

**DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY**

**Department of Obstetrics and Gynecology**

«APPROVED»

First vice-rector

on educational and pedagogical affairs

Danylo Halytsky Lviv

National Medical University

cor.-memb. NAMS of Ukraine

prof. M.R. Gzegotsky



«\_\_» 2020

**EDUCATIONAL PROGRAM  
For Clinical practical training on  
OBSTETRICS AND GYNECOLOGY**

Educational level: specialist

Branch of knowledge: 22 – healthcare

Speciality: 7.12010001 General medicine 7.12010002 Pediatrics

Faculty, course: Medical faculty, 6 year

Considered and approved  
at the meeting of the Department  
of Obstetrics and Gynecology

meeting report № 8/73  
“ 21” February 2020

Chair of the Department  
cor.-memb. NAMS of Ukraine

  
Professor Markin L.B.

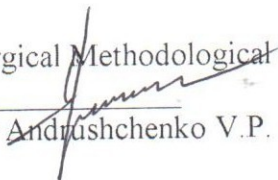
Approved

at the meeting of the Surgical Methodolo  
Commission of Danylo Halytsky Lviv Na  
Medical University

meeting report № 6  
“9” April 2020

Head

of the Surgical Methodological Commiss

  
Professor Andrushchenko V.P.

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Chair of the Department  
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Approved  
at the meeting of the Surgical  
Methodological Commission of Danylo  
Halytsky Lviv National Medical University  
meeting report № 6  
“9” April 2020

Head  
of the Surgical Methodological Commission

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**2020**

The Work Program on discipline "Obstetrics and Gynecology" for English-speaking students of the 6th year of the medical faculty, who study in the specialty 7.12010001 " General medicine " 7.12010002 "Pediatrics", in accordance with the following normative documents:  
 Law of Ukraine "On Higher Education" of 01.07.2014 №1556-VII;  
 Order of the Ministry of Education and Science of Ukraine No. 47 dated January 26, 2015 "On the peculiarities of the formation of curricula for 2015/2016";  
 educational qualification characteristics (EQC) and educational - professional programs (EPP) of training of specialists;  
 Letters of the Ministry of Education and Science of Ukraine dated January 20, 2015 No. 1 / 9-19 "On the organization of certification of applicants for higher education and organization of educational process", dated March 13, 2015, No. 1 / 9-126 "On the peculiarities of the organization of the educational process and the formation of curricula in 2015/2016 academic year ";  
 the provision on the organization of the educational process at the Lviv National Medical University named after Danylo Halytsky (protocol No. 1 - VR dated February 18, 2015), taking into account the Instruction on evaluation of students' educational activity in the context of the implementation of the European Credit Transfer System for the organization of the educational process (approved by the Ministry of Health of Ukraine on April 15, 2014). );  
 by the order of the rector of the Danial Halytsky Lviv National Medical University "On the introduction of a new curriculum of pre-graduate training for specialists in the field of Medicine".

**Changes and additions to the Work Program for 2020-2021.**

№	Contents of the changes made (additions)	Date and No. of the Protocol on the session of the Department of Obstetrics and Gynecology	Notes
1.	The list of recommended literature is updated with modern sources in Ukrainian and English	meeting report № 8/63 21.02.2020	

Chair of the Department  
 of Obstetrics and Gynecology  
 cor.-memb. NAMS of Ukraine  
 Professor Markin L.B.



## **I. Description of the subject discipline.**

The program of study of educational discipline "Obstetrics and Gynecology" for higher medical educational institutions of Ukraine of III-IV accreditation is prepared in accordance with curriculum training educational for qualification of "Specialist" on qualification "doctor" in higher education of the Ministry of healthcare of in Ukraine specialties 7.12010001 "Medicine" , 7.12010002 "Pediatrics" and 7.12010003 "Preventive medicine" from area 1201 "Medicine" according to the educational qualification characteristics (EQC) and educational and professional programs (EPP) of training, approved by order of Ukraine from 16.04.03 №239. The program is designed on the principles of the European Credit Transfer System (ECTS) and approved by the Ministry of Health of Ukraine of 26 January 2015 (#47) for implementation in the activities of higher education institutions of the Ministry of Health of Ukraine requirements (the third paragraph of Article 56 and part 7 of Section XV «Transitional Provisions for the "Law of Ukraine On Higher Education". The program is designed with the principles of evidence-based medicine and based on standards of care in obstetrics and gynecology, approved by the Ministry of Health of Ukraine. Apprenticeship carried out in these fields for 6 years, and basic medical training - for 5 years.

**The subject of study** of the course is "Obstetrics and Gynecology" of discipline "Obstetrics and Gynecology" is structured into sections. The student workload described in ECTS credits - credits are rendered with the successful assimilation of students test credit.

The types of educational activities of students according to the curriculum are: a) lectures; b) practical classes; c) independent work of students.

Lectures. Preference is problematic lectures, observation and conceptual and analytical features. The lecture is a process during which the students form the knowledge taking into account general motivational component-oriented phase of mastering scientific knowledge. The basic role of lectures - quality management of independent work.

Practical lessons .They last at least 4 hours. By the method of organization they are clinically designed to control theoretical material and formation of practical skills and ability to analyze and apply their knowledge to solve practical problems.

The acquisition is controlled on the theme workshops according to specific objectives. The list of criteria for obstetric care is guided by protocols on specialty "Obstetrics and Gynecology" of the Ministry of Health of Ukraine.

Control is realized through tests, clinical case studies; control of practical skills.

Independent work of students represents organizational learning, regulated working curriculum that student performs independently outside of classes. Possible types of independent work of students: preparation for practical classes and study of topics considered only in terms of self-learning, follow-up of pregnant or gynecological patients and writing case history, search and study of additional literature, algorithms, structural logic, writing essays, annotations, reports for presentation to the reports on

practical classes, rotations in a clinic outside of class time. Organization of independent work in the offices of obstetric or gynecological hospitals should be provided with the lecturer.

Individual work - a form of organization to enhance learning, generalization and consolidation of knowledge that students gain in the learning process, and apply this knowledge in practice, thus obtaining individual educational and research objectives. Forms of educational process and control of each discipline (final modular control, exams, differentiated exemptions, credits, etc.) is determined independently by the Universities of the Ministry of Health of Ukraine according to decision of the Academic Council of university.

Control of discipline is carried out on its end at the final control class (test).

Assessment of students on subject is rating and assigned the traditional scale.

Department of Obstetrics and Gynecology have the right to make changes to the curriculum within the 15% allocation of time depending on the direction of research, organizational and clinical diagnostic capabilities, but must fulfill as a whole the claims of the subject "Obstetrics and gynecology» (IV-VI years) in accordance with the ultimate goals of EQC and OPP on specialty training and curriculum.

## **II. The purpose and objectives of the course**

1.1. The goal of teaching "Obstetrics and Gynecology" are: acquisition of knowledge on the physiological and pathological obstetrics, conservative and operative gynecology, learning of general principles of pregnancy, childbirth and the postpartum period, the ability to analyze obstetric situation and surgical risks in gynecological patients, using primary and secondary methods studies that demonstrate skills by educational-professional program (EPP).

1.2. The main objectives of the discipline "Obstetrics and Gynecology":

- Interpret clinical anatomy of the female genitals and physiology of the reproductive system.
- Make a preliminary diagnosis of basic gynecological diseases, plan examination and patient management.
- To determine the etiologic and pathogenetic factors of major diseases of the female reproductive system.
- Identify factors that influence family planning and to develop measures aimed at rational family planning.
- Plan the tactics of pregnancy, physiological birth and the postpartum period.
- Make a preliminary diagnosis of complications of pregnancy, childbirth and the postpartum period.
- Perform the necessary medical manipulations.
- Plan and provide first aid in emergency conditions in obstetrics and gynecology.

13. According to requirements of educational and professional program students must know:

- Physiological and pathological course of pregnancy, childbirth and the postpartum

period;

- Modern standards of care in emergency obstetric and gynecological pathology;
- The topics of family planning.

to be able:

- To conduct gynecological investigation, to analyze material for cytological, histological and bacteriological study and to be able to interpret them;
- to establish the diagnosis of diseases, to conduct differential diagnostics, therapy, prevention and rehabilitation of obstetric and gynecological patients;
- To collect and evaluate obstetric and gynecological history;
- To carry out external and internal midwifery research to assess the condition of the fetus and newborn;
- To provide first aid in obstetric and gynecological pathology.

For the study of the course in the specialty 7.12010001 "Medicine" 360 hours and 12 ECTS credits are given.

### **Structuring of discipline "Obstetrics and Gynecology" FOR A medical student enrolled in the specialty 7.12010001 "Medicine"**

Section 1: Obstetrics and Gynecology.

1. Physiological Obstetrics.
2. Pathology of pregnancy and childbirth.
3. Perinatal pathology.
4. pathological conditions of the reproductive system in different age periods.
5. Gynecological diseases.
6. Infertility in marriage. Family planning.

### **DESCRIPTION of curriculum on subject "Obstetrics and Gynecology" for medical students enrolled in the specialty 7.12010001 "Medicine"**

Structure of the subject	Number of hours, from them			Year of studies	Type of control	
	In total	In-class				IWS
		Lectures	Classes			
In total for 6 year	135 h. / 4,5 ECTS credits		90	45	6	Credit test

### **III. CONTENT OF PROGRAM**

#### **Section III. Obstetrics and Gynecology.**

**Section - Pathological conditions of the reproductive system in different age periods.**

#### **Specific goals:**

1. Interpret the features of the anatomical structure and physiological changes in the

female genital organs in different age periods.

2. Prepare a plan of inspection and maintenance, to know the clinical picture, diagnosis and treatment of menstrual dysfunction in different age periods.

3. To make the plan of patients with irregular position of female genitals.

4. To make the plan of management for girls and adolescents with gynecological diseases, to determine a preliminary diagnosis using modern diagnostic methods.

5. Demonstrate counseling skills referring to use barrier and hormonal methods of contraception in adolescents.

**Topic 1. Menstrual dysfunction in the reproductive age, neuroendocrine syndromes. The physiological and pathological conditions in the perimenopausal period.**

Menstrual dysfunction in the reproductive age, neuroendocrine syndromes.

The concept of perimenopausal period. Physiological changes in female genitals during perimenopause. Pathological conditions in the perimenopausal period.

Eversion of the vagina and uterus: diagnosis, treatment, prevention.

**Topic 2. pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers.**

Modern methods of inspection and young girls with gynecological diseases. Menstrual dysfunction in adolescence - classification, diagnosis and treatment. Amenorrhea.

Juvenile uterine bleeding. Therapy, rehabilitation and prevention of menstrual dysfunction in girls.

Anomalies of genitals. Disorders of sexual development in adolescents.

Inflammatory diseases of the genitals of girls and adolescents. The clinical picture, diagnosis and treatment.

Methods of contraception in adolescents. Features for selection and use of the hormonal and barrier methods of contraception.

**Section - Gynecological diseases.**

**Specific goals:**

1. To determine the etiologic and pathogenetic factors of major diseases of the female reproductive system.

2. Put conduct a preliminary diagnosis and differential diagnosis of basic gynecological diseases, plan examination and patient management.

3. To assist in emergency conditions in gynecology. Make a plan survey gynecological patients before surgery.

4. Perform the necessary medical manipulations.

**Topic 3. Urogenital inflammatory diseases in women.**

Current approaches to diagnosis and treatment of female urogenital inflammatory diseases. Diagnosis, treatment and prevention of diseases, transmitted sexually.

**Topic 4. Benign neoplasms of female genital organs. Dyshormonal breast cancer. Endometriosis.**

Benign neoplasms of female genital organs. Diagnosis, treatment and prevention.

Dyshormonal breast cancer. Modern methods of diagnosis, treatment and prevention.

Endometriosis. Modern aspects of pathogenesis, diagnosis, treatment, and prevention of

endometriosis.

**Topic 5. Background and precancerous diseases of female genital organs. Malignant neoplasms.**

Background and precancerous diseases of female genital organs. Malignant neoplasm of female genital organs. Modern methods of diagnosis, treatment and prevention.

**Topic 6. Urgent conditions in gynecology.**

Current approaches to diagnosis and emergency care for acute abdomen. Current approaches to diagnosis and emergency care for uterine bleeding. Basic principles and techniques of surgical interventions in emergency conditions in gynecology. Traumatic injuries of genitals. Clinical diagnosis and treatment.

Differential diagnosis of acute surgical pathology (appendicitis, bowel obstruction, cholecystitis, renal colic, perforative gastric). Prevention of emergency conditions in gynecology.

**Topic 7. Surgical interventions in gynecology. Preparation and postoperative management of patients with gynecological urgent and elective surgery. HIV-infection.**

Indications, contraindications, conditions and types of operations on the cervix; uterus (conservative myomectomy, uterine defundation, supravaginal amputation of uterus, hysterectomy), the uterine eversion and prolapse. Artificial interruption of pregnancy in the early and later stages, indications, techniques, complications. Therapeutic and diagnostic endoscopic methods in gynecology.

Features of preparation and postoperative management of patients with gynecological urgent and elective surgery. Postoperative complications and their prevention.

Rehabilitation after gynecological surgery.

HIV-infection in health care settings. Preventing the risk of contracting infections transmitted by blood, and how to reduce it. PEP.

**Section - Infertility in marriage. Family planning.**

**Specific goals:**

1. To determine the etiologic and pathogenetic factors of major diseases of the female reproductive system, leading to infertility.
2. Identify preliminary clinical diagnosis on the basis of special survey data interpretation.
3. To carry out counseling on contraceptive methods according to periods of life and choice of a particular method of contraception.
4. Determine the required inspection before using contraceptives.
5. To master the use of medical eligibility criteria of WHO.

**Topic 8. infertility.**

Medical and social significance of the problem of infertility in marriage.

Etiopathogenetic factors of infertility. A survey of infertility in the married couple.

Modern principles and methods of treatment of female infertility. Indications for use of reproductive technologies.

**Topic 9. Modern aspects of family planning. Methods of contraception. Medical eligibility criteria for contraceptive use by WHO.**

Advice on choosing and using contraceptive method: the stages of counseling. Methods



of contraception according to periods of life.

Modern contraceptives: classification, mechanism of action, advantages, disadvantages, required inspection before use, mode of use, side effects, instructions for the patient.

Postpartum and post-abortion contraception.

Medical eligibility criteria according to WHO classification categories, use of pivot tables. Methods of contraception in women with HIV.

## **Section - Physiological Obstetrics.**

### **Specific goals:**

1. Evaluate the condition of pregnant women, women, mothers, fetus and newborn.
2. Plan the tactics of pregnancy, childbirth and the postpartum physiological period, assess the progress of the neonatal period.
3. Pick up method of contraception in the postpartum period.
4. Perform the necessary medical manipulations.
5. To provide obstetric care for pregnant women, women and new mothers.

### **Topic 10. The physiological pregnancy, childbirth and the postpartum period.**

#### **Perinatal health of the fetus. Pharmacotherapy in obstetrics.**

Management of physiological pregnancy, childbirth and the postpartum period. Modern methods of diagnosis of the fetus. Features of pharmacotherapy in different stages of pregnancy and the postpartum period. The issue of medical ethics and deontology. Methods of contraception in the postpartum period.

## **Section - Pathology of pregnancy and childbirth.**

### **Specific goals:**

1. Identify the features of examination and treatment of pregnant women and mothers with the pathology of pregnancy and childbirth.
2. Make a previous diagnosis, conduct a differential diagnosis and plan the tactics of the major pathological conditions during pregnancy, childbirth and the postpartum period.
3. To make the plan of preventive and rehabilitation measures in the event of different types of obstetric pathology.
4. Plan and to assist in emergency conditions in obstetrics.
5. Perform necessary medical manipulations.

### **Topic 11. Early preeclampsia. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia.**

Etiology and pathogenesis of preeclampsia. Early preeclampsia (vomiting, hypersalivation). The clinical picture, diagnosis and treatment of early preeclampsia. Hypertension during pregnancy. Edema during pregnancy. Proteinuria during pregnancy. Preeclampsia. Eclampsia. The clinical picture, diagnosis, differential diagnosis, treatment, effects on the fetus. Rare forms of preeclampsia.

Clinical management of pregnancy, childbirth and the postpartum period with late preeclampsia. Emergency aid. Late gestosis' prevention and rehabilitation.

### **Topic 12. Premature termination of pregnancy. Prolongation of pregnancy. Multiple pregnancy.**

Etiology and pathogenesis of early abortion at different times. Classification, clinical

symptoms, diagnosis, treatment and prevention of spontaneous abortion. Preterm birth. Features of preterm birth. Preventing miscarriage.

Etiology and pathogenesis of prolongation of pregnancy. Methods of diagnosis of prolongation of pregnancy. Pregnancy and childbirth, the effect on the fetus. Clinical management of post-term pregnancy. Prevention and treatment of complications, associated with prolongation.

Multiple pregnancy: Classification and diagnosis. Clinical management of pregnancy and childbirth in multipara women. Syndrome of feto-fetal transfusion, intrauterine death of one fetus.

### **Topic 13. Anomalies of pelvis. Macrosomia problem in modern obstetrics.**

Inconsistency of fetal head and pelvis in the mother. Wrong position and breech fetus. Anomalies of pelvic bones. Maintenance of labor with a narrow pelvis. Peculiarities of labor with the large fruit. Clinical management of labor with the large fetus, in clinically narrow pelvis.

Pregnancy and childbirth in the breech presentation. Malposition. Methods of diagnosis and correction of malposition. Features of obstetric tactics during pregnancy and childbirth varieties depending on the presentation and position of the fetus.

### **Topic 14. Bleeding during pregnancy, childbirth and the postpartum period.**

Hemorrhagic shock. DIC. Intensive care and resuscitation in bleeding in obstetrics.

Bleeding during pregnancy, childbirth and the postpartum period. Etiology, pathogenesis, clinical manifestations, diagnosis. Algorithm and methods of controlling bleeding.

Hemorrhagic shock. DIC. Modern approaches to infusion-transfusion and intensive care and resuscitation in bleeding in obstetrics.

### **Topic 15. Anomalies in uterine activity. Trauma of and fetus. Current approaches to diagnosis and treatment of birth injuries mother and fetus.**

Classification, etiology, pathogenesis of various kinds of anomalies of labor activity.

Modern methods of diagnosis and treatment of labor. Prevention of labor.

Maternity injuries the mother and fetus - classification. Current approaches to diagnosis and treatment of birth injuries of mother and fetus. Features of pregnancy and childbirth in women with uterine scar. Prevention of obstetric injuries.

### **Topic 16. Pregnancy and childbirth in extra-genital diseases. Perinatal infection. Prevention of vertical transmission of HIV.**

Pregnancy and childbirth in diseases of the cardiovascular system (heart diseases, hypertension, hypotension); diseases of the urinary system; liver and gall bladder; diseases of the blood-forming organs; respiratory; digestive system; endocrine system; nervous system; of vision; acute and chronic infectious diseases, tuberculosis. Pregnancy and childbirth in gynecological diseases. Peculiarities of course and tactics of acute surgical pathology.

Perinatal infection in pregnancy: clinical course, diagnosis, tactics, treatment and prevention. Principles of pregnancy and childbirth in women with HIV. Prevention of vertical transmission of HIV.

### **Topic 17. Surgical interventions in obstetrics.**

Indications, contraindications, circumstances and preparation for surgical interventions during vaginal and abdominal delivery in obstetrics. The main stages of obstetric operations. Anesthesia in operations. Equipment. Aseptic and antiseptic measures.

Management of postoperative period.

**Topic 18. Postpartum septic disease.**

Postpartum septic disease. Classification, etiology, pathogenesis, diagnosis, treatment, prevention. Emergency aid for septic conditions in obstetrics. Indications for surgical treatment.

**Section - Perinatal pathology.**

**Specific goals:**

1. Make the preliminary diagnosis and plan the tactics of pregnancy, childbirth during perinatal complications (placental dysfunction, distress syndrome and fetal growth retardation).
2. Evaluate fetal test results, formulate the previous diagnosis of the various types of pathological conditions of the fetus.
3. Possess basic practical skills to provide emergency care for fetal distress.
4. Administer treatment, make a plan of preventive and rehabilitation measures in the event of different types of fetal pathology and elements of ovum.

**Topic 19. Placental dysfunction, growth retardation, fetal distress.**

Etiology, pathogenesis of placental dysfunction, fetal distress, fetal growth retardation. Modern perinatal diagnostic technologies. Modern approaches to tactics of adverse fetal condition during pregnancy and childbirth.

**Topic 20. Subject immunological incompatibility between the blood of mother and fetus. Anomalies ovum.**

Immunological incompatibility of blood between mother and fetus (Rh-conflict, incompatibility on ABO system etc.). Pathogenesis, diagnosis of pregnancy, the choice of optimal timing of delivery. Management of childbirth and the postpartum period in immunological conflict. Prevention.

Anomalies of ovum. Anomalies of extra-ovum elements (placenta and umbilical cord). Trophoblastic disease. Polyhydramnios and oligohydramnios: causes, clinical picture, tactics of pregnancy and childbirth, the consequences for the fetus and newborn.

**IV. PRELIMINARY STRUCTURE OF CREDIT TEST**

**SECTION 3: Obstetrics and Gynecology**

Topic	Lectures	Classes	IWS
<b>Section - Pathological conditions of the reproductive system in different age periods</b>			
<b>Topic 1.</b> Menstrual dysfunction in the reproductive age, neuroendocrine syndromes. The physiological and pathological conditions in the perimenopausal period.		4	2
<b>Topic 2.</b> Pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers.		4	2
<b>Section - Gynecological diseases</b>			

<b>Topic 3.</b> urogenital inflammatory diseases in women.		4	2
<b>Topic 4.</b> Benign neoplasm of female genitals. Dyshormonal breast cancer. Endometriosis.		4	2
<b>Topic 5.</b> Background and precancerous diseases of female genital organs. Malignant neoplasms.		4	2
<b>Topic 6.</b> Urgent conditions in gynecology.		6	2
<b>Topic 7.</b> Surgical interventions in gynecology. Preparation and postoperative management of patients with gynecological urgent and elective surgery. HIV infection.		2	2
<b>Section - Infertility in marriage. Family planning</b>			
<b>Topic 8.</b> Infertility.		4	2
<b>Topic 9.</b> Modern aspects of family planning. Methods of contraception. WHO medical eligibility criteria for contraceptive use.		6	2
<b>Section - Physiological obstetrics</b>			
<b>Topic 10.</b> Physiological pregnancy, childbirth and the postpartum period. Perinatal health of the fetus. Pharmacotherapy in obstetrics.		4	2
<b>Section - Pathology of pregnancy and childbirth</b>			
<b>Topic 11.</b> Early preeclampsia. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia.		6	2
<b>Topic 12.</b> Premature termination of pregnancy. Prolongation of pregnancy. Multiple pregnancy.		4	2
<b>Topic 13.</b> Anomalies of pelvic bones. Macrosomia - problem of modern obstetrics. Inconsistency fetal head and pelvis of the mother. Wrong position and breech fetus presentation.		4	2
<b>Topic 14.</b> Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC. Intensive care and resuscitation in bleeding in obstetrics.		6	2
<b>Topic 15.</b> Anomalies of uterine activity. Traumas of mother and fetus. Current approaches to diagnosis and treatment of birth injuries of mother and fetus.		4	2
<b>Topic 16.</b> Pregnancy and childbirth in extragenital diseases. Perinatal infection. Prevention of vertical transmission of HIV.		6	2

<b>Topic 17.</b> Surgical interventions in obstetrics.		2	2
<b>Topic 18.</b> Postpartum septic diseases.		2	2
<b>Section - Perinatal pathology</b>			
<b>Topic 19.</b> Placental dysfunction, growth retardation of fetus, fetal distress.		4	2
<b>Topic 20.</b> Immunological incompatibility between the blood of mother and fetus. Anomalies of the ovum.		2	1
<b>Exam</b>		<b>8</b>	<b>6</b>
<b>In total: ECTS credits – 4,5; hours – 135; from them:</b>		<b>90</b>	<b>45</b>

**V. THEMATIC PLAN OF PRACTICAL CLASSES**  
**SECTION 3. Obstetrics and Gynecology**

#	Topic	Number of hours
1.	Menstrual dysfunction in the reproductive age, neuroendocrine syndromes. The physiological and pathological conditions in the perimenopausal period.	6
2.	Pathological conditions of the reproductive system in childhood and adolescence. Methods of contraception for teenagers.	6
3.	Urogenital inflammatory diseases in women.	6
4.	Benign neoplasms of female genitals. Dyshormonal breast cancer. Endometriosis.	6
5.	Background and precancerous diseases of female genitals. Malignant neoplasms.	6
6.	Urgent conditions in gynecology.	6
7.	Surgical interventions in gynecology. Preparation and postoperative management of patients with gynecological urgent and elective surgery. HIV infection. Infertility.	6
8.	Modern aspects of family planning. Methods of contraception. Medical eligibility criteria for contraceptive use according to WHO.	6
9.	Physiological pregnancy, childbirth and the postpartum period. Perinatal health of the fetus. Pharmacotherapy in obstetrics.	6
10.	Early gestoses. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia. Premature termination of pregnancy. Prolongation of pregnancy. Multiple pregnancy.	6

11.	Anomalies of pelvic bones. Macrosomia - problem in modern obstetrics. Inconsistency between fetal head and pelvis of the mother. Wrong position and breech fetus presentation. Postpartum septic diseases.	6
12.	Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC. Intensive care and resuscitation in bleeding in obstetrics.	6
13.	Anomalies of uterine activity. Traumas of mother and fetus. Current approaches to diagnosis and treatment of birth injuries of mother and fetus. Surgeries in obstetrics.	6
14.	Pregnancy and childbirth in extragenital diseases. Perinatal infection. Prevention of vertical transmission of HIV.	6
15.	Placental dysfunction, growth retardation of fetus, fetal distress. Immunological incompatibility of blood between mother and fetus. Anomalies of ovum.	6
	<b>Exam</b>	
	<b>In total</b>	<b>90</b>

## VI. ТЕМАТИЧНИЙ ПЛАН САМОСТІЙНОЇ РОБОТИ СТУДЕНТІВ

### РОЗДІЛ 3. Акушерство і гінекологія

#	Types of IWS	Number of hours	Types of control
1.	Preparation for practical classes and lectures. Curation of pregnant women and mothers, preparing educational case history of childbirth.	29	Ongoing control
2.	Preparation to credit test	6	Preparation to credit test
	<b>Total number of hours</b>	<b>35</b>	

## VII. LIST OF PRACTICAL SKILLS FOR FINAL CONTROL OF KNOWLEDGE

### SECTION 3. Obstetrics and Gynecology

1. Collect and evaluate obstetric history.
2. Carry out external obstetric examination of pregnant women: techniques of Leopold, pelviometric diagnosis of a narrow pelvis, auscultation of fetal heart. Conducting internal obstetric examination.
3. Specify the term of pregnancy and childbirth, to determine the estimated weight of the

fetus.

4. Assess the condition of the fetus in utero, according to CTG, the MFP Doppler blood flow in the vessels of the umbilical cord.
5. To provide obstetric care at physiological childbirth. Management of postpartum period.
6. Determine the status of the newborn according to Apgar scale. Conduct initial newborn care.
7. Assess the character of labor. To chart the pharmacological correction of anomalies.
8. Develop algorithms of emergency obstetric care when bleeding.
9. Develop algorithms for emergency aid in severe forms of preeclampsia.
10. Develop algorithms for emergency assistance in shock conditions in obstetrics.
11. Develop algorithms in emergency assistance in fetal distress during pregnancy and childbirth.
12. Collect and evaluate gynecological history.
13. Carry out inspection and palpation of the breast.
14. Carry out the main gynecological examination (examination of the external genitalia, inspection using mirrors, bimanual examination).
15. To sample biopsy specimens from the vagina, urethra and cervix.
16. To interpret the results of cytological, histological, bacteriological and bacterioscopic research.
17. To interpret the results of colposcopy and ultrasound.
18. Interpret test results of diagnostics of the functional state of the ovaries.
19. Prepare a plan of inspection of patients with various kinds of gynecological diseases.
20. Planning regimen and prevention of various types of gynecological pathology.
21. Develop algorithm first aid in uterine bleeding and "acute abdomen".
22. Prepare a plan in preoperative preparation and urgent gynecological operations. Management of postoperative period.
23. To make the plan of survey infertility when the couple married.
24. To carry out counseling on family planning and conduct selection of different methods of contraception.
25. Carry out consultation, diagnosis, treatment and prevention of infections transmitted sexually.

## **VIII. List of questions to prepare students for the current control and exams.**

### **Section 3. Obstetrics and Gynecology**

1. Menstrual dysfunction in the reproductive age.
2. The concept of perimenopausal period.
3. Physiological changes in female genitals during perimenopause. Pathological conditions in the perimenopausal period.
4. Modern methods of inspection of young girls with gynecological diseases.
5. Menstrual dysfunction in adolescents – classification, principles of treatment and prevention.
6. Inflammatory diseases of the genital organs of girls and adolescents: clinical features, diagnosis, treatment.
7. Anomalies of genitals, diagnosis, treatment.

8. Disorders of sexual development in adolescents.
  9. Methods of contraception for teenagers.
  10. Current approaches to diagnosis and treatment of female urogenital inflammatory diseases.
  11. Diagnosis, treatment and prevention of diseases, transmitted sexually.
  12. Benign neoplasms of female genitals - diagnosis, treatment and prevention.
  13. Dyshormonal breast cancer. Modern methods of diagnosis, treatment and prevention.
  14. Endometriosis. Modern aspects of pathogenesis, diagnosis, treatment, and prevention.
  15. Background precancerous disease of genitals, vulva, vagina - diagnosis, tactics.
  16. Background precancerous cervical disease - diagnosis, tactics.
  17. Background precancerous endometrial disease: diagnosis, tactics.
  18. Malignant neoplasm of the cervix, uterus, ovaries, fallopian tubes - classification, diagnosis, clinical manifestations, principles of management and prevention.
  19. Current approaches to diagnosis, treatment and emergency care in "acute abdomen".
  20. Current approaches to diagnosis, treatment and emergency care for uterine bleeding.
  21. Artificial interruption in the early and later stages: indications, techniques, complications.
  22. Features of preparation of patients for gynecological surgery.
  23. Prevention of postoperative complications.
  24. HIV-infections in hospitals.
  25. Preventing the risk of contracting infections, transmitted by blood and how to reduce it.
  26. HIV post-exposure prophylaxis.
  27. Inspection of infertility in the married married.
  28. Modern principles and methods of treatment of female infertility.
  29. Advice on choosing and using contraceptive method.
  30. Modern contraceptives: classification, mechanism of action, advantages, disadvantages.
  31. Inspection before use contraception.
  32. Postpartum and post-abortion contraception.
  33. Methods of contraception in women with HIV.
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1. Physiology of pregnancy.
  2. Perinatal health of the fetus.
  3. The question of medical ethics and deontology.
  4. Physiology of childbirth.
  5. Modern principles of physiological childbirth.
  6. Physiology of postpartum period.
  7. Methods of contraception in the postpartum period.
  8. Physiology of neonatal period.
  9. Early gestosis: clinical diagnosis, treatment.
  10. Pre-eclampsia: clinical features, diagnosis, treatment tactics.
  11. Eclampsia: symptoms, diagnosis, tactics, first aid.
  12. The late gestoses' prevention and rehabilitation.
  13. Premature termination of pregnancy: classification, clinical picture, diagnosis,



treatment.

14. Prevention of miscarriage.

15. The post-term pregnancy: diagnosis, tactics. The impact on the fetus and newborn. Prevention prolongation.

16. Multiple pregnancy, classification, diagnosis, tactics of pregnancy and childbirth.

17. Anomalies of pelvic bones. Maintenance of labor with a narrow pelvis.

18. Peculiarities of labor with the large fetus, clinically narrow pelvis.

19. Pregnancy and childbirth in the breech presentation.

20. Malposition. Methods of diagnosis and correction of malposition.

21. Bleeding during pregnancy: clinical diagnostics, tactics.

22. Bleeding during childbirth: clinical diagnostics, tactics.

23. Bleeding in the postpartum period: clinical diagnostics, tactics.

24. Hemorrhagic shock: clinical features, diagnosis, first aid.

25. ICE syndrome: clinical features, diagnosis, first aid.

26. Current approaches to resuscitation and intensive therapy in obstetric bleeding.

27. Anomalies of uterine activity - classification, diagnostic methods and treatment of disordered contractile activity. Prevention of uterine activity.

28. Maternal and fetal injuries: classification, rupture of the perineum, vagina, cervix, diagnostics, tactics.

29. Prevention of obstetric injuries.

30. Contraindications to pregnancy with extragenital pathology.

31. Features of the course and tactics of pregnancy with acute surgical pathology.

32. Perinatal infection in pregnancy: clinical course, diagnosis, tactics, treatment and prevention.

33. Principles of pregnancy and childbirth in women with HIV.

34. Prevention of vertical transmission of HIV.

35. Postpartum septic diseases: classification, etiology, pathogenesis.

36. Diagnostics, principles of treatment, indications for surgical intervention in postpartum septic diseases.

37. First aid at septic conditions in obstetrics.

38. Prevention of postpartum septic diseases.

39. Placental dysfunction: etiology, pathogenesis diagnosis, modern approaches to tactics of pregnancy and childbirth.

40. Fetal distress: etiology, pathogenesis diagnosis, modern approaches to tactics of pregnancy and childbirth.

41. Delayed fetal development: etiology, pathogenesis, diagnosis, current approaches to tactics of pregnancy and childbirth.

42. Pathogenesis, diagnostics, maintenance of immune-conflicting pregnancy, the choice of optimal timing of delivery. Prevention of immune-conflicting pregnancy.

43. Anomalies of ovum.

44. Polyhydramnios and oligohydramnios: Clinic tactics of pregnancy and childbirth.

## **VIII. Distribution of points gotten by students**

**Types of control** - current and complete.

**Form of final control according to the curriculum** - credit test, exam.

Current control is carried out on each class according to the specific goals of the topic. In evaluating the learning activities of students standardized methods of control are preferred: testing, structured written work, solving situational problems, structured procedure for the control of practical skills in conditions close to medical reality. Evaluation of current educational activity: In evaluating the mastering of each topic for current activity the student is scored according to the 4-point scale - traditional scale taking into account the approved evaluation criteria for the relevant discipline. This takes into account all types of work, provided by the curriculum. The student has the right to obtain an assessment of each topic. Forms assessment of current educational activity include control of theoretical and practical training.

### **Criteria of evaluation of current educational activity of student**

Knowledge of students are evaluated as a theoretical ones with practical training according to the following criteria:

Excellent ("5") - The student correctly answered 90-100% tests of the format A. Correct, logically and clearly meets all the current theme-standardized questions, including questions on lectures topics and independent work. Student closely links theory with practice and properly perform practical work of writing a conclusion on results. He Freely reads the results of laboratory research, solves situational tasks of high complexity, is able to summarize material, has a laboratory research method in the required level.

Good ("4") - A student correctly answered 70-89% of tests of the format A and essentially answers the question on standardized current topics of lectures and independent work. Demonstrates good performance (knowledge) skills. Correctly uses theoretical knowledge in solving practical problems. Is able to solve easy and medium difficulty situational problem. It has the necessary practical skills and methods of their implementation in an amount that exceeds the required minimum.

Satisfactory ("3") - The student correctly answered 50-69% of tests of the format A., answers standardized questions on current activity, lectures and independent work. Can not build a clear, logical reply. During answers and demonstrations of practical skills, the student makes mistakes. Student solves only the easiest tasks, possesses only a minimal methods.

Poor ("2") - The student correctly answered at least 50% of tests of the format A. Does not know the size of the current theme of the material, can not build a logical answer, do not answer any questions, do not understand the contents of the material. During answers and demonstrate practical skills makes significant and serious errors.

**The maximum number** of points that a student can collect for current educational activity per semester is 200 points.

**The minimum number** of points that a student must collect for current educational activity per semester is 120 points.

Calculating the number of points is based on student evaluations received through traditional scale while learning discipline. By calculating the average (SA), rounded to

two decimal figures. The resulting value is converted to a score according to complex scale as follows:

$$X=CA*200/5$$

**Recalculation average score for current activity in multi-mark scale (final control-test)**

4-Point scale	200-Point scale	4-Point scale	200-Point scale	4-Point scale	200-Point scale	4-Point scale	200-Point scale
5	200	4,47	179	3,94	158	3,42	137
4,97	199	4,45	178	3,92	157	3,4	136
4,95	198	4,42	177	3,89	156	3,37	135
4,92	197	4,4	176	3,87	155	3,35	134
4,9	196	4,37	175	3,84	154	3,32	133
4,87	195	4,35	174	3,82	153	3,3	132
4,85	194	4,32	173	3,79	152	3,27	131
4,82	193	4,3	172	3,77	151	3,25	130
4,8	192	4,27	171	3,74	150	3,22	129
4,77	191	4,24	170	3,72	149	3,2	128
4,75	190	4,22	169	3,7	148	3,17	127
4,72	189	4,19	168	3,67	147	3,15	126
4,7	188	4,17	167	3,65	146	3,12	125
4,67	187	4,14	166	3,62	145	3,1	124
4,65	186	4,12	165	3,6	144	3,07	123
4,62	185	4,09	164	3,57	143	3,05	122
4,6	184	4,07	163	3,55	142	3,02	121
4,57	183	4,04	162	3,52	141	3	120
4,55	182	4,02	161	3,5	140	Less than 3	Insufficient
4,52	181	3,99	160	3,47	139		
4,5	180	3,97	159	3,45	138		

The maximum number of points that a student can collect for current educational activity for the ninth and tenth semester for admission to the exam is 120 points. The minimum number of points that a student must collect for current educational activity for admission to the exam is 72 points.

The calculation is made on the number of points obtained upon student's ratings on the traditional scale while learning subjects by calculating the arithmetic (SA), rounded to two decimal figures. The resulting value is converted into points by multi-scale as follows:

$$X=CA*120/5$$

**Recalculation of the average grade for ongoing activity into multi-scored scale (final control - exam)**

4-Point scale	200-Point scale	4-Point scale	200-Point scale	4-Point scale	200-Point scale	4-Point scale	200-Point scale
5	120	4,45	107	3,91	94	3,37	81
4	119	4,41	106	3,87	93	3,33	80
4	118	4,37	105	3,83	92	3,29	79
4	117	4,33	104	3,79	91	3,25	78
4	116	4,29	103	3,75	90	3,2	77
4	115	4,25	102	3,7	89	3,16	76
4	114	4,2	101	3,66	88	3,12	75
4	113	4,16	100	3,62	87	3,08	74
4	112	4,12	99	3,58	86	3,04	73
4	111	4,08	98	3,54	85	3,99	72
4	110	4,04	97	3,49	84	Менше 3	Недостатньо
4	109	3,99	96	3,45	83		
4	108	3,95	95	3,41	82		

Independent work of students is evaluated during the current control of topics on the appropriate lesson. Mastering of topics which start out only on independent work is controlled at the final control.

**Final control** includes semester control and certification of the student. Semester control is carried out in the forms of set-off (4.6) course and exam for the 5th year in the amount of material specified in the work program of the course and within the deadline set, working curriculum, student individual curriculum.

**Final control** – test, is to assess the mastering of educational material on the subject "Obstetrics and Gynecology" solely on the results of the performance of all types of educational work, provided the curriculum.

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