

**MINISTRY OF HEALTH PROTECTION OF UKRAINE**  
**Donetsk National Medical University**

**Methodical instructions**  
*(methodical guidelines for industrial practice for students*  
*4th year of the Faculty of Medicine)*

**Lyman - 2022**

UDC:61 : 378.147.88] - 057.87(083.13)

Approved for publication by the Academic Council of the Donetsk National Medical University of the Ministry of Health of Ukraine Protocol No11 in 28.06.22.

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Methodical guidelines on industrial practice for students of the 4th year of the medical faculty of higher medical educational institutions / V.M. Gusev, P.F. Gyulmamedov, S.O. Zharikov et al.: methodical guidelines. – Lyman, 2022. – 20 p.

Methodical guidelines for industrial practice have been compiled for students of the second (master's) level of higher education in the specialty 222 "Medicine", 228 "Pediatrics", who are undergoing medical industrial practice (inpatient) on the basis of health care institutions. They reflect the purpose, tasks and program of practice, materials related to its organization and conduct, samples of reporting documentation. The method of conducting the final modular control is given.

The material is presented in accordance with the Master's Training Standard 222 "Medicine", 228 "Pediatrics".

Adopted at a meeting of the cycle methodical commission of DNM

## **INTRODUCTION**

*Industrial practice of higher medical school graduates is conducted to test and consolidate the knowledge and practical skills acquired during the study of the main clinical and theoretical disciplines and their further deepening and improvement during work in medical and preventive institutions, as well as to familiarize them with the organization of medical and anti-epidemic work, with the basics of ethics and medical deontology, to consolidate the skills of sanitary and educational work.*

*It lays the foundations for students to study modern diagnostic technologies used in clinical practice, which involves the integration of teaching with various disciplines and the formation of skills in the application of knowledge from modern diagnostic methods in the process of further education and in professional activities.*

### **1. Description of the educational discipline**

The industrial practice of students of the 4th year of the medical faculty is a continuation of the educational process, during which the student for the first time independently (under the control of the basic manager) performs the professional duties of a doctor, conducts the curation of patients with various pathologies, which gives the opportunity to acquire and improve professional medical skills and abilities. The educational discipline "Industrial medical practice" for students of the 4th year of education consists of 4 meaningful modules: 1 - "Main duties and professional actions of a doctor of a therapeutic hospital"; 2 - "Main duties and professional actions of a doctor of a surgical hospital"; 3 - "Main responsibilities and professional actions of a pediatric hospital doctor" and 4 - "Main duties and professional actions of an obstetric hospital doctor" with a duration of 150 hours, which is 5 credits.

### **2. The purpose and tasks of the educational discipline**

**PURPOSE** of the educational discipline "Industrial medical practice" is the acquisition of knowledge on the formation of the ability to apply acquired knowledge, skills, practical skills to solve typical tasks of a doctor in the field of health care in the relevant position, to use basic and additional research methods in accordance with the educational and professional program (OPP) "Doctor", "Pediatrician" specialist training in specialty 222 "Medicine", 228 "Pediatrics".

#### **Task:**

- conduct surveys and physical examinations of patients and analyze their results;
- to plan the examination scheme of a specific patient depending on the features of the clinical course of the disease;

- analyze the results of basic laboratory and instrumental research methods;
- determine the leading pathological symptoms and syndromes in the most common diseases;
- carry out differential diagnosis and make a preliminary diagnosis of the most common diseases;
- to plan the examination scheme of a specific pregnant woman depending on
  - features of the clinical course of pregnancy;
  - plan the tactics of physiological childbirth and the postpartum period;
  - make a preliminary diagnosis of complications of pregnancy, childbirth and the postpartum period;
  - interpret the general principles of treatment, rehabilitation and prevention of the most common therapeutic, surgical, pediatric diseases and obstetric pathological conditions;
  - participate in the provision of emergency medical aid in urgent cases;
  - perform necessary medical manipulations;
  - learn the moral and deontological principles of a medical specialist and the principles of professional subordination in the clinic;
  - master the necessary medical manipulations

The task of practice is to consolidate the knowledge and skills acquired during the study of the main clinical and theoretical disciplines (examination of the patient, establishment of a clinical diagnosis, prescribing treatment) and further improvement of practical skills, familiarization with the organization of the medical case and working conditions of the doctor in the city and district, as well as consolidation skills of sanitary and educational work.

**As a result of industrial medical practice, the student should know:**

1. etiological and pathogenetic factors of diseases;
2. classify and analyze a typical clinical picture;
3. draw up an examination plan and analyze the data of laboratory and instrumental examinations in the typical course of the disease;
4. demonstrate mastery of the principles of treatment, rehabilitation and disease prevention;
5. diagnose;
6. to provide emergency assistance in case of major emergencies;
7. carry out differential diagnosis and make a preliminary diagnosis with a typical course of diseases;
8. evaluate the prognosis of the disease;
9. demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination.

**Be able:**

1. collect anamnesis;
2. examine the patient;
3. to plan examination of the patient;
4. interpret the results of laboratory and instrumental studies;
5. carry out differential diagnosis of the most common diseases with their typical course;
6. determine the previous clinical diagnosis;
7. determine therapeutic, surgical tactics of treatment;
8. to determine the management tactics of a child patient;
9. to determine the management tactics of obstetric patients;
10. prescribe medical nutrition;
11. provide emergency medical care;
12. solve situational problems;
13. practice practical skills at the patient's bedside;
14. keep medical records.

### **3. Management of production practice.**

The current educational activity of the students is monitored by managers - teachers of practice from the higher educational institution and managers of industrial practice from the base.

In basic medical institutions, the chief physician of the medical institution is the general supervisor of production practice, and the heads of specialized departments are the direct supervisors. Managers of industrial practice analyze the work of applicants in departments, taking into account their discipline (the applicant must not have missed practice days), the quality of keeping a diary (justification and formulation of the diagnosis, determination of the examination and treatment plan), the quality of mastering the skills of clinical, laboratory and instrumental diagnostics, participation in providing emergency medical care, applying the principles of ethics and medical deontology in the practice of a doctor.

Activities of the manager - teacher of industrial practice:

Before the beginning of practical training, the teacher must:

- familiarize yourself with the provisions of the program, methodical recommendations related to practice;
- carry out certification of the basic medical institution; obtain all the necessary documentation from the production practice department (lists of education seekers, methodological recommendations, etc.);

On the first day of industrial practice, a production meeting should be held with the participation of applicants, the chief physician, his deputies, heads of departments, at which the following issues should be covered:

- characteristics of the basic medical institution;

- the purpose and program of industrial practice, the calendar plan of individual cycles and the work schedules of education seekers, appointment (election) of heads of groups;
- organization of household conditions.

The teacher supervises the implementation of industrial practice in accordance with the educational programs, performs the following types of work:

- supervises each applicant's practice, his work, discipline, and living conditions;
- provides methodical assistance to applicants, defines tasks for each intern;
- checks the final level of learning practical skills according to the available lists;
- notes in the production practice diary which sections need to be completed by the acquirer;
- tests practical skills at the patient's bedside, the ability of students to interpret the results of clinical and laboratory-instrumental research;
- checks the quality of medical documentation; signs diaries of the applicant's production practice, provides medical and advisory assistance to the department's doctors;
- takes part in clinical, clinical and pathological-anatomical conferences of hospital doctors, conducts conversations with patients, reads lectures for a wide audience;
- conducts the final control, which is planned by the program in the relevant discipline.

Methodical guidance and final module control are carried out by teachers of DNMU departments. The final control of assimilation of the medical production practice module takes place on the last day of practice after its completion. The control of the module is carried out by teachers of specialized departments, responsible for production practice. The final control of the learning of the module is carried out in accordance with regulatory documents, additionally according to the schedule approved by the educational institution.

**The direct supervisors of the industrial practice of students from the base must:**

- familiarize yourself with the program, methodical recommendations on production practice in detail;
- to acquaint the students with the employees of the departments, working conditions (planning of premises, bed stock, sanitary and hygienic regime, contingent of patients, provision of equipment and medicines, nature and volume of operative interventions, etc.);
- draw up schedules for the rotation of applicants;
- to constantly monitor the volume and level of mastery of practical skills by students of education;
- to attract applicants to active participation in holding clinical conferences, sanitary education of the population, social life of the hospital staff;

- daily check the entries by the acquirers in the diaries of production practice;
- give an objective description and evaluate the work of each student.

#### **4. Terms and deadlines of practice.**

The duration of industrial practice for students of the 4th course is 20 working days. Practice consists of 4 cycles (internal medicine, surgery, pediatrics, obstetrics). The duration of cycles in pediatrics and internal medicine is 6 days, surgical diseases and obstetrics - 4 working days. The duration of the working day is 7 hours and 12 minutes. Student working hours are from 8:00 a.m. to 3:40 p.m. (with a 25-minute lunch break). One of the days in the cycles: internal medicine, surgery, pediatrics, obstetrics can be devoted to being on duty at the emergency room, ward or intensive care unit. The sequence of practice in therapeutic, surgical, pediatric departments and the maternity hospital is determined by each educational institution and may change if necessary. Departments of district and city hospitals can act as production practice bases,

#### **5. Legal responsibility of education seekers during industrial practice**

Since the applicant, during the course of industrial practice, bears personal responsibility for the assigned work, its results on the same level as full-time employees (doctors and other medical workers), he must be fully aware of the legal significance of his actions and not allow violations on his part.

During practice, the applicant is fully subject to the rules of the internal work schedule of the medical institution. A student of education, as a doctor's assistant, should know that he bears disciplinary responsibility for violations of labor, educational, and industrial discipline. Disciplinary offenses of applicants during practice include: failure to comply with the instructions and orders of the heads of medical institutions, instructions and orders of superior health care managers, absenteeism, tardiness, negligent attitude to one's duties. In addition, in case of causing material damage to the medical institution, the applicant-trainee bears full or partial material responsibility, regardless of whether disciplinary sanctions were applied. Disciplinary sanctions include a reprimand, which during practice can be announced by the head of the medical institution by order, and in case of gross violations - expulsion from the university by order of the rector. Disciplinary punishment can be applied no later than one month from the day of its detection and no later than six months from the day of its implementation (Articles 147, 148 of the Code of Criminal Procedure of Ukraine).

Taking into account all of the above, students of education during practice as a physician's assistant need:

- provide timely and qualified medical assistance to patients at the level of the applicant's competence;
- to be attentive to patients' complaints, not to consider them serious enough;

- carefully collect anamnesis, qualitatively examine the patient in order to prevent false diagnosis and incorrect treatment;
- not to carry out medical manipulations without appropriate training and consultation with your immediate supervisor;
- qualitatively help to draw up medical documentation, do not forge it;
- not to conduct illegal experiments on patients. Knowledge and awareness of the legal consequences of his work as a physician's assistant provides an opportunity to improve the necessary practical skills for the successful use of them in further professional activities.

**Students of education are obliged to undergo an internship:**

- before the start of practice, receive from the head by the practice department of the higher educational institution, consultations regarding the period of practice, processing of documentation, etc.;
- at the dean's office, get a referral to a basic institution for internship;
- arrive at the practice base on time;
- fully perform all tasks provided for by the practice program and the instructions of its supervisors;
- study and strictly follow the rules of labor protection, safety techniques and industrial sanitation;
- to comply with the rules of internal labor regulations in force in the medical institution;
- bear responsibility for assigned work and its results on a par with full-time employees;
- keep a practice diary, other reporting documentation provided for by the practice program;
- before the beginning of the midwifery cycle, clean the oral cavity (carious teeth), throat (chronic tonsillitis), skin (purulent wounds, paronychia, folliculitis), upper respiratory tract (catarrhal processes) and other sources of chronic infections; pass a bacteriological examination, if pathogenic flora is detected - sanitize;
- after the end of the internship, submit a written report to the head of the educational institution on the completion of all tasks provided for in the program, a completed and signed diary.

**6. LIST OF SKILLS AND PRACTICAL SKILLS FOR THE FINAL  
MODULAR CONTROL**

**Content module I: Basic duties and professional actions of a doctor of a  
therapeutic department of a hospital.**

1. Physical methods of examining the patient (examination, percussion, palpation, auscultation, blood pressure measurement).
2. Diagnosis and choice of treatment tactics.



3. Interpretation of data from laboratory tests of blood, urine, sputum, feces, pleural and ascitic fluid, duodenal sounding and pH-metry.
4. Registration and analysis of ECG, glucometry.
5. Interpretation of data on the function of external respiration.
6. Ultrasound of abdominal organs, blood vessels, echocardiography
7. Emergency care in urgent situations (conditions) with acute respiratory failure (bronchial asthma attack); anaphylactic reactions (acute urticaria, Quincke's edema, anaphylactic shock); hepatic colic; diabetic insects (ketoacidotic, hypoglycemic), hyperthyroidism (thyrotoxic crisis); hypothyroidism (hypothyroid coma); acute adrenal insufficiency, etc.;
8. Issuance of medical documentation

**Content module II. *The main duties and professional actions of the doctor of the surgical department of the hospital***

1. Clinical, laboratory and instrumental diagnosis of the main surgical diseases in hospital conditions.
2. Interpretation of data from laboratory tests of blood, urine, ultrasound of abdominal organs, blood vessels, radiography, ultrasound, CT, fibrogastroduodenoscopy, colonoscopy.
3. Diagnosis and choice of treatment tactics.
4. Primary surgical treatment of wounds. Peculiarities of assistance in the dressing room: wound care, drains, dressing change, drain removal, suture removal, wound debridement, surgical treatment of purulent foci.
5. Provision of emergency care for bleeding, septic and hemorrhagic shocks; correction of water-electrolyte disorders and acid-base status, etc.
6. Preparation of medical documentation

**Content module III. *The main duties and professional actions of the doctor of the pediatric department of the hospital***

1. Examination of a healthy and sick child, assessment and correction of the child's nutrition in the first year of life.
2. Evaluation of clinical analyzes (general blood analysis in children of different ages, general urinalysis, urine analysis according to Zimnytskyi, urinalysis according to Nechiporenko, general analysis of feces, general analysis of sputum), biochemical analyzes (blood protein content and its fractions, alkaline phosphatase, cholesterol, AST, ALT, acute phase indicators, creatinine and blood urea, blood electrolytes, urine analysis for diastasis), serological reactions in autoimmune diseases.
3. Evaluation of fibrogastroduodenoscopy data with pH-metry, urease test results. ECG analysis.
4. Evaluation of spirometry, bronchoscopy, and echocardiography data. Evaluation of X-ray data of chest organs, digestive system, genitourinary system.
5. Diagnosis and provision of emergency care for children with convulsions, hyperthermic syndrome, exicosis and toxicosis in children of the first year of life,

dizziness, collapse, edema of the lungs and larynx, bronchospasm, asthmatic status, heart rhythm disorders, heart failure, infectious and toxic shock, acute kidney and liver failure, complications of vaccination and drug therapy (allergic reactions).

6. Preparation of medical documentation.

**Content module IV. The main duties and professional actions of the doctor of the maternity ward of the hospital**

1. External obstetric examination of pregnant women, Leopold's techniques, measurements of the pelvis, determination of the true conjugate.
2. Establishing the term of pregnancy (according to the anamnesis and objective research).
3. Determination of the gestational age of the fetus and its weight.
4. Determination of the expected date of childbirth.
5. Physiological childbirth, postpartum period.
6. Provision of obstetric care during childbirth and the postpartum period.
7. Determination of the condition of the newborn according to the Apgar scale. Primary care of a newborn.
8. Determination of the principles of treatment of complications of pregnancy, childbirth, pathological conditions of the fetus (placental dysfunction, fetal distress, delayed fetal development, isoantigenic incompatibility of maternal and fetal blood, early gestosis, hypertensive disorders, preeclampsia, eclampsia, miscarriage, multiple pregnancy).
9. Provision of emergency care for severe forms of preeclampsia and eclampsia, fetal distress, newborn asphyxia.
10. Interpretation of the results of clinical, laboratory, and instrumental methods of examination of pregnant women, women in labor, and the fetus (ultrasound, auscultation, CTG, etc.) to detect complications of pregnancy, childbirth, and the pathological condition of the fetus.
11. Completion of medical documentation in obstetrics.

**After completing the industrial practice, the student provides the practice manager with:**

- a formal diary of production practice;
- consolidated digital report.

The applicant's personal documentation is a practice diary (Appendix 1) in which he enters in chronological order all the data about the work performed: personally or by participating in it. Based on the entries in the diary, a final report is drawn up for each discipline (Appendix 2-5), which summarizes the total number of performed manipulations, procedures, operations, the number of admitted patients, etc. The records of the work performed are checked and

approved daily by the head of the practice from the base and 3 times a week by the head of the higher education institution.

At the end of each cycle of industrial practice, a description of the intern's work is recorded in the diary, which is signed by the chief physician (deputy chief physician for medical work) of the medical institution, managers from the base and higher education institution, and certified by the seal of the medical institution. All documents are certified by the chief physician (deputy chief physician, department head) with the signature and seal of the medical institution.

In case of internship in another country, the student provides a certificate of the established model.

In the process of work, the student of education draws up an individual work schedule for each cycle, in which he details the work performed.

Appendix 1.

**Diary of HDL in internal medicine**  
(from surgery, pediatrics, obstetrics)

Student of the \_\_\_\_\_ faculty,  
 Course \_\_\_\_\_, group \_\_\_\_\_.  
 Practice term: from \_\_\_\_\_ 20 \_ years to \_\_\_\_\_ 20 \_ years.  
 Place of internship: \_\_\_\_\_ city  
 Hospital \_\_\_\_\_  
 \_\_\_\_\_ .  
 Base manager \_\_\_\_\_ .  
 Head doctor \_\_\_\_\_ .  
 (signature, stamp)

Number, time	Content of the completed work	Completed skill
8.00-9.00	Organizational meetings. Participation in visiting patients with the head of the department.	

9.00-12.00	<p>Curation in the department of 5 patients.</p> <p>1. Khryi N., 60 years old. D-z: CHD: angina pectoris 111 FC. Post-myocardial infarction, extrasystolic arrhythmia CH 2B Examination... Treatment...</p> <p>2. X-th V., 55 years old. D-z: Hypertensive h-ba 2 st. Examination... Treatment...</p>	<p>Physical examination of 5 patients (questioning, examination, blood pressure measurement) Completion of medical documentation of incoming patients. Evaluation of clinical, biochemical and instrumental studies.</p>
12.00-14.00	ECG analysis under the guidance of a doctor.	ECG registration and analysis
14.00-15.00	Participation in conducting FGDS	Examination of the mucous membrane of the stomach
	But others	

## 7. CONTROL OF EDUCATIONAL ACHIEVEMENTS

### Methods and means of standardized assessment current educational activities and final control

Assessment of independent practical work of students of education (SRS) based on practice and final control (PC) are carried out on the last day of practice. PC is accepted by the commission (according to the order of the rector of DNMU) consisting of the head of practice and employees of specialized departments.

The grade for the module is defined as the sum of the grades of the current control for the content modules (in points), which is assigned during the assessment of practical skills in accordance with the list determined by the practice program.

*The maximum number of points awarded to students for learning a module (credit) is 200, including 120 points (60%) for ongoing activities (content modules), 80 points (40%) based on the results of the final module control.*

### Evaluation of the individual work of the student of education

Points for individual tasks are awarded to the student only under the conditions of their successful completion and defense. The grade for individual independent work is calculated as the average score when mastering the entire list of skills and abilities of each of the four content modules: internal medicine,

surgery, obstetrics, pediatrics. (see annexes 2-5). Arithmetic average of evaluations of content modules is converted into points (in accordance with the KSM evaluation instructions). The total number of points for SRS varies from 72 to 120 points. Students who have completed the industrial practice program, have properly prepared reporting documents and received at least 72 points for their current activity are admitted to the final inspection.

### **Evaluation criteria for final control (PC)**

Evaluation of PC is carried out in accordance with the Instruction, put into effect by the Order of DNMU No. 376 of July 29, 2016 "On the approval of the instruction on the evaluation of students' educational activity in the conditions of the implementation of the European credit transfer system for the organization of the educational process."

The final control for the protection of practice is standardized and is presented as an arithmetic mean score (according to a 4-point system) taking into account the following stages:

1) evaluation of the results of the knowledge, skills and practical skills of the students of education by the practice base on the basis of evaluations from the diary and production characteristics (see appendices 2-5);

2) assessment of the correctness of the management and preparation of the reporting documentation of the students of education (diary, final report);

3) the results of the knowledge assessment of the students during the interview for the defense of practice (oral interview, use of tests and/or situational tasks) and practical training.

The total number of points scored by the student in the discipline is defined as the average score for the current educational activity, translated on a 200-point scale (in accordance with the KSM assessment instructions).

The regulations for conducting PCs provide for the assimilation and demonstration of skills and abilities in accordance with the program on industrial medical practice of students of the 4th year from four content modules: internal medicine, surgery, obstetrics, pediatrics (on dummies).

According to the results of PC, the student receives four grades: in internal medicine, surgery, pediatrics, obstetrics. From these four grades, the average grade for PC in industrial medical practice is calculated. The grade point average is then converted into PC points. The final module test is considered to be passed if the student scored at least 60% of the maximum number of points for PC (that is, at least 48 points, this number of ECTS points is equal to the sum of traditional grades "3").

Evaluation on a multi-point (200) scale	Evaluation on a four-point scale
From 180 to 200 points	"5"
From 150 to 179	"4"
From 120 to 149	"3"

Below 120	"2"
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Appendix 2.

**A sample of a digital report based on the results of production practice.**

**General digital report on the results of passing the VP in internal medicine  
(SRS)**

Student of education \_\_\_\_\_ 4 course of the Faculty of  
Medicine No. group \_\_\_\_\_  
on the basis of m/l No. \_\_\_\_\_ city \_\_\_\_\_

List of skills and abilities	Number of skills	Score in points
1. Conducting a survey and physical examination of patients with the main diseases of the respiratory, digestive and endocrine systems, formulating a clinical diagnosis (Palpation of the chest, atrial region, joints, lymph nodes, thyroid gland, abdomen, blood vessels, determination of the pulse; percussion of the lungs, heart, abdomen ; auscultation of the lungs, heart, blood vessels and abdomen)	4-6-8	3-5
2. Daily curation of patients in a hospital;	4-6-8	3-5
3. Shifting in the intensive care unit or intensive care unit; (work in the unit – grade 3; duty in the unit grade 4, duty in the intensive care unit – grade 5)	1	3-5
4. Participation in the provision of emergency aid in urgent situations (conditions): acute respiratory failure (bronchial asthma attack); anaphylactic reactions (acute urticaria, Quincke's edema, anaphylactic shock); hepatic colic; diabetic insects (ketoacidotic, hypoglycemic), hyperthyroidism (thyrotoxic crisis); hypothyroidism (hypothyroid coma); acute adrenal insufficiency, etc.;	4-6-8	3-5
5. Blood pressure measurement on the upper and lower extremities;	15-25-30	3-5
6. Evaluation of clinical, biochemical and bacteriological studies of blood, urine, feces, sputum, gastric juice and duodenal research, pH-metry;	15-25-30	3-5
7. ECG registration and analysis; glucometry.	10-15-20	3-5
8. Data analysis of external breathing function;	1-3-5	3-5
9. Analysis of radiographs;	8-10-12	3-5

10. Analysis of endoscopic research data;	3–5–8	3-5
11. Analysis of echocardiography data, ultrasound of abdominal organs, blood vessels.	3–5–8	3-5
GPA		72-120

Signature of the manager

Appendix 3.

**General digital report on the results of passing the VP in surgery (SRS)**

Student of education \_\_\_\_\_ 4 course of medical faculty

No. , group \_\_

on the basis of m/l No. \_\_\_\_\_ city \_\_\_\_\_

List of skills and abilities	Number of skills	Score in points
1. Daily curation of patients in a hospital (Palpation chest, joints, lymph nodes, thyroid gland, mammary glands, abdomen, blood vessels; percussion of the lungs, abdomen; auscultation of the lungs, blood vessels and abdomen).	4–6–8	3-5
2. Examination of patients, formulation of clinical diagnosis, preparation of medical history.	4–6–8	3-5
3. Shifting in the department on an emergency day or intensive care unit, trauma center; (work in the unit – grade 3; duty in the unit grade 4, duty in the department on an urgent day – grade 5)	1	3-5
4. Peculiarities of assistance during emergency and planned operations.	3–4–5	3-5
5. Evaluation of clinical tests (total blood and urine test) and biochemical blood tests (total bilirubin and fractions, blood proteins, amylase, blood electrolytes, coagulogram, etc.) in the surgical department.	10–15–20	3-5
6. Evaluation of instrumental research data (x-ray, CT, sonography of abdominal organs, fibrogastro-duodenoscopy, colonoscopy, etc.) in the surgical department.	10–15–20	3-5
7. Peculiarities of assisting in the dressing room: wound care, drainage, dressing change, surgical treatment of purulent wounds.	1–3–5	3-5
8. Assisting in the dressing room: wound care, suture removal.	1–3–5	3-5

9. Participation in the preparation of the patient for surgery; (venipuncture, determination of blood group, rhesus type, testing for individual and biological compatibility, transfusion of blood components and blood substitutes)	4-6-10	3-5
10. Participation in the provision of emergency care for bleeding, septic and hemorrhagic shock; correction of water-electrolyte disorders and acid-base status, etc., digital examination of the rectum, catheterization of the urinary bladder with a soft catheter.	1-3-5	3-5
GPA		72-120

Signature of the manager

Appendix 4.

**General digital report on the results of passing the PE in Pediatrics (SRS)**

Student of education \_\_\_\_\_ 4 course of the Faculty of

Medicine No. of group \_\_\_\_\_

on the basis of m/l No. \_\_\_\_\_ city \_\_\_\_\_

List of skills and abilities	Number of skills	Score in points
1. Daily care of sick children in a hospital; (Palpation of the chest, atrial region, joints, lymph nodes, thyroid gland, abdomen, vessels, determination of pulse; percussion of the lungs, heart, abdomen; auscultation of the lungs, heart, vessels, and abdomen)	4-6-8	3-5
2. Examination of patients, formulation of clinical diagnosis, preparation of medical history;	4-6-8	3-5
3. Shifting in the intensive care unit or intensive care unit; (work in the unit – grade 3; duty in the unit grade 4, duty in the intensive care unit – grade 5)	1	3-5
4. Participation in the provision of emergency care to children in urgent situations (conditions) with convulsions, hyperthermic syndrome, exicosis and	4-6-8	3-5



toxicosis of children of the first year of life, syncope, edema of the lungs and larynx, bronchospasm, asthmatic condition, heart rhythm disorders, heart failure, infectious-toxic shock, acute kidney and liver failure, complications of vaccination and medical therapy (allergic reactions), use of medicines: instillation of drops in the eyes, application of ointment behind the eyelid, etc.;		
5. Blood pressure measurement on arms and legs;	10–15–20	3-5
6. Evaluation of clinical, biochemical, bacteriological and immunological studies of blood, urine, feces, sputum, etc.;	15–25–30	3-5
7. Evaluation of FGDS data with pH-metry, colonoscopy, bronchoscopy	1–3–5	3-5
8. Registration and analysis of ECG	5–10–15	3-5
9 Evaluation of spirometry and echocardiography data	2–4–6	3-5
10 Data analysis of radiographs of chest organs, gastrointestinal tract and urinary systems	4–6–8	3-5
GPA		72-120

Signature of the manager

Appendix 5.

### **General digital report on the results of passing the VP in midwifery (SRS)**

Student of education \_\_\_\_\_ 4 course of medical faculty  
 No. , group \_\_\_\_\_  
 on the basis of m/l No. \_\_\_\_\_ city \_\_\_\_\_

List of skills and abilities	Number of skills	Score in points
1. Daily care of pregnant women, women in labor, women in labor.	4–6–8	3-5
2. Examination of pregnant women, women in labor and women in labor, participation in the preparation of the birth history, drawing up a birth plan.	4–6–8	3-5
3. Diagnosis of early (late) pregnancy, determination of the estimated date of birth, mass fetus (in late pregnancy).	5–7–10	3-5
4. Auscultation of the fetal heartbeat.	5–7–10	3-5

5.External obstetric examination of pregnant women (pelviometry, Solovyov index, Michaelis rhombus techniques according to Leopold).	8–12–15	3-5
6.Internal obstetric research.	1–2–3	3-5
7. Participation in the management of physiological childbirth, the postpartum period.	1–3–5	3-5
8. Assessment of laboratory and instrumental results examinations of pregnant women, fetuses, women in labor, women in labor, etc diagnosis of pregnancy complications (hypertensive disorders, isoantigen incompatibility, pathological conditions of the fetus).	.10–15–20	3-5
9. Participation in the primary toilet of the newborn.	1–2–3	3-5
10. Participation in the treatment of complications of pregnancy, childbirth, pathological conditions of the fetus in obstetric conditions inpatient (placental dysfunction, distress of the fetus, retardation of fetal development, isoantigenic incompatibility of maternal and fetal blood, early gestosis, hypertensive disorders, preeclampsia, eclampsia, miscarriage, multiple pregnancy). Participation in emergency care in obstetrics (eclampsia, artificial lung ventilation and indirect heart massage in case of newborn asphyxia).	1–2–3	3-5
GPA		72-120

Signature of the manager

### 8. Recommended literature

1. Obstetrics and gynecology: in 2 books. Book 1. Midwifery: textbook / V.I. Hryshchenko, M.O. Shcherbina, B.M. Ventskivskyi et al. — 4th edition, K.. Medicine, 2020. - 424 p.
2. Obstetrics and gynecology: in 2 books. Book 2. Gynecology: textbook / V.I. Hryshchenko, M.O. Shcherbina, B.M. Ventskivskyi et al. — 4th edition, K.. Medicine, 2020. - 424 p.
3. Anemic syndrome: modern principles of diagnosis and treatment: manual / Abrahamovych O.O., Petrukh A.V., Zayats Z.E. etc. - Lviv: Kwart, 2007. - 139 p.

4. Internal diseases: in 2 parts. Part 1. Chapters 1-8: textbook / L.V. Hlushko, S.V. Fedorov, I.M. Skrypnyk and others. - Kyiv, Medicine., 2019. - 680 p.
5. Internal diseases: in 2 parts. Part 2. Chapters 9-24: textbook / L.V. Hlushko, S.V. Fedorov, I.M. Skrypnyk and others. /— Kyiv, Medicine., 2019. – 584s + 6 books incl
6. Internal medicine. In 3 vols. Vol. 1 / By editor. Prof. K.M. Amosova. - K.: Medicine, 2008. - 1056 p.
7. Internal medicine. In 3 volumes, T. 2 / A.S. Svintsytskyi, L.F. Konopliova, Y.I. Feshchenko, etc.; Under the editorship Prof. K.M. Amosova. - K.: Medicine, 2009. - 1088 p.
8. Internal Medicine: General Practitioner's Advisor: Study Guide. / A.S. Svintsytskyi, O.O. Abrahamovych, P.M. Bodnar and others; Under the editorship Prof. A.S. Svintsytsky - VSV "Medicine", 2014. - 1272 p. + 16s. colored incl.
9. Gynecology: a textbook (university I-III years) / O.V. Stepankivska, M.O. Nick. — 4th ed., ed. K.. Medicine, 2018. - 432 p.
10. Differential diagnosis of the main syndromes in diseases of the respiratory organs and additional materials on phthiology: Educational manual / Ed. Prof. L.D. Todoriko - BSMU Chernivtsi: Medical University, 2011. - 320 p.
11. Clinical-radiological atlas for the diagnosis of lung diseases / [L.D. Todoriko, I.O. Semyaniv, V.P. Shapovalov, A.V. Boyko]; under the editorship Prof. L.D. Todoriko. – Chernivtsi: Medical University, 2013. – 342 p.
12. Likhachev V.K. Gynecology. a guide for doctors. 2018, Vinnytsia: New book, Ukrainian.
13. Emergency medical care: Education. manual / K.M. Amosova, B.G. Bezrodnyi, O.A. Bur'yanov, B.M. Ventskiivskyi, etc.; Under the editorship F.S. Glumchera, V.F. Moskalenko. - K.: Medicine, 2006. - 632 p.
14. Perederii V.G., Tkach S.M. Basics of internal medicine. In 3 volumes. Volume 1. "New book", 2009. - 640 p.
15. Perederii V.G., Tkach S.M. Basics of internal medicine. In 3 volumes. Volume 2. "New book", 2009. - 784 p.
16. Perederii V.G., Tkach S.M. Basics of internal medicine. In 3 volumes. Volume 3. "New book", 2010. - 1006 p.
17. Practicum in internal medicine: teaching. village / K.M. Amosova, L.F. Konoplyova, L.L. Sydorova, G.V. Mostbauer et al. - K.: Ukrainian Medical Bulletin, 2012 - 416 p.
18. Svintsytskyi A.S., Yaremenko O.B., Puzanova O.G., Khomchenkova N.I. Rheumatic diseases and syndromes. – K.: "Book Plus", 2006. – 680 p.
19. I.M. Skrypnyk // Gastroenterology: Textbook in 2 volumes. - Vol. 2 / Edited by N.V. Kharchenko, O.Ya. Babaka: Central Committee of the Ministry of Health of Ukraine. - Kropyvnytskyi PP "Polium", 2017. - P. 147-191.
20. Modern classifications and principles of formulating diagnoses in the clinic of internal diseases: manual / edited by O.O. Abrahamovych. - Lviv: PP "Kvart", 2005. - 322 p.

21. Modern approaches to childbirth and the postpartum period in pathological pregnancy. Ed. Gromovoi A.M., Nesterenko L.A., Poltava, 2016.
22. Todoriko L.D., Boyko A.V. Basic syndromes and methods of examination in pulmonology and phthisiology: Study guide for independent work of senior year students of higher medical educational institutions III-IV levels of accreditation. - Kyiv: Medknyga, 2013. - 432 p.
23. Basics of pediatrics according to Nelson: translation of the 8th Eng. edition: in 2 volumes. Volume 1 / Karen J. Marcdante, Robert M. Kligman. - K.: VSV "Medicine", 2019. - XIV, 378 p.