###  [Al-Farabi Kazakh National University](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=2ahUKEwiA37OFpvDkAhVvsIsKHUADBHMQFjAAegQIBhAB&url=https%3A%2F%2Fwww.kaznu.kz%2Fen%2F&usg=AOvVaw2mRg8cBng-emT4DlQyqOLA)

 Faculty of Medicine and Health

Higher school of medicine

Department of clinical disciplines

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|  | ApprovedDean of faculty\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Kalmataeva Zh. A.**"\_\_\_\_\_\_"\_\_\_\_\_\_\_\_ 2020.** |

**EDUCATIONAL AND METHODICAL COMPLEX OF DISCIPLINE**

**ULT 6308**

**Ultrasound diagnostics in Obstetrics and Gynecology**

**DIRECTION OF PREPARATION**

7M101- HEALTH CARE

7М101 MEDICINE

**EDUCATIONAL PROGRAM**

7М10104 MEDICINE Clinician- Scientist

Course - 1 (6)

Semester - 2 (12)

Number of credits - 5

**Almaty 2020**

Educational-methodical complex of discipline is made by doctor of medical Sciences Kurmanova A. M.

Based on the working curriculum of the educational program

7М10104 MEDICINE Clinician- Scientist

Considered and recommended at the meeting of the Department of clinical specialties from "\_\_\_ " \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2020., Protocol No.

the head of Department \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ M. D. Tashenova G. T.

 (signature)

It is recommended by methodical Bureau of faculty

"\_\_\_\_" \_\_\_\_\_\_\_\_\_\_\_ 2020 G., Protocol № \_\_\_

Chairman of the method Bureau of the faculty \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ualieva A. E.

 (signature)

**Al-Farabi Kazakh National University**

**Faculty of medicine and health**

**Higher school of medicine**

**Department of clinical disciplines**

**CLAIM**

**Dean of faculty**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Kalmataeva J. A.**

**"\_\_\_\_\_\_"\_\_\_\_\_\_\_\_ 2020.**

 **SYLLABUS**

**for 3 semester-2020-2021 academic year**

**Academic course information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Discipline code | Discipline name | Type | Number of hours per week | ECTS |
| Lecture | Practice |  | ISW |  |
| **ULT6308** | **Ultrasound diagnostics in Obstetrics and Gynecology** | ПД ОК | 15 | 30 | 7 | 98 | 5 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Course leader  | Name, academic degree, academic title:MD Kurmanova A. M.  | Office hours |  |
| e-mail | E-mail: alm\_kurmanova@mail.ru |
| Phone numbers: | +7 701 7616106  | Location:  |  |

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| --- | --- |
| Academic presentation of the course | The goal is to improving the knowledge of ultrasound diagnostics doctors to obtain new 4 relevant knowledge and skills, expanding the area of professional interests. The training can be taken by specialists with the skills of ultrasound examination in the field of gynecology and prenatology."Learning objectives:1. Mastering the theoretical foundations in the diagnosis of diseases of the organs of the reproductive and urinary system. 2. Mastering modern approaches and techniques in ultrasound diagnostics and invasive interventions under ultrasound guidance. 3. Mastering practical skills of complex ultrasound examination in the diagnosis of diseases of the female reproductive system.* Skills: modern diagnostic methods used in ultrasound diagnostics, interpretation of the data obtained and approaches to the treatment of patients;

• theoretical and practical foundations of ultrasound technologies required in the practice of ultrasound diagnostics doctor;• indications for ultrasound examination of the genital and urinary organs. As a result of mastering the program, students should be able to: • apply knowledge of modern diagnostic methods for examining the genital and urinary organs and indications for the study. • to apply the knowledge of the theoretical foundations of ultrasound technologies for visualization of the genital and urinary organs, which are necessary in the practice of an ultrasound diagnostics doctor. • be proficient in methods of ultrasound diagnostics in gynecology and prenatology. • competently interpret the data obtained with the preparation of a medical report. • give recommendations to the attending physician about the advisability of carrying out additional diagnostic studies of the patient. |
|  | 1. <https://geekymedics.com/>
2. Amboss.com
3. USMLEbase.com
4. Medscape.com
5. Oxfordmedicine.com
6. [Uptodate.com](http://www.uptodate.com)
7. [research.nhgri.nih.gov](http://research.nhgri.nih.gov/)
8. [ncbi.nlm.nih.gov/PubMed/](http://www.ncbi.nlm.nih.gov/PubMed/)
9. [medline.com](http://www.medline.com)
10. сlinical Learning by ELSEVIER

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| Academic policy of the course in the context of University values | **Rules of academic conduct:** 1) Appearance: office style clothes  clean ironed Bathrobemedical mask medical capmedical glovereplaceable footwear neat hair, neat nails a badge indicating your name (in full)2) Mandatory presence of a stethoscope, tonometer, tape and sanitary book.3) Mandatory compliance with the rules of personal hygiene and safety 4) Systematic preparation for the educational process.5) Accurate and timely maintenance of reporting documentation.6) Active participation in medical and diagnostic and social activities of the departments.Discipline: Not allowed being late to class or morning conference. If you are late-the decision on admission to the lesson takes the teacher leading the class. After the third delay-writes an explanatory letter to the head of the Department indicating the reasons for the delay and sent to the Dean's office for admission to the class. Withdrawal from classes ahead of time, finding study time outside the workplace is regarded as truancy. Not allowed additional work of students during school hours (during practical training and duty).  Missed classes are not practiced. Students are fully subject to the Rules of the internal lo-rows of Coffers and clinical databasesAcademic value:Academic honesty and integrity: independence of performing all tasks; inadmissibility of plagiarism, forgery, use of Cribs, cheating at all stages of knowledge control, cheating of the teacher and disrespectful attitude to him. |
| Assessment | Final exam MiniCex |

**Course content realization:**

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| --- | --- | --- | --- |
| **№** | **Topics** |  | **hours** |
|  |
|  | Features of ultrasound diagnostics in early pregnancy: basic points and common mistakes. | 20 | 3 |
|  | Carrying out 1 screening in the period of 11.6-13.6 weeks at the expert level. Ultrasound assessment of patients with a scar on the uterus in the prognosis of the course of pregnancy. | 20 | 3 |
|  | Conducting 2 screening in the period of 19-21 weeks at the expert level. Сonducting 3 screening within 30-31 weeks at the expert level. Ultrasound diagnostic criteria for preeclampsia | 20 | 3 |
|  | **12.10.20-17.10.20 Border control** | 20 | 3 |
|  | Provisional organs of the fetus. Possibilities of four-dimensional ultrasound diagnostics of the fetus: goals, objectives. Prenatal "photo session". | 20 | 3 |
|  | Diagnosis of congenital malformations of the fetus | 20 | 3 |
|  | Modern aspects of Doppler ultrasonography in obstetric practice | 20 | 3 |
|  | **16.11.20-21.11.20 Midterm** | 20 | 3 |
|  | Ultrasound diagnosis of abnormalities in the development of the uterus and endometrium. Classification of defects of female internal genital organs (The American Fertility Society), diagrams and ultrasound images of common pathology. Norm and pathology. Fundamentals of MUSA (Morphological Uterus Sonographic Assessment) and IETA (International Endometrial Tumor Analysis Group). Basic principles and diagnostic capabilities of volumetric echography. | 20 | 3 |
|  | Ultrasound picture of uterine fibroids and endometriosis. Conducting ultrasound biometrics, describing myomatous nodes and formulating a conclusion. The main points of Doppler sonography of myomatous nodes. FIGO classification of myomatous nodes. Fibroids and pregnancy. | 20 | 3 |
|  | Ultrasound diagnostics of diseases of the ovaries and fallopian tubes. The main provisions of IOTA (International Ovarian Tumor Analysis Group), how to interpret and apply them in the daily practice of an ultrasound doctor | 20 | 3 |
|  | **21.12.20-26.12.20** **Border control****28.12.20- 09.01.21 Final exam (stage 1 + stage 2)**Stage 1 – MSQ testingStage 2 – practical examination | 20 | 3 |