

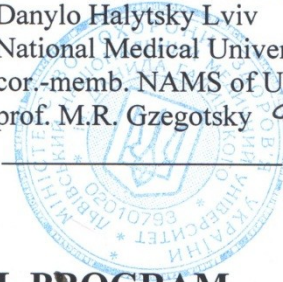
**DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY**

**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.R. Gzegotsky

«  » 2021 p.



**EDUCATIONAL PROGRAM**

**selective discipline**

**"Industrial medical practice in the maternity department"**

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

Faculty, course: Medical faculty, 4 year

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

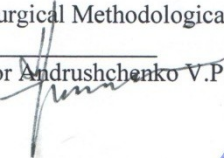
meeting report № 6/79  
"26" March 2021

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 № 11  
"15" April 2021

Head  
of the Surgical Methodological Commission

  
Professor Andrushchenko V.P.

2021



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The updated working curriculum was prepared by:

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Changes and additions to the curriculum for the 2021-2022 academic year

<b>№</b>	<b>Contents of changes (additions)</b>	<b>Date and Protocol № of the department meeting</b>	<b>Notes</b>
1.	The list of recommended literature has been updated by modern sources in Ukrainian and English	Protocol No. 6/79 from "26" March 2021	

Head of Department  
obstetrics and gynecology  
Doctor of Medical Sciences, Corresponding  
Member of the National Academy of Medical  
Sciences of Ukraine,  
prof. LB Markin



## INTRODUCTION

**The program of study of the discipline** "Industrial medical practice in the maternity department" is made in accordance with the Standard of higher education of Ukraine of the second level of higher education for the training of masters

(name of higher education level)

areas of knowledge 22 - health care

(code and name of the field of knowledge)

specialty 222 "Medicine"

(code and name of the specialty)

specialization (s).

(code and name of specialization)

educational program Educational-professional program of the second level of higher education for the preparation of masters

(name of educational program)

**Description of the discipline (abstract)** The internship of students of higher medical educational institutions of III-IV levels of accreditation is an important link in the training of doctors and an integral part of the educational process.

According to the curriculum, medical practice is provided in the VIII semester, when the student has acquired relevant knowledge in the main clinical disciplines: internal medicine, surgery, pediatrics and obstetrics.

The practice of medical students is carried out as an assistant doctor in the maternity (obstetrics and gynecology) department. The internship of fourth-year students is held after the end of the semester. All the time of practice is an independent work of students, which is monitored and evaluated by supervisors - from the hospital and the department. Students who do not complete the midwifery internship program without good reason, receive an unsatisfactory grade for the internship, and do not settle their academic debt by the beginning of the next semester are expelled from the University.

Obstetric and gynecological departments of the I, II, III level of care can act as bases of industrial practice.

The structure of the discipline	Number of credits, hours, of them			Year of study semester	Type of control	
	Total	Classroom				Ind. work
		Lectures (hours)	Practical classes (hours)			
Course title: "Industrial medical practice in the maternity department" (optional)	6.0 credits / 180 hours	0	0	180	4th year (VIII semester)  Differentiated credit	

**The subject** of the discipline is the anatomical and physiological features of the female body, diseases of the female genitals, physiological and pathological processes occurring in the body of a woman associated with conception, pregnancy, childbirth and the postpartum period, methods of diagnosis, prevention and treatment.

**Interdisciplinary links:** according to the curriculum, the study of the discipline is carried out when the student has acquired relevant knowledge of the basic basic disciplines. The discipline is based on the knowledge obtained by students in the study of medical biology, normal and pathological anatomy, topographic anatomy, normal and pathological physiology of the female reproductive system, histology and embryology, microbiology, pharmacology, clinical genetics, internal, occupational and infectious diseases, surgery, surgery, social medicine, health organization and economics and integrates with these disciplines.

### **1 The purpose and objectives of the discipline**

1.1. The purpose of teaching the discipline "Industrial practice in the maternity department" is to consolidate the knowledge and practical skills acquired in the study of basic clinical and theoretical disciplines and their further deepening and improvement while working in treatment and prevention facilities, as well as acquaintance with the work of a doctor future activities on the basis of city and regional medical and preventive institutions with the organization of medical and anti-epidemic work, with the basics of ethics and medical deontology for the acquisition and consolidation of skills of sanitary and educational work, the basics of health care.

1.2 The main objectives of the discipline "Industrial medicine practice in the maternity department" is to consolidate practical skills within the goals defined in the educational-professional training program of the second (master's) level of higher education in the field of knowledge 22 "Health", specialty 222 "Medicine" .

**1.3 Competences and learning outcomes,** the formation of which is facilitated by the discipline (interrelation with the normative content of higher education training, formulated in terms of learning outcomes in the Standard).

According to the requirements of the standard, the discipline provides students with the acquisition of **competencies:**

Integral competencies:

Ability to solve typical and complex specialized problems and practical problems in a professional health care activity, or in a learning process that involves research and / or innovation and is characterized by the complexity and uncertainty of conditions and requirements.

General competencies:

GC1 . Ability to abstract thinking, analysis and synthesis.

GC2. Ability to learn and master modern knowledge.

GC3. Ability to apply knowledge in practical situation.

GC4. Knowledge and understanding of the subject area and understanding of professional activity.

GC5. Ability to adapt and act in a new situation.

GC6. Ability to make informed decisions.

GC7. Ability to work in a team.

GC8. Interpersonal skills

GC9. Ability to communicate in the state language both orally and in writing.

GC10. Ability to communicate in a foreign language.

GC11. Skills in the use of information and communication technologies.

GC12. Definiteness and perseverance in terms of tasks and responsibilities.

GC13. The ability to act socially responsibly and consciously.

GC14. The desire to preserve the environment.

GC15. Ability to act on the basis of ethical considerations (motives).

Special (professional, subject) competencies:

PC1. Skills of interviewing and clinical examination of the patient.

- PC2. Ability to determine the required list of laboratory and instrumental studies and evaluate their results.
- PC3. Ability to establish a preliminary and clinical diagnosis of the disease.
- PC4. Ability to determine the required mode of work and rest in the treatment of diseases.
- PC5. Ability to determine the nature of nutrition in the treatment of diseases.
- PC6. Ability to determine the principles and nature of disease treatment.
- PC7. Ability to diagnose emergencies.
- PC8. Ability to determine the tactics of emergency medical care.
- PC9. Emergency care skills.
- PC11. Skills to perform medical manipulations.
- PC12. Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counseling skills.
- PC 13. Ability to carry out preventive measures.
- PC 15. Ability to determine the tactics of management of persons subject to dispensary supervision.
- PC17. Ability to keep medical records

### Matrix of competencies

№	Competencies	Knowledge	Skills	Communication	Autonomy and responsibility
	General competencies:				
1	Ability to abstract thinking, analysis and synthesis.	+	+	+	+
2	Ability to learn and master modern knowledge	+	+	+	+
3	Ability to apply knowledge in practical situation	+	+	+	+
4	Knowledge and understanding of the subject area and understanding of professional activity.	+	+	+	+
5	Ability to adapt and act in a new situation.	+	+	+	+
6	Ability to make informed decisions.		+		+
7	Ability to work in a team.			+	+
8	Interpersonal skills			+	+
9	Ability to communicate in the state language both orally and in writing.	+	+	+	+
10	Ability to communicate in a foreign language.	+	+	+	+
11	Skills in the use of information and communication technologies.	+	+	+	+
1	Definiteness and perseverance in terms of tasks and	+	+	+	+

2	responsibilities.				
1 3	The ability to act socially responsibly and consciously.	+	+	+	+
1 4	The desire to preserve the environment.	+	+	+	+
1 5	Ability to act on the basis of ethical considerations (motives).		+	+	+
	Special (professional, subject) competencies:				
1	Skills of interviewing and clinical examination of the patient.	+	+	+	+
2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results.	+	+		+
3	Ability to establish a preliminary and clinical diagnosis of the disease.	+	+	+	+
4	Ability to determine the required mode of work and rest in the treatment of diseases.	+	+	+	+
5	Ability to determine the nature of nutrition in the treatment of diseases.	+	+	+	+
6	Ability to determine the principles and nature of disease treatment.	+	+	+	+
7	Ability to diagnose emergencies.	+	+	+	+
8	Ability to determine the tactics of emergency medical care.	+	+	+	+
9	Emergency care skills	+	+	+	+
1 1	Skills to perform medical manipulations.	+	+	+	+
1 2	Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counseling skills.	+	+	+	+
1 3	Ability to carry out preventive measures.		+	+	+
1 4	Ability to determine the tactics of management of persons subject to dispensary supervision.	+	+	+	+
1 5	Ability to determine the tactics of management of persons subject to dispensary supervision.	+	+	+	+
1 7	Ability to keep medical records	+	+	+	+
	Integral competencies				

	Ability to solve typical and complex specialized problems and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements	+	+	+	+

#### Information volume of the discipline

6 ECTS credits of 180 hours (4 working weeks, 20 working days) are allocated for the study of the academic discipline.

№ з/ п		Hours
1	Structure and organization of the maternity ward; scope and forms of work of an obstetrician-gynecologist	2
2	Work in the reception department	30
3	Work in the department of miscarriage (gynecological department)	40
4	Work in the Department of Pathology of Pregnancy	40
5	Work in the obstetric department (delivery room, postpartum department)	64
5. 1	of them Alternation in the maternity ward	12+12
6	Credit	4
	Total	180

#### The student must know:

Anatomy and physiology of female genital organs  
 Physiology of pregnancy  
 Changes in the woman's body during pregnancy  
 Changes in laboratory parameters during pregnancy (by trimesters)  
 Physiology of labor, biomechanism of labor  
 Signs of the onset of labor  
 Physiology of puerperium  
 Contraception  
 Algorithm of actions in emergencies in obstetrics

#### The student must be able to

Identify signs of pregnancy  
 Diagnose pregnancy  
 Conduct an external examination of the pregnant woman  
 Determine the gestational age, the expected date of delivery



Determine the estimated weight of the fetus  
 Interpret the results of laboratory methods of examination  
 Interpret the results of instrumental methods of examination (CTG, ultrasound, BPP, Doppler)  
 Conduct physiological childbirth and the postpartum period  
 Assist in surgical interventions  
 Fill in medical documentation (including partogram), enter data into medical electronic systems (e-Helsi)

**LIST OF SKILLS AND SKILLS,  
 WHICH A STUDENT SHOULD ACQUIRE DURING THE PRACTICE  
 AND THEIR EVALUATION IN POINTS**

№	List of skills and abilities	Minimal number of manipulations	Scores
1-3	Collection of anamnesis, assessment of patient complaints - determination of pregnancy - determination of the expected date of delivery - determination of signs of the beginning of childbirth	10	3-5 3-5 3-5
4-8	External examination of the pregnant woman: - measuring the external dimensions of the pelvis - definition of a true conjugate - determination of the location of the fetus (Leopold's techniques) - measuring the height of the uterine fundus - determination of the estimated weight of the fetus -	10	3-5 3-5 3-5 3-5 3-5
9	Evaluation of general clinical methods of examination (blood analysis, examination of urine, coagulogram, biochemical analysis of blood, etc.)	20	3-5
10	Determination of permissible physiological blood loss in childbirth	10	3-5
11	Internal obstetric examination (during pregnancy, childbirth)	5	3-5
12	Examination of the cervix in mirrors, determination of signs of amniotic fluid leakage	5	3-5
13	Determining the degree of purity of the vagina	5	3-5
14	CTG recording and interpretation	5	3-5

15	Evaluation of CTG, ultrasound, BPP, Doppler results	5	3-5
16	Assessment of the dynamics of labor (partogram)	5	3-5
17	Management of the third period of childbirth (signs of placental abruption, active tactics, expectant tactics)	5	3-5
18	Visual assessment of blood loss	2	3-5
19	Assistance during the operation	1	3-5
20	Assessment of the newborn on the Apgar scale	5	3-5
21	Management of the postpartum period, assessment of uterine involution	10	3-5
22	Intravenous drug injectoin	10	3-5
23	Talk to the mother about the benefits, principles, rules of breastfeeding, methods of postpartum contraception	5	3-5
24	Duty	2 on 12 h	3-5

**Note:**

0 points - the student makes significant mistakes in answering and performing practical skills;  
3 points - the student has mastered the theoretical material, has a satisfactory practical training, but mistakes are made in the performance of manipulation, interpretation of the results of additional research methods;

4 points - the student has mastered the theoretical material, is able to methodically properly examine the patient, perform diagnostic and therapeutic manipulations, but assumes some inaccuracies in the answer and practical skills;

5 points - the student has mastered the theoretical material, methodically correctly examines the patient, performs diagnostic and therapeutic manipulations

**Methods of control** The following types of control are used in the study of the discipline "Industrial medical practice in the maternity department":

1. Current control using standardized methods of diagnostics of knowledge, skills and abilities.
2. Final control.

Evaluation of production practice is carried out on a traditional (four-point) and 200-point scale. The grade for practice consists of the sum of points for the student's practical skills (current control), which are checked by the immediate supervisor from the practice base (120-72 points), and points for final control, which are set during the differentiated test (maximum 80 points - minimum 50). points).

**Curent control** is carried out daily in accordance with the specific objectives of the topic by determining the level of acquired practical skills. When assessing the current activity of a student in industrial practice in obstetrics, the criterion of quality is the acquisition of practical skills, abilities, knowledge provided by the program: checking the correctness of tasks, determining the level of

acquired practical skills - collecting history and conducting objective examination, evaluation of basic laboratory and instrumental research, substantiation of diagnosis and appointments, ability to assist and accept normal childbirth; assist in operations, especially urgent; correctly fill in birth histories.

The form of final control in the discipline "Industrial medical practice in the maternity department" in accordance with the curriculum is a differentiated test.

Students who have completed the internship program, have properly executed reporting documents and received at least 72 points for current activities are admitted to the final control.

Final control of industrial (medical) practice of fourth-year students involves the demonstration of skills and practical skills in each section and the solution of 80 test tasks on the platform of distance learning *misa*.

The maximum number of points that a student can receive during the final control is 80 points:

The final control is considered credited if the student scored at least 50 points.

The maximum number of points that can be scored by a student in industrial practice in obstetrics is 200 points (120 points for current activities + 80 points for differentiated credit).

The minimum number of points that a student can score when taking the final control is 122 points (72 points for current activities + 50 points for differentiated credit).

Scores in the discipline "Industrial medicine practice in the maternity department" are independently converted into both the ECTS scale and the 4-point scale. ECTS scale scores are not converted to a 4-point scale and vice versa.

The scores of students majoring in 222 "Medicine", taking into account the number of points scored in the discipline, are ranked on the ECTS scale as follows:

Rating ECTS	Statistical indicator
A	The best 10% of students
B	The next 25% of students
C	The next 30% of students
D	The next 25% of students
E	The last 10% of students

Points of industrial practice in obstetrics for students who have successfully completed the program are converted into a traditional 4-point scale according to the absolute criteria, which are given in the table:

Points in the discipline	Score on a 4-point scale
From 170 to 200 points	5
From 140 to 169 points	4
From 139 to 122 points	3
Lower 122 points	2

## Methodical support

Methodical developments in practice

Electronic bank of test tasks, situational tasks.

A set of tables for all sections of obstetrics and gynecology.

Models and phantoms •

## Recommended references

### Basic

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2. Маркін Л.Б.,КориткоО.О.,Попович А.І.,ШаховаО.В.,Святоцька О.В.Кунинець Г.Я.Пилипчук І.С.,Флуд В.В.Методичні рекомендації виробничої практики студентів 4 курсу медичного факультету з акушерства-Львів, 2011
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8. Obstetrics:підручник англійською мовою (edsted by Academicscan of NAS of Ukraine prof.V.I.Gryshchenko,prof M.O.Shcherbina).-К.:AUS MEDICINE PUBLISHING,2014.- 391p.
9. Pragmatic obstetrics and gynecology:підручник англійською мовою Markin L.B.,Zimenzovsky A.B.,Podolskyi Vol.V. and other, LNMU name after Danylo Halatsky,2021.-236p.

### Optional

1. Запорожан В.М., Міщенко В.П. Акушерська патологія: атлас, навчальний посібник. - Одеса:Одеський медуніверситет,2005.- 292 с.
2. Запорожан В.М., Цегельський М.Р. Гінекологічна патологія: атлас, навчальний посібник. - Одеса:Одеський медуніверситет,2002
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4. Клінічні аспекти сучасної перинатології: навчально-методичний посібник (за ред. Вдовиченко Ю.П.).- К., 2005.
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12. Pregnancy, Childbirth, Postpartum and Newborn Care: A guide for essential practice. WHO, Geneva, 2006

13. Діючі «Клінічні протоколи» затвержені наказом МОЗ України з акушерства і гінекології

### Information resources

1. <http://misa.meduniv.lviv.ua/course/view.php?id=2084>

2. <http://www.library.gov.ua/>

3. <http://www.med2000.ru/article/article118.htm>

Additions

to the work program

"Industrial medical practice in the maternity department"