

**DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSIT**

**Department of Obstetrics and Gynecology**

**«APPROVED»**

First vice-rector

on educational and pedagogical affairs at

Danylo Halytsky Lviv

National Medical University

cor.-memb. NAMS of Ukraine

prof. M.P.R. Gzegotsky

«   » 2020 p.



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

Educational level: second (master's)  
Branch of knowledge: 22 – Healthcare  
Speciality: 222 Medicine

Faculty, course: Medical faculty, 5 year

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

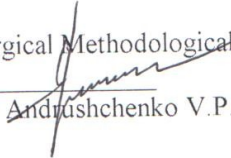
meeting report № 8/73  
“ 21” February 2020

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

  
Professor Markin L.B.

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

Head  
of the Surgical Methodological Commission

  
Professor Andriushchenko V.P.

2020

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Considered and approved  
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meeting report № 8/63  
“ 21” February 2020

Chair of the Department  
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Professor Markin L.B.

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

Head  
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Professor Andrushchenko V.P.

**2020**

The Work Program on discipline "Obstetrics and Gynecology" for English-speaking students of the 5th 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 Danish 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.

## **Section. Physiological and pathological course of pregnancy, labor and puerperium.**

### **Chapter I. Physiological course of pregnancy, labor and puerperium.**

#### ***Specific Aims:***

1. To interpret clinical anatomy and physiology of the female reproductive organs, female pelvis.
2. To perform the examination of pregnant women, parturient women, women in the puerperium.
3. To plan the management of the pregnancy, physiological labor, postpartum period.
4. To consult due to lactational amenorrhea method of contraception.

#### **Topic 1. Female pelvis. Fetus as an object of the labor.**

Pelvis from the anatomical and obstetrical point of view. Pelvic floor. Structure and sizes of in-term fetus head and body. The signs of the in-term newborn and neonate's maturity. Measurement and estimation of the pelvis sizes.

**Topic 2. Physiology of pregnancy. Methods of the pregnant women examination. Prenatal care in pregnancy.**

Fertilization and early embryonic development. The Placenta: structure and function. The critical periods in prenatal development. Impact of the harmful factors upon the developmental process. Physiological changes in the female organism during pregnancy. Hygiene and nutrition of the pregnant women. Methods of the pregnant women examination: diagnostics of the early and late stages of pregnancy. Fetal topography in uterus. Management of the physiological pregnancy. Gravidogram. Laboratory diagnostics of HIV infection. [HIV counselling](#). The ethical principles of consultation. Calculate the estimated date of delivery and maternity leave.

**Topic 3. Physiology of labor. Pain relief in labor.**

Prodromal labor contractions, preliminary period. The onset of labor. Biological preparation for labor, Bishop score. Biomechanics of fetal movements in occipito-anterior and occipito-posterior position. Regulation of the uterine activity. Clinical course of the labor. Management of the labor. Partogram. Clinical evaluation of the newborn infant (Apgar scoring method). The first hygienic newborn care. Thermal control of the newborn (the warm chain). Methods of analgesia and anesthesia during labor: without or with medicines.

**Topic 4. Physiology of the postpartum period. Physiology of the neonatal period.**

Changes in the reproductive organs, breasts and organism of the women in the puerperium at all. Clinical signs and management of the postpartum period. The principles of breast-feeding. Postpartum contraception: the lactational amenorrhea method (LAM).

Anatomy & Physiology of neonates. Newborn care. Benefits of rooming-in with newborn.

**Chapter II. Pathological course of pregnancy, labor and puerperium.**

***Specific Aims:***

1. To make the initial diagnosis and to plan the tactics of the management of complicated pregnancy.
2. To plan and provide obstetric care for the management of complicated pregnancy.
3. To make the initial diagnosis, to generate a differential diagnosis of the different kind of obstetrical pathology in labor.
4. To plan the tactics of the management of parturient and postpartum pathology.
5. To plan and provide emergency aid life-threatening conditions in obstetrics.
6. To perform medical manipulation.

### **Topic 5.Abnormalities of conceptus development. Multiple pregnancy.**

Anomalies of the extraembryonic membrane/placenta, fetal membranes and umbilical cord. Hydatiform mole. Oligohydramnion and polyhydramnion: reasons, diagnostics, management, fetal and neonatal outcomes. Inherited and congenital diseases of the fetus. Diagnostics. Indication for the medicogenetic consultation.

Multiple pregnancy: classification, diagnostics, peculiarities of the course, management of multiple pregnancy and labor.

### **Topic 6. Placental insufficiency. Fetal distress. Intrauterine fetal growth retardation.**

Placental insufficiency. Fetal distress. Intrauterine fetal growth retardation: risk factors, classification, diagnostics, management of the pregnancy, prevention.

Diagnostic methods of well-being of fetus: noninvasive: USS, CTG, Fetal biophysical profile, Doppler assessment, MRI: invasive – amniocentesis, cordocentesis, chorionic villus sampling. Biochemical tests in different stages of pregnancy.

### **Topic 7.Isoimmunization in pregnancy.**

Immunologic incompatibility between the maternal and fetal blood (Rh-, ABO-incompatibility, white blood cell isoimmunization et al.). Pathogenesis, diagnostics, management, treatment, prevention.

### **Topic 8.Early gestosis. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia.**

Early gestosis: classification, **clinical presentation**, diagnostics, treatment.

Hypertensive disorders in pregnancy. Preeclampsia: pathogenesis, classification,

**clinical presentation**, diagnostics, management, treatment, prevention. Eclampsia:

**clinical presentation**, diagnostics, complications, emergency aid, management.

### **Topic 9.Miscarriages.**

The reasons of miscarriage in the different stages of pregnancy. Classification, **clinical presentation**, diagnostics, treatment, prevention of miscarriage. Threatened preterm labor: diagnostics, treatment, obstetric management. Prevention of miscarriage. Preterm labor.

### **Topic 10.Contracted pelvis. Fetal malposition and malpresentation. Labor in breech presentation and malposition.**



Abnormalities of the bony pelvis. Classification, diagnostics. Diagnostics of the synclitism and asynclitism. Clinical contracted pelvis. Peculiarities of the labor management.

Classification of the breech presentation. Classification and peculiarities of the labor management. Fetal malposition: classification, diagnostics, labor management. Extended head presentation: classification, diagnostics. Correction of the malposition and breech presentation during the pregnancy.

Labor in breech presentation and malposition, management. Biomechanics of fetal movements and the manual aid in breech presentation.

### **Topic 11. Abnormalities of the uterine contractile activity.**

Classification, risk factors, pathogenesis of the different kind of the uterine contractile abnormalities. Modern methods of diagnostics and treatment of the uterine contractile abnormalities. Prevention of the uterine contractile abnormalities. Perinatal outcomes. Fetal distress in the labor: diagnostics, management.

### **Topic 12. Obstetric bleeding during the second trimester of pregnancy, in labor, and in the postpartum period. Intensive care and resuscitation in obstetrics, when the bleeding occurs.**

Placenta previa: etiology, pathogenesis, classification, **clinical presentation**, diagnostics, peculiarities of the course, management of pregnancy and labor. Preterm placental abruption: etiology, pathogenesis, classification, **clinical presentation**, diagnostics, peculiarities of the course, management of pregnancy and labor. Couvelaire uterus. Abnormal detachment of the placenta. Uterine bleeding in the third stage of the labor and postpartum period. Intensive care and resuscitation bleeding in obstetrics. Hypotonic hemorrhage. Coagulopathy hemorrhage (the amniotic fluid embolism and the other reasons). Hemorrhagic shock, life-threatening conditions. Disseminated intravascular coagulation syndrome. Intensive care and resuscitation in obstetrics, when the obstetrical bleeding occurs.

### **Topic 13. Obstetric trauma. Operative obstetrics.**

Common definitions about obstetric surgery: surgical abortion in the early and late stages of pregnancy. Operative procedures for the preparing birth canal (perineo-, episiotomy, amniotomy). Forceps, vacuum extraction, cesarean section: indications. Operative procedures in the third stage of the labor and postpartum period. Manual removal of placenta, expulsion of the placenta and membranes. Manual and instrumental

investigation of the uterus after labor. Indications for supravaginal and complete hysterectomies, hypogastric arteries ligation.

Vulvar, vaginal and perineal tears. Cervical tears. Uterine rupture: classification, disease-causing mechanism. Clinical presentation of the threatened, incomplete and complete uterine rupture. Peculiarities of the cesarean scar rupture. Diagnostics, treatment, prevention. Uterine inversion. Symphysis pubis diastasis and rupture. Postpartum fistulas. Etiology, diagnostics, treatment.

#### **Topic 14. Postpartum septic diseases.**

Postpartum septic diseases: postpartum wound infections, postpartum metroendometritis, postpartum metrophlebitis, mastitis, postpartum peritonitis, postoperative peritonitis. Sepsis in obstetrics: etiology, pathogenesis, classification, diagnostics, nowadays principles of the treatment, prevention. Septic shock, emergency aid. Methods of lactation suppression.

#### **Topic 15. Management of the pregnant and postpartum woman. Processing and defense of educational case clinical history of labor.**

Examination of pregnant, postpartum woman and woman in childbirth under teacher control. Participate in the labor management. The principles of consultation, including consultation due to lactational amenorrhea method (LAM). Medical ethics and deontology. Work with medical documentation. Defense of educational case clinical history of labor.

**PRELIMINARY STRUCTURE OF CREDIT TEST**  
**SECTION Physiological and pathological course of pregnancy,**  
**childbirth and the postpartum period**

Topic	Lectures	Classes	IWS
<b>Chapter. Physiological course of pregnancy, childbirth and the postpartum period</b>			
Topic 1. Female pelvis. Fetus as the object of labor		2	2
<b>Topic2.</b> Physiology of pregnancy. Methods of investigation in obstetric. Obstetric terminology	1	4	4
<b>Topic3.</b> Physiology of labor. Delivery pain relief	1	4	4
<b>Topic4.</b> Physiology of the postpartum period and newborn period.		2	2
<b>Section -Pathology of pregnancy, childbirth and the postpartum period</b>			
<b>Topic5.</b> Fetal developments abnormalities. Multiple pregnancy.		2	4
<b>Topic6.</b> Placental dysfunction, growth retardation of fetus, fetal distress.	2	4	2
<b>Topic7.</b> Immunological incompatibility between the blood of mother and fetus.		2	2
<b>Topic8.</b> Early preeclampsia. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia	2	4	4
<b>Topic9.</b> Miscarriage.		4	2
<b>Topic10.</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	4
<b>Topic 11.</b> Anomalies of uterine activity.		4	2
<b>Topic 12.</b> Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC. Intensive care and resuscitation in bleeding in obstetrics.	4	8	4
<b>Tema 13.</b> Surgical interventions in obstetrics. Maternity traumatism.		4	2
<b>Tema 14.</b> Postpartum septic diseases.		4	2

<b>Тема15.</b> Defence of the patient card		4	4
<b>Credit</b>		4	6
<b>In total: ECTS credits – 4,0 hours – 120; from them:</b>	<b>10</b>	<b>60</b>	<b>50</b>

### THEMATIC PLAN OF LECTURE

#### SECTION Physiological and pathological course of pregnancy, childbirth and the postpartum period

№ п/п	Тема	К-ть годин
1.	Early preeclampsia. Hypertensive disorders in pregnancy. Preeclampsia. Eclampsia	2
2.	Miscarriage.	2
3.	Bleeding during pregnancy, childbirth and the postpartum period. Hemorrhagic shock. DIC. Intensive care and resuscitation in bleeding in obstetrics.	2
4.	Surgical interventions in obstetrics. Maternity traumatism.	2
5.	Postpartum septic diseases.	2
	<b>In total</b>	<b>10</b>

## THEMATIC PLAN OF PRACTICAL CLASSES

### SECTION Physiological and pathological course of pregnancy, childbirth and the postpartum period

№	Topic	Number of hours
1.	Female pelvis. Fetus as the object of labor. Physiology of pregnancy. Methods of investigation in obstetric. Obstetric terminology. Perinatal care.	4
2.	Physiology of labor. Delivery pain relief	4
3.	Physiology of the postpartum period and newborn period. Fetal developments abnormalities. Placental dysfunction, growth retardation of fetus, fetal distress.	4
4.	Placental dysfunction, growth retardation of fetus, fetal distress.	4
5.	Immunological incompatibility between the blood of mother and fetus. Multiple pregnancy.	4
6.	Early preeclampsia. Hypertensive disorders in pregnancy.	4
7.	Preeclampsia. Eclampsia. Intensive therapy.	4
8.	Miscarriage.	4
9.	Anomalies of pelvic bones. Macrosomia - problem of modern obstetrics. Inconsistency fetal head and pelvis of the mother. Wrong position and breech fetus presentation.	4
10.	Anomalies of uterine activity.	4
11.	Bleeding during pregnancy, childbirth and the postpartum period.	4
12.	Hemorrhagic shock. DIC. Intensive care and resuscitation in bleeding in obstetrics.	4
13.	Surgical interventions in obstetrics. Maternity traumatism.	4
14.	Postpartum septic diseases.	4
15.	Defence of the patient card	4
	<b>In total</b>	<b>60</b>

## THEMATIC PLAN OF INDEPENDENT STUDY

**SECTION Physiological and pathological course of pregnancy,  
childbirth and the postpartum period**

№	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.	44	Ongoing control
2.	Preparation to exam	6	exam
	<b>Total number of hours</b>	<b>50</b>	

**IX. A LIST OF QUESTIONS FOR EVENTUAL CONTROL OF THE KNOWLEDGE**

**Chapter I. Physiological and pathological course of pregnancy, labor and puerperium.**

1. Organization of obstetric-gynecological care. A question about Healthcare System in motherhood and childhood in the modern legislation of Ukraine.
2. Structure and principles of working of maternity hospital. Basic indexes of work of obstetric hospital.
3. The role of female consultation in the prevention of complications of pregnancy and labor, in the perinatal care of fetus, in the prevention, diagnostics and treatment gynecological diseases.
4. The role of family physician in the prevention of perinatal morbidity and mortality.
5. Family planning program: structure and performance.
6. Medico-genetic consultation.
7. External and internal female genitalia.
8. Blood and lymphatic systems of female genitalia.
9. Physiology of the female reproductive organs.
10. Structure of female pelvis. Pelvis from the obstetric point of view. Pelvis floor.
11. Fetus as an object of labor (head sizes, sutures, fontanelles).
12. The signs of the in-term newborn and neonate's maturity.
13. Structure of gametes. Impregnation and development of fetus. Implantation.
14. Placenta: structure and functions.
15. The critical periods in embryos and fetal development.
16. Impact of the harmful factors upon the developmental process.
17. Physiological changes in the female organism during pregnancy.
18. Hygiene and nutrition of the pregnant women.

19. Methods of the pregnant women examination: diagnostics of the early and late stages of pregnancy.
20. Fetal topography in uterus.
21. Diagnostics of the early and late terms of pregnancy.
22. Calculate the estimated date of delivery and maternity leave.
23. Management of the physiological pregnancy. Gravidogram.
24. Psychoprophylaxis before labor.
25. Prodromal labor contractions, preliminary period.
26. Estimating of cervical ripening. Bishop score.
27. Biomechanics of fetal movements in occipito-anterior and occipito-posterior position.
28. The reasons of the labor onset. Regulation of the uterine activity. The methods of uterine labor activity registration. Monitoring in the labor.
29. Periods of labor. The difference in their duration in primipara and multipara.
30. Period of cervical effacement in labor. Clinical presentation and management. Partogram.
31. Period of pushing efforts. Clinical presentation and management.
32. Placental period (the third period of labor). Signs of placental separation. Clinical presentation and management (physiological and active management).
33. Conservative methods of placental separation.
34. Methods of estimation of after-birth condition of placenta. Physiological and pathological blood loss.
35. Clinical evaluation of the newborn infant (Apgar scoring method).
36. The first hygienic newborn care. Thermal control of the newborn (the warm chain).
37. Methods of analgesia and anesthesia during labor: without or with medicines.
38. Clinical signs and management of the postpartum period.
39. The changes in the postpartum woman organism, reproductive organs, breasts.
40. Principles of breast-feeding.
41. Postpartum contraception. The lactational amenorrhea method (LAM).
42. Anatomy & Physiology of Neonates.
43. Newborn Care.
44. Benefits of Rooming-in with newborn.
45. Classification of the breech presentation. The reasons of the breech presentation.
46. Diagnostics and peculiarities of the labor management.
47. Fetal malposition: classification, diagnostics, labor management.
48. Extended head presentation: classification, diagnostics.
49. Correction of the malposition and breech presentation during the pregnancy.
50. Embryonic and fetal periods. Blasto-, embryo-, fetopathy. Diagnostics of fetal development defects in different periods of pregnancy.
51. Anomalies of the extraembryonic membrane/ placenta, fetal membranes and umbilical cord. Hydatiform mole.
52. Oligohydramnion and polyhydramnion: reasons, diagnostics, management, fetal and neonatal outcomes.
53. Inherited and congenital diseases of the fetus. Diagnostics. Indication for the

- medicogenetic consultation.
54. Multiple pregnancy: classification, diagnostics.
  55. Peculiarities of the course, management of multiple pregnancy. Prevention of complications.
  56. Placental insufficiency. Classification, diagnostics, treatment.
  57. Fetal distress: risk factors, classification, diagnostics, management of the pregnancy, prevention.
  58. Intrauterine fetal growth retardation: risk factors, classification, diagnostics, management of the pregnancy, prevention.
  59. Diagnostic methods of well-being of fetus: noninvasive: USS, CTG, Fetal biophysical profile, Doppler assessment, MRI: invasive – amniocentesis, cordocentesis.
  60. Cytogenetic and biochemical tests in different terms of pregnancy.
  61. Immunologic incompatibility between the maternal and fetal blood (Rh-, ABO-incompatibility, white blood cell isoimmunization et al.).
  62. Pathogenesis of immunological conflict, modern system of diagnostics and treatment.
  63. A conduct of pregnancy and determination of optimum term of births in case of immunization of rhesus.
  64. Prevention of immunological conflict.
  65. Early gestosis. Ptyalism gravidarum, vomiting. Pathogenesis, clinical presentation, diagnostics, treatment.
  66. Hypertensive disorders in pregnancy, classification.
  67. Preeclampsia: pathogenesis, classification, clinical presentation, diagnostics, management, treatment, prevention.
  68. Eclampsia: clinical presentation, diagnostics, complications, emergency aid, management.
  69. Rare forms of gestosis.
  70. Causes of spontaneous miscarriages in different terms of pregnancy. Classification, clinical presentation, diagnostics, treatment, prevention.
  71. Threatened preterm labor: diagnostics, treatment, obstetric management.
  72. Cervical insufficiency (etiology, clinical features, diagnosis, treatment).
  73. Prevention of miscarriage.
  74. Anatomical and clinical contracted pelvis.
  75. Classification of anatomical contracted pelvis. Diagnostics.
  76. Peculiarities of the labor course and management.
  77. Diagnostics of the synclitism and asynclitism.
  78. Labor in breech presentation and malposition.
  79. Biomechanics of fetal movements and the manual aid in breech presentation.
  80. The manual aid in breech presentation.
  81. Management of multiple labor.
  82. Abnormalities of the uterine contractile activity. Classification, risk factors.
  83. Pathogenesis of the different types of uterine contractile activity abnormalities.
  84. Weakness of labor. Etiology, clinical features, diagnosis and treatment of primary and secondary uterine inertia.



85. Discoordination of the uterine contractile activity. Clinical presentation, diagnostics, treatment.
86. Uterine hyperstimulation (Tachysytole). Clinical presentation, diagnostics, treatment.
87. Prevention of the uterine contractile abnormalities. Perinatal outcomes.
88. Fetal distress in the labor: diagnostics, management.
89. Placenta previa: etiology, pathogenesis, classification, clinical presentation, diagnostics.
90. Peculiarities of the course and management of pregnancy and labor. Obstetrical tactics.
91. Preterm placental abruption: etiology, clinical presentation, diagnostics. Obstetrical tactics. Couvelaire uterus.
92. Abnormal detachment of the placenta. Uterine bleeding in the third stage of the labor and postpartum period.
93. Uterine bleeding during postpartum period. Hypotonic hemorrhage.
94. Coagulopathy hemorrhage (the amniotic fluid embolism and the other reasons).
95. Hemorrhagic shock, life-threatening conditions in obstetrics.
96. Disseminated intravascular coagulation syndrome.
97. Intensive care and resuscitation in obstetrics, when the obstetrical bleeding occurs.
98. Common definitions about obstetric surgery. Indications, prerequisites, contraindications. Preparing. Examinations. Instruments.
99. Surgical abortion in the early and late stages of pregnancy.
100. Operative procedures for the preparing birth canal (perineo-, episiotomy, amniotomy).
101. Forceps. Vacuum extraction. Indications, prerequisites, contraindications.
102. Operative procedures in the third stage of the labor and postpartum period.
103. Manual removal of the placenta, expulsion of the placenta and membranes.
104. Cesarean section in modern obstetrics. Indications, contraindications. Cesarean section types.
105. Surgical intervention in the management of postpartum hemorrhage. Uterine and ovarian arteries ligation. Supravaginal and complete hysterectomies. Hypogastric arteries ligation: indications.
106. Vulvar, vaginal and perineal tears.
107. Cervical tears in labor.
108. Uterine rupture during pregnancy and labor: classification, disease-causing mechanism.
109. Clinical presentation of the threatened, incomplete and complete uterine rupture.
110. Peculiarities of the cesarean scar rupture. Diagnostics, treatment, prevention.
111. Uterine inversion. Reasons. Management.
112. Symphysis pubis diastasis and rupture in labor.
113. Postpartum fistulas. Etiology, diagnostics, treatment.
114. Main clinical types of postpartum septic diseases. Classification, etiology, pathogenesis.
115. Metroendometritis, postpartum metrophlebitis, mastitis. Clinical presentation,

- diagnostics, nowadays principles of the treatment.
116. Postpartum and postoperative peritonitis. Clinical presentation, diagnostics, nowadays principles of the treatment.
  117. Sepsis in obstetrics: classification, clinical presentation diagnostics, nowadays principles of the treatment.
  118. Septic shock, emergency aid.
  119. Prevention of the septical postpartum complications.
  120. **Methods of lactation suppression.**

**Recalculation of the average grade for ongoing activity into multi-score 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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