource] – Access mode: www.rnmot.ru – Russian	
	Scientific Society of Therapeutists	

#### 9. Material and technical support for mastering an academic discipline.

9.1. List of premises for classroom activities for the discipline

- 1. 6 study rooms
- 2. Conference room
- 3. Museum of Macropreparations

\*specially equipped rooms (classrooms, offices, laboratories, etc.) for lectures, seminars, practical and clinical-practical classes in the study of disciplines, including:

anatomical hall, anatomical museum, corpse storage;

classrooms equipped with simulation equipment;

offices for working with patients receiving medical care.

9.2. List of equipment for classroom activities for the discipline

Multimedia complex (laptop, projector, screen), personal computers in classrooms -90 pcs, 6 binocular microscopes, monitors, printers. Also 6 binocular microscopes, 1 cryostat, 1 freezing microtome, 1 refrigerator, a set of chemical reagents for the preparation of drugs.

Sets of multimedia visual materials on various sections of the discipline. Wood boards.

#### 9.3. A set of licensed and freely distributed software, including domestic production

Ite m no.	Software	number of licenses	Type of software	Manufactur er	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovi ch	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOL OGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscripti on	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10 030 LLC "Softline Trade" from 04.12.2020

#### **10.** List of changes to the working program (to be filled out by the template)

N⁰	Date of changes	No. of the minutes of the meeting of the department, date	Content of the change	Signature

Federal State Budgetary Educational Institution of Higher Education "Privolzhsky Research Medical University" Ministry of Health of the Russian Federation (FSBEI HE "PRMU" of the Ministry of Health of Russia)

> Department of Pathological anatomy

# CHANGE REGISTRATION SHEET

## working program for the academic discipline **PATHOLOGICAL ANATOMY – CLINICAL PATHOLOGICAL ANATOMY**

Field of study / specialty / scientific specialty:

Training profile: \_\_\_\_\_

(name) - for master's degree programs

Mode of study: \_\_\_\_\_

full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. \_\_\_\_\_of \_\_\_\_\_20\_\_\_

Head of the Department

department name, academic title

signature

(code, name)

N.Y.Orlinskaya

print name