

JSC "SOUTH KAZAKHSTAN MEDICAL ACADEMY"


«I APPROVE»
Rector of JSA SKMA professor
M. Rysbekov
2024 y.



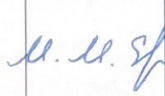



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

EDUCATIONAL RESIDENCY PROGRAM
7R01150
«PATHOLOGICAL ANATOMY»

Shymkent, 2024

ОҢТҮСТІК ҚАЗАҚСТАН МЕДИСІНА АКАДЕМИЯСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979-	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
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Post	Full name	Signature
Developed		
Teaching staff of the Department of Pathology and Forensic Medicine		
Head of the Department, Professor, MD.	Sadykova A.S.	
Chief physician of the Regional Pathology Bureau	Kopabaev M.R.	
Minutes of the meeting of the department № <u>7</u> « <u>26</u> » « <u>01</u> » 20 <u>24</u>		
Discussed at the meeting of the EPC residency The Chairman of the EPC Protocol № <u>5</u> « <u>26</u> » « <u>01</u> » 20 <u>24</u> .	Kauyzbai J.A.	
Approved by the Clinical Council Chairman of the Clinical Council Protocol № <u>8</u> « <u>29</u> » « <u>01</u> » 20 <u>24</u> .	Kauyzbai J.A.	
Approved by the First Vice-Rector of JSC SKMA, The first vice-rector of JSC SKMA <u>30.01.2024</u>	Yesirkepov M.M.	
Approved by the Academic Council Protocol № <u>14</u> « <u>31</u> » « <u>01</u> » 20 <u>24</u> .		

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Passport of the educational program

1. The mission of the educational program: to be recognized as a leader in the field of training competitive personnel, meeting the needs of a resident physician in achieving learning outcomes, providing the healthcare system and society with highly qualified pathologists.


2. The purpose of the educational program: To train a pathologist with a system of universal, professional competencies, providing specialized highly qualified pathoanatomical studies on postmortem and lifetime diagnosis of diseases in their professional activities

3. Justification of the educational program:

- for residents:
- ensuring the integration of practice and theory in pathological anatomy;
- in-depth study of theoretical issues of pathological anatomy;
- mastering practical skills according to modern principles of lifetime and postmortem morphological diagnosis of diseases in adults and children;
- acquisition of skills in assessing and differentiating pathological processes and diseases, taking into account clinical data and morphological manifestations;
- determination of pathological symptoms, disease syndromes, nosological forms from the standpoint of differential and syndromic diagnosis, interpretation of the results obtained;
- independent implementation of autopsies, biopsies and cytological studies.

4. The professional standard on the basis of which the educational program has been developed:

- Normative documents for the development of an educational educational program The Law of the Republic of Kazakhstan "On Professional Qualifications" (dated July 4, 2023 No. 14-VIII SAM.)
- Order of the Minister of Labor and Social Protection of the Republic of Kazakhstan dated September 7, 2023 No. 377 "On approval of the Rules for the development and (or) updating of professional standards"
- Order of the Minister of Labor and Social Protection of the Republic of Kazakhstan dated September 8, 2023 No. 378 "On defining the rules for the establishment of sectoral councils for professional qualifications and approving their model regulations"
 - Order of the Minister of Health of the Republic of Kazakhstan "On approval of standard training programs in medical and pharmaceutical specialties" dated 09.01.2023 No. 4;
 - Order of the Vice-Minister of Health of the Republic of Kazakhstan "On approval of the phased implementation of continuous integrated medical education" dated 08.08.2022 No. 661;
 - Code of the Republic of Kazakhstan dated 07.07.2020 No. 360- VI "On the health of the people and the healthcare system" (with amendments and additions as of 04.07.2022);
 - The Law of the Republic of Kazakhstan "On Education" dated 07/27/2007 No. 319- III, with amendments and additions dated 07/04/2022.
- Order of the Minister of Education and Science of the Republic of Kazakhstan dated 10/16/2013 No. 420 "On approval of Standard Rules for the activities of organizations of higher and (or) postgraduate education" with amendments and additions dated 12/29/2021;
- Order of the Minister of Education and Science of the Republic of Kazakhstan dated 04/20/2011 No. 152 "On approval of the Rules for the organization of the educational process on credit learning technologies" (with amendments and additions as of 05/06/2021)
- Order of the Minister of Health of the Republic of Kazakhstan dated 30.01.2008 No. 27 "On approval of the list of programs of continuous integrated education in clinical specialties" (with amendments and additions as of 05/14/2021)

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- "Guidelines for the development of educational programs of higher and postgraduate education" order of the Director of CBP AM No.45 o/d of the Ministry of Education and Science of the Republic of Kazakhstan dated June 30, 2021.

- "Regulations on the procedure and procedures for the development of educational programs" JSC "SKMA" dated 05/29/2019

- Internal regulatory documents of JSC SKMA.

5. Field of professional activity: Healthcare.

6. Objects of professional activity: corpses of patients with a confirmed clinical diagnosis, surgical and biopsy material. Types of professional activity:

- diagnostic;
- expert;
- scientific research;

General information

№	Characteristics of the EP	Data
1	Registration number	7R01100359
2	The code and classification of the field of education	7R01 Healthcare (the medicine)
3	The code and classification of training areas	7R011 Healthcare
4	Group of educational programs	R050 Pathological anatomy
5	Code, name of the educational program	7R01150 «Pathological anatomy»
6	Type of EP	New EP
7	Software level ISCE	7
8	Software level NQF	7
9	Software level SQF	7
10	Distinctive features EP	Непрерывная интегрированная образовательная программа
	Partner University (CEP)	-
	Partner University (DDEP)	-
11	Competencies key	<p>CK1 Pathoanatomic autopsy of an adult with pathohistological examination of autopsy material. Registration of the autopsy report. Making a pathoanatomical diagnosis and epicrisis</p> <p>CK2 Pathoanatomic autopsy of the deceased in the perinatal period with pathohistological examination of autopsy material. Registration of the autopsy report. Making a pathoanatomical diagnosis and epicrisis</p> <p>CK3 Pathoanatomic autopsy of deceased children (from 1 to 15 years old). Registration of the autopsy protocol with pathohistological examination of autopsy material. Making a pathoanatomical diagnosis and epicrisis</p> <p>CK4 Pathomorphological examination of surgical and biopsy material with the preparation of a pathohistological conclusion.</p> <p>CK5 Filling out medical death certificates, perinatal death certificate</p>

		<p>CK6 Comparison of clinical and pathoanatomical diagnoses with the definition of the category and the reason for the discrepancy of diagnoses</p> <p>CK7 Collection and processing of autopsy and surgical material for histological, forensic histological, microbiological, virological and cytological studies</p>
12	Learning outcomes	<p>LO1. It can evaluate and differentiate pathological processes and diseases with the help of scientific morphological research of changes occurring in cells and tissues of the body, organs and organ systems</p> <p>LO2. It is able to identify pathological symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health-related Problems using clinical and morphological data</p> <p>LO3. It can carry out post-mortem diagnostics in institutions and departments of the pathoanatomic profile</p> <p>LO4. He is able to carry out lifetime morphological diagnostics in institutions and departments of the pathoanatomic profile</p> <p>LO5. It can carry out pathoanatomical studies of corpses of fetuses and children of various age groups</p> <p>LO6. He is able to effectively apply pathoanatomic diagnostic methods, evaluate and differentiate their results</p> <p>LO7. Can apply forensic histological examination skills and evaluate their results</p> <p>LO8. He is able to independently apply cytological diagnostic methods and evaluate their results</p> <p>LO9. He is able to analyze and summarize data on completed studies, compile a report on the work of the pathoanatomical unit in order to improve the quality of pathoanatomical studies</p> <p>LO10. Can conduct research in the field of pathology; analyze professional literature, effectively use international databases in their daily activities, participate in the work of the research team</p> <p>LO11. He is able to study independently, actively participates in clinical and anatomical conferences, discussions, and other forms of formal and informal professional development</p> <p>LO12. Observe the rules of ethics and deontology in pathological anatomy when interacting with relatives of the deceased, work colleagues and health authorities</p>
13	The form of education	Full-time
14	The language of instruction	Kazakh, Russian
15	Volume of loans	140
16	Degree awarded, qualification	Doctor - pathologist

17	Availability of an appendix to the license for the direction of training	KZ22BFA00167288
18	Availability of EP accreditation	No
	Name of the accreditation body	
	Certificate of accreditation No., validity period of accreditation	
19	Information about the disciplines	Application 1.2

Application 1.1

The matrix of correlation of learning outcomes according to the educational program as a whole with the competencies being formed

LO CK	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	LO 9	LO 10	LO 11	LO 12
CK 1	+	+	+	+	+				+			
CK 2	+		+	+	+	+	+		+	+		
CK 3	+			+	+	+		+	+			
CK 4	+	+		+	+	+	+			+		
CK 5			+	+	+	+	+	+		+		
CK 6			+	+	+	+	+	+	+	+		
CK 7			+	+	+	+	+	+	+	+	+	+

Application 1.2

Matrix of achievability of competencies/learning outcomes

№	Name of the discipline	A brief description of the discipline (30-50 words)	Cycle (CD)	Component (RC, CC)	Number of credits.	Generated learning outcomes (codes)
The cycle of core disciplines (CD) Required component (RC)						
1	General and private pathology	The organization and structure of the pathology service. Regulatory documents. Typical pathological processes, their outcome. Pathology of organs and systems, etiology, pathogenesis, morphogenesis, pathanatomy, complications, causes of death. The procedure for	CD	RC	30	LO 1 LO 2 LO 9 LO 11 LO 12




	autopsy, protocol design, pathoanatomic epicrisis, morphological diagnosis of diseases, comparison of diagnoses. The procedure for sampling the material, making histological sections and smears. Ethics and deontology in pathological anatomy.				
Forensic histological pathomorphology	The procedure for conducting forensic histological examinations. Expert assessment of lifetime, prescription, type of damaging factor or pathological process, causes of death, corpses of newborns, organ tissue belonging of physical evidence. Microscopic examination of pieces of internal organs; skin with a strangulation furrow, diagnosis of electrometry. Diagnosis of the presence of diatom plankton in bone marrow, blood and cerebrospinal fluid. Making a forensic histological diagnosis.	CD	RC	17	LO 3 LO 4 LO 6 LO 7
Clinical pathomorphology in surgery with cytopathology	Pathological anatomy of surgical diseases. Pathoanatomic autopsies and pathomorphological studies in surgery. Types of biopsies. Registration of the protocol. Cutting of surgical and biopsy material. Microscopic examination of tissue fragments obtained during autopsy, biopsy, surgical material, cytological smears. Registration of pathohistological, cytological conclusion, diagnosis. Pathomorphological and cytological differential diagnosis of diseases. Comparison of diagnoses. Participation in clinical and anatomical conferences.	CD	RC	16	LO 3 LO 4 LO 6 LO 8 LO 9 LO 10 LO 11
Clinical pathomorphology in therapy	Pathological anatomy of therapeutic diseases. Pathoanatomic autopsies and pathomorphological studies in therapy. Registration of the autopsy report. Microscopic examination of tissue fragments obtained during autopsy. Making a	CD	RC	14	LO 3 LO 4 LO 6 LO 9 LO 10 LO 11



		pathohistological diagnosis. Comparison of diagnoses. Participation in clinical and anatomical conferences.				
	Clinical pathomorphology in obstetrics and gynecology with cytopathology	Pathological anatomy of gynecological diseases, diseases of pregnancy and the postpartum period. Maternal death. Pathoanatomic autopsies and pathomorphological studies. The procedure for cutting endometrial scrapings. Microscopic examination of tissue fragments obtained during autopsy, biopsy, surgical material, cytological smears. Registration of pathohistological, cytological conclusion, diagnosis. Pathomorphological and cytological differential diagnosis of diseases. Comparison of diagnoses. Participation in clinical and anatomical conferences.	CD	RC	14	LO 3 LO 4 LO 6 LO 9 LO 10 LO 11
	Clinical pathomorphology in pediatrics	Pathological anatomy of the most important diseases of childhood. Prenatal pathology. Pathology of the afterbirth. Perinatal pathology. Childhood infections. Tumors in children. Pathoanatomic autopsies of fetuses, newborns, and children of various age groups. Registration of the autopsy protocol, diagnosis, and epicrisis. Pathomorphological studies in the lifetime diagnosis of pathological processes and diseases of childhood. Pathomorphological examination of the afterbirth. Participation in clinical and anatomical conferences.	CD	RC	13	LO 3 LO 4 LO 5 LO 6 LO 9 LO 10 LO 11
	Clinical pathomorphology in oncology with cytopathology	Pathological anatomy of oncological diseases. Pathoanatomic autopsies, pathomorphological and cytological studies in oncology. Registration of the protocol. Registration, cutting of surgical, biopsy material, taking swabs. Microscopic examination of autopsy, biopsy.	CD	RC	20	LO 3 LO 4 LO 6 LO 9 LO 10 LO 11

		surgical material, cytological smears. Immunohistochemical diagnostic methods. Registration of a pathohistological, cytological conclusion. Pathomorphological and cytological differential diagnosis of tumor and other diseases. Comparison of diagnoses. Participation in clinical and anatomical conferences.				
	Clinical pathomorphology in dentistry	Pathological anatomy of diseases of the dental system and oral cavity. Diseases of the hard tissues of the tooth, pulp, periapical tissues of teeth, gums and periodontium, jaws, salivary glands, lips, tongue, soft tissues of the oral cavity. Cutting of surgical and biopsy material. Microscopic examination, pathomorphological differential diagnosis of tumor and other diseases. Comparison of clinical and pathohistological diagnoses.	CD	RC	10	LO 4 LO 6 LO 10
TOTAL					134	
The cycle of core disciplines (CD) Component of choice (CC)						
1	Pathology of emergency conditions	Pathology of emergency conditions in various diseases, the use of weapons of mass destruction, acute poisoning and intoxication, as a result of drug deficiency. Pathoanatomic autopsies and pathomorphological studies. Registration of the autopsy report. Filling out a medical death certificate. Making a pathoanatomic diagnosis and epicrisis. Comparison of clinical and pathoanatomic diagnoses.	CD	CC	4	LO 3 LO 4 LO 6 LO 10
2	Iatrogenic pathology	Pathological anatomy of iatrogenies and their types. Medical error. The procedure for conducting an autopsy, registration of the protocol, pathoanatomic epicrisis, medical death certificate and morphological diagnosis	CD	CC		LO 3 LO 4 LO 6 LO 10
3	Pathological	Pathoanatomic analysis of the	CD	CC		LO 3

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	anatomy and examination of maternal death	causes of maternal deaths. Conducting autopsies at maternal death. Antenatal, intra- and postnatal fetal death, pathoanatomic examination of the fetus, afterbirth at maternal death. Registration of the autopsy protocol, pathoanatomic epicrisis, medical death certificate, peculiarities of coding diseases and causes of death in maternal death. Morphological diagnosis.				LO 4 LO 5 LO 6 LO 10
4	Pathological anatomy particularly dangerous infections	Pathological anatomy of natural focal infections: plague, cholera, tularemia, brucellosis, anthrax, botulism, rabies, Congo-Crimean hemorrhagic fever. The procedure for organizing the work of the pathology department, conducting pathoanatomical autopsies in case of suspicion of a particularly dangerous infection. Microbiological and pathomorphological studies. Registration of the autopsy report. Filling out a medical death certificate. Making a pathoanatomic diagnosis and epicrisis. Comparison of clinical and pathoanatomic diagnoses.	CD	CC		LO 3 LO 4 LO 6 LO 10
	Total				138	
	Final certification				2	
	Total				140	

The matrix of achievement of LO by various teaching methods

LO	Teaching and learning methods	
LO1. It can evaluate and differentiate pathological processes and diseases with the help of scientific morphological research of changes occurring in cells and tissues of the body, organs and organ systems	Analysis of theoretical material, case study. An oral survey. A short answer.	Analysis of clinical situations. Feedback from the resident



<p>LO2. It is able to identify pathological symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health-related Problems using clinical and morphological data</p>	<p>Analysis of theoretical material, case study. An oral survey. A short answer.</p>	<p>Analysis of clinical situations. Feedback from the resident</p>
<p>LO3. It is able to identify pathological symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health-related Problems using clinical and morphological data</p>	<p>Conducting an autopsy. Writing an autopsy report, a pathoanatomical diagnosis, and an epicrisis. Comparison of diagnoses</p>	<p>Discussion of the autopsy results. Feedback from the resident</p>
<p>LO4. He is able to carry out lifetime morphological diagnostics in institutions and departments of the pathoanatomic profile</p>	<p>Performing excision of surgical and biopsy material. Microscopy of micropreparations and cytological smears</p>	<p>Discussion of conclusions on the performed histological and cytological studies. Feedback from the resident</p>
<p>LO5. It can carry out pathoanatomical studies of corpses of fetuses and children of various age groups</p>	<p>Conducting an autopsy. Writing an autopsy report, a pathoanatomical diagnosis, and an epicrisis. Comparison of diagnoses</p>	<p>Discussion of the autopsy results. Feedback from the resident</p>
<p>LO6. He is able to effectively apply pathoanatomic diagnostic methods, evaluate and differentiate their results</p>	<p>Autopsy, histological and cytological studies, interpretation, differential diagnosis of the results of the study</p>	<p>Discussion of the results obtained. Feedback from the resident</p>
<p>LO7. Can apply forensic histological examination skills and evaluate their results</p>	<p>Conducting forensic histological studies, interpretation, differential diagnosis of the results of the study</p>	<p>Discussion of the results obtained. Feedback from the resident</p>
<p>LO8. He is able to independently apply cytological diagnostic methods and evaluate their results</p>	<p>Cytological studies, interpretation, differential diagnosis of the results of the study</p>	<p>Discussion of the results obtained. Feedback from the resident</p>
<p>LO9. He is able to analyze and summarize data on completed studies, compile a report on the work of the pathoanatomical unit in order to improve the quality of pathoanatomical studies</p>	<p>Project execution.</p>	<p>Feedback from the resident</p>
<p>LO10. Can conduct research in</p>	<p>Performing scientific research.</p>	<p>Discussion of the results of the</p>



the field of pathology, analyze professional literature, effectively use international databases in their daily activities, participate in the work of the research team	Literature analysis, work in international databases, analysis of professional literature	study. Feedback from the resident
LO11. He is able to study independently, actively participates in clinical and anatomical conferences, discussions, and other forms of formal and informal professional development	Participation in clinical and anatomical conferences	Discussion of the results. Feedback from the resident
LO12. Observe the rules of ethics and deontology in pathological anatomy when interacting with relatives of the deceased, work colleagues and health authorities	Training in ethical behavior when interacting with relatives of the deceased, work colleagues and health authorities	Feedback from the resident

The matrix of compliance with LO assessment methods

LO	Методы оценивания	
LO1. It can evaluate and differentiate pathological processes and diseases with the help of scientific morphological research of changes occurring in cells and tissues of the body, organs and organ systems	Interview. An oral survey. The short answer	Case-study. Analysis of the situation. The checklist
LO2. It is able to identify pathological symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health-related Problems using clinical and morphological data	Interview. An oral survey. The short answer	Case-study. Analysis of the situation. The checklist
LO3. It can carry out post-mortem diagnostics in institutions and departments of the pathoanatomic profile	Conducting an autopsy. Writing an autopsy report, a pathoanatomical diagnosis, and an epicrisis. Comparison of diagnoses	Analysis of the performed autopsy. OSCE The checklists
LO4. He is able to carry out lifetime morphological diagnostics in institutions and departments of the pathoanatomic profile	Performing excision of surgical and biopsy material. Microscopy of micropreparations. Maintaining medical records.	Analysis of descriptions and conclusions on performed histological examinations. OSCE The checklists
LO5. It can carry out pathoanatomical studies of corpses of fetuses and children of various age groups	Conducting an autopsy. Writing an autopsy report, a pathoanatomical diagnosis, and an epicrisis. Comparison of diagnoses	Analysis of the performed autopsy. The checklist
LO6. He is able to effectively apply pathoanatomic diagnostic methods, evaluate and differentiate their results	Autopsy, histological examination, interpretation, differential diagnosis of the results of the study	Analysis and discussion of the autopsy protocol, descriptions and conclusions on the performed




		histological examinations. Checklists
LO7. Can apply forensic histological examination skills and evaluate their results	Conducting forensic histological studies, interpretation, differential diagnosis of the results of the study	Analysis and discussion of the conclusions of forensic histological studies. Checklists
LO8. He is able to independently apply cytological diagnostic methods and evaluate their results	Cytological studies, interpretation, differential diagnosis of the results of the study	Analysis and discussion of cytological studies. OSCE The checklists
LO9. He is able to analyze and summarize data on completed studies, compile a report on the work of the pathoanatomical unit in order to improve the quality of pathoanatomical studies	Preparation of a self-report on completed studies, a report on the work of the pathology department.	Discussion of the results obtained.
LO10. Can conduct research in the field of pathology, analyze professional literature, effectively use international databases in their daily activities, participate in the work of the research team	Project protection. Presentation of research results. Writing a scientific article	Discussion of the results obtained. Publication of a scientific article

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Residents' workplan for the 7R01150 «Pathological Anatomy» educational program for the 2024–2028 academic year.

Cycle disciplines	Discipline code/	Name of the discipline/ modules/	Amount of credits	General hours/	Academy	RIC		1 year of study	2 year of study	The form control/	FE
						CPPH	RTIC				
PD/		CYCLE OF PROFILING DISCIPLINES	138	4140							
		Mandatory component	134	4020							
	R-GPP	General and private pathology	30	900	180	630	90	30		Exam	
PD	R-FHP	Forensic histological pathomorphology	17	510	102	357	51		17	Exam	
	R-CPSC	Clinical pathomorphology in surgery with cytopathology	16	480	96	336	48	16		Exam	
	R-CPT	Clinical pathomorphology in therapy	14	420	84	294	42	14		Exam	

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R-CPOGC	Clinical pathomorphology in obstetrics-gynecology with cytopathology	14	420	84	294	42	14	Exam
R-CPP	Clinical pathomorphology in pediatrics	13	390	78	273	39	13	Exam
R-CPOC	Clinical pathomorphology in oncology with cytopathology	20	600	120	420	60	20	Exam
R-CPD	Clinical pathomorphology in dentistry	10	300	60	210	30	10	Exam
Optional component		4	120	24	84	12	4	
R-PEC	Pathology of emergency conditions /							
R-IaP	Iatrogenic pathology /							
R-PAEMD	Pathological anatomy and examination of maternal death	4	120	24	84	12	4	Exam
R-PAPDI	Pathological anatomy of particularly dangerous infections							