

MINISTRY OF HEALTH OF UKRAINE  
ODESA NATIONAL MEDICAL UNIVERSITY

Department of Obstetrics and Gynecology

**"APPROVED by"**  
Vice-rector for scientific and pedagogical work  
Eduard BURIACHKIVSKYI  
September «1», 2024

**WORKING PROGRAM ON DISCIPLINE  
"OBSTETRICS AND GYNECOLOGY"**

**Level of higher education: second (master's)**

**Field of knowledge: 22 "Health care"**

**Specialty: 221 "Dentistry"**

**Educational and professional program: Dentistry**

The work program is compiled on the basis of the educational and professional program "Dentistry" of training specialists of the second (master's) level of higher education in the specialty 221 "Dentistry" of the field of knowledge 22 "Health care", approved by the Scientific Council of ONMedU (protocol No. 10 of 27.06.2024).

Developers:

- Head of the department, Professor I.Z. Gladchuk.
- Professor A.G. Volyanska
- Associate Professor Z.V. Chumak
- Associate Professor G.L. Lavrynenko
- Assistant of Professor O. V. Zhovtenko
- Head of educational work of the department, Associate Professor N.A. Bykova

The work program was approved at the meeting of the Department of Obstetrics and Gynecology Protocol No1 dated 29.08.2024

Head of the department \_\_\_\_\_ Ihor GLADCHUK

Agreed with the guarantor of the educational and professional program \_\_\_\_\_ Anatoly GULYUK

Approved by the subject cyclical methodical commission for surgical disciplines of ONMedU Protocol No. 1 from 30.08.2024

Head of the subject cycle methodical commission for surgical disciplines of ONMedU

\_\_\_\_\_ Vasyi MISHCHENKO

Reviewed and approved at the meeting of the department

Protocol No. \_\_\_ of "\_\_\_" \_\_\_\_\_ 20\_\_

Head of the department \_\_\_\_\_ Ihor GLADCHUK

Reviewed and approved at the meeting of the department

Protocol No. \_\_\_ of "\_\_\_" \_\_\_\_\_ 20\_\_

Head of the department \_\_\_\_\_ Ihor GLADCHUK

## 1. Description of the academic discipline

Name of indicators	Field of knowledge, specialty, specialization, level of higher education	Characteristics of the academic discipline
The total number of: Credits: 1.0 Hours: 30	Field of knowledge: 22 "Health care" Specialty: 221 "Dentistry" Level of higher education the second (master's)	<i>Full-time education</i>
		<i>Compulsory discipline</i>
		<i>Year of training: 4</i>
		<i>Semesters VII-VIII</i>
		<i>Lectures (4 hours)</i>
		<i>Seminars (0 hours)</i>
		<i>Practical classes (14 hours)</i>
		<i>Laboratory work (0 hours)</i>
		<i>Independent student's work (12 hours) including individual tasks (0 hours)</i>
	<i>The form of final control is credit</i>	

## 2. The aim and tasks of the educational discipline, competences, program learning outcomes.

**The aim:** Acquisition by the student of higher education of knowledge and formation of elements of professional competences in the field of "obstetrics and gynecology", improvement of skills and competences acquired during the study of previous disciplines.

### The task:

1. Formation of abilities and skills in diagnosing pregnancy and providing assistance during physiological childbirth.
2. Acquisition of practical skills for providing emergency care for pre-eclampsia, eclampsia and "acute" abdomen in gynecology.
3. Acquisition of general and special competencies, program learning outcomes according to the requirements of the National Qualifications Framework (NQF)

**The process of studying the discipline is aimed at forming elements of the following competencies:**

### General (GC):

- GC 8. Ability to adapt and act in a new situation.  
GC 11. Ability to work in a team.

### Special (SC):

- SC1. Ability to collect medical information about the patient and analyze clinical data.  
SC3. Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.  
SC8. Ability to perform medical and dental manipulations.  
SC11. Ability to determine tactics, methods and provision of emergency medical assistance

### Program learning outcomes (PLO):

PLO1. Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using the previous data of the patient's history, the data of the patient's examination, knowledge about the person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2).

PLO2. Collect information about the patient's general condition, evaluate the patient's psychomotor and physical development, the condition of the maxillofacial organs, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 5).

PLO5. Establish a diagnosis of emergency conditions under any circumstances (at home, on the street, in a medical institution), in conditions of emergency, martial law, lack of information and limited time (according to list 4)

PLO10. Determine the tactics of managing a dental patient with somatic pathology (according to list 3) by making a reasoned decision according to existing algorithms and standard schemes.

PLO23. Perform emergency medical care manipulations using standard schemes under any circumstances based on the diagnosis of an emergency (according to list 4) in limited time (according to lists 6, 7).

**As a result of studying the academic discipline, the student of higher education should**

**Know:**

- To have the knowledge and ability to collect information about the patient's general condition, to evaluate the patient's psychomotor and physiological development and as a result of examination analyses.

- Have knowledge and ability to determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.

- Have knowledge to determine tactics, methods and provide emergency medical care.

**To be able:**

- Highlight and identify leading clinical symptoms and syndromes (according to list 1).

- Collect information about the general condition of the patient, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 5).

- Establish a diagnosis of emergency conditions under any circumstances, in conditions of emergency, martial law, lack of information and limited time (according to list 4).

- Determine the tactics of managing a dental patient during pregnancy (according to list 3), by making a reasoned decision according to existing algorithms and standard schemes.

- Perform manipulations of providing emergency medical care using standard schemes, under any circumstances based on the diagnosis of an urgent condition (according to list 4) in conditions of limited time (according to list 6).

**3.Content of the academic discipline**

**Obstetrics and gynecology**

**Topic 1.** Physiology of pregnancy. Methods of examination of pregnant women. Physiological changes in a woman's body during pregnancy. Hygiene and nutrition of a pregnant woman. Methods of examination of a pregnant woman: diagnosis of early and late stages of pregnancy. Topography of the fetus in the uterus. Management of physiological pregnancy. Preconception care.

**Topic 2.** Physiology of childbirth and the postpartum period. The preliminary period. Determination of the onset of labor. Biomechanisms of childbirth in the occipital anterior presentation. Clinical course of childbirth. Conducting childbirth. Evaluation of the newborn according to the Apgar scale. The primary toilet of a newborn, compliance with the thermal chain.

**Topic 3.** Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia. Early gestosis: classification, clinic, diagnosis, treatment. Hypertensive disorders during pregnancy. Preeclampsia: pathogenesis, classification, diagnosis, clinic, treatment. Eclampsia: clinic, diagnosis, complications, emergency care.

**Topic 4.** "Acute" abdomen in gynecology. Ectopic pregnancy, ovarian apoplexy. Classification, clinic, diagnosis, treatment.

#### 4. The structure of the academic discipline

Names of topics	The number of hours					
	Total	including				
		Lectures	Seminars	Practical classes	Laboratory work	Independent work
<b>Topic 1. Physiology of pregnancy. Methods of examination of pregnant women,</b>	7	1	0	4	0	2
<b>Topic 2. Physiology of childbirth and the postpartum period.</b>	9	1	0	4	0	4
<b>Topic 3. Early gestosis. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia.</b>	9	1	0	4	0	4
<b>Topic 4. "Acute" abdomen in gynecology</b>	7	1	0	2	0	2
<b>Credit</b>						
<b>Total: ECTS credits – 1.0; hours – 30.</b>	<b>30</b>	<b>4</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>12</b>

#### 5. Topics of lectures / seminars / practical / laboratory classes

##### 5.1. Topics of lectures

№	The title of the topic	Number of hours
1	<b>Lecture 1.</b> Topic 1-2. Physiological pregnancy and childbirth.	2
2	<b>Lecture 2.</b> Topic 3-4. Emergency conditions in obstetrics and gynecology (preeclampsia, eclampsia, "acute" abdomen in gynecology).	2
	<b>Total</b>	<b>4</b>

### 5.2. Topics of practical classes

№	The title of the topic	Number of hours
1	Topic 1. Practical lesson 1. Physiology of pregnancy. Physiological changes in a woman's body during pregnancy. Hygiene and nutrition of a pregnant woman.	2
2	Topic 1. Practical lesson 2. Methods of examination of a pregnant woman: diagnosis of early and late stages of pregnancy. Topography of the fetus in the uterus. Management of physiological pregnancy. Preconception care.	2
3	Topic 2. Practical lesson 3. Physiology of childbirth. The preliminary period. Determination of the onset of labor. Biomechanisms of childbirth in the occipital anterior presentation. Clinical course of childbirth. Conducting childbirth.	2
4	Topic 2. Practical lesson 4. Physiology of the postpartum period. Evaluation of the newborn according to the Apgar scale. The primary toilet of a newborn, compliance with the thermal chain.	2
5	Topic 3. Practical lesson 5. Early gestosis of pregnant women. Early gestosis: classification, clinic, diagnosis, treatment.	2
6	Topic 3. Practical lesson 6. Hypertensive disorders during pregnancy. Preeclampsia. Eclampsia. Hypertensive disorders during pregnancy. Preeclampsia: pathogenesis, classification, diagnosis, clinic, treatment. Eclampsia: clinic, diagnosis, complications, emergency care.	2
7	Topic 4. Practical session 7. "Acute" abdomen in gynecology. Ectopic pregnancy, ovarian apoplexy. Classification, clinic, diagnosis, treatment.	2
	<b>Credit</b>	
	<b>Total</b>	<b>14</b>

### 5.3. Topics of seminar classes

There are no seminar classes

### 5.4. Topics of laboratory classes

Laboratory classes are not provided

#### 4. Independent work of a student of higher education

	The title of the topic	Number of hours
1	Topic 1. Preparation for practical classes 1-2	2
2	Topic 2. Preparation for practical classes 3-4	4
3	Topic 3. Preparation for practical classes 5-6	4
4	Topic 4. Preparation for practical classes 7	2
	<b>Total</b>	<b>12</b>

#### 7. Teaching methods

**Lectures:** problematic, overview, conceptual and analytical.

**Practical classes:** conversation, role-playing, solving clinical situational problems, practicing skills in obstetrics and gynecology, examining patients, practicing manipulation skills, instructing and practicing skills on simulation dummies, direct work with the patient.

**Independent work:** independent work with recommended basic and additional literature, with electronic information resources, preparation of reporting documents and practice diary.

#### 8. Forms of control and evaluation methods (including criteria for evaluating learning outcomes)

**Current control:** oral survey, assessment of communication skills during role play, solving situational clinical tasks, assessment of activity in class.

**Final control:** credit.

Evaluation of the current educational activity in a practical lesson:

1. Evaluation of theoretical knowledge on the subject of the lesson:

- methods: survey, solving a situational clinical problem

- maximum score – 5, minimum score – 3, unsatisfactory score – 2.

2. Assessment of work with patients on the subject of the lesson:

- methods: assessment of: a) communication skills of communication with the patient b) the correctness of prescribing and evaluating laboratory and instrumental studies before using a contraceptive c) the ability to conduct family planning counseling.

- maximum score – 5, minimum score – 3, unsatisfactory score – 2.

The grade for one practical lesson is the arithmetic average of all components and can only have a whole value (5, 4, 3, 2), which is rounded according to the statistical method.

#### Criteria of ongoing assessment at the practical class

«5»	The student is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills and interprets the results of clinical, laboratory and instrumental studies, expresses his opinion on the topic, and demonstrates clinical thinking.
«4»	The student is well versed in the material, participates in the discussion and solution of situational clinical problems, demonstrates practical skills during the examination and interprets the results of clinical, laboratory and instrumental studies with some errors, expresses his opinion on the topic, and demonstrates clinical thinking.

«3»	The student does not have enough material, uncertainly participates in the discussion and solution of the situational clinical problem, demonstrates practical skills during the examination and interprets the results of clinical, laboratory and instrumental studies with significant errors.
«2»	The student does not have the material, does not participate in the discussion and solution of the situational clinical problem, and does not demonstrate practical skills during the examination and interpret the results of clinical, laboratory and instrumental studies.

Credit is given to the student who completed all tasks of the work program of the academic discipline, took an active part in practical classes, completed and defended an individual assignment and has an average current grade of at least 3.0 and has no academic debt. Assessment is carried out: at the last lesson before the beginning of the examination session - with the tape system of learning, at the last lesson - with the cycle system of learning. The credit score is the arithmetic mean of all components according to the traditional four-point scale and has a value that is rounded according to the statistics method with two decimal places after the decimal point.

### 9. Distribution of points received by students

The obtained average score for the academic discipline for students who have successfully mastered the work program of the academic discipline is converted from a traditional four-point scale to points on a 200-point scale, as shown in the table:

**Conversion table of a traditional assessment into a multi-point scale**

<b>National assessment for the discipline</b>	<b>The sum of points for the discipline</b>
Perfect «5»	185 – 200
Good «4»	151 – 184
Satisfactory «3»	120 – 150
Unsatisfactory «2»	<120

A multi-point scale (200-point scale) characterizes the actual success of each applicant in learning the educational component. The conversion of the traditional grade (average score for the academic discipline) into a 200-point grade is performed by the information and technical department of the University. According to the obtained points on a 200-point scale, the achievements of the students are evaluated according to the ECTS rating scale. Further ranking according to the ECTS rating scale allows you to evaluate the achievements of students from the educational component who are studying in the same course of the same specialty, according to the points they received. The ECTS scale is a relative-comparative rating, which establishes the applicant's belonging to the group of better or worse among the reference group of fellow students (faculty, specialty). An "A" grade on the ECTS scale cannot be equal to an "excellent" grade, a "B" grade to a "good" grade, etc. When converting from a multi-point scale, the limits of grades "A", "B", "C", "D", "E" according to the ECTS scale do not coincide with the limits of grades "5", "4", "3" according to the traditional scale. Acquirers who have received grades of "FX" and "F" ("2") are not included in the list of ranked acquirers. The grade "FX" is awarded to students who have obtained the minimum number of points for the current learning activity, but who have not passed the final examination. A grade of "F" is assigned to students who have attended all classes in the discipline, but have not achieved a grade point average (3.00) for the current academic activity and are not admitted to the final examination. Students who study in one course (one specialty), based on the number of points scored in the discipline, are ranked on the ECTS scale as



follows: Conversion of the traditional grade from the discipline and the sum of points on the ECTS scale

**Conversion of traditional assessment in the discipline and the amount of points on the ECTS scale**

<b>Assessment on the ECTS scale</b>	<b>Statistical indicator</b>
A	The best 10% of students
B	The next 25% of students
C	The next 30% of students
D	The next 25% of students
E	The next 10% of students

**10. Methodological provision**

- Working program of the academic discipline
- Syllabus
- Methodical developments for practical classes
- Materials for independent work of students of higher education
- -Multimedia presentations
- Situational clinical tasks and test tasks
- Scenarios of role-playing games (if necessary)

**11. List of theoretical questions from the discipline "Obstetrics and Gynecology"**

1. Physiological changes in a woman's body during pregnancy. Hygiene and nutrition of a pregnant woman.
2. Methods of examination of pregnant women. External and internal obstetric examination of pregnant women.
3. Topography of the fetus in the uterus. Determination of fetal lie, position and presentation of the fetus.
4. Maintenance of physiological pregnancy.
5. Biomechanism of childbirth in the occipital anterior presentation.
6. First period of labor (opening of the cervix of the uterus). Clinic, management.
7. Second stage of labor (childbirth periods) Their duration in prima and multipara woman.
8. The period of expulsion of the fetus. Clinic, management.
9. The third stage of labor (postnatal period). Signs of placental abruption. Clinic, follow-up period management (active management, conservative management tactics).
10. Evaluation of placenta integrity. Concept of physiological and pathological blood loss.
11. Psychoprophylactic analgesia for childbirth.
12. Clinic and management of the postpartum period.
13. The concept of breastfeeding. Advantages between breastfeeding and artificial feeding.
14. Evaluation of the newborn according to the Apgar scale.
15. Early gestosis. Classification. Clinic, diagnosis and treatment of early gestosis.
16. Hypertensive disorders during pregnancy, classification.
17. Preeclampsia, pathogenesis: classification, diagnosis, clinic, treatment, management tactics, prevention.
18. Eclampsia: clinic, diagnosis, complications, management tactics, emergency care algorithm.
19. Ectopic pregnancy. Clinic, diagnostics, management, emergency care.
20. Ovarian apoplexy. Clinic, diagnostics, management.

## 12. Recommended literature

### Basic:

1. Williams Manual of Obstetrics (24th Ed) F. G. Cunningham, K. J. Leveno, S. L. Bloom, C. Y. Spong, J. S. Dashe, B. L. Hoffman, B. M. Casey, J. S. Sheffield, McGraw-Hill Education/Medical. – 2014. – 1377 pp.
2. DC Dutta's Clinics in Obstetrics / edited by Hiralal Konar- 2021- 306 pp.
3. Llewellyn-Jones Fundamentals of Obstetrics and Gynaecology (10th Ed). Jeremy Oats, Suzanne Abraham. Elsevier. 2016. – 384 pp.
4. The FIGO Textbook of Pregnancy Hypertension. An evidence-based guide to monitoring, prevention and management. L. A. Magee, P. Dadelszen, W. Stones, M. Mathai (Eds), The Global Library of Women's Medicine. – 2016. – 456 pp.
6. Mayo Clinic Guide to a Healthy Pregnancy. (2nd Ed) Myra J. Wick / ebook- 2018. – 946 pp.
5. Clinical Obstetrics and Gynaecology: 4th Edition/ Brian A. Magowan, Philip Owen, Andrew Thomson. - 2018. – 416 pp.
6. Gynecologic Health Care: With an Introduction to Prenatal and Postpartum Care: With an Introduction to Prenatal and Postpartum Care 4th Edition / K. D. Schuiling, F. E. Likis – 2020/- 500 pp.
7. Oats, Jeremy Fundamentals of Obstetrics and Gynaecology [Text]: Llewellyn-Jones Fundamentals of Obstetrics and Gynaecology / J.Oats, S.Abraham. – 10th ed. – Edinburgh [etc.]: Elsevier, 2017. – VII, 375 p.
8. Obstetrics: Normal and Problem Pregnancies, 7th Edition S. Gabbe, J. R. Niebyl, J. L. Simpson, M. B. Landon, H. L. Galan, E. R. M. Jauniaux, D. A. Driscoll, V. Berghella and W. A. Grobman, Elsevier. – 2017. – 1320 pp.
9. Obstetrics and Gynecology : in 2 vol. : textbook. Vol. 1. Obstetrics / V.I. Gryshchenko, M.O. Shcherbina, B.M. Ventskiivskiyi et al. ; edited by V.I. Gryshchenko, M.O. Shcherbina. — 2nd edition. — K. : AUS Medicine Publishing, 2018. — 392 p.
10. Oxford Textbook of Obstetrics and Gynaecology / edited by Sabaratnam Arulkumaran, William Ledger et al/ - 2020- 2546 pp.

### Additional:

1. Obstetrics: Normal and Problem Pregnancies, 7th Edition S. Gabbe, J. R. Niebyl, J. L. Simpson, M. B. Landon, H. L. Galan, E. R. M. Jauniaux, D. A. Driscoll, V. Berghella and W. A. Grobman, Elsevier. – 2017. – 1320 pp.
2. Obstetrics by Ten Teachers (20th ed) Louise C. Kenny, Jenny E. Myers. – CRC Press. – 2017. – 342 pp.
3. Current Progress in Obstetrics and Gynaecology. Vol 4. Eds. J. Studd, Seang Lin Tan, F. Chervenak. – 2017. – 419 pp.
4. Recent Advances in Obstetrics and Gynaecology. Vol 26. W. Ledger, J. Clark. – JP Medical. – 2015. – 230 pp.
5. Proactive Support of Labor. Reuwer P., Bruinse H., Franx A. – 2015. – 216 pp.
6. The model of screening for preeclampsia in the second and third trimesters of gestation / L. Berlinska, V. Marichereda, O. Rohachevskiyi, A. Volyanska, G. Lavrynenko // Electronic Journal of General Medicine. - 2023 - 20(3), em473, <https://www.ejgm.co.uk/>
7. Current "Clinical protocols", approved by order of the Ministry of Health of Ukraine for Obstetrics and Gynecology.

## 13. Electronic information resources

1. <https://www.cochrane.org/>

2. <https://www.ebcog.org/>
3. <https://www.acog.org/>
4. <https://www.uptodate.com>
5. <https://online.lexi.com/>
6. <https://www.ncbi.nlm.nih.gov/>
7. <https://pubmed.ncbi.nlm.nih.gov/>
8. <https://www.thelancet.com/>
9. <https://www.rcog.org.uk/>
10. <https://www.npwh.org/>
11. <http://www.aagu.com.ua/> асоціація акушер-гінекологів України