

**MINISTRY OF HEALTH OF UKRAINE
ODESA NATIONAL MEDICAL UNIVERSITY**

**Faculty of medicine, international
Department of obstetrics and gynecology**

**Syllabus in the elective discipline
"Simulation training in obstetrics and gynecology»**

Scope of the academic discipline	Total hours per discipline: 90 hours, 3.0 credits. Semesters: IX-X 5th year of study.
Days, time, place of educational discipline	According to the schedule of classes. Department of Obstetrics and Gynecology. Auditoriums of the Department of Obstetrics and Gynecology Odesa, str. Pasteur, 9
Teacher(s)	Gladchuk I.Z., PhD, professor, leader of the department Nastradina N.M., PhD, associate professor. Nadvorna O.M., PhD, associate professor. Kozhushar A.V., PhD, associate professor.
Contact Information	Contact by phone: Bykova N.A. ass. professor, head of the educational part of the department, 0976431180 E-mail: natalia.bykova@onmedu.edu.ua (048) 723-29-01 - department of obstetrics and gynecology - Litvin Christina, assistant of the department. Face-to-face consultations: from 2:00 p.m. to 5:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday. On-line - consultations: from 4:00 p.m. to 6:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday. A link to online counseling is provided to each group during classes separately.

COMMUNICATION

Communication with applicants will be conducted in the classroom (face-to-face). During distance learning, communication is carried out through the Microsoft Teams platform. Communication can also be carried out using E-mail. At the same time, it

is necessary to indicate your surname, first name, course, faculty and course name. Solving "work issues" is possible at the specified phone number.

ABSTRACT OF THE EDUCATIONAL DISCIPLINE

The subject of the discipline "Simulation training in obstetrics and gynecology" is methods of clinical and instrumental diagnostics and assessment of examination results gynecological patients, pregnant women, women in labor, childbirth and breastfeeding women, as well as methods of providing assistance in childbirth.

Course prerequisites: the discipline is mandatory and is based on students' study of such fundamental disciplines as human anatomy, physiology, microbiology, virology and immunology, general surgery (with operative surgery and topographic anatomy) and is integrated with surgery, oncology.

Postrequisites: lays the foundations for the study of family medicine and emergency medicine, which involves the integration of teaching with these disciplines and the formation of skills to apply knowledge of obstetrics and gynecology in the process of further education and professional activity.

The purpose of the course "Simulation training in obstetrics and gynecology" is to consolidate and deepen the theoretical knowledge obtained by the student of higher education in the process of studying the discipline, forming elements of professional competences, practicing skills and abilities in the discipline "obstetrics and gynecology".

Tasks of the discipline:

1. Practical training of students of higher education using modern equipment, including simulation.
2. Mastery of medical manipulations in gynecology.
3. Mastery of medical manipulations in obstetrics.

Expected results.

As a result of studying the academic discipline, the student must:

Know:

- Methods of performing medical manipulations of the obstetric and gynecological profile (according to list 5).

Be able:

- Collect data on the patient's complaints, medical history, life history, evaluate information about the diagnosis using a standard procedure, based on the results of laboratory and instrumental studies.

- Determine the list of necessary clinical laboratory and instrumental studies and evaluate their results (list 4).

- Perform medical manipulations (according to list 5).

- Keep medical records.

DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

Forms and methods of education

The course will be taught in the form of practical classes (30 hours), organization of students' independent work (60 hours).

The teaching methods, according to the curriculum, are:

- Practical classes: working out the methodology of performing practical skills in the simulation training room, determining the list of necessary one's clinical laboratory and instrumental studies and evaluation of their results.

- Independent work: independent work in the simulation study room.

Content of the academic discipline

Topic 1. Clinical examination of mammary glands

Methods of examination and palpation of a woman's mammary glands: signs of benign neoplasms and malignant diseases. Changes in the mammary gland during pregnancy and lactation.

Topic 2. Examination of the cervix in mirrors. Collection of material for bacterioscopy, bacteriological and cytomorphological research.

The technique of conducting research in mirrors using a vaginal double-bladed mirror (Cusco) and spoon-shaped (Sims) mirrors. Assessment of the condition of mucous membranes, the vaginal part of the cervix, the external eye of the cervix and secretions in various gynecological pathologies and pregnancy. Methods of sampling material for bacterioscopy, bacteriological, cytomorphological research. Liquid cytology. Smudge-imprint.

Topic 3. Bimanual vaginal examination.

Types of bimanual examination: vaginal-abdominal, rectal-abdominal, vaginal-rectal-abdominal. Methods of performing bimanual research. Internal obstetric examination in pregnant women.

Topic 4. Measurement and evaluation of the dimensions of the female pelvis.

Pelvimetry's technique (external and internal). Evaluation of the size of the female pelvis. Measurement of additional dimensions. Definition of the true conjugate.

Topic 5. External obstetric examination, determination and evaluation of the topography of the fetus in the uterus. Auscultation of the fetus. CTG.

Methods of external obstetric examination (Leopold's techniques). Determination of the location of the fetus in the uterus: position, position, type, presentation and location of the anterior part of the fetus in relation to the entrance to the pelvis. Measurement of the circumference of the abdomen and the height of the bottom of the uterus, calculation of the estimated weight of the fetus. Determination of the location of the point for auscultation of the fetal heartbeat. Cardiotocography. Evaluation criteria of cardiotocography results: normal variant, marked tachycardia, marked bradycardia, monotonous rhythm, late decelerations.

Topic 6. Providing manual assistance during physiological childbirth.

Assessment of opening of the cervix and descent of the fetal head. Amniotomy. Providing manual assistance in the 2nd period of childbirth. Episiotomy, perineotomy. Active management of the 3rd stage of labor, signs of separation of a normally located placenta. Evaluation of the integrity of the placenta. An objective method of measuring the volume of blood loss. Inspection of the birth canal after childbirth. Partogram.

Topic 7. Providing manual assistance during childbirth with pelvic presentation.

Assessment of opening of the cervix and descent of the buttocks (legs) of the fetus. Techniques for providing assistance for purely breech presentation of the fetus (Tsovyanov I), manual assistance techniques for leg presentations (Tsovyanov II). Head release technique. Partogram.

List of recommended literature:

Basic:

1. Gladchuk I.Z. Obstetrics: student's book / Gladchuk I.Z., Ancheva I.A. . – Vinnitsia: Nova Knyha, 2021. – 288 p.
2. Simulated patient : a textbook / O. P. Rogachevskyi, M. P. Pervak, O. S. Yehorenko et al. ; ed. by professor Valeriia Marichereda. – Odesa : Oldi+, 2023. – 100 c
3. Obstetrics and Gynecology: in 2 volumes. Volume 1. Obstetrics: textbook / V.I. Gryshchenko, M.O. Shcherbina, B.M. Ventskiivskyi et al. (2nd edition). – «Medicina», 2018. – 392 p.
4. Hiralal Konar DC Dutta's Textbook of Obstetrics (9th Ed.) / Hiralal Konar (Ed.). – Jp Medical Ltd, 2018. – 700 p.
5. F. Gary Cunningham Williams Obstetrics (26th Edition) / F. Gary Cunningham, Kenneth Leveno, Jodi Dashe, Barbara Hoffman, Catherine Spong, Brian Casey. – McGraw Hill / Medical, 2022. – 1328 p.

6. Jeremy Oats, Suzanne Abraham Llewellyn-Jones Fundamentals of Obstetrics and Gynaecology (10th Ed) / Jeremy Oats, Suzanne Abraham. – Elsevier, 2016. – 384 p.

Additional:

1. Clinical obstetrics and gynecology: Education. help.: trans. 4th Eng. view. / Brian A. Magowan, Philip Owen, Andrew Thomson; Ed. of Sciences trans. Mykola Shcherbyna. — K., 2021. — X, 454 p., tv. pal., (art. 4 pr.).
2. Oats, Jeremy Fundamentals of Obstetrics and Gynaecology [Text]: Liewellyn-Jones Fundamentals of Obstetrics and Gynaecology / J.Oats, S.Abraham. – 10th ed. – Edinburgh [etc.]: Elsevier, 2017. – VII, 375 p.
3. Zaporozhian V.M. Simulation medicine. Experience. Zaporozhian, O.O. Tarabrin. - Sumy: University. Book, 2018. – 240 p. Order №.. 1437 dated August 09.08.2022 "Physiology pregnancy
4. Order №..170 dated 26.01.2022 Clinical protocol for obstetric care "Normal childbirth".
5. Ian M. Symonds, Sabaratnam Arulkumaran Essential Obstetrics and Gynaecology, 6th Edition / Ian M. Symonds, Sabaratnam Arulkumaran. – Elsevier, 2020. – 480 pp.
6. Myra J. Wick Mayo Clinic Guide to a Healthy Pregnancy, 2nd Edition / Myra J. Wick. – Mayo Clinic Press, 2018. – 520 p.

Internet sources:

1. <https://www.cochrane.org/> - Cochrane / Cochrane Library
2. <https://www.acog.org/> - The American College of Obstetricians and Gynecologists
3. <https://www.uptodate.com> – UpToDate
4. <https://online.lexi.com/> - Wulters Kluwer Health
5. <https://www.ncbi.nlm.nih.gov/> - National Center for Biotechnology Information
6. <https://pubmed.ncbi.nlm.nih.gov/> - National Library of Medicine
7. <https://www.thelancet.com/> - The Lancet
8. <https://www.rcog.org.uk/> - Royal College of Obstetricians & Gynecologists
9. <https://www.npwh.org/> - Nurse practitioners in women's health
10. <http://moz.gov.ua> – Ministry of Health of Ukraine
11. www.ama-assn.org – American Medical Association
12. www.who.int - World Health Organization
13. www.dec.gov.ua/mtd/home/ - State Expert Center of the Ministry of Health of Ukraine
14. <http://bma.org.uk> – British Medical Association
15. www.gmc-uk.org - General Medical Council (GMC)
16. www.bundesaerztekammer.de – German Medical Association
17. www.euro.who.int - European Regional Office of the World Health Organization

EVALUATION

Current control: oral survey, assessment of performance of practical skills, assessment of communication skills for solving situational clinical tasks, assessment of activity in class.

Final control : oral differentiated assessment.

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
 - the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2
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2. Evaluation of work with patients on the subject of the lesson:
 - methods: assessment of: a) communication skills of communicating with the patient, b) the correctness of prescribing and evaluating laboratory and instrumental studies, c) compliance with the differential diagnosis algorithm, d) substantiation of the clinical diagnosis, e) drawing up a treatment plan;
 - the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2
 - .

The grade for one practical session 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.

Current evaluation criteria in practical training

Rating	Evaluation criteria
Perfectly "5"	The student is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills during the examination of a pregnant woman and the interpretation of clinical, laboratory and instrumental research data, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
Fine "4"	The student has a good command of the material, participates in the discussion and solution of a situational clinical problem, demonstrates practical skills during the examination of a pregnant woman and the interpretation of clinical, laboratory and instrumental research data with some errors, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
Satisfactory "3"	The acquirer does not have sufficient knowledge of the material, is unsure of participating in the discussion and solution of a

	situational clinical problem, demonstrates practical skills during the examination of a pregnant woman and the interpretation of clinical, laboratory and instrumental research data with significant errors.
Unsatisfactory "2"	The acquirer does not possess the material, does not participate in the discussion and solution of the situational clinical problem, does not demonstrate practical skills during the examination of a pregnant woman and the interpretation of clinical, laboratory and instrumental research data.

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.

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

National assessment for the discipline	The sum of points for the discipline
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

Assessment on the ECTS scale	Statistical indicator
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

INDEPENDENT WORK OF APPLICANTS FOR HIGHER EDUCATION

Independent work involves preparing for each lesson, writing essays on the topics of missed classes.

EDUCATIONAL DISCIPLINE POLICY

Deadlines and Rescheduling Policy. All missed classes must be made up. Practical classes are completed according to the consultation schedule.

Applicants do not have the right to recompile current satisfactory and unsatisfactory grades in order to increase the arithmetic average of all current grades.

Applicants for higher education have the right during the semester to retake current unsatisfactory grades only in order to achieve a current grade point average of 3.00.

Academic Integrity Policy:

Observance of academic integrity by students of education involves:

- independent performance of educational tasks, tasks of current and final control of learning results (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);
- references to sources of information in the case of using ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- provision of reliable information about the results of one's own (scientific, creative) activity, used research methods and sources of information.

Unacceptable in educational activities for participants of the educational process are:

- the use of family or official ties to obtain a positive or higher grade during any form of control of learning outcomes or advantages in scientific work;
- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-earphones, telephones, smartphones, tablets, etc.) during control measures;
- passing procedures for control of training results by fake persons.

For violation of academic integrity, students may be held to the following academic responsibility:

- decrease in the evaluation results of the control work, exam, credit, etc.;
- repeated assessment (test, exam, credit, etc.);
- appointment of additional control measures (additional individual tasks, control works, tests, etc.);
- repeating the corresponding educational component of the educational program;
- conducting an additional inspection of other works authored by the violator;
- deprivation of the right to participate in contests for receiving scholarships, grants, etc.;
- notification of the entity that finances training (conducting scientific research), the institution that issued the grant for training (research), potential employers, parents of the student of higher education about the committed violation;
- exclusion from the rating of applicants for receiving an academic scholarship or the calculation of penalty points in such a rating;
- deprivation of an academic scholarship;
- deprivation of tuition benefits provided by the University;
- expulsion from the University

Attendance and Tardiness Policy. A student of higher education should not miss lectures and practical classes, the teacher should be informed in advance about absence for valid reasons, lateness is not desirable.

Mobile devices. It is not allowed to use a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher).

Behavior in the audience. Creative, business, friendly atmosphere.