


JSC «SOUTH KAZAKHSTAN MEDICAL ACADEMY»



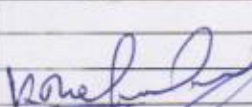
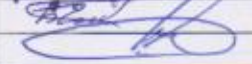



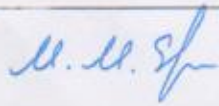
SOUTH KAZAKHSTAN
MEDICAL
ACADEMY


EDUCATIONAL PROGRAM OF RESIDENCY

7R01126 UROLOGY AND ANDROLOGY FOR ADULTS, CHILDREN

ОҢТҮСТІК-ҚАЗАҚСТАН MEDISINA АКАДЕМИАСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Surgery department	044-44 / 11 P ()
Educational program 7R01126 Urology and andrology (adult, pediatric)	2 p. of 16

Educational programme of residency Urology and andrology (adult, children's) was developed on the basis of the order of the Minister of Health of the Republic of Kazakhstan dated January 25, 2024 No. 46 «On approval of professional standards in the field of healthcare».

Job title	Full name	Signature
Developed by		
PPS Departments of Surgery		
head of the department c.m.s., act. of professor	Zhumagulov K.N.	
c.m.s., act. Professor of department	Baymedetov R.E.	
assistant	Abilov D.O.	
Representative of practical healthcare		
Head of the Department of Urology of the OKB UOZ TO Ph.D.	Baimenov C.B.	
Resident EP urology and andrology for adults, children	Yerdaly A.M.	
Protocol of meetings of the department № <u>615</u> from « <u>21</u> » « <u>January</u> » 20 <u>24</u> y.		
Discussed at a meeting of the KOP residency		
Chair of the CEP on "Surgical Profiles" PhD, Ass. Professor	Kulbaeva S.N.	
Protocol No. <u>5</u> from « <u>16</u> » « <u>January</u> » 20 <u>24</u>		
First Vice-Rector of SKMA Ph.D., professor Protocol № <u> </u> от « <u>30</u> » « <u>01</u> » 2024 y.	Yesirkepov M.M.	
Approved by the Academic Council		
Protocol № <u>14</u> from « <u>31</u> » « <u>January</u> » 20 <u>24</u> y.		

<div>ONTÜSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ</div>		<div></div>	<div>SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»</div>
Surgery department			044-44 / 11 P ()
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Educational program passport

1. The mission of the educational program: To be recognized as a leader in the training of highly specialized, competitive urologists and andrologists.

Duration of study: 3 years

Qualification awarded upon completion of study – doctor-urologist and andrologists adults, children.

2. The purpose of the educational program: Training of a qualified urologist-andrologist with a system of universal, professional competencies, capable and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech medical care.

3. Rationale for the educational program: Achieving a high quality of postgraduate medical education by presenting mandatory requirements for the level of training of students in residency in surgery; Regulation of the educational process and the creation of a system for monitoring the effectiveness of the work of educational and scientific organizations that train residents in surgery; Streamlining the rights and responsibilities of students in residency, stimulating independent educational and practical activities of residents in surgery; ensuring the integration of practice and theory; to consolidate the skills of basic medical diagnostic and preventive interventions; improvement of practical skills according to modern principles of early, differential diagnosis, interpretation of the results of the examination from the standpoint of evidence-based medicine, treatment and prevention of surgical diseases using surgical methods; to teach to comply with the requirements of medical ethics and deontology when conducting expert, preventive and therapeutic and diagnostic measures.

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

1. Order of the Minister of Science and Higher Education of the Republic of Kazakhstan "On Approval of State Generally Binding Standards for Higher and Postgraduate Education" dated 20.07.2022, № 2, as amended and supplemented by February 20, 2023 No. 66;

2. Order of the Minister of Health of the Republic of Kazakhstan "On the Approval of State Generally Binding Standards for Education in the Field of Health" dated 04.07.2022, No. QR DSM-63;

3. Order of the Minister of Health of the Republic of Kazakhstan "On approval of standard training programs in medical and pharmaceutical specialties" of 09.01.2023 No. 4;

4. Order of the Vice-Minister of Health of the Republic of Kazakhstan "On approval of the phased introduction of continuous integrated medical education" dated 08.08.2022 No. 661;


5. Code of the Republic of Kazakhstan of 07.07.2020 № 360- VI "On the health of the people and the health care system" (with amendments as of 04.07.2022);

6. Law of the Republic of Kazakhstan "On Education" of 27.07.2007 No. 319-III, as amended and supplemented by 04.07.2022.

7. Order of the Minister of Education and Science of the Republic of Kazakhstan dated 16.10.2013 No. 420 "On Approval of the Model Rules for the Activities of Organizations of Higher and (or) Postgraduate Education" with amendments and additions dated 29.12.2021;

8. Order of the Minister of Education and Science of the Republic of Kazakhstan dated 20.04.2011 No. 152 "On Approval of the Rules for Organizing the Educational Process on Credit Training Technology" (as amended and supplemented as of 06.05.2021)

9. Order of the Minister of Health of the Republic of Kazakhstan of 30.01.2008 No. 27 "On Approval of the List of Programs of Continuous Integrated Education in Clinical Specialties" (as amended and supplemented as of 14.05.2021;

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10. "On Approval of the Model Rules for the Activities of Educational Organizations of Relevant Types and Types," Order of the Minister of Education and Science of the Republic of Kazakhstan of 30.10.2018 № 595 with amendments and additions dated 29.12.2021

11. Professional standard: Standard of organization of urological and andrological assistance in the Republic of Kazakhstan. Order of the Minister of Health of the Republic of Kazakhstan dated May 18, 2023 No. 83.

12. "Guidelines for the Development of Educational Programs of Higher and Postgraduate Education" Order of the Director of CBP AM No. 45

Ministry of Education and Science of the Republic of Kazakhstan dated June 30, 2021


13. "Regulation on Procedure and Procedures for Development of Educational Programs" "SKMA" dated 29.05.2019.

14. Internal regulatory documents of SKMA.

5. Area of professional activity: development of the educational program 7R01126 Urology and andrology (adult, pediatric) includes the provision of urological care to the population at the prehospital and hospital levels.

6. Objects of professional activity:

1. organization of health management;
2. organization of education;

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4 General information

№	Characteristics of EP	Data
1	Registration number	7R01100275
2	Code and classification of the field of education	7R01 Healthcare (Medicine)
3	Code and classification of training areas	7R011 Healthcare
4	Group of educational programs	R026 Urology and andrology (adult, children)"
5	Name of the educational program	7R01126 Urology and andrology (adult, children)"
6	Type EP	Updated EP
7	Level on ISCE	7
8	Level on SWC	7
9	Level on EBC	7
10	Distinctive features PE	No
	Partner HEI (JEP)	No
	Partner HEI (Double degreeEP)	No
11	List of competencies	<p>CC1 Medical knowledge: Synthesis of professional and scientific medical knowledge to provide qualified medical assistance</p> <p>CC 2 Communications: Effectively interact with the patient, his environment, healthcare professionals in order to achieve the best results for the patient</p> <p>CC 3 Clinical skills: Delivering qualified medical care in a basic category of difficulty. Definition of the strategy for the provision of qualified health care to the population of the second category of complexity</p> <p>CC 4 Professionalism: Coordination of activities in healthcare organizations. Ability to make decisions and be held accountable for the outcome of qualified medical care</p> <p>CC 5 Personal and professional development: Ability to study independently and train other members of the professional team, actively participate in discussions, conferences and other forms of continuous professional development</p> <p>CC 6 Regulatory and legal knowledge: Ability to act within the legal and organizational framework of the health care system of the Republic of Kazakhstan.</p> <p>CC 7 Research: Ability to research and evaluate the results of their professional activities, the application of the principles of diagnosis of diseases based on scientific evidence.</p>
12	Learning outcomes	<p>LO1 Able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of urological and andrological care for adults and children.</p> <p>LO2. Able to effectively interact with the patient, his</p>



		<p>environment, healthcare professionals in order to achieve the best results for the patient</p> <p>LO3. Able to assess risks and use the most effective methods to ensure a high level of safety and quality of urological and andrological care.</p> <p>LO4. Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in the provision of urological and andrological care, provide basic assistance in emergency situations, work as part of interprofessional teams to implement the policy of strengthening the health of the nation</p> <p>LO5. Able to formulate adequate research questions, critically evaluate professional literature, effectively use international databases in the activities of a urologist-andrologist, participate in the work of the research team</p> <p>LO6. Able to study independently and teach other members of the professional teams, actively participate in discussions, conferences and other forms of continuous professional development.</p>
13	Form of study	Full – time
14	Language of instruction	Kazakh and Russian
15	Volume of credits	210
16	Period of training	3 year
17	Awarded qualification	Urologist and andrologist for adults and children
18	Availability of an application to the license for the direction of training	KZ22BFA00167288
19	Availability of EP accreditation	Yes
	Name of the accreditation body	NM «Independent Accreditation and Rating Agency»
	Validity period of accreditation	№ AB 4363 Residency 10.06.2022 -09.06.2027
20	Information about disciplines	Application 1.2

Application 1.1

Matrix of correlation of educational program results with competencies to be formed

	LO1	LO2	LO3	LO4	LO5	LO6
CC1	+		+		+	
CC2		+		+		+
CC3	+		+	+		
CC4	+	+	+	+		
CC5		+			+	+
CC6			+	+		+
CC7	+		+		+	+

Application 1.2

Competency/Learning Outcomes Achievability Matrix

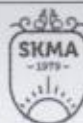
№	Name of the discipline	Brief description of the discipline	Cycle (PD)	Component (UC)	Number of credits	Generated learning outcomes (codes)
1	Urology	Regulatory legal acts applied in the organization and provision of urological and andrological care in the Republic of Kazakhstan. Epidemiology, etiology and pathogenesis of urological diseases. Modern principles of diagnosis and treatment of urological patients. Patient curation. Evidence-based medicine in urology. Provision of specialized medical care to the adult population in the profile of "urology" in stationary conditions. Anomalies of the genitourinary system. Borderline states in urology. Communication skills in the management of urological patients.	PD	UC	55	LO1 LO2 LO4
2	Andrology	Innovative and traditional technologies in the diagnosis of andrological diseases. Differential diagnosis, treatment, evaluation of effectiveness and risks. Diseases of the reproductive system. Male hypogonadism. Obesity and lipid metabolism disorders. Urinary tract infections in men: prostatitis, prostate abscess, vesiculitis, urethritis, balanitis, balanoposthitis. Infertility in men: obstructive and non-obstructive azoospermia. Questions of sexopathology.	PD	UC	20	LO1 LO3
3	Oncourology	Predisposition in oncology. Genetic research in the early diagnosis and prevention of cancer. Methods of diagnosis of oncourological diseases, including high-tech. Principles of treatment of patients with neoplasms of the genitourinary system in accordance with current clinical recommendations (treatment protocols). Communication with a	PD	UC	18	LO1 LO2



		patient with neoplasms and his environment, medical secrecy and a doctor's oath.				
4	Pediatric urology	Assessment of the anatomical and functional state of the kidneys, urinary tract and male genitalia in normal and in diseases in children. Formulation of the diagnosis, justification of the scope of examination and treatment tactics in children. Differential diagnosis of acute surgical and urological diseases. Provision of emergency medical care. Principles of medical ethics and deontology in working with children, their legal representatives and colleagues. Assessment of the safety and quality of the assistance provided.	PD	UC	35	LO1 LO2 LO3
5	Phthisiourology	Etiology, pathogenesis, clinical picture, methods of diagnosis, conservative and surgical treatment of patients with tuberculosis of the genitourinary system based on evidence-based medicine. Specific chemotherapy of phthisiourological patients. Principles and methods of pathogenetic therapy. A literary review of clinical studies in phthisiourology. Rules for conducting clinical trials. Joint activity of phthisiologists and urologists. Conducting medical examination patients with tuberculosis of the genitourinary system, analysis of its effectiveness. Rehabilitation of patients with phthisiourological profile, its principles.	PD	UC	5	LO3 LO5
6	Endourology	Principles of the organization of work in the laparoscopic operating room. Preparation of patients. Technical features of diagnostic laparoscopic examinations. Technical features of operative laparoscopy. Risk assessment of laparoscopic surgery and ensuring patient safety. Basic principles and types of endoscopic treatment of urological patients. Retrograde intrarenal surgery. Treatment of narrowing of the	PD	UC	32	LO3 LO6



		urethra. Formulation of conclusions on patient management and their justification during discussions with colleagues and students.				
7	Radiation diagnostics in urology	Organization of ultrasonic service and directive documents: orders, instructions, regulations, reports of ultrasound departments. Ultrasound methods - one-dimensional echography, doppler imaging, duplex sonography. Systemic ultrasound diagnosis of diseases in adults and children. Ultrasound of the genitourinary system. Features of ultrasound in children. Indications and contraindications to the use of ultrasound diagnostics in urology. Ethical aspects of the survey. Patient preparation. Interpretation of the data obtained and clinical diagnosis. Training and self-study in a professional team.	PD	MC	15	LO1 LO2 LO4
8	Outpatient urology	Principles of organization of outpatient urological care. Indications and contraindications to conservative treatment of urological diseases. Standards of primary specialized health care, including standards of specialized high-tech medical care. Modern principles of diagnosis and treatment of urological patients based on the principles of evidence-based medicine. Quality assurance at the stage of outpatient care. Features of conducting research at the level of outpatient care.	PD	MC	20	LO3 LO5
	Total				200	
1	Anesthesiology and intensive care	Diseases and (or) conditions of the kidneys, urinary tract and male genitalia that require urgent care. Intensive therapy for life-threatening syndromes: acute respiratory failure, acute cardiovascular insufficiency, convulsive and hyperthermic syndromes, shocks. Features of conducting a conversation with the patient's relatives in case of an unfavorable outcome. Preoperative stage and preparation of the patient	PD	OC		LO2 LO3 LO6



		for anesthesia. Methods of local anesthesia, taking into account the assessment of possible risks. Risk-based local anesthesia techniques.				
	Rehabilitation in urology	Indications and contraindications for the rehabilitation of patients with diseases of the genitourinary system. Development of a rehabilitation action plan. Collaboration with rehabilitation specialists. Referral of urological patients to specialist doctors for the implementation of rehabilitation measures, sanatorium treatment, including the implementation of an individual rehabilitation program or habilitation of disabled people. Conducting rehabilitation. Communication with patients. Assessment of the effectiveness and safety of rehabilitation. Training in rehabilitation skills and transfer of experience to resident doctors.	PD	OC	4	LO2 LO3 LO6
2	Examination of temporary disability	Conducting an examination of temporary disability. Review of professional literature and legal acts. Preparation of necessary medical documentation. Conducting medical examinations, including periodic and preliminary ones. Features of interaction with a patient with persistent disability. Indications for referral of patients for medical and social examination. Diagnosis of temporary disability and persistent disability. The procedure for issuing disability certificates.	PD	OC		LO1 LO2 LO5
	Organization of work in the Department of Urology	Rules of registration of medical documentation for the profile "urology". The organization of labor protection, the basics of personal security and conflictology. Rules of work in medical information systems. Job responsibilities of medical workers of the urological profile, taking into account the legal field. Control of the performance of official duties of the medical personnel at the disposal. Research and analysis of	PD	OC	4	LO1 LO2 LO5



		medical and statistical indicators of morbidity, disability to assess the health of the attached population.				
	Total:				8	
	Final certification				2	
	Total:				210	

The matrix of achievement of RO by various teaching methods

LO	Teaching and learning methods	
LO1 Able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of surgical care.	Analysis of the treatment plan, feedback from the resident	Simulation of situations. Maintaining medical records
LO2 Able to interact effectively with the patient, his environment, healthcare professionals in order to achieve the best results for the patient	A reflective diary	Maintaining medical records
LO3 is able to assess risks and use the most effective methods to ensure a high level of safety and quality of surgical care.	Supervision of clinical work	
LO4 Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in his specialty, provide basic assistance in emergency situations, work as part of interprofessional teams to implement the policy of promoting the health of the nation	Supervision of clinical work	Maintaining medical records
LO5 is able to formulate adequate research questions, critically evaluate professional literature, effectively use international bases in their daily activities, participate in the work of a research team.	Public speaking, Working with scientific literature,	Writing theses, articles
LO6 Able to learn independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.	Observation	

The matrix of compliance with RO assessment methods

LO	Assessment methods	
LO1 Able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of surgical care.	Testing, solving situational problems. Oral interview	Checklists: Preparation and solution of situational tasks.
LO2 Able to interact effectively with the patient, his environment, healthcare professionals in order to achieve the best results for the patient	implementation of practical skills, a mini-clinical exam.	Checklists: "Criteria for assessing practical skills." Keeping diaries
LO3 is able to assess risks and use the most effective methods to ensure a high level of safety and quality of surgical care.	PS-Examination of the patient. Analysis of the records of the doctor's activities	Checklists: Criteria for evaluating practical skills: professional skills.
LO4 Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in his specialty, provide basic assistance in emergency situations, work as part of interprofessional teams to implement the policy of promoting the health of the nation	Standardized patients	Patient reviews Reviews from other residents Checklists Estimate 360 ⁰
LO5 is able to formulate adequate research questions, critically evaluate professional literature, effectively use international bases in their daily activities, participate in the work of a research team.	Presentation, Publications	Checklists: Preparation of thematic presentations on the topic.
LO6 Able to learn independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.	Portfolio	Portfolio evaluation

Work plan for the entire period of study

Cycle disciplines/	Discipline code/	Name of the discipline/ modules/	Amount of credits	General hours/	classroom	RIC		1 year of study	2 year of study	3 year of study	The form control/	FE	
						CPPH	RTIC						
PD	CYCLE OF PROFILING DISCIPLINES		208	6240									
PD	MC	Міндетті компоненті/ Обязательный компонент/ Mandatory component	200	6000									
		R- Uro	Urology	55	1650	330	1072	248	55			Exam	
		R-OU	Outpatient urology	20	600	120	390	90		20		Exam	
		R-PU	Pediatric urology	35	1050	210	682	158			35	Exam	
		R-And	Andrology	20	600	120	390	90			20	Exam	
		R-RDU	Radiation diagnostics in urology	15	450	90	292	68	15			Exam	
		R- OnU	Oncourology	18	540	108	351	81		18		Exam	
		R-PhU	Phthisiourology	5	150	30	97	23			5	Exam	
		R-EnU	Endourology	32	960	192	624	144		32		Exam	
		Optional component		8	240	48	156	36			8		
OC/	R-AIC	Anesthesiology and intensive care/	4	120	24	78	18			4	Exam		
	R-RU	Rehabilitation in urology											



	R-ETD	Examination of temporary disability										
	R-OWDU	Organization of work in the Department of Urology	4	120	24	78	18			4	Exam	
Total			208	6240	1248	4056	936*					
IC	INTERMEDIATE CERTIFICATION											
FE	FINAL EXAMINATION		2	60						2		60
Total:			210	6300	1248	4056	936	70	70	70		60