




SOUTH KAZAKHSTAN  
**MEDICAL  
ACADEMY**

**EDUCATIONAL RESIDENCY PROGRAM**  
**7R01132**  
**«OBSTETRICS AND GYNECOLOGY (ADULTS, CHILDREN)»**

<div>ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ</div>		<div> SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»</div>
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The educational program of the residency 7R01132 "Obstetrics and Gynecology (adults, children)" was developed by the Department of Obstetrics and Gynecology.

Acting Head of the Department, Candidate of Medical Sciences P. Tleuzhan R.T.

Protocol № 10 of "18" "04" 2025

**Agreed with the employer:**

Chief physician of the GKP on PCV

"City maternity hospital" Kenzhebaeva M.U.

**It was discussed at the meeting of the Surgical Profile AC.**

Chairman of the AC, Candidate of Medical Sciences, Act. assoc. G.E. Kaldygozova

Protocol № 4 of "21" "04" 2025

**Approved by the Clinical Council.**


Chairman, Professor Nurmashev B.K.

Protocol № 8 of "25" "04" 2025

**Approved by the Academic Council.**

Protocol № 13 of "02" "05" 2025



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## Passport of the educational program

**1. The mission of the educational program:** Training of highly specialized and competitive obstetrician-gynecologists capable of self-improvement and conducting medical and scientific research.

**2. The purpose of the educational program:** Training of a qualified obstetrician-gynecologist who has a system of universal, professional competencies, is able and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech, medical care

### **3. Justification of the educational program:**

Obstetrics and gynecology are interrelated but independent fields of medicine dealing with the female reproductive system and pregnancy. Gynecology studies and treats diseases of the female genital area, including endocrine and inflammatory processes, while obstetrics focuses on pregnancy, childbirth and the postpartum period. Obstetrics (from the French word "accoucher", which means "to help with childbirth") and gynecology (from the Greek words "gyne" - woman and "logos" - science, literally "the study of women") are two separate but interrelated medical disciplines. The main task of obstetrics is to develop modern methods of obstetrics, prevention of maternal and fetal complications, as well as principles of treatment of pathology of pregnancy, childbirth and the postpartum period. The main task of gynecology is to preserve the health of the female reproductive system, including the diagnosis, treatment and prevention of various diseases. Obstetricians and gynecologists provide highly qualified specialized care in key areas of women's lives, which makes training in this area critically important to ensure quality medical care.


### **4. Regulatory documents for the development of an educational program**

- Order of the Minister of Health of the Republic of Kazakhstan dated 07.04.2022 №RK DSM-63 "On the approval of state mandatory standards for the levels of education in the field of healthcare";
- Professional standard «Obstetrics and Gynecology (adults, children)» (Order of the Minister of Health of the Republic of Kazakhstan dated January 25, 2024 №46 "On approval of professional standards in the field of healthcare".
- On amendments and additions to the Order of the Minister of Health of the Republic of Kazakhstan "On Approval of the list of medical specialties of residency programs" dated May 25, 2021 №RK DSM - 43 and "On Approval of standard training programs in medical and pharmaceutical specialties" dated January 9, 2023 №4. (Order of the Minister of Health of the Republic of Kazakhstan dated 10 November 2023, №164)

**.5. The field of professional activity:** Healthcare

**6. Objects of professional activity:** Medical organizations providing inpatient and outpatient care in the healthcare system of the Republic of Kazakhstan.




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### General information

№	Characteristics of the educational program	Data
1.	Registration number	7R090100099
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	7R032 Obstetrics and gynecology for adults, children
5.	Name of the educational program	7R01132 Obstetrics and gynecology (adults, children)
6.	Type EP	Updated EP
7.	EP purpose	Training of a qualified obstetrician-gynecologist who has a system of universal, professional competencies, is able and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech, medical care
8.	ISCED level	7
9.	NQL level	7
10.	GQL level	7
11.	Distinctive features of EP	Compiled on the basis of a professional standard
12.	List of competencies	<p><b>CK1 Patient supervision:</b> is able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of medical care.</p> <p><b>CK2 Communication and collaboration:</b> He is able to effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient.</p> <p><b>CK 3 Safety and quality:</b> He is able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care.</p> <p><b>CK4 Public health:</b> He is 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, and work as part of interprofessional teams to implement national health promotion policies.</p> <p><b>CK5 Researches:</b> He is able to formulate</p>

		<p>adequate research questions, critically evaluate professional literature, effectively use international databases in his daily activities, and participate in the work of a research team.</p> <p><b>CK6 Training and development:</b> He is able to study independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.</p>
13.	Learning outcomes	<p><b>LO1</b> Able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of care for patients with diseases of obstetric and gynecological care.</p> <p><b>LO2</b> Able to effectively interact with the patient, his environment, and specialists of the obstetric and gynecological service in order to achieve the best results for the patient.</p> <p><b>LO3</b> able to assess risks and use the most effective methods, manage medical records, medical and statistical information to ensure the quality of obstetric and gynecological care</p> <p><b>LO4</b> able to act within the legal and organizational framework of the health system of the Republic of Kazakhstan with a degree in «Obstetrics and gynecology (adult and children)», provide basic assistance in emergencies, work as part of interprofessional teams to implement the nation's health promotion policy</p> <p><b>LO5</b> able to formulate adequate research questions, critically evaluate professional literature, effectively use international databases in their daily activities, participate in the work of the research team.</p> <p><b>LO6</b> able to study independently and train other members of the professional team, to actively participate in discussions, conferences and other forms of continuous professional development in the field of neurology.</p>
14.	Form of study	Full time
15.	Language of study	Kazakh and Russian
16.	Volume of credits	210
17.	Awarded academic degree	Obstetrics and gynecology (adults, children)



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18.	Availability of application to license for training	KZ36LAA00011387
19.	Accreditation of the OP	Yes
	Name of accreditation body	Independent agency for accreditation and rating
	Duration of accreditation	Residency 10.06.2022-09.06.27yy.
20.	Information about the disciplines	Appendix 1.2

Appendix 1

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

	LO1	LO2	LO3	LO4	LO5	LO6
KC1	+		+	+	+	+
KC2	+	+		+	+	+
KC3	+	+	+		+	+
KC4	+	+	+	+		+
KC5	+	+	+	+	+	
KC6	+	+		+		+

Appendix 2

**The matrix of achievability of competencies/learning outcomes**

№	Name of the discipline	Short description	Cycle (GED, BD, PD)	Component (MC, OC)	Number of credits	Being formed LO (codes)
<b>CYCLE OF PROFILING DISCIPLINES</b>						
1	Hospital obstetrics	In the process of studying the discipline, the resident will master the organization of care for pregnant women, women in labor, maternity women and newborns in a hospital setting, draws up accounting and reporting documents, knows medical information systems, principles of	PD	UC	63	LO1 LO3 LO4

		evidence-based medicine in obstetrics, performs diagnostics of pregnancy, childbirth and the postpartum period in accordance with clinical protocols, provides intensive care and intensive therapy to mothers, conducts expertise temporary disability due to pregnancy and childbirth, knows the problem of antimicrobial resistance, It informs the basic principles that form knowledge and awareness of antimicrobial resistance, the proper use of antimicrobials, participates in infection prevention and control, teaches strict adherence to diagnostic and surveillance principles, ethics, leadership, communication and management.				
2	Ambulatory gynecology	Diagnostics, treatment and prevention of diseases of the reproductive system. Examination and treatment of gynecological patients. Medical examination, rehabilitation and spa treatment of gynecological patients. The implementation of small gynecologic operations with use of modern medical technologies. Ensuring continuity of interaction	PD	UC	25	LO1 LO2 LO3



		in the examination and treatment of pregnant women, maternity and gynecological patients. Examination of temporary disability for gynecological diseases.				
3	Ambulatory obstetrics	In the process of studying the discipline, the resident will master the skills of organizing obstetric care for pregnant and maternity women, the skills of providing family planning and reproductive health services, patronage of pregnant and maternity women, examination of women of fertile age, conducts prevention, detection of infections, preventive examinations of women for the purpose of early detection of extragenital diseases, draws up medical documentation in accordance with the legislation of the Republic of Kazakhstan, diagnoses and provides treatment when a case of gender-based violence is detected or suspected.	PD	UC	27	LO1 LO2 LO3
4	Gynecology in the hospital	Organization of work of a gynecological hospital. Indications and procedure for hospital admission. Modern scientific achievements in the field of gynecology. Provision of high-tech services in the conditions of	PD	UC	38	LO1 LO3 LO4




		mandatory social health insurance. Types of high-tech services in gynecology. Clinical protocols for the management of gynecological diseases. Reconstructive plastic surgery using high medical technologies.				
5	Pediatric gynecology and sexual health	Organization of children's gynecology service in the Republic of Kazakhstan. Consultative, diagnostic and therapeutic assistance to girls with gynecological diseases and disorders of the reproductive system development up to 18 years. Medical examination of girls with gynecological diseases. Algorithm for diagnosis and treatment of girls with congenital malformations of the reproductive system. Diagnostic methods: ultrasound, MRI, ECG, EEG. Contraception for teenagers.	PD	UC	17	LO2 LO3 LO4
6	Oncogynecology	Formation of groups of people at risk of developing oncogynecological diseases at the PHC level. Dynamic monitoring of oncogynecological patients. Selection and referral of cancer patients to hospital for specialized medical care, including high-tech	PD	UC	13	LO2 LO3 LO5

		medical services. Preventive examinations for early detection of oncogynecological diseases. Surgical treatment, treatment with antitumor drugs, radiation therapy, palliative care.				
7	Reproductive medicine and infertility	In the process of studying the discipline, knowledge and skills are formed in the legal regulation of reproductive health and family planning, the policy of protecting the reproductive health of women in Kazakhstan, advising women on the prevention and treatment of sexually transmitted infections, assessing the state of health, improving and treating patients, diagnosing the causes of infertility, determining risk factors, causes of infertility, therapeutic measures, auxiliary reproductive technologies, artificial intelligence issues in reproductive medicine.	PD	UC	17	LO3 LO4 LO5
8	Anesthesiology and resuscitation in obstetrics and gynecology	Providing anesthesiological and resuscitation care in obstetrics. Birth control. Intensive care for critical conditions in obstetrics and gynecology. Infusion-transfusion therapy in obstetrics and gynecology. Therapy of pregnant women with "sludge" in amniotic	PD	EC	4	LO3 LO4



		fluid in pregnant women. DIC-, HELLP -, antiphospholipid syndrome. Determination of blood loss by hematocrit, by the modified Moore formula, by the Algover shock index.				
9	Hysteroresectoscopy in gynecology	Early diagnosis and treatment of gynecological diseases using modern technologies. Removes adhesions, placenta remnants, intrauterine spiral, conduct a biopsy of suspicious areas of the uterine mucosa. Laparoscopic operations on the fallopian tubes and ovaries. Reconstructive plastic and organ-preserving operations.	PD	EC	4	LO1 LO2 LO6
10	Functional diagnostics in obstetrics and gynecology	Ultrasound diagnostics of the fetus and pelvic organs Dopplerometry in the "mother - placenta - fetus" system. Cardiotocography. Hysteroigraphy. Electrocardiography in obstetrics. Prenatal diagnostics of congenital malformations and hereditary diseases of the fetus. Amnioscopy. Amniocentesis. Cordocentesis. Colposcopy. Hysteroscopy. Laparoscopy. Hysterosalpingography. Mammography.	PD	EC	4	LO3 LO5

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		Colposcopy.				
11	Extragenadal Pathology in Pregnancy	In the process of studying the discipline, he will master the knowledge and skills of modern diagnostic methods, differential diagnosis, interpretation of research results, formulation of diagnosis, treatment of diseases of the respiratory system, digestive system, blood, kidneys, endocrine diseases, diseases of the cardiovascular system, HIV/AIDS, liver, biliary system, pancreas, tuberculosis, rheumatism in pregnant women, reveals contraindications to pregnancy and childbirth.	PD	EC	4	LO3 LO4 LO6
	<b>Total:</b>				<b>208</b>	
	<b>Final certification:</b>				<b>2</b>	
	<b>Total:</b>				<b>210</b>	

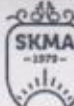
**Professional standard: "Obstetrics and Gynecology (adults, children)"**

Profession card "7.2 Obstetrician-gynecologist"	Mandatory labor functions:	1. Diagnosis, treatment, prevention and rehabilitation in women outside pregnancy, during pregnancy,
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		<p>childbirth, the postpartum period and girls of child and adolescent age</p> <p>2. Participation in the management of medical documentation, medical and statistical information</p>
	Additional labor functions:	<p>1. Providing consultative, diagnostic, therapeutic, preventive and rehabilitative care to women with infertility of various origins</p> <p>2. Continuous professional development</p>
<p>Labor function 1: Diagnosis, treatment, prevention and rehabilitation in women outside of pregnancy, during pregnancy, childbirth, postpartum period and girls of child and adolescent age</p>	<p>Skill 1: Diagnosis and treatment of rare pathological conditions in women of various age periods of life, during pregnancy, childbirth and the postpartum period</p>	<p><b>Skills:</b></p> <p>1. To develop a plan for the examination of women during pregnancy, childbirth, the postpartum period, girls of child and adolescent age, gynecological patients.</p> <p>2. To carry out diagnostics and differential diagnosis of the most common complications during pregnancy, childbirth, and the postpartum period, including the appointment and interpretation of diagnostic test results, formulation of the diagnosis according to ICD-10, and detection of complications.</p> <p>3. Perform diagnostics and differential diagnosis of the most common gynecological diseases in various age periods of a woman's life, including the appointment and interpretation of diagnostic test results, the formulation of a diagnosis according to ICD-10 when the disease is detected.</p> <p>4. To diagnose pregnancy.</p> <p>5. Identify contraindications to pregnancy and childbirth.</p> <p>6. To determine indications for planned and emergency hospitalization of women outside pregnancy, during pregnancy, childbirth, the postpartum period, and girls of child and adolescent age.</p> <p>7. To carry out documentation for planned and emergency hospitalization of women outside</p>


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		<p>pregnancy, during pregnancy, childbirth, the postpartum period, and girls of child and adolescent age</p> <p>8. Identify the main symptoms of diseases in women outside of pregnancy, during pregnancy, childbirth, the postpartum period, and girls in childhood and adolescence</p> <p>9. To draw up medical documentation provided for by the legislation of the Republic of Kazakhstan in the field of obstetric and gynecological activities.</p> <p>10. To examine patients during pregnancy and in the postpartum period.</p> <p>11. Listen to the fetal heartbeat using a stethoscope, a hand-held Doppler device.</p> <p>12. Perform a bimanual vaginal examination.</p> <p>13. Perform breast examination and palpation</p> <p>14. Measure the circumference of the abdomen, the height of the uterine fundus</p> <p>15. Perform and evaluate fetal cardiotocography</p> <p>16. Determine the duration of pregnancy.</p> <p>17. Examine the cervix in mirrors.</p> <p>18. Evaluate the degree of cervical maturity on the Bishop scale.</p> <p>19. To assess the patient's condition.</p> <p>20. To assess the degree of development of mammary glands and puberty according to Tanner.</p> <p>21. To determine the position, type, position and the presenting part of the fetus.</p> <p>22. Take a vaginal swab, vulvar scrapings, and cervical scrapings.</p> <p>23. Interpret and analyze the results of instrumental studies:</p> <ul style="list-style-type: none"> <li>-amnioscopy;</li> <li>- hysterosalpingography;</li> <li>- hysteroscopy;</li> <li>- colposcopy or vaginoscopy or</li> </ul>
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		<p>vulvoscopy;</p> <ul style="list-style-type: none"> <li>- computed tomography of the pelvic organs, including with contrast;</li> <li>-contrast echohysterosalpingoscopy;</li> <li>- CTG of the fetus;</li> <li>- magnetic resonance imaging of the pelvic organs, including with intravenous contrast;</li> <li>- mammography;</li> <li>- Ultrasound of the pelvic organs;</li> <li>- Ultrasound of the abdominal organs;</li> <li>- Ultrasound of the kidneys and urinary tract;</li> <li>- Ultrasound of the fetus and placenta;</li> <li>- Ultrasound cervicometry;</li> <li>- Dopplerography of uteroplacental blood flow.</li> </ul> <p>24. To determine indications for referral to women outside pregnancy, during pregnancy, childbirth, the postpartum period, and girls of child and adolescent age for consultation with specialized specialists.</p> <p>25. To determine the medical indications for emergency medical care for women outside pregnancy, during pregnancy, childbirth, the postpartum period, and girls of child and adolescent age.</p> <p>26. Identify medical indications and refer women outside of pregnancy, during pregnancy, childbirth, the postpartum period, and girls in childhood and adolescence to provide specialized, high-tech medical care, in a hospital setting.</p> <p>27. Remove the obstetric pessary (under the supervision of a mentor).</p> <p>28. Perform a biopsy of the cervix or vulva or vagina (under the supervision of a mentor).</p> <p>29. Perform an endometrial biopsy (zug, pipel) (under the supervision of a mentor).</p> <p>30. Perform vacuum aspiration of the</p>
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endometrium (under the supervision of a mentor).

31. Perform hysteroscopy (under the supervision of a mentor).

32. Perform probing of the uterus (under the supervision of a mentor).

33. Perform colposcopy or vaginoscopy or vulvoscopy (under the supervision of a mentor).

34. To guide patients during pregnancy, childbirth, the postpartum period, and girls of child and adolescent age according to diagnostic and treatment protocols and the standard of obstetric and gynecological care (under the supervision of a mentor).

35. To determine indications and contraindications for prescribing medicines to women outside of pregnancy, during pregnancy, childbirth, the postpartum period, and to girls of child and adolescent age.

36. Develop a treatment plan (under the supervision of a mentor).

37. To prescribe, evaluate the effectiveness and safety of medicines, medical devices and non-drug therapy to patients in women outside pregnancy, during pregnancy, childbirth, the postpartum period and girls of child and adolescent age.

38. Prescribe therapeutic nutrition to patients during pregnancy, childbirth, the postpartum period and to girls of child and adolescent age

39. Promptly refer patients with life-threatening, including infectious diseases, to appropriate specialized specialists.

40. Develop a plan for preoperative and postoperative management of patients during pregnancy, childbirth, the postpartum period, after termination of pregnancy, with gynecological diseases (under the supervision of a mentor).

41. Provide medical care to patients



		<p>in an urgent form in accordance with the procedures for providing medical care, based on clinical recommendations, taking into account the standards of medical care for conditions and diseases requiring intensive care and intensive care measures for patients during pregnancy, childbirth and the postpartum period. -for acute gynecological diseases requiring surgical treatment (under the supervision of a mentor).</p> <p>42. Prescribe and perform therapeutic manipulations and surgical interventions to patients during pregnancy, childbirth, the postpartum period, and after termination of pregnancy, in accordance with medical care practices, based on clinical recommendations, and taking into account medical care standards (under the supervision of a mentor):</p> <ul style="list-style-type: none"> <li>- amniotomy;</li> <li>- bimanual compression of the uterus;</li> <li>- vacuum extraction of the fetus;</li> <li>- conducting physiological labor;</li> <li>- autopsy and evacuation of hematoma of female genital organs;</li> <li>- drainage of female genital abscess;</li> <li>- suturing the rupture of the vagina, perineum and cervix 1-2 degrees;</li> <li>- probing of the uterus;</li> <li>- caesarean section;</li> <li>- conservative myomectomy;</li> <li>- suturing of the cervix and removal of sutures from the cervix;</li> <li>- stopping intra-abdominal bleeding;</li> <li>- techniques for helping with shoulder dystocia: Mc-Roberts technique, suprapubic pressure technique;</li> <li>- episiotomy or perineotomy;</li> <li>- dilation of the cervical canal;</li> <li>- separate curettage of the uterine cavity and cervical canal;</li> <li>- manual examination of the uterus postpartum;</li> <li>- manual separation of the placenta</li> </ul>
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	<p>and afterbirth;</p> <ul style="list-style-type: none"> <li>- laparotomic sterilization of fallopian tubes;</li> <li>- assistance in total hysterectomy (extirpation of the uterus) or subtotal hysterectomy (amputation of the uterus) with or without appendages laparotomy;</li> <li>- removal of ovarian cyst and paraovarian cyst.</li> </ul> <p>43. To perform therapeutic manipulations and surgical interventions for patients with gynecological diseases (under the supervision of a mentor):</p> <ul style="list-style-type: none"> <li>- insertion, extraction of the vaginal support ring (pessary);</li> <li>- insertion and removal of the intrauterine device;</li> <li>- reduction of the uterus in case of prolapse of the uterus;</li> <li>- autopsy and evacuation of hematoma of female genital organs;</li> <li>- hysteroressectoscopy;</li> <li>- drainage of female genital abscess;</li> <li>- suturing the rupture of the vagina, perineum and cervix;</li> <li>- probing of the uterus;</li> <li>- artificial termination of pregnancy (abortion), including medical abortion;</li> <li>- excision of foci of endometriosis;</li> <li>-laparotomy or video endoscopic myomectomy;</li> <li>- stopping intra-abdominal bleeding;</li> <li>- surgical assistance for uterine and vaginal wall prolapse;</li> <li>- puncture of the posterior vaginal arch;</li> <li>- separation of intrauterine splices;</li> <li>- dissection and excision of adhesions of female genital organs;</li> <li>- dissection of the hymen;</li> <li>- dissection of the synechia of the labia minora;</li> <li>- dilation of the cervical canal;</li> <li>- RV of the uterine cavity and cervical canal;</li> </ul>
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		<ul style="list-style-type: none"> <li>- ovarian resection or oophorectomy, or salpingo-oophorectomy laparotomically or using video endoscopic technologies;</li> <li>- salpingectomy or salpingostomy laparotomy or using videoendoscopic energies (including ectopic pregnancy);</li> <li>-sterilization of the fallopian tubes by laparotomy or using video endoscopic technologies;</li> <li>- assistance in total hysterectomy (extirpation of the uterus) or subtotal hysterectomy (amputation of the uterus) with or without appendages, laparotomy or using video endoscopic technology;</li> <li>- removal of a foreign body from the vagina;</li> <li>- removal of ovarian cyst and paraovarial cyst by laparotomy or using video endoscopic technologies;</li> <li>- removal of the fetal egg from the fallopian tube by laparotomy or using video endoscopic technologies;</li> <li>- removal of the polyp of the female genital organs;</li> <li>- suturing damage to the uterine wall;</li> <li>- suturing damage to the bladder;</li> <li>- pinching ovarian rupture.</li> </ul> <p>44. Provide emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (cessation of vital functions of the human body (circulation and (or) respiration)). 45. Promptly provide emergency care in a life-threatening condition.</p> <p>46. Use methods of examination and examination of children with gynecological diseases, taking into account age-related anatomical and functional characteristics in accordance with current standards of care (under the supervision of a mentor): - conducting anthropometry, including calculating BMI and standard deviations;</p>
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	<p>examination of the skin and mucous membranes;</p> <ul style="list-style-type: none"> <li>- determination of the stage of sexual development according to the Tanner scale;</li> <li>- determination of virilization of the external genitalia according to the Prader scale;</li> <li>- identify abnormalities of the female genital organs;</li> <li>- conduct a special gynecological examination of the girl in the presence of the mother through the rectum;</li> <li>- remove a foreign body from the vagina;</li> <li>- take a smear for the degree of purity; provide anonymous counseling to minor patients and services on issues of contraception, emergency contraception, reproductive health care, and STDs;</li> <li>- conduct anonymous consultations with a minor patient on issues of medical and surgical abortion, their advantages and complications; - teach the mother and the girl the basics of personal intimate hygiene.</li> </ul> <p><b>Knowledge:</b></p> <ol style="list-style-type: none"> <li>1. Knowledge of normal, topographic and pathological anatomy, normal and pathological physiology, biochemistry of childhood and adulthood.</li> <li>2. Knowledge of the main clinical and laboratory symptoms and syndromes in women at different age periods of life.</li> <li>3. Knowledge of the etiology, pathogenesis, classification, clinical manifestations, and diagnostics of the most common diseases at different age periods of a woman's life.</li> <li>4. Knowledge of the standard survey and physical examination schedule at different age periods of a woman's life.</li> </ol> <p>Knowledge of examination methods</p>
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at different age periods of a woman's life to make a diagnosis.

6. Knowledge of laboratory data of biological fluids of the body in the norm and with the most common pathologies in women at different age periods of life.

7. Knowledge of age-related characteristics of the human body and its functional systems.

8. Knowledge of indications for planned and emergency hospitalization.

9. Knowledge of instrumental, laboratory and functional examination methods used in women outside pregnancy, during pregnancy, childbirth, the postpartum period and in girls of childhood and adolescence.

10. Knowledge of indications for referring patients during pregnancy, after childbirth and with gynecological diseases for laboratory and instrumental examinations.

11. Knowledge of interpretation of results of examinations, laboratory and instrumental examinations of patients during pregnancy, in the postpartum period, and with gynecological diseases.

12. Knowledge of indications for referring patients during pregnancy, in the postpartum period and with gynecological diseases for consultation with specialized doctors.

13. Knowledge of differential diagnostics of obstetric complications and gynecological diseases.

14. Knowledge of indications for providing emergency medical care to patients during pregnancy, childbirth, the postpartum period and gynecological diseases.

15. Knowledge of methods of treating gynecological diseases.

16. Knowledge of methods of treating infertility, including assisted reproductive technologies.


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		<p>17. Knowledge of methods of artificial termination of pregnancy.</p> <p>18. Knowledge of methods of infertility treatment, including ART.</p> <p>19. Knowledge of methods of artificial termination of pregnancy.</p> <p>20. Knowledge of principles of spontaneous and operative delivery, medical indications and contraindications for spontaneous and operative delivery.</p> <p>21. Knowledge of the principles of pregnancy, childbirth and the postpartum period, including in patients with somatic and infectious diseases.</p> <p>22. Knowledge of methods for treating obstetric complications, including emergency conditions during pregnancy, childbirth and the postpartum period.</p> <p>23. Knowledge of providing resuscitation care to a newborn and women.</p> <p>24. Knowledge of life-threatening conditions requiring emergency medical care.</p> <p>25. Knowledge of clinical symptoms and differential diagnostic signs: cardiac arrest, anaphylactic shock, asphyxia, fainting, collapse, epileptic seizure, hemorrhage, bleeding, inhalation and ingestion of foreign bodies, hypoglycemia, diabetic coma, hypertensive crisis.</p>
	<p>Skill 2: Organization of prevention of gynecological diseases in different age periods of women and complications of pregnancy, childbirth and the postpartum period</p>	<p><b>Skills:</b></p> <p>1. Skills in organizing and conducting the prevention of gynecological diseases in women at different age periods.</p> <p>2. Skills in organizing and conducting prevention of complications of pregnancy, childbirth, and the postpartum period.</p> <p>3. Establish productive communication relationships with patients and apply this skill during</p>



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		<p>consultations.</p> <p>4. Plan, implement, and analyze the results of screening programs in PHC settings</p> <p><b>Knowledge:</b></p> <ol style="list-style-type: none"> <li>1. Knowledge of evidence-based medicine in the clinical practice of an obstetrician-gynecologist</li> <li>2. Knowledge of the results of modern research on the prevention of diseases in women at different ages of a woman's life, as well as during pregnancy, childbirth, and the postpartum period</li> </ol>
	<p><b>Skill 3:</b> Organization of rehabilitation measures in different age periods of women and complications of pregnancy, childbirth and the postpartum period</p>	<p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Skills in organizing psychological and physical rehabilitation activities in different age periods of women and complications of pregnancy, childbirth and the postpartum period</li> <li>2. Consulting skills on the organization of professional, socio-economic rehabilitation activities in different age periods of women, as well as during pregnancy and the postpartum period.</li> </ol> <p><b>Knowledge:</b></p> <ol style="list-style-type: none"> <li>1. Knowledge of evidence-based medicine in the clinical practice of an obstetrician-gynecologist.</li> <li>2. Knowledge of measures for the rehabilitation of patients in primary health care.</li> <li>3. Knowledge of the results of modern research on rehabilitation in different age periods of women and in the postpartum period</li> </ol>
<p><b>Labor function 2:</b> Participation in the management of medical documentation, medical and statistical information</p>	<p><b>Skill 1:</b> Maintaining medical records, analyzing medical and statistical information, in accordance with</p>	<p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Plan your work and compile a report analyzing your own performance indicators.</li> <li>2. Maintain medical records, including in electronic form,</li> </ol>

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
	<p>the requirements of regulatory legal acts in the field of</p>	<p>and monitor the quality of its management.</p> <p>3. To analyze the medical and statistical indicators of the work of the specialized medical department.</p> <p>4. Use patients' personal data and information in accordance with the law.</p> <p>5. Use information systems in accordance with the established procedure</p> <p><b>Knowledge:</b></p> <p>1. Order of the Acting Minister of Health of the Republic of Kazakhstan dated October 30, 2020 №KR DSM-175/2020 "On Approval of Accounting Documentation Forms in the field of healthcare, as well as instructions for completing them (registered with the Ministry of Justice of the Republic of Kazakhstan on November 4, 2020 №21579).</p> <p>2. Order of the Minister of Health of the Republic of Kazakhstan dated December 22, 2020 №KR DSM-313/ 2020 "On approval of forms of accounting documentation in the field of healthcare" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 23, 2020 №21879).</p> <p>3. Order of the Minister of Health of the Republic of Kazakhstan dated December 10, 2020 No. KR DSM-244/2020 "On approval of the Rules for</p>
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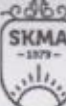
		maintaining primary medical records and submitting reports" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 11, 2020, №21761). 4. Electronic accounting and documentation systems. 5. Confidentiality of patients' medical information. 6. Fundamentals of medical statistics.
Additional information labor function 1: Providing consultative, diagnostic, therapeutic, preventive and rehabilitative care to women with infertility of various origins	<b>Skill 1:</b> Conducting examination and treatment of infertile couples and/or individuals on an outpatient basis and in ART clinics.	<b>Skills:</b> 1. Conduct and/or interpret laboratory and instrumental examination methods: - measuring rectal temperature or performing an ovulation test during 2-3 menstrual cycles; - determination of blood hormones by ELISA method: progesterone in women with regular menstruation on the 21st-23rd day of the cycle. FSH, LH in women with oligomenorrhea or amenorrhea on any day or on 2-4 days of gestag-induced menstruation. testosterone in women with clinical signs of hyperandrogenism on day 4-7 of the cycle. TSH, T4sb, Anti-TPO in women with thyroid pathology (on day 4-7 of the cycle in women with regular menstruation, on any day in women with oligomeorrhea or amenorrhea); - a smear for oncocytology (in the presence of cervical ectopia);

		<ul style="list-style-type: none"> <li>- colposcopy (in the presence of cervical ectopia);</li> <li>- CT or MRI scan of the skull and Turkish saddle (with hyperprolactinemia, with low concentration of FSH in the blood);</li> <li>- Ultrasound of the breast (when detecting changes during palpation in the mammary glands);</li> <li>- Ultrasound of the thyroid gland (if changes are detected during thyroid palpation);</li> <li>- endometrial biopsy followed by histological examination in order to diagnose the function of the corpus luteum in women with regular menstruation on the 21st -23rd day of the cycle;</li> <li>- hysteroscopy on the 6th-8th day of the cycle (if pathology of the uterine cavity and endometrium is suspected);</li> </ul> <p>2. To determine indications and contraindications to surgical methods of infertility treatment.</p> <p>3. To select and examine patients for assisted reproductive technologies:</p> <ul style="list-style-type: none"> <li>- the ability to assess the ovarian reserve;</li> <li>- induction of superovulation, including monitoring of folliculogenesis and endometrial development;</li> <li>-puncture of ovarian follicles;</li> <li>- oocyte insemination and in vitro embryo culture (in vitro) (in vitro);</li> <li>- transfer of embryos into the</li> </ul>
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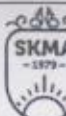
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	<p>uterine cavity;</p> <ul style="list-style-type: none"> <li>- support of the luteal phase of the stimulated menstrual cycle.</li> </ul> <p>4. Choose the scheme of stimulation, the drugs to be administered, dose adjustment and changes to the protocol of induction of superovulation.</p> <p>5. Carry out ultrasound monitoring.</p> <p>6. Carry out hormonal monitoring.</p> <p>7. Determine the degree of maturity of the follicles.</p> <p>8. Perform ovarian follicle puncture and oocyte aspiration.</p> <p>9. To prepare the sperm of the husband or donor.</p> <p>10. Evaluate the quality of the obtained oocytes.</p> <p>11. Transfer embryos into the uterine cavity.</p> <p>12. To carry out prevention and timely correction of possible complications during IVF:</p> <ul style="list-style-type: none"> <li>- ovarian hyperstimulation syndrome;</li> <li>-- allergic reactions associated with the administration of drugs to induce superovulation and support the luteal phase of the stimulated menstrual cycle;</li> <li>- allergic reactions associated with the administration of drugs for anesthesia;</li> <li>- external and internal bleeding;</li> <li>- acute inflammation or exacerbation of chronic inflammation of the female genital organs;</li> <li>- ectopic pregnancy;</li> </ul>
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<p>QNTÜSTİK QAZAQSTAN MEDISINA AKADEMIASY «Qntüстіk Qazaqstan medicina akademiasy» AQ</p>		<p>SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академ</p>
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		<p>- multiple uterine and heterotopic pregnancies.</p> <p>14. Provide transvaginal access to embryos.</p> <p>15. Provide consultative and diagnostic assistance for married couples on ART issues.</p> <p>16. Prepare documentation for IVF in the CSHI system.</p> <p>17. Conducting and interpreting preimplantation genetic diagnosis.</p> <p>18. Identify indications and contraindications to surrogacy.</p> <p>19. Perform artificial insemination.</p> <p><b>Knowledge:</b></p> <p>1. Knowledge of the classification of infertility and the algorithm of examination of infertile couples according to the knowledge of the scope of examination of a married couple before the ART program.</p> <p>2. Knowledge of the conditions of initiation of treatment for married couples in ART programs.</p> <p>3. Knowledge of methods of diagnosis and treatment of marital infertility.</p> <p>4. Knowledge of the principles of ovulation induction in endocrine infertility.</p> <p>5. Knowledge of modern ways to improve the effectiveness of the IVF program.</p> <p>6. Knowledge of the methods of surgical correction of pathology of the uterine cavity in</p>
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		<p>infertility.</p> <p>7. Knowledge of ways to preserve the ovarian reserve.</p> <p>8. Knowledge of the possibilities of the method of preimplantation diagnosis of embryos.</p> <p>9. Knowledge of the specifics of pregnancy management after ART.</p> <p>10. Knowledge of modern methods of examination for infertility.</p> <p>11. Knowledge of the peculiarities of preparation for pregnancy in case of uterine pathology.</p> <p>12. Knowledge of endometriosis and infertility treatment tactics.</p> <p>13. Knowledge of the influence of the endocrine factor of infertility, approaches to ovulation stimulation.</p> <p>14. Knowledge of male infertility treatment tactics.</p> <p>15. Knowledge of the possibilities of advanced ART technologies.</p> <p>16. Knowledge of preimplantation genetic diagnosis of embryos.</p> <p>17. Knowledge of modern methods of ovarian reserve preservation.</p> <p>18. Knowledge of the principles of pregnancy management after infertility treatment by ART methods</p> <p>19. Knowledge of conservative and operative methods of female infertility treatment</p>
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		<p>20. Knowledge of indications and contraindications for the use of ART</p> <p>21. Knowledge and choice of stimulation schemes, administered drugs, dose adjustment and changes to the protocol of induction of superovulation</p> <p>22. Knowledge of indications and contraindications to surrogacy.</p> <p>23. Knowledge of the peculiarities of pregnancy after the use of ART.</p>
<p>Additional work function 2: Continuous professional development</p>	<p>Skill 1: Striving for professional improvement</p>	<p><b>Skills:</b></p> <ol style="list-style-type: none"> <li>1. Participate in professional training events: conferences, seminars, webinars, advanced training courses.</li> <li>2. To participate in academic and scientific activities.</li> <li>3. Participate in the work of professional associations, committees and working groups discussing health issues, sharing experiences with colleagues.</li> </ol> <p><b>Knowledge:</b></p> <ol style="list-style-type: none"> <li>1. Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 №KR DSM-303/ 2020 "On approval of the Rules for additional and non-formal education of healthcare professionals, qualification requirements for organizations implementing educational programs for additional and non-formal education in the field of healthcare, as well as the rules for recognizing the learning outcomes obtained by specialists in the field of</li> </ol>



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		<p>healthcare through additional and non-formal education (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 №21847).</p> <p>2. Order of the Minister of Health of the Republic of Kazakhstan dated December 20, 2020 №KR DSM-283/20 "On approval of the rules for confirming the results of continuous professional development of healthcare workers" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22 December 2020, №21843).</p> <p>3. Opportunities for networking and communication with colleagues from their professional field.</p> <p>4. Current trends, research and development in a specialized field.</p>
Personal competence requirements:	<p>Empathy</p> <p>Communication skills</p> <p>Tolerance and respect</p> <p>Collaboration and teamwork</p> <p>Stress resistance</p> <p>Reflection and introspection</p> <p>Compliance with professional ethics</p> <p>Openness and willingness to learn</p> <p>Activity and initiative</p> <p>Striving for professional development</p>	

Head of the educational and methodological center:

**B.Z.Doltayeva**

