

MINISTRY OF HEALTH OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY
Department of Obstetrics and Gynecology №1
Academic year 2021-2022

SYLLABUS OF THE EDUCATIONAL COMPONENT

«Obstetrics and gynecology»

(the name of the educational component)

Normative or selective educational component normative

Form of education full-time
(full-time; correspondence; distance)

Branch of knowledge 22 «Health care»
(шифр і назва галузі знань)

Specialty «222 «Medicine»
(шифр і назва спеціальності)

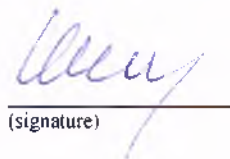
Educational and professional program "Medicine", Second (master's) level of higher education

Course 4

The syllabus of the discipline was considered at the meeting of the Department of Obstetrics and Gynecology №1

Protocol of August "27" 2021 № 18

Head of Department


(signature)

M.O.SHCHERBINA
(initials, surname)

Approved by the methodical commission of KhNMU on problems of surgical profile

Protocol of August "30" 2021 № 1

Head


(signature)

V. O.Syplivvy
(initials, surname)

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Link to the profile of the department on the university website:
<https://knmu.edu.ua/departments/kafedra-akusherstva-ta-ginekologiyi-1>

Link to the profile of the department in the Moodle system:
<http://distance.knmu.edu.ua/course/index.php?categoryid=36> Location: MNCE RRC "RCPC" (Malinovsky St., 4), Regional Center for Clinical Medicine (Constitution Square, 21).

INTRODUCTION

The syllabus of the discipline "Obstetrics and Gynecology" is compiled in accordance with the educational-professional program (hereinafter - OPP) "Medicine" and the Standard of Higher Education of Ukraine (hereinafter - the Standard), the second (master's) level, field of knowledge 22 "Health", specialty "222" Medicine ".

Description of the discipline (abstract). The current state of the demographic situation in Ukraine requires a doctor of any specialization in-depth study of women's reproductive health and family planning. The teaching of obstetrics and gynecology at the medical faculty should be inextricably linked with the future specialization. The ultimate goals of the discipline include the acquisition of knowledge and skills in terms of solving professional problems. The structure of the program corresponds to the curriculum of the discipline. The content of the program is regulated in accordance with the clinical protocols for obstetric care of the Ministry of Health of Ukraine. Thematic plans are focused on the development of higher education students in the most important sections of physiological obstetrics and perinatology, urgent obstetric and gynecological complications, perinatal medicine and deontological, ethical and legal aspects of obstetric and gynecological care. Basic medical training of doctors in the specialty "Obstetrics and Gynecology" is carried out during 4-6 years of study.

The subject of study of the discipline is "obstetrics and gynecology".
Interdisciplinary links: based on the knowledge gained by higher education students in the study of medical biology, normal and pathological anatomy, topographic anatomy, normal and pathological physiology of the female reproductive system, histology, cytology and embryology, pharmacology and integrated with these disciplines.

Prerequisites: medical biology, normal and pathological anatomy, topographic anatomy, normal and pathological physiology of the female reproductive system, histology, cytology and embryology, pharmacology.

Postrequisites surgery, general practice (family medicine), infectious diseases, oncology and radiation medicine, pediatrics, emergency and urgent medical care, clinical pharmacology, reproductive medicine, forensic medicine.

Link to the discipline page in MOODLE
<http://distance.knmu.edu.ua/course/index.php?categoryid=36>

1. PURPOSE AND TASKS OF THE COURSE

1.1. The purpose of studying the discipline is to acquire knowledge of physiological obstetrics; mastering the principles of pregnancy, childbirth and the postpartum period; ability to analyze the obstetric situation; use clinical-laboratory and special research methods; demonstrate skills and abilities according to the educational-professional program (EPP).

1.2. The main objectives of the discipline are to plan the tactics of pregnancy, physiological childbirth and the postpartum period; establishing a preliminary

diagnosis of complications of pregnancy, childbirth and the postpartum period; interpretation of the clinical anatomy of the female genitals and the physiology of the female reproductive system; performing the necessary medical manipulations; planning and providing emergency care in emergencies in obstetrics and gynecology.

1.3. Competences and learning outcomes, the formation of which is facilitated by the discipline "Obstetrics and Gynecology" and its relationship with the normative content of training of higher education in the field of knowledge 22 Health care, formulated in terms of learning outcomes in the Standard of Higher Education of Ukraine second (master) level higher education.

1.3.1. The study of the discipline provides students with the acquisition of **competencies**:

integrated: the ability to solve typical and complex specialized problems and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

General:

1. Ability to apply knowledge in practical situations
2. Knowledge and understanding of the subject area and understanding of the profession
3. Ability to self-regulate and lead a healthy lifestyle, the ability to adapt and act in a new situation
4. Ability to choose a communication strategy; ability to work in a team; interpersonal skills
5. Ability to communicate in the native language both orally and in writing; ability to communicate in a second language
6. Skills in the use of information and communication technologies
7. Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained
8. Ability to apply knowledge in practical situations
9. Ability to assess and ensure the quality of work performed;
10. Definiteness and perseverance in terms of tasks and responsibilities
11. Ability to act socially responsible and socially conscious.

Special (professional, subject):

1. Ability to establish a preliminary clinical diagnosis of the disease
2. Skills of gathering information about the patient
3. Ability to evaluate the results of laboratory and instrumental research
4. Ability to determine the principles and nature of treatment of diseases
5. Ability to diagnose emergencies
6. Ability to determine the tactics of emergency medical care
7. Skills in providing emergency medical care
8. Skills to perform medical manipulations
9. Ability to determine the required mode of work and rest in the treatment of diseases
10. Ability to determine therapeutic nutrition in the treatment of diseases

11. Ability to determine the tactics of physiological childbirth and the postpartum period
12. Ability to determine the tactics of contingent of persons subject to dispensary supervision
13. Ability to keep medical records
14. Ability to process state, social, economic and medical information
15. Ability to take measures to organize and integrate medical care
16. Ability to assess the impact of the environment on the health of the population (individual, family, population)
17. Ability to assess the impact of socio-economic and biological determinants on the health of the individual, family, population
18. Ability to analyze the activities of a doctor, department, health care institution
19. Ability to take measures to ensure the quality and safety of medical care.

1.3.2. The study of the discipline provides students with the acquisition of the following **program learning outcomes:** 1. Ability to establish a preliminary clinical diagnosis of the disease.

2. Skills of gathering information about the patient
3. Ability to evaluate the results of laboratory and instrumental research
4. Ability to determine the principles and nature of treatment of diseases
5. Ability to diagnose emergencies
6. Ability to determine the tactics of emergency medical care
7. Skills in providing emergency medical care
8. Skills to perform medical manipulations
9. Ability to determine the required mode of work and rest in the treatment of diseases
10. Ability to determine therapeutic nutrition in the treatment of diseases
11. Ability to determine the tactics of physiological childbirth and the postpartum period
12. Ability to determine the tactics of contingent of persons subject to dispensary supervision
13. Ability to keep medical records
14. Ability to process state, social, economic and medical information
15. Ability to take measures to organize and integrate medical care
16. Ability to assess the impact of socio-economic and biological determinants on the health of the individual, family, population
17. Ability to analyze the activities of a doctor, department, health care institution
18. Ability to take measures to ensure the quality and safety of medical care
19. Form goals and determine the structure of personal activities based on the results of the analysis of certain social and personal needs.
20. Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.
21. To be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general educational and cultural level.
22. Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

23. Organize the necessary level of individual safety (own and persons cared for) in the event of typical dangerous situations in the individual field of activity.

1.3.3. The study of the discipline provides students with the following **social skills (Soft skills)**: mastering the skills of collecting information about the patient, the ability to evaluate the results of laboratory and instrumental studies, establishing a preliminary clinical diagnosis, determining the necessary mode of work and rest in the treatment of diseases. treatment of diseases, determination of principles and nature of treatment of diseases, determination of tactics of physiological childbirth and postpartum period, medical manipulations, diagnosis of emergencies and emergency medical care, determination of tactics of contingent of persons subject to dispensary supervision, medical documentation, social impact assessment - economic and biological determinants of the health of the individual, family, population, measures to ensure the quality and safety of health care, the ability to apply knowledge in practical situations, understanding of the subject area and professional activity, ability to adapt and act in a new situation, use of information and communication technologies, ability to learn and be modernly trained, making informed decisions, ability to work in a team, act socially responsibly and consciously.

2. INFORMATION VOLUME OF THE EDUCATIONAL DISCIPLINE

Name indicators	Field of knowledge, specialty, educational degree, EPP	Characteristics of the discipline	
		daytime form of education	
Number of credits - 3	Branch of knowledge 22 " <u>Health care</u> "	Normative	
Total hours - 90	Specialty: 222 " <u>Medicine</u> "	Year of preparation (course):	
		4th	
		Semester	
		7th	8th
		Lectures	
Hours for full-time study: classroom – 50, independent student work - 40	Educational degree: <u>second master's level</u> <u>EPP "Medicine"</u>	6 hours	4 hours
		Practical	
		20 hours	20 hours
		Independent work	
		20 hours	20 hours
		Type of final control: diff. credit	

2.1 Description of the discipline

2.2.1 Lectures

№	Topic name	Number of hours	Types of lectures
1	Physiology of pregnancy. Topical issues of perinatal	2	problematic

	medicine.		
2	Physiology of childbirth. Pain relief during labor.	2	problematic
3	Miscarriage and prolonged pregnancy. The problem of gestosis in pregnant women.	2	problematic
4	Obstetric bleeding.	2	problematic
5	Childbirth injuries. Obstetric operations.	2	problematic
	Total hours	10	

2.2.2 Practical classes

№	Topic name	Number hours	Methods of teaching	Forms of control
1	Physiology of pregnancy. The fetus as an object of childbirth.	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
2	Physiology of childbirth. Clinical course and management of labor. Pain relief during labor.	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
3	Physiology of the postpartum period. Physiology of the neonatal period.	4	practical classes, presentations, situational tasks, individual tasks, practice	Current control - oral examination, written tests, testing, medical histories, demonstration of

			of practical skills	skills and practical skills.
4	Pregnancy and childbirth with breech presentation. Fetal position anomalies.	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
5	Pregnancy and childbirth with pelvic bone anomalies. Macrosomia problem in obstetrics.	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
6	Anomalies in the development of the ovum. Multiple pregnancy.	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
7	Methods for diagnosing the state of the intrauterine fetus. Placental insufficiency. Fetal distress. Fetal growth retardation syndrome.	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
8	Isoantigenic	4	practical	Ongoing control

	incompatibility of the blood of the mother and the fetus. Protection of educational medical history.		classes, presentations, situational tasks, individual tasks, practice of practical skills	- oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
9	Pathology of the neonatal period. Asphyxia of the newborn. Toxic-septic diseases of newborns. Methods of intensive care and resuscitation of the newborn	4	practical classes, presentations, situational tasks, individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
10	Final lesson.	4	practical classes, situational tasks, individual tasks, practice of practical skills	Final control: dif.credit
	Total hours	40		

2.2.3. Independent work

№	Topic name	Number of hours	Methods of teaching	Forms of control
1	Preparation for practical classes and lectures.	18	situational tasks, individual tasks	Current control - oral examination, written tests, demonstration of skills and practical skills.
2	Curation of pregnant women and women in labor. Writing an educational medical history.	5	practice of practical skills	Current control - medical history, demonstration of skills and practical skills.
3	Organization of obstetric care.	5	situational tasks, practice	Current control - oral examination, written tests, testing,

	<p>Subject of obstetrics and gynecology. The main stages in the development of obstetrics and gynecology. The role of the family doctor in the prevention of perinatal diseases and mortality. Laboratory diagnostics of HIV infection. Counseling in the context of HIV infection. The concept of counseling and its ethical principles. Counseling skills.</p>		of practical skills	medical histories, demonstration of skills and practical skills.
4	Clinical anatomy and physiology of the female genital organs	2	situational tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
5	The structure of the female pelvis. The pelvis from the obstetric point of view.	2	situational tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
6	Pharmacotherapy in obstetrics. Pharmacokinetics and pharmacodynamics of drugs.	2	situational tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical skills.
7	Individual IW	1	individual tasks, practice of practical skills	Current control - oral examination, written tests, testing, medical histories, demonstration of skills and practical

				skills.
8	Preparation for the final lesson.	5	situational tasks, practice of practical skills	Final control: dif.credic
	Total hours	40		

3. EVALUATION CRITERIA

3.1. Evaluation of the success of education of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU", approved by the order of KhNMU from 21.08.2021 №181.

Recalculation of the average grade for current activities in a multi-point scale is carried out in accordance with the "Instructions for assessing the educational activities of higher education students...", Annex 1 to paragraph 2.6 of the Instructions approved by the order of KhNMU from 21.08.2021 №181, table 1.

4-point scale	120- point scale	4- point scale	120- point scale
5	120	3.91-3,94	94
4.95-4,99	119	3.87-3,9	93
4.91-4,94	118	3.83- 3,86	92
4.87-4,9	117	3.79- 3,82	91
4.83-4,86	116	3.74-3,78	90
4.79-4,82	115	3.7- 3,73	89
4.75-4,78	114	3.66- 3,69	88
4.7-4,74	113	3.62- 3,65	87
4.66-4,69	112	3.58-3,61	86
4.62-4,65	111	3.54- 3,57	85
4.58-4,61	110	3.49- 3,53	84
4.54-4,57	109	3.45-3,48	83
4.5-4,53	108	3.41-3,44	82
4.45-4,49	107	3.37-3,4	81
4.41-4,44	106	3.33- 3,36	80
4.37-4,4	105	3.29-3,32	79
4.33-4,36	104	3.25-3,28	78
4.29-4,32	103	3.21-3,24	77
4.25- 4,28	102	3.18-3,2	76
4.2- 4,24	101	3.15- 3,17	75
4.16- 4,19	100	3.13- 3,14	74
4.12- 4,15	99	3.1- 3,12	73
4.08- 4,11	98	3.07- 3,09	72
4.04- 4,07	97	3.04-3,06	71
3.99-4,03	96	3.0-3,03	70

4-point scale	120- point scale	4- point scale	120- point scale
3,95- 3,98	95	Less 3	Not enough

Differentiated credit is conducted by the teacher of the academic group, or is accepted by the commission, in case of disagreement of the student with the results of certification, at the last lesson and provides for the consideration of IPA. Admission to the differentiated test is determined in the points of the current educational activity, namely: min - 70, max - 120 points and the mark - "passed", "not credited". If the differentiated credit is not passed, the dates of re-setting during the holidays are set, before the beginning of the next semester. Directly differentiated credit is estimated from - 50 to - 80 points.

3.2. Questions for differentiated credit and control questions:

1. The structure of germ cells. Fertilization and development of a fertilized egg. Organogenesis. Development of fertile membranes. Amniotic fluid. Placenta, its structure and function.
2. Critical periods of embryo and fetus development. Effects on the embryo and fetus of harmful environmental factors.
3. Physiological changes in a woman's body during pregnancy. Hygiene and diet of a pregnant woman. Methods of examination of the pregnant woman. Diagnosis of early pregnancy. External and internal obstetric examination of pregnancy. Obstetric terminology. Determination of fetal life and death. Determination of prenatal leave and date of birth. Perinatology as a scientific field in obstetrics.
4. Reasons for the onset of labor. Regulation of labor. Precursors of childbirth, the preliminary period. Biological readiness of the organism for childbirth. Childbirth, changes in the uterus.
5. Biomechanisms of childbirth in anterior and posterior types of occipital presentation.
6. Clinical course of labor. Childbirth. Obstetric care and monitoring of the mother and fetus in childbirth.
7. Anesthesia of childbirth.
8. Clinic of the postpartum period. Changes in the body of the mother, genitals, mammary glands. Maternity care. Therapeutic exercise. Maternity hygiene. Prevention of postpartum diseases. Postpartum leave. Prevention and treatment of hypogalactia.
9. Anatomical and physiological features of the neonatal period. Care and feeding of newborns. Organization of the neonatal department.
10. Pregnancy and childbirth with pelvic presentation. Classification of pelvic presentation. Diagnosis, pregnancy during pelvic presentation. Biomechanism of childbirth in pelvic presentation. Childbirth with pelvic presentation.
11. Contracted pelvis. Classification of a narrow pelvis. Diagnosis of a narrow pelvis. Features of pregnancy and childbirth with a narrow pelvis. Biomechanism of childbirth in various forms of pelvic narrowing. Childbirth with a narrow pelvis.
12. Features of childbirth with a large fetus. The course of the neonatal period with macrosomia.

13. Incorrect position of the fetus and means of its correction during pregnancy. Features of pregnancy and childbirth, childbirth in the wrong position of the fetus.
14. Anterior and posterior asynclitism. The course and conduct of childbirth.
15. High straight and low transverse position of the arrow-shaped seam. The course and conduct of childbirth.
16. Extension of the head (anterior, frontal, facial). The course and conduct of childbirth.
17. Anomalies of extraembryonic elements of the fertilized egg (placenta, amniotic membranes and umbilical cord). Polyhydramnios and dehydration.
18. Trophoblastic disease.
19. Polyhydramnios: causes, clinic, tactics of pregnancy, consequences for the fetus and newborn. The course of pregnancy with multiple fertility. Features of the course and management of childbirth in multiple pregnancies.
20. Methods of diagnosing the condition of the fetus (ultrasound, CTG, biophysical profile of the fetus, Doppler examination of the fetoplacental complex, amnioscopy, amniocentesis, chorionic biopsy, cordocentesis, cytogenetic and biochemical methods of examination of the fetus at different stages of pregnancy).
21. Hereditary and congenital diseases of the fetus. Diagnosis, prevention. The role of medical and genetic counseling.
22. Placental insufficiency. Etiology, pathogenesis. Methods of diagnosis of placental insufficiency. Treatment of placental insufficiency.
23. Fetal distress.
24. Fetal growth retardation.
25. Immunological incompatibility of maternal and fetal blood (rhesus conflict, incompatibility according to the ABO system, isoleukocyte, etc.). Pathogenesis, modern system of diagnosis and treatment.
26. Asphyxia of the newborn. Methods of intensive care and resuscitation of a newborn born in asphyxia.
27. Toxic and septic diseases of newborns. Etiology, clinic, diagnosis, prevention. Measures during outbreaks of toxic and septic diseases in the maternity hospital.
28. Supervision and treatment of a newborn who has suffered asphyxia, trauma, immunoconflict.

3.3. Individual tasks: preparation of presentations and reports on separate subtopics of classes, preparation of abstracts of reports and poster reports at the conference of young scientists.

4. DISCIPLINE POLICY

To achieve the goals of training and successfully complete the course, it is necessary: to join the work from the first day; attend lectures regularly; read the material in advance, before its consideration in a practical lesson; not to be late, do not be late and do not miss classes; come to the department dressed in a medical gown, have changeable shoes, notebook, pen; perform all necessary tasks and work every day; be able to work with a partner or in a group; ask for help and get it when you need it. Academic mobility, interchangeability of credit credits (volume of 1 credit of 30 hours) is provided. Applicants are not allowed to be late for practical classes. Omissions of practical classes are worked out hour by hour to the

teacher of group or the next teacher. Reception of tests and consultations are held daily from 15p.m. – 17p.m., according to the schedule of the department, or a group teacher. Applicants for higher education with special needs should meet with the teacher or warn him before the start of classes, at the request of the student it can be done by the head of the group. If you have any questions, please contact the teacher.

5. ACADEMIC INTEGRITY Applicants for higher education can discuss various tasks, but their implementation is strictly individual. You are not allowed to write off, use any kind of software, tips, use a mobile phone, tablet or other electronic gadgets during the lesson.

6. RECOMMENDED LITERATURE

Basic

1. Obstetrics and Gynecology: In two volumes. – Volume 1: Obstetrics: textbook / Group of authors, Edited by V.I. Gryshenko, M.O. Shcherbina. — K.: AUS Medicine Publishing, 2014. – 392 p.; Volume 2: Gynecology: textbook / Group of authors, Edited by V.I. Gryshenko, M.O. Shcherbina. — K.: AUS Medicine Publishing, 2014. – 352 p. and 8 color insets.

Additional

1. These "Clinical Protocols" are approved by the order of the Ministry of Health of Ukraine on obstetrics and gynecology.
2. Protocols for vagitnyh visokogo riziku: ed. J. T. Kvinas, D. Hobbins, K. Spong / McMillan Children Foundation / Helping Children Around the World
3. Effective antenatal caregiver: the master of the book / Collective of authors - K., 2012.

7. INFORMATION RESOURCES

Devotion to the side of primary discipline in MOODLE
<http://31.128.79.157:8083/course/index.php?categoryid=36>

Cathedral Library.

Repository of KhNMU: <http://repo.knmu.edu.ua/handle/123456789/135>