

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

Department of Obstetrics and Gynaecology

**APPROVED**

Vice-rector for scientific and pedagogical work

 Eduard BURIACHKIVSKIY

September 1st, 2025



**WORK PROGRAM ON THE ELECTIVE DISCIPLINE**  
**«ULTRASOUND DIAGNOSTICS IN OBSTETRICS AND GYNECOLOGY»**

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

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

**Specialty:** 222 "Medicine"

**Educational and professional program:** Medicine

**2025**

The work program is composed on the basis of the educational and professional program "Medicine" for the training of specialists of the second (master's) level of higher education on the specialty 222 "Medicine" of the field of knowledge 22 "Health care", approved by the Academic Council of ONMedU from 27.06.2024 (protocol № 10).

Developers: Head of the department, Doctor of Medicine, Professor Ihor Gladchuk, Doctor of Medicine, Professor Alla Volyanska, Ph.D., assistant of the department Yulia Onyshchenko.


The work program was discussed at the meeting of the Department of Obstetrics and Gynaecology, 27.08.2025, protocol №1

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

Approved by the guarantor of the educational and professional program \_\_\_\_\_  Valeriia MARICHEREDA

Approved by the subject-cycle methodological commission on surgical disciplines of ONMedU

Protocol № 1 dated 28.08.2025

Head of the subject-cycle methodological commission on surgical disciplines of ONMedU \_\_\_\_\_  Vasyl MISHCHENKO

Revised and approved at the meeting of the Department of Obstetrics and Gynaecology

Protocol № \_\_\_\_\_ dated \_\_/\_\_/20\_\_.

Head of the Department \_\_\_\_\_ Ihor GLADCHUK

Revised and approved at the meeting of the Department of Obstetrics and Gynaecology

Protocol № \_\_\_\_\_ dated \_\_/\_\_/20\_\_.

Head of the Department \_\_\_\_\_ Ihor GLADCHUK

## 1. Description of the discipline:

Name of indicators	Field of knowledge, specialty, specialization, level of student	Characteristics of the discipline
Total number:	Field of knowledge 22 «Health care»	<i>Full-time (day) education</i> <i>Elective discipline</i>
Credits of ECTS: 3	Specialty 222 «Medicine»	<i>Course: 6</i>
Hours: 90	Level of student second (master's degree)	<i>Semester: XI-XII</i> <i>Lectures (0 hours)</i> <i>Seminars (0 hours)</i> <i>Practical classes (30 hours)</i> <i>Laboratories (0 hours)</i> <i>Independent work (60 hours)</i> <i>including individual tasks (0 hours)</i> <i>Form of final control – Credit Test</i>

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

**Purpose:** Deepening of theoretical knowledge and mastering of practical skills in the field of ultrasound diagnostics in obstetrics and gynecology practice.

### Task:

1. Acquaintance of students with modern ultrasound research methods in obstetrics and gynecology.

2. Practical training of students with the use of modern equipment mastering the techniques of conducting abdominal and transvaginal ultrasound.

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

### General competencies (GC):

GC 1. Ability to abstract thinking, analysis and synthesis

GC 2. Ability to know and understand the subject and professional activity.

GC 3. Ability to apply knowledge in practical situations

GC 4. Knowledge and understanding of the subject area and understanding of professional activity

GC 5. Ability to adapt and act in a new situation

GC 6. Ability to make reasonable decisions

GC 7. Ability to work in a team

GC 8. Ability to interpersonal interaction

GC 9. Ability to make decisions based on the basis of ethical considerations, socially responsible and consciously.

GC 10. Ability to be aware of equal opportunities and gender issues; value and respect diversity and multiculturalism.

GC 11. Ability to search, process and analyze information from various sources

GC 12. Determination and persistence in relation to assigned tasks and assumed responsibilities

GC 13. Awareness of equal opportunities and gender issues

GC 14. The ability to realize one's rights and responsibilities as a member of society, to be aware of the values of a public (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine

GC 15. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle

GC 16. Ability to evaluate and ensure the quality of the work performed.

**Special (professional, subject) competencies (SC):**

SC 1. Ability to collect medical information about the patient and analyze clinical data

SC 2. Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results

SC 3. Ability to establish a preliminary and clinical diagnosis of the disease

SC 5. Ability to determine the nature of nutrition in the treatment and prevention of diseases

**Program learning outcomes(PLO):**

PLO 1. Having a thorough knowledge of the structure of professional activity. Being able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy.

PLO 2. Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient for solving professional tasks in the field of health care.

PLO 3. Specialized conceptual knowledge that includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems, including an early intervention system.

PLO 5. Collecting complaints, history of life and diseases, assessing the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluation of the information regarding the diagnosis (according to list 4), taking into account the age of the patient.

PLO 21. Searching for the necessary information in the professional literature and databases of other sources, analyzing, evaluating and application of this information.

PLO 27. Communicate fluently in the state language and in English, both orally and in writing to discuss professional activities, research and projects.

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

**Know:**

- principles and methods of ultrasound research in obstetrics and gynecology.

**Be able:**

- to obtain a medical history of a patient, including important information about current and past concerns, family history

- to evaluate information about the diagnosis using a standard procedure, based on the results of laboratory and instrumental studies

- to describe the leading clinical symptom or syndrome (list 1)

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

- to use the skills of communication and clinical examination of the patient

**3. The content of the discipline**

**Topic 1. Fundamentals of ultrasound diagnostics of pelvic organs in gynecology.**

Ultrasound picture of normal anatomy and biometrics of the pelvic organs. Dynamics of the Echo map of the state of the uterus and ovaries during the menstrual cycle. Ultrasound features of the uterus and ovaries in the postmenopausal period. Ultrasound diagnostics of congenital malformations. Ultrasound picture of vaginal abnormalities. Ultrasound criteria for doubling the uterus and vagina. Ultrasound picture of the saddle uterus and T-shaped uterus

**Topic 2. Ultrasound diagnostics of benign uterine neoplasms.**

Ultrasound topography and biometrics of uterine fibroids, FIGO classification. Features of the echostructure of myomatous nodes. Possibilities and feasibility of using dopplerometry and visualization of blood flow of myomatous nodes and uterine vessels. Ultrasound criteria for endometrial hyperplastic processes.

**Topic 3. Ultrasound diagnostics of benign ovarian neoplasms.**

Ultrasound criteria for benign ovarian tumors. Differential ultrasound diagnostics of neoplasms of uterine appendages.

**Topic 4. Ultrasound diagnostics of emergency conditions in gynecological practice.**

Ultrasound signs and criteria of various forms of ectopic pregnancy. Dopplerogafia in ectopic pregnancy. Ovarian apoplexy. Torsion of the ovarian tumor leg. Pelvioperitonitis. Necrosis of myomatous nodes.

**Topic 5. Features of ultrasound diagnostics in patients with infertility.**

Methods of folliculometry and assessment of the state of the ovarian reserve. Features of multifollicular ovarian echostructure in polycystic ovary syndrome. Ultrasound signs of adenomyosis, endometrioid ovarian cysts. Ultrasound of distal tubal occlusion (hydrosalpinx).

**Topic 6. Ultrasound diagnostics in obstetrics.**

Features of ultrasound diagnostics of pregnancy of different periods. Ultrasound assessment of the viability of the uterine scar. Assessment of the state of the FETO-placental complex.

**Topic 7. Ultrasound assessment of markers of congenital pathology during pregnancy screenings.**

Ultrasound characteristics and assessment of markers of congenital pathology during the first (11-14 weeks) and second screening (19-22 weeks) of pregnancy, the third screening (30-32 weeks).

**Topic 8. Ultrasound assessment of the intrauterine state of the fetus.**

Ultrasound parameters for assessing fetal maturity. Fetal biophysical profile, amniotic fluid Index assessment, placentometry. Features of fetometry after 36 weeks of pregnancy. Dopplerometry in obstetrics.

**3. Structure of the study subject**

	<b>Number of hours</b>
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Topic names	In all	Including				
		Lectures	Seminars	Practical classes	Laboratory classes	Student's independent work
Topic 1. Fundamentals of ultrasound diagnostics of pelvic organs in gynecology.	12			6		6
Topic 2. Ultrasound diagnosis of benign tumors of the uterus.	12			4		8
Topic 3. Ultrasound diagnosis of benign tumors of the ovaries.	12			4		8
Topic 4. Ultrasound diagnosis of emergency conditions in gynecological practice.	12			4		8
Topic 5. Features of ultrasound diagnostics in patients with infertility.	12			4		8
Topic 6. Ultrasound diagnostics in obstetrics.	12			4		8
Topic 7. Ultrasound assessment of markers of congenital pathology during pregnancy screenings.	10			2		8
Topic 8. Ultrasound evaluation of the intrauterine state of the fetus.	8			2		6
<b>Credit</b>						
<b>Total:</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>60</b>

## 5. Topics of lectures

### 5.1. Topics of lectures

Lectures are not provided by the curriculum.

### 5.2. Topics of practical classes

№	Topic	Hours
1.	Topic 1. Practical class 1.	2

	Fundamentals of ultrasound diagnostics of pelvic organs in gynecology. Ultrasound picture of normal anatomy and biometry of pelvic organs.	
2.	Topic 1. Practical class 2. Dynamics of the ultrasound picture of the of the uterus and ovaries during the menstrual cycle. Ultrasound features of the state of the uterus and ovaries in the postmenopausal period.	2
3.	Topic 1. Practical class 3. Ultrasound diagnosis of congenital malformations. Ultrasound picture of vaginal abnormalities. Ultrasound criteria for doubling the uterus and vagina. Ultrasound picture of a saddle-shaped uterus and a T-shaped uterus.	2
4.	Topic 2. Practical class 4. Ultrasound diagnosis of benign tumors of the uterus. Ultrasound topography and biometry of uterine fibroids, FIGO classification. Peculiarities of the echostructure of myomatous nodes.	2
5.	Topic 2. Practical class 5. Ultrasound criteria of hyperplastic processes of the endometrium. Possibilities and expediency of using dopplerometry and blood flow visualization of myomatous nodes and uterine vessels.	2
6.	Topic 3. Practical class 6. Ultrasound diagnosis of benign ovarian tumors. Ultrasound criteria of benign ovarian tumors.	2
7.	Topic 3. Practical class 7. Differential ultrasound diagnosis of ovarian tumors.	2
8.	Topic 4. Practical class 8. Ultrasound diagnosis of emergency conditions in gynecological practice. Ultrasound signs and criteria of various forms of ectopic pregnancy. Doppler imaging during ectopic pregnancy.	2
9.	Topic 4. Practical class 9. Ovarian apoplexy. Torsion of the pedicle of the ovarian tumor. Pelvioperitonitis. Necrosis of myomatous nodes.	2
10.	Topic 5. Practical class 10. Features of ultrasound diagnostics in patients with infertility. Methodology of folliculometry and assessment of ovarian reserve.	2
11.	Topic 5. Practical class 11. Peculiarities of multifollicular echostructure of ovaries in case of polycystic ovary syndrome. Ultrasound signs of adenomyosis, endometrioid ovarian cysts. Ultrasound of distal tubal occlusion (hydrosalpinx).	2
12.	Topic 6. Practical class 12. Ultrasound diagnostics in obstetrics. Features of ultrasound diagnostics of pregnancy of different terms.	2
13.	Topic 6. Practical class 13. Ultrasound evaluation of the capacity of the scar on the uterus. Assessment of the condition of the feto-placental complex.	2
14.	Topic 7. Practical class 14. Ultrasound assessment of markers of congenital pathology during pregnancy screenings. Ultrasound characteristics and assessment of markers of congenital pathology during the first (11-14 weeks) and second screening (19-22 weeks) of pregnancy, third screening (30-32 weeks).	2



15.	Topic 8. Practical class15. Ultrasound assessment of the fetal state of the fetus. Ultrasound parameters for assessing fetal maturity. Biophysical profile of the fetus, evaluation of the amniotic fluid index, placentometry. Peculiarities of fetometry after 36 weeks of pregnancy. Dopplerometry in obstetrics. Training.	2
	<b>Credit</b>	
	<b>Total</b>	<b>30</b>

### 5.3. Topics of seminar classes

Seminar classes are not provided by the curriculum.

### 5.4. Topics of laboratory classes

Laboratory classes are not provided by the curriculum.

## 6. Independent work of a student

<b>№ p/p</b>	<b>Types of independent work of students</b>	<b>Number of hours</b>
1	Topic 1. Preparation for practical classes 1-2-3	6
2	Topic 2. Preparation for practical classes 4-5	8
3	Topic 3. Preparation for practical classes 6-7	8
4	Topic 4. Preparation for practical classes 8-9	8
5	Topic 5. Preparation for practical classes 10-11	8
6	Topic 6. Preparation for practical classes 12-13	8
7	Topic 7. Preparation for practical classes 14	8
8	Topic 8. Preparation for practical classes 15	6
	<b>Hours in general</b>	<b>60</b>

## 7. Teaching methods

Teaching methods, according to the curriculum are: a) practical classes; b) independent work of students.

**Practical classes** are conducted on clinical bases with the use of modern technical teaching aids; interactive teaching methods: role play, standardized patient method, use of video library on obstetrics and gynecology, simulators, practice of practical skills of manipulations according to list 5 in the simulation training room, solving clinical situational problems, curation of pregnant women / mothers / parturient.

**Independent work of the student** independent work with the textbook, independent solution of clinical problems.

## 8. Forms of control and assessment methods



**(including criteria for evaluating learning outcomes)**

**Current control:** oral examination, assessment of practical skills, solving situational clinical problems, assessment of activity in the classroom.

**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
  - the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2 .
2. Evaluation of practical skills and manipulations on the subject of the lesson:
  - methods: assessment of the correctness of the performance of practical skills
  - the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2 .
3. 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**

«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 sick child and interpretation of clinical, laboratory and instrumental studies, expresses his opinion on the topic, 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 of a sick child and interpretation of clinical, laboratory and instrumental studies with some errors, expresses his opinion on the topic, 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 of a sick child and interpretation 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, does not demonstrate practical skills during the examination of a sick child and the interpretation 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 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 '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 support

- Working program of the education discipline
- Syllabus
- Methodological recommendations for seminar classes
- Materials for independent work of students
- Multimedia presentations
- Situational clinical tasks and test tasks

Educational and methodical literature:

1. Bender Atik R, Christiansen OB, Elson J, Kolte AM, Lewis S. et al. ESHRE guideline: recurrent pregnancy loss. Hum Reprod Open 2018; doi: 10.1093/hropen/hoy004. PMID: 31486805; PMCID: PMC6276652.
2. Di Spiezio Sardo A, Campo R, et al. The comprehensiveness of the ESHRE/ESGE classification of female genital tract congenital anomalies: a systematic review of cases not classified by the AFS system. Human Reproduction 2015; May; 30(5):1046–1058. DOI: 10.1093/humrep/dev061
3. Pfeifer S, Butts S, Dumesic D, et al. Uterine septum: a guideline. Fertil Steril. 2016;106(3):530-40. doi:10.1016/j.fertnstert.2016.05.014.

## 11. List of questions for the exam

1. Ultrasound picture of normal anatomy and biometry of pelvic organs.
2. Specialty of changes in the ultrasound image of the uterus and ovaries during the first phase of menstrual cycle.
3. Features of changes in the ultrasound image of the uterus and ovaries during the second phase of menstrual cycle.
4. Ultrasound peculiarity of the uterus and ovaries state during postmenopausal period.
5. Ultrasound diagnosis of congenital malformations, classification according to ESHRE.
6. Ultrasound picture of vaginal abnormalities.
7. Ultrasound criteria for doubling the uterus and vagina.
8. Ultrasound picture of a saddle-shaped uterus and a T-shaped uterus
9. Ultrasound topography and biometry of uterine fibroids, FIGO classification.
10. Features of the ultrasound picture of myomatous nodes.
11. Basic dopplerometric criteria of blood flow of myomatous nodes and uterine vessels.
12. Ultrasound criteria of endometrial hyperplastic processes.
13. Ultrasound criteria for benign ovarian tumors.
14. Differential ultrasound diagnosis of the ovarian tumors.
15. Ultrasound signs of various forms of ectopic pregnancy.
16. Doppler criteria for ectopic pregnancy.
17. Ultrasound features of ovarian apoplexy.
18. Ultrasound signs of ovarian tumor torsion.
19. Ultrasound indications of Pelvioperitonitis.
20. Ultrasound characteristics and dopplerometric criteria of necrosis of myomatous node.
21. Method of performing folliculometry and assessment of ovarian reserve.
22. Features of multifollicular structure on USD of ovaries in polycystic ovary syndrome.
23. Ultrasound signs of Adenomyosis, endometrioid ovarian cysts.
24. Ultrasound picture of distal tubal occlusion (hydrosalpinx).
25. Markers of ultrasound diagnostics of pregnancy of different terms.
26. Ultrasound evaluation of the capacity of the uterus scar.

27. Determination of the condition of the feto-placental complex.
28. Ultrasound characteristics and assessment of markers of congenital pathology during the first (11-14 weeks) pregnancy screening.
29. Ultrasound characteristics and assessment of markers of congenital pathology during the second screening (19-22 weeks) of pregnancy.
30. Ultrasound characteristics and assessment of markers of congenital pathology during the third screening (30-32 weeks) of pregnancy.

## **12. Recommended literature**

### **Basic:**

1. Obstetrics: student's book / Акушерство: підручник / Gladchuk I.Z., Ancheva I.A. Vinnytsia: Nova Knyga, 2021. –288 p.
2. Obstetrics and Gynecology: in 2 vol.:textbook. Volume 2. Gynecology / V.I. Gryshchenko, M.O. Shcherbina, B.M. Ventskiivskyi et al.; edited by V.I. Gryshchenko, M.O. Shcherbina. — 3th edition. — K.: AUS Medicine Publishing, 2022 – 352 p.
3. Obstetrics and Gynecology: in 2 vol.:textbook. Volume 1. Obstetrics / V.I. Gryshchenko, M.O. Shcherbina, B.M. Ventskiivskyi et al.; edited by V.I. Gryshchenko, M.O. Shcherbina. — 2th edition. — K.: AUS Medicine Publishing, 2018 – 392 p.
4. 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.
5. Llewellyn-Jones Fundamentals of Obstetrics and Gynaecology (10th Ed). Jeremy Oats, Suzanne Abraham. Elsevier. 2016. – 384 pp.
6. 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.
7. Dutta, Durlav Chandra. D. C. Dutta's Textbook of Gynecology including Contraception / D.C. Dutta; ed/ Hiralal Konar. – 7th.ed. – New Delhi: Jaypee Brothers Medical Publishers, 2016. – XX, 574 p.
8. Normative documents of the Ministry of Health of Ukraine on obstetrics and gynecology: — Order of the Ministry of Health of Ukraine No. 353 of April 13, 2016 "On the approval and implementation of medical and technological documents on the standardization of medical care for abnormal uterine bleeding." — Order of the Ministry of Health of Ukraine No. 869 dated 05/05/2021 "On the approval of the unified clinical protocol of primary, secondary (specialized), tertiary (highly specialized) medical care "Endometrial hyperplasia".

### **Additionally:**

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. 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.
2. 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.
3. Modern technical teaching aids (see appendix to the work program of the 4th year)
4. Prevention of purulent-septic complications during laparoscopic surgeries on pelvic

organs with the risk of vaginal microbiota contamination / Zaporozhan VN, Gladchuk IZ, Rozhkovska NM, Volyanska AG, Shevchenko OI //World of Medicine and Biology. - 2020- №1(71). - P.49- 53. (Web of science)

5. Normative documents of the Ministry of Health of Ukraine on obstetrics and gynecology:
  - Order No. 676 of 12/31/2004 "On approval of clinical protocols for obstetric and gynecological care"
  - Order No. 782 dated 12.29.2005 "On the approval of clinical protocols for obstetric and gynecological care"(as amended in accordance with the orders of the Ministry of Health)
  - Order No. 900 of 12/27/2006 Clinical protocol on obstetric care. "Fetal distress during pregnancy and childbirth."
  - Order No. 901 dated 27.12.2006 Clinical protocol on obstetric care. "Transferred pregnancy".
  - Order No. 906 of 12/27/2006 Clinical protocol on obstetric care. Perinatal infections.
  - Order No. 540 dated 04.08.2006 On approval of the principles of breastfeeding support, criteria and procedure for evaluating a health care facility for compliance with the status "Child-friendly Hospital".
  - Order No. 716 dated 14.11.2007 "On the approval of the clinical protocol for obstetric care "Prevention of transmission of HIV from mother to child".
  - Order No. 502 dated August 29, 2008, "On approval of the clinical protocol for antibacterial prophylaxis in surgery, traumatology, obstetrics and gynecology"
  - Order No. 624 03.11.2008 Clinical protocol for obstetric care "Normal childbirth".
  - Order No. 417 dated 15.07.2011 "On the organization of ambulatory obstetric and gynecological care in Ukraine"
  - Order No. 976 of 12/27/2011 Vaginal delivery after caesarean section (C-section)
  - Order No. 977 of 12/27/2011 Clinical protocol for obstetric care "Caesarean section".
  - Order No. 423 dated 05/24/2013 "On approval of the procedure for providing complex medical care to a pregnant woman during an unwanted pregnancy, forms of primary accounting documentation and instructions for filling them out"
  - Order No. 955 dated 05.11.2013 "Procedurecarrying out emergency post-contact prevention of HIV infection among employees in the performance of professional duties".
  - Order No. 59 dated 21.01.2014 On the approval and implementation of medical and technological documents on the standardization of medical care for family planning.
  - Order No. 205 dated 03.24.14. Clinical protocol "Obstetric bleeding".
  - Order No. 236 dated 02.04.2014 "Papproval and implementation of medical and technological documents on the standardization of medical care for dysplasia and cervical cancer".
  - Order No. 319 dated 06.04.2016 "On the approval and implementation of medical and technological documents on the standardization of medical care for genital endometriosis"
  - Order No. 353 dated 04/13/2016 "On the approval and implementation of medical and technological documents on the standardization of medical care for abnormal uterine bleeding"
  - Order No. 869 dated 05.05.2021 "On approval of the unified clinical protocol of primary, secondary (specialized), tertiary (highly specialized) medical care "Endometrial hyperplasia"

### **13. Electronic information resources**

1. Practical recommendations of the International Society of Ultrasound in Obstetrics and Gynecology (ISUOG) for performing ultrasound examinations of the fetus:*isuog.org/ISUOGGuidelines*
2. Ultrasound research protocols. Internet resource: Ukrainian portal of ultrasound

diagnostics:[ultrasound.net.ua](http://ultrasound.net.ua)<https://www.cochrane.org/>

3. <https://www.cochrane.org/> - Cochrane / Кокрейнська бібліотека
4. <https://www.acog.org/> - Американська Асоціація акушерів та гінекологів / The American College of Obstetricians and Gynecologists
5. <https://www.uptodate.com> – UpToDate
6. <https://online.lexi.com/> - Wulters Kluwer Health
7. <https://www.ncbi.nlm.nih.gov/> - Національний центр біотехнологічної інформації / National Center for Biotechnology Information
8. <https://pubmed.ncbi.nlm.nih.gov/> - Міжнародна медична бібліотека / National Library of Medicine
9. <https://www.thelancet.com/> - The Lancet
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