

JSC "SOUTH KAZAKHSTAN MEDICAL ACADEMY"



**SOUTH KAZAKHSTAN
MEDICAL
ACADEMY**

**EDUCATIONAL RESIDENCY PROGRAM
7R01134**

«FORENSIC - MEDICAL EXAMINATION»

Шымкент, 2024


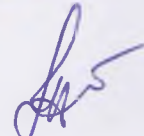






Department of Pathological Anatomy and Histology

044 – 63 /

2 стр. из 16

The educational program of the residency "Forensic medical examination"

JOB TITLE	FULL NAME.	Signature
Developed		
Teaching staff of the Department of Pathology and Forensic Medicine		
Head of the Department, Professor, MD.	Sadykova A.S.	
Acting Director Institute of Forensic Examinations in Shymkent RSE "Center for Forensic Examinations of the Ministry of Justice of the Republic of Kazakhstan", forensic medical expert of the highest category, Master's degree	Ariphanov U.R.	
Minutes of the meeting of the department № 7 «26» «01» 2024 г.		
Discussed at the meeting of the EPC residency The Chairman of the EPC Protocol № 5 «26» « 01 » 2024.	Kauyzbai J.A.	
Approved by the Clinical Council Chairman of the Clinical Council Protocol № 8 от «29» « 01 » 2024.	Kauyzbai J.A.	
Approved by the First Vice-Rector of JSC SKMA, The first vice-rector of JSC SKMA 30.01.2024	Yesirkepov M.M.	
Approved by the Academic Council Protocol № 14 «31» « 01 » 2024.		

ONTUSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979- 	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Pathological Anatomy and Histology	044 – 63 /	
The educational program of the residency "Forensic medical examination"	3 стр. из 16	

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 forensic medical experts.

2. The purpose of the educational program is to prepare a competitive specialist – a forensic medical expert with a system of universal and professional competencies, capable and ready for independent specialized highly qualified professional activity to meet the needs of the law enforcement system

3. Justification of the educational program:

-for residents: obtaining recommendations on the organization of a procedural action consisting of conducting research and giving an opinion on issues that are put before the expert by the structures of the law enforcement system in order to establish the circumstances to be proved in a specific case within the framework of the Criminal Procedure Code and the organizational field of the healthcare system of the Republic of Kazakhstan.

-the need in the labor market: the provision of personnel with qualities such as high skill and professional perseverance, the necessary practical and theoretical knowledge, competence, observation and insight, developed clinical thinking and passion.

4. The professional standard on the basis of which the educational program has been developed:
Regulatory documents for the development of an educational educational program

- Order of the Minister of Science and Higher Education of the Republic of Kazakhstan "On approval of State mandatory standards of higher and postgraduate education" dated 07/20/2022 No. 2 with amendments and additions dated February 20, 2023 No. 66;

- Order of the Minister of Health of the Republic of Kazakhstan "On approval of state mandatory standards for levels of education in the field of healthcare" dated 07/04/2022 No. KDSM-63;

- 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;

- The 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 27.07.2007 No. 319- III, with amendments and additions dated 04.07.2022.

- 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 technology of education" (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)

- "On approval of Standard Rules for the activities of educational organizations of appropriate types and types", Order of the Minister of Education and Science of the Republic of Kazakhstan dated 10/30/2018 No. 595 with amendments and additions dated 12/29/2021.

ONTUSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979-	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Pathological Anatomy and Histology		044 – 63 / 4 стр. из 16
The educational program of the residency "Forensic medical examination"		

- "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: Health care, Ministry of Justice, judicial examination bodies.

6. Objects of professional activity: corpses, living persons, physical evidence of biological origin, materials of criminal and civil cases. Types of professional activity:

- procedural;
- expert;
- forensic;
- scientific research;

General information

№	Characteristics of the EP	Data
1	Registration number	7R01100362
2	The code and classification of the field of education	7R01 Healthcare (medicine)
3	The code and classification of training areas	7R011 Healthcare
4	Group of educational programs	R034 «Forensic medical examination»
5	Code, name of the educational program	7R01134 «Forensic medical examination»
6	View EP	New EP
7	Software level ISCE	7
8	Software level NQF	7
9	Software level SQF	7
10	Distinctive features EP	Continuous integrated educational program
	Partner University (SEP)	-
	Partner University (DDEP)	-
11	Competencies key	CK 1 Inspection of the place of discovery of a corpse (incident): to state the fact of death; to inspect and describe the corpse at the place of its discovery; to assist the investigator in the seizure and preservation of physical evidence of biological origin
		CK 2 Forensic medical examination of a corpse: examine the corpse of an adult, newborns and children, a fetus; formulate a forensic diagnosis and conclusions, issue a conclusion
		CK 3 Forensic medical examination of biological objects: to carry out the necessary samples and to take tissues and organs and other objects of biological origin for laboratory research;



		<p>CK 4 Medical-forensic and photographic research methods in forensic medicine: design illustrations and diagrams, photograph a corpse, micro- and macro-preparations; interpret the results of additional research methods; formulate a forensic diagnosis and conclusions, issue a conclusion</p> <p>CK 5 Forensic medical examination of living persons: to conduct an examination of victims, accused and other persons; to refer to a specialized specialist for examination and treatment, if necessary; to investigate and describe bodily injuries; to investigate sexual conditions, sexual crimes and other sexual acts; to identify, remove, pack and send biological objects for laboratory studies; to establish the severity of the harm caused to health, the percentage of loss of general ability to work</p> <p>CK 6 Forensic medical examination of physical evidence: to examine the objects of medical and forensic examination; to examine the objects of forensic biological examination; to examine the objects of forensic histological examination; to interpret the results of forensic chemical examination</p> <p>CK 7 Regulatory and legal knowledge: The ability to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan</p> <p>CK 8 Forensic medical examination in cases of professional offenses of medical workers: to analyze medical and legal documentation as a source of evidence in criminal and civil proceedings; to assess the causal relationships of therapeutic and diagnostic measures and their outcomes in the provision of medical care; to assess the severity of harm to health when identifying defects in the provision of medical care</p>
12	Learning outcomes	<p>LO 1. Organizes a procedural action consisting of conducting research and giving an opinion on issues that are put before the expert by the structures of the law enforcement system in order to establish the circumstances to be proved in a particular case</p> <p>LO 2. It operates within the framework of the Criminal Procedure Code and the organizational field of the healthcare system of the Republic of Kazakhstan</p> <p>LO 3. Analyzes and evaluates the data of an external examination of a corpse at the scene of discovery or incident, establishes, justifies the fact and prescription of biological death</p> <p>LO 4. Performs a forensic medical examination of a corpse in various types of death, dismembered and skeletonized corpses, during repeated examination of the</p>




		corpse and exhumation, corpses of fetuses and newborn children LO 5. Conducts an examination of living persons to determine the severity of the harm caused to health, the percentage of loss of general working capacity, an examination of sexual crimes, an examination of medical documentation LO 6. Selects the most effective methods of sectional, laboratory, medical-forensic, photographic, genetic studies in the examination of corpses and living persons LO 7. Evaluates the results of clinical and laboratory examination of the examined, the results of forensic biological, forensic histological, forensic chemical and medical forensic studies LO 8. Effectively communicates with the examined, relatives of the deceased, judicial and investigative authorities and health authorities LO 9. Analyzes and summarizes data on completed studies, compiles a report on the work of the forensic medical unit in order to improve the quality of forensic medical LO 10. Formulates adequate research questions in the field of forensic medical examination, critically evaluate professional literature, and effectively use international databases in their daily activities
13	The form of education	Full-time
14	The language of instruction	Kazakh, Russian
15	Volume of loans	140
16	Academic degree awarded, qualification	The doctor is a forensic medical expert
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	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	LO 9	LO 10
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ОНТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979- MEDICAL ACADEMY АО «Южно-Казakhstanская медицинская академия»	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казakhstanская медицинская академия»
Department of Pathological Anatomy and Histology		044 – 63 / 7 стр. из 16
The educational program of the residency "Forensic medical examination"		

CK										
CK 1	+	+	+	+	+				+	
CK 2	+		+	+	+	+	+		+	+
CK 3	+			+	+	+		+	+	
CK 4	+	+		+	+	+	+			+
CK 5			+	+	+	+	+	+		+
CK 6			+	+	+	+	+	+	+	+
CK 7			+	+	+	+	+	+	+	+
CK 8			+	+	+	+	+	+	+	+

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	Procedural and organizational issues of forensic medical examination	Organization and structure of the forensic medical service in the Republic of Kazakhstan. Regulatory legal documents regulating the activities of forensic medical institutions and forensic medical experts. The rights and duties of a forensic medical expert	CD	RC	3	LO 1 LO 2 LO 9
	Forensic medical examination of the corpse	The subject, system and method of forensic medicine. The history, procedural and organizational bases of the examination. Forensic traumatology, thanatology, identity identification. Objects of forensic medical examination. Living faces, corpses, physical evidence. Examination of the case materials. The procedure for conducting a forensic medical examination of	CD	RC	12	LO 3 LO 4 LO 9 LO 10



		corpses with various signs of violent and nonviolent death. Filling out a medical death certificate, coding the causes of death				
	Damage and death from various types of external influences	Conducting a forensic medical examination of corpses with transport trauma, injuries from falling from a height, sharp objects, gunshot wounds, strangulation, obturation, compression asphyxia, asphyxia in a confined space, drowning, with damage from high and low temperatures. Conducting a forensic medical examination of corpses with damage from the action of electricity, changes in barometric pressure; radiation, chemical trauma, poisoning with caustic, destructive, blood, functional, fungal poisons; corpses of unknown persons, dismembered, rottenly altered corpses	CD	RC	48	LO 3 LO 4 LO 6 LO 8
	Forensic medical examination of living persons	Definition of harm, sexual crimes and others according to the description, definition of the mechanism, prescription of damage. Determination of the severity of the harm caused to health: severe, moderate and light. Conducting an examination of medical documents in case of sexual crimes. Features of the forensic medical examination of minors in rape, molestation and indecent acts	CD	RC	26	LO 5 LO 6 LO 7 LO 8




<p>Medical-forensic and photographic research methods in forensic medicine</p>	<p>Research of objects in order to solve diagnostic, identification, classification and situational expert tasks. Objects of forensic medical examinations: organs and tissues of the corpse, victims, instruments of injury, clothing and shoes, as well as materials of investigative and judicial cases. Photographic methods, age determination using X-ray and anthropometric studies</p>	<p>CD</p>	<p>RC</p>	<p>14</p>	<p>LO 6 LO 7</p>
<p>Forensic medical examination of biological objects</p>	<p>Examination at the scene of the incident for the detection and seizure of physical evidence of biological origin using modern evidence-based methods for identifying the nature of trace substances, their species, individual affiliation, used during forensic biological examinations of blood, semen and hair stains. Determination of the species, group, and gender of blood. Examination of blood in case of disputed paternity, establishment of motherhood and belonging of children</p>	<p>CD</p>	<p>RC</p>	<p>14</p>	<p>LO 3 LO 6 LO 7</p>
<p>Forensic medical examination of histological objects</p>	<p>Conducting forensic histological studies. Expert assessment of the nature of lifetime, prescription, type of damaging factor, nature, prescription of the pathological process, cause of death, corpses of newborns, organ tissue belonging of physical</p>	<p>CD</p>	<p>RC</p>	<p>14</p>	<p>LO 6 LO 7</p>



		evidence. Microscopic examination of pieces of internal organs of a corpse; 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				
	Forensic medical examination in cases of professional offenses of medical workers	Conducting a forensic medical examination of professional and professional misconduct of medical workers as part of the investigation or consideration of criminal and civil cases to hold medical personnel accountable for improper provision and adverse outcomes of various types of medical care. Examination of corpses with suspected medical offenses ("medical error"), negligence, etc.	CD	RC	3	LO 1 LO 2 LO 5 LO 8
	Total				134	
The cycle of core disciplines (CD) Component of choice (CC)						
1	Forensic medical examination of maternal death	The procedure for conducting a forensic medical examination in case of maternal death. Antenatal, intra- and postnatal fetal death. Autopsy of the fetus. Pathomorphological examination of the afterbirth. Execution of autopsy protocols, forensic medical report, medical death certificate, peculiarities of coding diseases and causes of death in maternal death.	CD	CC	4	LO 2 LO 4 LO 5 LO 8



		Morphological diagnosis and interpretation of data				
2	Pathology of emergency conditions	Pathology of emergency conditions in diseases of internal organs, diseases of other organs and systems, the use of weapons of mass destruction, acute poisoning and intoxication, as a result of drug deficiency. Interpretation of the results of autopsy and pathomorphological studies. Registration of the autopsy report. Filling out a medical death certificate	CD	CC	4	LO 4 LO 6 LO 7 LO 8
3	Genetic expertise forensic medicine	Identification of a person by his DNA in blood, saliva, hair, semen. Research to establish paternity, motherhood, close and first cousins, origin from one ancestor, examination of twins, etc. Research methods, preparation of an expert opinion containing a description of the research methodology, the course of the study itself and conclusions. Identification of human remains, corpses, biological traces	CD	CC	4	LO 1 LO 4 LO 6
4	Iatrogenic pathology	Pathology of psychogenic, hospital iatrogenies, iatrogenies of diagnostic procedures, implantation and transplantation iatrogenies, medicinal iatrogenies. Medical error. Procedure for conducting a forensic medical examination, drawing up a protocol, expert opinion, medical death certificate,	CD	CC	4	LO 5 LO 6 LO 7 LO 8 LO 10

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979- MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Pathological Anatomy and Histology		044 – 63 / 12 стр. из 16
The educational program of the residency "Forensic medical examination"		

		morphological diagnosis and interpretation of data			
	Total				138
	Final certification				2
	Total				140

The matrix of achievement of LO by various teaching methods

LO	Teaching and learning methods	
LO1. Organizes a procedural action consisting of conducting research and giving an opinion on issues that are put before the expert by the structures of the law enforcement system in order to establish the circumstances to be proved in a particular case	Discussion of the material. Case-study Oral interview. The short answer	An interview based on the conducted CME. Error detection. Feedback from the resident
LO2. It operates within the framework of the Criminal Procedure Code and the organizational field of the healthcare system of the Republic of Kazakhstan	Study of the Criminal Procedure Code and the organizational field of the healthcare system of the Republic of Kazakhstan	Feedback from the resident
LO3. Analyzes and evaluates the data of an external examination of a corpse at the scene of discovery or incident, establishes, justifies the fact and prescription of biological death	Analysis of the material. Case-study Oral interview. The short answer	An interview based on the conducted CME. Error detection. Feedback from the resident
LO4. Performs a forensic medical examination of a corpse in various types of death, dismembered and skeletonized corpses, during repeated examination of the corpse and exhumation, corpses of fetuses and newborn children	Analysis of the material. Case-study Oral interview. The short answer	An interview based on the conducted CME. Error detection. Feedback from the resident
LO5. Conducts an examination of living persons to determine the severity of the harm caused to health, the percentage of loss of general working capacity, an examination of sexual crimes, an examination of medical documentation	An interview on the conducted examinations of living persons. Case-study Oral interview. The short answer	Discussion of the protocol of examination of living persons, identification and elaboration of errors. Feedback from the resident



LO6. Selects the most effective methods of sectional, laboratory, medical-forensic, photographic, genetic studies in the examination of corpses and living persons	Interview, examination protocol check	Discussion of the examination protocol, identification and elaboration of errors. Feedback from the resident
LO7. Evaluates the results of clinical and laboratory examination of the examined, the results of forensic biological, forensic histological, forensic chemical and medical forensic studies	Interview, examination of samples of biological material, interpretation of data	Discussion of the study of samples of biological material, interpretation of data. Identification and elaboration of errors. Feedback from the resident
LO8. Effectively communicates with the examined, relatives of the deceased, judicial and investigative authorities and health authorities	Interview, learning the rules of communication	Feedback from the resident
LO9. Analyzes and summarizes data on completed studies, compiles a report on the work of the forensic medical unit in order to improve the quality of forensic medical research	Project execution.	Discussion of the results Feedback from the resident
LO10. Formulates adequate research questions in the field of forensic medical examination, critically evaluate professional literature, and effectively use international databases in their daily activities	Performing scientific research. Literature analysis, including work in international databases	Presentation of the completed research. The checklist. Writing and publishing a scientific article.

The matrix of compliance with LO assessment methods

LO	Assessment methods	
LO1. Organizes a procedural action consisting of conducting research and giving an opinion on issues that are put before the expert by the structures of the law enforcement system in order to establish the circumstances to be proved in a particular case	Interview. An oral survey. The short answer	Case-study. Analysis of the situation. OSCE The checklists
LO2. It operates within the framework of the Criminal Procedure Code and the	Interview. An oral survey. The short answer	Case-study. Analysis of the situation. OSCE



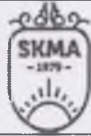
organizational field of the healthcare system of the Republic of Kazakhstan		The checklists
LO3. Analyzes and evaluates the data of an external examination of a corpse at the scene of discovery or incident, establishes, justifies the fact and prescription of biological death	Analysis of data from an external examination of a corpse at the scene of discovery or incident	Case-study. Analysis of the situation. The checklist
LO4. Performs a forensic medical examination of a corpse in various types of death, dismembered and skeletonized corpses, during repeated examination of the corpse and exhumation, corpses of fetuses and newborn children	Analysis of the forensic medical examination of a corpse in various types of death, dismembered and skeletonized corpses, during repeated examination of the corpse and exhumation, corpses of fetuses and newborn children	Case-study. Analysis of the situation. OSCE The checklists
LO5. Conducts an examination of living persons to determine the severity of the harm caused to health, the percentage of loss of general working capacity, an examination of sexual crimes, an examination of medical documentation	Analysis of the examination of living persons	Case-study. Analysis of the situation. OSCE The checklists
LO6. Selects the most effective methods of sectional, laboratory, medical-forensic, photographic, genetic studies in the examination of corpses and living persons	Interview, examination protocol check	Case-study. Analysis of the situation. The checklist
LO7. Evaluates the results of clinical and laboratory examination of the examined, the results of forensic biological, forensic histological, forensic chemical and medical forensic studies	Interview, examination of samples of biological material, interpretation of data	Case-study. Analysis of the situation. The checklist
LO8. Effectively communicates with the examined, relatives of the deceased, judicial and investigative authorities and health authorities	Teaching ethical behavior and communication rules	Self-assessment
LO9. Analyzes and summarizes data on completed studies, compiles a report on the work of the forensic medical unit in order	Project protection.	Discussion of the results obtained. The checklist

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MEDISINA

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SOUTH KAZAKHSTAN

MEDICAL

ACADEMY

АО «Южно-Казakhstanская медицинская академия»


Department of Pathological Anatomy and Histology

044 – 63 /

15 стр. из 16

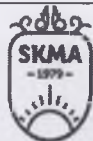
The educational program of the residency "Forensic medical examination"

to improve the quality of forensic medical research		
LO10. Formulates adequate research questions in the field of forensic medical examination, critically evaluate professional literature, and effectively use international databases in their daily activities	Presentation of the results of research work in the field of forensic medicine	Discussion of the results obtained. Writing a scientific article. The checklist

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ		SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Pathology and Forensic Medicine		044 – 63 / 16 стр. из 16
The educational program of the residency "Forensic medical examination"		

Residents' workplan for the 7R01134 «Forensic medical examination» educational program for the 2024–2028 academic year.

Cycle disciplines/	Discipline code/	Name of the discipline/ modules/	Amount of credits	General hours	classroom	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-POIFME	Procedural and organizational issues of forensic medical examination	3	90	18	63	9		3	Exam	
	R-FMEC	Forensic medical examination of the corpse	12	360	72	252	36	12		Exam	
	R-DDVTEI	Damage and death from various types of external influences	48	1140	288	1008	144		48	Exam	
	R-FMELP	Forensic medical examination of living persons	26	780	156	546	78	26		Exam	
	R-MFPRMFM	Medical-forensic and photographic research methods in forensic medicine	14	420	84	294	42	14		Exam	
	R-FMEBO	Forensic medical examination of biological objects	14	420	84	294	42	14		Exam	
	R-FMEHO	Forensic medical examination of histological objects	14	420	84	294	42		14	Exam	
	R-FMECPOMW	Forensic medical examination in cases of professional offenses of medical workers	3	90	18	63	9		3	Exam	
OC	Optional component		4	120	24	84	12				



Department of Pathology and Forensic Medicine

044 – 63 /
17 стр. из 16

The educational program of the residency "Forensic medical examination"

	R-PEC	Pathology of emergency conditions /										
	R-IaP	Iatrogenic pathology /										
	R-FMEMD	Forensic medical examination of maternal death/	4	120	24	84	12	4			Емтихан/ Экзамен/ Exam	
	R-GEFM	Genetic expertise in forensic medicine										
	TOTAL		138	4140	828	2898	414*					
IC	INTERMEDIATE CERTIFICATION *											
FE	FINAL EXAMINATION		2	60					2			60
	TOTAL		140	4200	828	2898	414	70	70			60