

# INTERNATIONAL EUROPEAN UNIVERSITY

## *Education and Research Institute “European Medical School”*

### RECORD BOOK OF MEDICAL PRACTICAL TRAINING

students \_\_\_\_\_  
(Student's full name)

department \_\_\_\_\_

Degree level Master  
Field of study 22 «Health care»  
Specialty 222 «Medicine»  
year \_\_\_\_\_ group \_\_\_\_\_

KYIV 2023

Student

\_\_\_\_\_

(full name)

is undergoing on-the-job medical practice in the scope of doctor assistant's responsibilities at the base: \_\_\_\_\_

\_\_\_\_\_

(name of medical institution)

in \_\_\_\_\_

(city, region)

Period of practical training: from \_\_\_\_\_ to \_\_\_\_\_, 20\_\_\_\_.

Supervisor of on-the-job practical training from the Department: \_\_\_\_\_

\_\_\_\_\_

(position, full name, signature)

Supervisor of on-the-job practical training from the medical institution: \_\_\_\_\_

\_\_\_\_\_

(position, full name)

Direct supervisor of practical training from the medical institution: \_\_\_\_\_

\_\_\_\_\_

(position, full name)

Student arrived on \_\_\_\_\_, 20\_\_\_\_ left on \_\_\_\_\_, 20\_\_\_\_

Signature of the responsible person \_\_\_\_\_

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**Щоденник обговорено і затверджено на засіданні Вченої ради ННІ  
«Європейська медична школа» (протокол № 9 від 23.05.2023)**

## GENERAL PROVISIONS

On-the-job medical practice is conducted in accordance with the training medical schedule and practical training program in the 4<sup>th</sup> year after the summer exam session. The scope of on-the-job medical practice of medical students is carried out as doctor assistants at therapeutic, surgical and pediatric departments and maternity hospitals of regional, city and district healthcare institutions.

The department should have a student work schedule. Doctors (heads of departments) are direct supervisors of student practical training.

Before going to practical training, students should be instructed by the supervisor of practical training from the Department and provided with the program and record book of practical training and appointment to medical practice.

Arriving at the healthcare institute, students should give the record book to the supervisor from the practical base, undergo a safety briefing and specify the practical training plan. Students must strictly comply with the internal rules of the healthcare institution during the internship.

Students draw up the report on practical training in accordance with the practical training schedule and additional instructions by supervisors of practical training from the university and healthcare institution.

The **goal** of on-the-job medical practice is to achieve the final objectives stipulated in the educational and professional program in specialties: 22 Public Health and 222 Medicine and is the framework for the content of on-the-job practical training.

### **Ultimate goals of on-the-job medical practice:**

Consolidation of knowledge and practical skills acquired while learning basic clinical and theoretical disciplines and their further deepening and advancement during work at medical and preventive treatment facilities, as well as introduction to medical operations in the context of future activities at district, city and regional medical and preventive treatment facilities.

### **Specific goals of Patient care on-the-job practical training:**

- to conduct questioning and physical examination of patients and analyze the results,
- to plan the clinical course of the disease,
- to analyze the results of laboratory and instrumental examination methods,
- to define the key pathological symptoms and syndromes of the most common diseases,
- to conduct differential diagnostics and make a preliminary diagnosis of the most common diseases,
- to interpret the general principles of treatment, rehabilitation and prevention of the most common diseases,
- to take part in the provision of emergency care in case of urgent conditions,
- to perform necessary medical manipulations,
- to acquire knowledge of moral and deontological principles in medical activities and principles of professional subordination in the clinic.

## **PRACTICAL TRAINING PLAN**

**Content module 1.** Doctor's key responsibilities and professional activities at the therapeutic department of a hospital.

*Topic 1:* principles of organizing routine and emergency therapeutic care in Ukraine.

*Topic 2:* advancement of questioning and physical examination of patients with basic diseases of respiratory, digestive, hematopoietic and endocrine systems.

*Topic 3:* acquisition of skills in interpreting laboratory and instrumental examination methods in internal medicine.

*Topic 4:* advancement of skills in substantiating and establishing the diagnosis in case of basic diseases of respiratory, digestive, hematopoietic and endocrine systems.

*Topic 5:* treatment prescription, primary and secondary prevention in case of basic diseases of respiratory, digestive, hematopoietic and endocrine systems.

*Topic 6:* acquisition of emergency care skills in the internal medicine clinic.

*Topic 7:* application of principles of ethics and deontology in medical practice at the therapeutic department.

**Content module 2.** Doctor's key responsibilities and professional activities at the surgical department of a hospital.

*Topic 8:* principles of organizing routine and emergency surgical care in Ukraine.

*Topic 9:* advancement of skills in clinical, laboratory and instrumental diagnostics and treatment techniques for basic surgical diseases in the hospital.

*Topic 10:* acquisition of emergency care skills in case of urgent surgical diseases.

*Topic 11:* application of principles of ethics and deontology in medical practice at the surgical department.



**Content module 3.** Doctor's key responsibilities and professional activities at the pediatric department of a hospital.

*Topic 12:* principles of organizing medical care delivery to children in Ukraine, fundamentals of Ukrainian legislation on children healthcare.

*Topic 13:* advancement of skills in clinical, laboratory and instrumental diagnostics and treatment techniques for basic pediatric diseases in the pediatric hospital.

*Topic 14:* acquisition of emergency care skills in case of urgent conditions among children.

*Topic 15:* application of principles of ethics and deontology in medical practice at the pediatric department.

**Content module 4.** Doctor's key responsibilities and professional activities in the maternity ward of a hospital.

*Topic 16:* principles of organizing medical care delivery to pregnant and parturient women in Ukraine, fundamentals of Ukrainian legislation on maternal and child healthcare.

*Topic 17:* advancement of diagnostics of early and late pregnancy. Clinical, laboratory and instrumental diagnostics and treatment techniques for complications of pregnancy, childbirth and the postpartum period in an obstetric hospital.

*Topic 18:* acquisition of emergency care skills in obstetrics.

*Topic 19:* application of principles of ethics and deontology in medical practice in the maternity ward.

*Topic 20:* final knowledge control in the form of **graded test**.

## CONTENT OF PRACTICAL TRAINING

**List of practical skills** that should be acquired by four-year medical students during on-the-job medical practice at the therapeutic department of a hospital:

| No.   | List of skills and abilities   |
|-------|--|
| 1     | 2  |
| 1- 6. | Methods of patient physical examination and assessment of examination results: <ul style="list-style-type: none"> <li>- cardiovascular system</li> <li>- respiratory organs</li> <li>- gastrointestinal tract</li> <li>- urinary system</li> <li>- locomotor system</li> <li>- endocrine system</li> </ul> |
| 7.    | Blood pressure measurement on the upper and lower extremities  |
| 8.    | Assessment of general and biochemical blood tests, troponin test   |
| 9.    | Interpretation of general urinalysis and results of Zimnitsky, Nechiporenko and Rehberg tests  |
| 10.   | Interpretation of coagulogram, lipidogram  |
| 11.   | Interpretation of enzyme immunoassay for viral hepatitis   |
| 12.   | Interpretation of gastric and duodenal probing results   |
| 13.   | ECG recording and transcription technique, interpretation of Holter ECG monitoring and veloergometry findings  |
| 14.   | Interpretation of echocardiographic data   |
| 15.   | Interpretation of external respiratory data  |
| 16.   | Interpretation of radiography and fluoroscopy data   |
| 17.   | Interpretation of computed tomography and magnetic nuclear tomography data   |
| 18.   | Interpretation of endoscopic data and pH-metry data  |
| 19.   | Clinical interpretation of abdominal ultrasound examination  |
| 20.   | Interpretation of indicators of detection of diabetes mellitus and thyroid pathology   |
| 21.   | Pleural puncture technique   |
| 22.   | Bowel cleansing technique  |
| 23.   | Allergy testing (intradermal, scarification) before administering medications. Drug injections (intravenous, intramuscular and subcutaneous), bloodletting, blood group and Rh factor determination  |
| 24.   | Treatment of diseases of internal organs in accordance with the current protocols of medical care approved by the Ministry of Health of Ukraine  |

## FINAL CONTROL OF PRACTICAL TRAINING

### Scoring system

#### Rating system of scores given to students

To intensify the educational process, namely: increasing learning motivation, consistency in learning training materials, establishing a feedback with each student, timely monitoring and correction of the educational process, reducing absences, as well as increasing the responsibility of students for learning activities, performance of each student is assessed on a rating scale.

**The maximum amount of scores that can be obtained for the discipline is 200, including the maximum amount of scores for current learning activities (content modules) – 120.**

#### **List of abilities and practical skills to control the learning of content module 1: Doctor's key responsibilities and professional activities at the therapeutic department of a hospital**

|   | Abilities and practical skills   | Maximum amount of scores | Obtained scores | Signature |
|---|--|--------------------------|-----------------|-----------|
| 1 | Questioning and physical examination of patients with basic respiratory, digestive, hematopoietic and endocrine diseases.  | 5                        |                 |           |
| 2 | Assessment of clinical, biochemical and bacteriological tests of blood, urine, feces and sputum.   | 5                        |                 |           |
| 3 | Assessment of the instrumental examination data: X-ray examination of chest and abdominal cavity organs, ECG, spirometry, abdominal cavity sonography, fibrogastroduodenoscopy, colonoscopy.       | 5                        |                 |           |
| 4 | Rationale and formulation of a clinical diagnosis.   | 5                        |                 |           |
| 5 | Interpretation of general principles of treatment, primary and secondary prevention in case of basic respiratory, digestive, hematopoietic and endocrine diseases.                                 | 5                        |                 |           |
| 6 | Emergency care in urgent situations (conditions) in case of acute respiratory failure (an attack of bronchial asthma); hepatic colic; diabetic comas, hyperthyroidism, acute adrenal failure, etc. | 5                        |                 |           |

**List of abilities and practical skills to control the learning of content module 2:  
Doctor's key responsibilities and professional activities at the surgical department  
of a hospital:**

|   | Abilities and practical skills   | Maximum amount of scores | Obtained scores | Signature |
|---|--|--------------------------|-----------------|-----------|
| 1 | Assessment of anamnesis data, physical examination: patient examination, palpation, percussion, auscultation, rectal examination.  | 4                        |                 |           |
| 2 | Analysis of the laboratory and instrumental examination findings (X-rays, ultrasound, CT scan, fibrogastroduodenoscopy, colonoscopy).  | 5                        |                 |           |
| 3 | Rationale and formulation of a clinical diagnosis, differential diagnostics of abdominal cavity diseases.  | 4                        |                 |           |
| 4 | Definition of the conservative and surgical treatment plan depending on pathogenetic factors and severity of the patient's condition.  | 4                        |                 |           |
| 5 | Particularities of assisting during emergency and planned surgeries.   | 5                        |                 |           |
| 6 | Particularities of assisting in the bandaging room: care of the wound, drains, change of bandages, removal of drains, removal of sutures, dilatation of the wound, surgical treatment of the purulent focus. | 5                        |                 |           |
| 7 | Emergency care in case of bleeding, septic and hemorrhagic shock; correction of water-electrolyte disorders and acid-base state, etc.  | 3                        |                 |           |



**List of abilities and practical skills to control the learning of content module 3:  
Doctor's key responsibilities and professional activities at the pediatric department of a  
hospital**

|   | Abilities and practical skills  | Maximum amount of scores | Obtained scores | Signature |
|---|---|--------------------------|-----------------|-----------|
| 1 | Patient examination, rationale and formulation of a diagnosis, medical history writing.   | 4                        |                 |           |
| 2 | Blood pressure measurement on the arms and legs.  | 3                        |                 |           |
| 3 | Assessment of clinical tests (general blood test for children of different ages, general urine test, Zimnitsky urine test, Nechiporenko urine test, general fecal analysis, general sputum analysis), biochemical tests (blood protein content and its fractions, alkaline phosphatase, cholesterol, AST, ALT, acute phase indicators, blood creatinine and urea, blood electrolytes, urine diastase test), serological reactions during autoimmune diseases. | 3                        |                 |           |
| 4 | ECG analysis.   | 4                        |                 |           |
| 5 | Assessment of fibrogastroduodenoscopy data with pH-metry, urease test results.  | 4                        |                 |           |
| 6 | Assessment of spirometry, bronchoscopy, echocardiography data.  | 4                        |                 |           |
| 7 | Assessment of radiographs of the chest, digestive and genitourinary systems.  | 4                        |                 |           |
| 8 | Diagnostics and emergency care for children with spasms, hyperthermia, exsiccosis and toxicosis among children of the first year of life, dizziness, collapse, pulmonary and laryngeal edema, bronchospasm, asthmatic status, heart rhythm disorders, heart failure, infectious toxic shock, acute renal and hepatic failure, complications of vaccination and drug therapy (allergic reactions).   | 4                        |                 |           |

**List of abilities and practical skills to control the learning of content module 4:  
Doctor's key responsibilities and professional activities in the maternity ward of  
a hospital**

|    | Abilities and practical skills  | Maximum amount of scores | Obtained scores | Signature |
|----|---|--------------------------|-----------------|-----------|
| 1  | External obstetric examination of pregnant women, measurement of pelvic dimensions, determination of the true conjugate.                | 2                        |                 |           |
| 2  | Definition of gestational age (based on anamnesis and objective examination), determination of expected childbirth date.                | 2                        |                 |           |
| 3  | Definition of fetal gestational age and weight.   | 3                        |                 |           |
| 4  | Particularities of physiological childbirth management.   | 2                        |                 |           |
| 5  | Particularities of obstetric care during childbirth and in the postpartum period.   | 3                        |                 |           |
| 6  | Determination of the newborn condition according to the Apgar Score. Assessment of the fetus condition. Initial bathing of the newborn. | 2                        |                 |           |
| 7  | Preparation of medical documents in obstetrics.   | 3                        |                 |           |
| 8  | Internal obstetrical examination in full-term pregnancy, overdue pregnancy and preterm birth.   | 3                        |                 |           |
| 9  | Drawing up a scheme of medical correction of abnormalities of childbirth activity.  | 2                        |                 |           |
| 10 | Assessment of amnioscopy and amniocentesis findings, interpretation of fetal cardiotocography, ultrasound.                              | 3                        |                 |           |
| 11 | Particularities of assisting during obstetric surgeries.  | 3                        |                 |           |
| 12 | Medical care in case of obstetric emergencies: eclampsia, obstetric hemorrhage, postpartum septic complications.                        | 2                        |                 |           |

### Allocation of scores given to students for current learning activities

| No. | Module 1                         | Maximum amount of scores |
|-----|----------------------------------|--------------------------|
| 1   | Content module 1                 | 30                       |
| 2   | Content module 2                 | 30                       |
| 3   | Content module 3                 | 30                       |
| 4   | Content module 4                 | 30                       |
|     | <b>Total per content modules</b> | <b>120</b>               |

#### *Graded test:*

The graded test is carried out at the end of the discipline. Students who perform all types of works stipulated by the training program and obtain at least the minimum amount of scores (72) while learning the discipline are admitted to the final control.

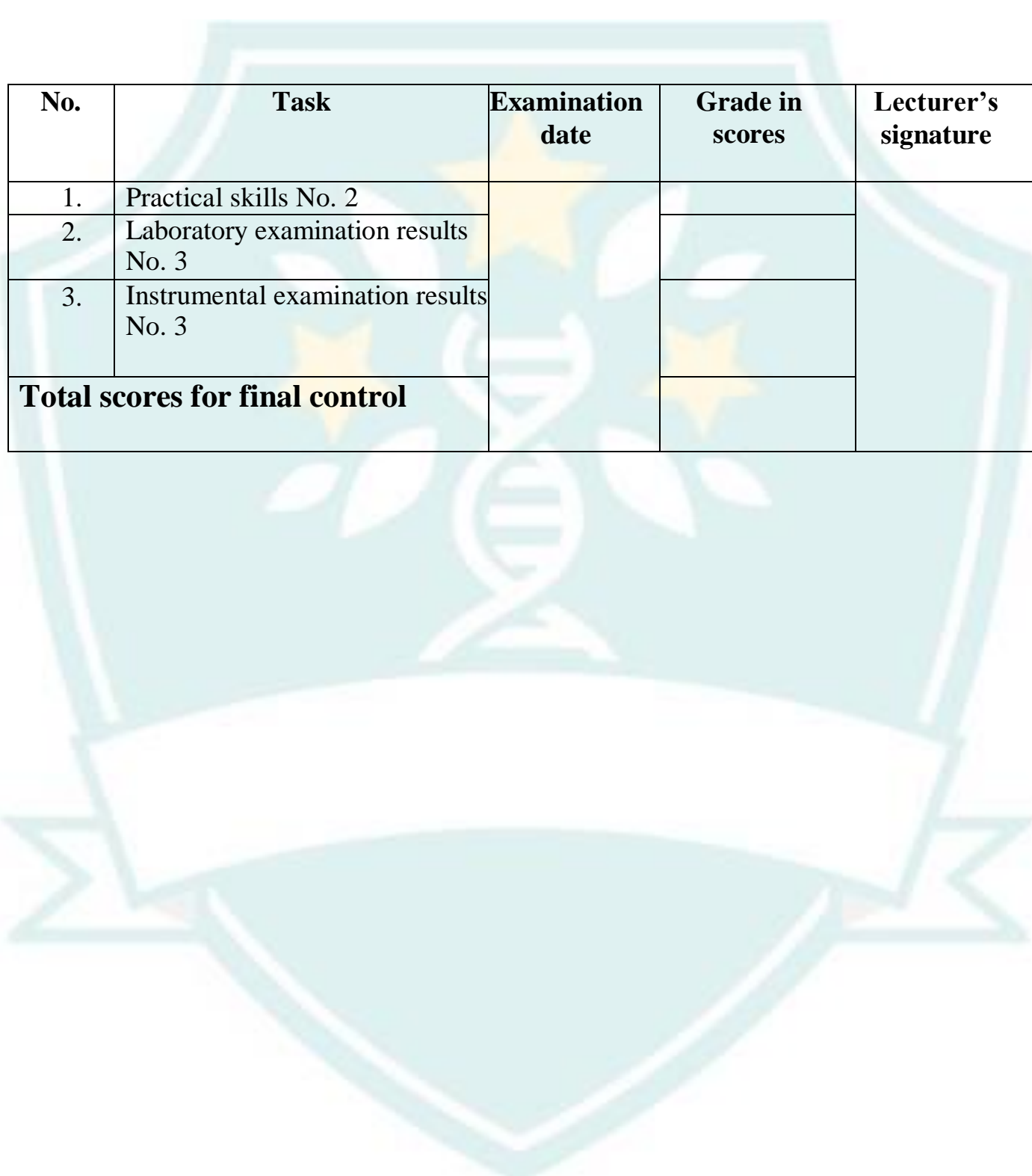
The form of final control should include the check of theoretical and practical skills.

The maximum amount of scores during the final control is 80.

The final modular control is considered passed if students obtain at least **48** scores.

#### **List of final control questions**

1. Doctor's key responsibilities and professional activities at the therapeutic department of a hospital.
2. Questioning and physical examination of patients with basic diseases of circulatory, digestive, respiratory, urinary, endocrine, locomotor and hematopoietic systems.
3. Assessment of clinical tests of blood, urine, feces.
4. Assessment of biochemical and bacteriological tests of blood, urine, sputum.
5. Assessment of the results of ECG, Echo-CG, spirometry, pH-metry, X-ray examinations, ultrasound of internal organs and endoscopic examinations.
6. Rationale and formulation of a clinical diagnosis.
7. Principles of treatment, primary and secondary prevention of basic diseases of respiratory, digestive, hematopoietic, cardiovascular, urinary, locomotor and endocrine systems.
8. Emergency care in case of asthmatic status, bronchial asthma attack, bronchoobstructive syndrome, hepatic encephalopathy, hypertensive crisis, angina attack, acute myocardial infarction, cardiac asthma, pulmonary edema, rhythm and conduction disorders, acute renal failure, complicated peptic ulcer, hepatic colic, vaccination complications (urticaria, Quincke's edema, anaphylactic shock).



| No.                                   | Task                                   | Examination date | Grade in scores | Lecturer's signature |
|---------------------------------------|--|------------------|-----------------|----------------------|
| 1.                                    | Practical skills No. 2                 |                  |                 |                      |
| 2.                                    | Laboratory examination results No. 3   |                  |                 |                      |
| 3.                                    | Instrumental examination results No. 3 |                  |                 |                      |
| <b>Total scores for final control</b> |  |                  |                 |                      |



## FEEDBACK AND ASSESSMENT OF STUDENT'S WORK DURING PRACTICAL TRAINING

From the healthcare institution

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From the university

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### GRADE FOR PRACTICAL TRAINING

| Total scores for:               |               | Total scores | Traditional grade | Date | Lecturer's signature |
|---------------------------------|---------------|--------------|-------------------|------|----------------------|
| Performance of practical skills | Final control |              |                   |      |                      |
|                                 |               |              |                   |      |                      |

Supervisor of practical training from the Department

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
(surname and initials)

## Notes

