

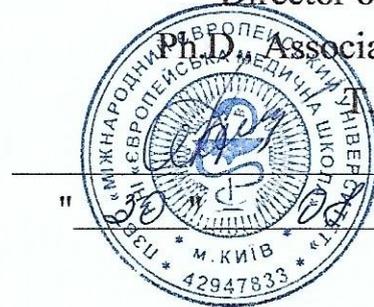
**INTERNATIONAL EUROPEAN UNIVERSITY  
EDUCATIONAL AND SCIENTIFIC INSTITUTE  
"EUROPEAN MEDICAL SCHOOL"**

APPROVED

Director of ESI"EMS"

Ph.D. Associate Professor

Alexandrina



2022

**COURSE TRAINING PROGRAM  
on  
MEDICAL PRACTICAL TRAINING**

|                       |                  |
|-----------------------|------------------|
| <b>Degree level</b>   | Master           |
| <b>Field of study</b> | 22 "Health care" |
| <b>Specialty</b>      | 222 "Medicine"   |

**Kyiv - 2022**

DEVELOPED AND INTRODUCED: Educational and Scientific Institute "European Medical School", Department of Clinical Disciplines with courses in internal medicine, surgery, pediatrics, obstetrics and gynecology.

Developed by: Babenkov G.D. Doctor of Medicine, head of the department of clinical disciplines with courses in internal medicine, surgery, pediatrics, obstetrics and gynecology Nechyporenko V.I. teacher of the department of clinical disciplines with courses in internal diseases, surgery, pediatrics, obstetrics and gynecology.

Discussed and approved by the Department of clinical disciplines with courses in internal medicine, surgery, pediatrics, obstetrics and gynecology № 1 from " 23 " 08 2022

Head of the department Babenkov G.D.



Approved at the meeting of the Scientific Council of the ESI"EMS"

№ 1 of " 29 " 08 of 2022

### 1. Description of the academic discipline

| Name of indicators               | Field of knowledge, specialty, educational level | Characteristics of the academic discipline |
|----------------------------------|--|--|
|                                  |  | full-time education                        |
| Number of credits 7              | Branch of knowledge<br>22 "Health care"          | Normative                                  |
| Content modules 4                | Specialty<br>222 "Medicine"                      | A year of training                         |
|                                  |  | 4th  |
| Semester                         |  |  |
| 8 th                             |  |  |
| The total number of hours is 300 |  | Practical                                  |
|                                  |  | 108 hours                                  |
|                                  |  | Individual work                            |
|                                  |  | 102 hours                                  |
|                                  |  | Type of control:                           |
|                                  |  | Dif. Balance                               |

### 2. STRUCTURE OF THE WORKING STUDY PROGRAM

The practice of students of the medical institute is carried out as a doctor's assistant in the therapeutic, surgical and children's departments of hospitals and maternity hospitals. Industrial medical practice of students of the IV year in the scope of professional duties of a hospital doctor lasts 4 weeks - 1 week each in the therapeutic, surgical, children's departments and the maternity hospital (department).

#### Competencies and learning outcomes

According to the requirements of the OPP, the discipline provides students with the acquisition of **Competencies and program learning outcomes:**

| General competences (CG)      |  |
|-------------------------------|--|
| ZK-1                          | Ability to abstract thinking, analysis and synthesis.  |
| ZK-2                          | Ability to learn and master modern knowledge.  |
| ZK-3                          | Ability to apply knowledge in practical situations.  |
| ZK-4                          | Knowledge and understanding of the subject area and understanding of professional activity.                |
| ZK-5                          | Ability to adapt and act in a new situation.   |
| ZK-6                          | Ability to make informed decisions.  |
| ZK-7                          | Ability to work in a team.   |
| ZK-8                          | Ability to interpersonal interaction.  |
| ZK-10                         | Ability to use information and communication technologies.   |
| ZK-11                         | Ability to search, process and analyze information from various sources.                                   |
| ZK-12                         | Determination and persistence in relation to assigned tasks and assumed responsibilities.                  |
| Professional competences (FC) |  |
| FC-1                          | Ability to collect medical information about the patient and analyze clinical data.                        |
| FC-2                          | Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results. |
| FC-3                          | Ability to establish a preliminary and clinical diagnosis of the disease.                                  |

|  |   |
|--|---|
| FK-4                                   | The ability to determine the necessary regime of work and rest in the treatment and prevention of diseases.   |
| FC-5                                   | The ability to determine the nature of nutrition in the treatment and prevention of diseases.   |
| FC-6                                   | Ability to determine the principles and nature of treatment and prevention of diseases.   |
| FC-7                                   | Ability to diagnose emergency conditions.   |
| FC-8                                   | Ability to determine tactics and provide emergency medical care.  |
| FC-10                                  | Ability to perform medical manipulations.   |
| FC-11                                  | Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.   |
| FC-16                                  | Ability to maintain medical documentation, including electronic forms.  |
| FC-21                                  | It is clear and unambiguous to convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to people who are studying.   |
| FC-24                                  | Adherence to ethical principles when working with patients and laboratory animals.  |
| FC-25                                  | Adherence to professional and academic integrity, to be responsible for the reliability of the obtained scientific results.   |
| <b>Program Learning Outcomes (PLP)</b> |   |
| PRN-1                                  | Have thorough knowledge of the structure of professional activity. To be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy.   |
| PRN-3                                  | Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems.  |
| PRN-4                                  | Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).  |
| PRN-5                                  | Collect complaints, history of life and diseases, evaluate psychomotor and physical development of the patient, state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information regarding the diagnosis (according to list 4), taking into account the age of the patient.   |
| PRN-6                                  | Establish the final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, differential diagnosis, observing the relevant ethical and legal norms, under the control of the head physician in the conditions of the health care institution (according to list 2) .   |
| PRN-7                                  | Assign and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4) of patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).  |
| PRN-8                                  | Determine the main clinical syndrome or what determines the severity of the condition of the victim/injured (according to list 3) by making a reasoned decision and assessing the person's condition under any circumstances (in the conditions of a health care institution, outside its borders), including in conditions of emergency and hostilities, in field conditions, in conditions of lack of information and limited time. |

|        |  |
|--------|--|
| PRN-9  | Determine the nature and principles of treatment (conservative, operative) of patients with diseases (according to list 2), taking into account the patient's age, in the conditions of a health care institution, outside its borders and at the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes, in case of the need to expand the standard scheme, be able to justify personalized recommendations under the control of the head physician in the conditions of a medical institution. |
| PRN-10 | Determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.  |
| PRN-14 | Determine tactics and provide emergency medical care in emergency situations (according to list 3) in limited time in accordance with existing clinical protocols and treatment standards.   |
| PRN-16 | Form rational medical routes for patients; organize interaction with colleagues in their own and other institutions, organizations and institutions; to apply tools for the promotion of medical services in the market, based on the analysis of the needs of the population, in the conditions of the functioning of the health care institution, its division, in a competitive environment.  |
| PRN-17 | Perform medical manipulations (according to list 5) in the conditions of a medical institution, at home or at work based on a previous clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, observing the relevant ethical and legal norms.  |
| PRN-18 | To determine the state of functioning and limitations of a person's vital activities and the duration of incapacity for work with the preparation of relevant documents, in the conditions of a health care institution, based on data about the disease and its course, peculiarities of the person's professional activity, etc. Maintain medical documentation regarding the patient and the contingent of the population on the basis of regulatory documents.   |
| PRN-21 | Search for the necessary information in the professional literature and databases of other sources, analyze, evaluate and apply this information.  |
| PRN-22 | Apply modern digital technologies, specialized software, and statistical methods of data analysis to solve complex healthcare problems.  |
| PRN-24 | To organize the necessary level of individual safety (own and the persons he cares for) in case of typical dangerous situations in the individual field of activity.   |
| PRN-25 | It is clear and unambiguous to convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists.  |
| PRN-27 | Communicate freely in the national and English languages, both orally and in writing to discuss professional activities, research and projects.  |
| PRN-28 | Make effective decisions on health care issues, assess the necessary resources, take into account social, economic and ethical consequences.   |

### 3. Program of academic discipline

**Content module 1.** Basic duties and professional actions of a doctor in the therapeutic department of a hospital.

*Topic 1:* principles organizations granting planned and emergency therapeutic care in Ukraine.

*Topic 2 :* improvement of the survey and physical examination of patients with the main diseases of the respiratory, digestive, hematopoietic organs and the endocrine system.

*Topic 3:* mastery skills treatment laboratory and instrumental research methods in internal medicine.

*Topic 4 :* improvement of the skills of substantiation and formulation of the diagnosis in the main diseases of the respiratory organs, digestion, hematopoietic organs and the endocrine system.

*Topic 5:* appointment of treatment, primary and secondary prevention in the main diseases of respiratory organs, digestion, hematopoietic organs and endocrine system.

*Topic 6:* mastering the skills of providing emergency care in an internal medicine clinic.

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

**Content module 2.** The main duties and professional actions of a doctor in the hospital's surgical department:

*Topic 8:* principles of organization of planned and emergency surgical care in Ukraine.

*Topic 9:* improvement of skills of clinical, laboratory-instrumental diagnostics and tactics of treatment of major surgical diseases in hospital conditions

*Topic 10:* mastering the skills of providing emergency medical care for urgent surgical diseases.

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

**Content module 3.** Basic duties and professional actions of a doctor of a pediatric department of a hospital.

*Topic 12:* principles of organization of medical care for children in Ukraine, basics of Ukrainian legislation on children's health care.

*Topic 13:* improving the skills of clinical, laboratory-instrumental diagnostics and tactics of treatment of the main children's diseases in the conditions of a children's hospital

*Topic 14:* mastering the skills of providing emergency medical care in emergency situations in children.

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

**Content module 4.** Basic duties and professional actions of a doctor in the maternity ward of a hospital.

*Topic 16:* principles of organization of medical care for pregnant women, women in labor and women in labor in Ukraine, basics of Ukrainian legislation on maternal and child health care.

*Topic 17:* improvement of diagnostics of early and late stages of pregnancy. Participation in the management of physiological childbirth and the postpartum period. Clinical, laboratory-instrumental diagnostics and tactics of treatment of complications of pregnancy, childbirth, postpartum period in the conditions of an obstetric hospital.

*Topic 18:* mastering the skills of providing emergency medical care in obstetrics.

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

*Topic 20:* final control of knowledge in the form of **differential assessment**.

#### 4. The structure of the academic discipline

| No       | Topic name  | Practical | Independent |
|----------|---|-----------|-------------|
|          | <b>Content module 1. Basic duties and professional actions of a doctor in the therapeutic department of a hospital .</b>  | <b>42</b> | <b>28</b>   |
| 1        | Principles _ organizations granting planned emergency therapeutic care in Ukraine   | 6         | 4           |
| 2        | To improve the survey and physical examination of patients with the main diseases of the respiratory, digestive, hematopoietic organs and the endocrine system.                             | 6         | 4           |
| 3        | About possession skills treatment laboratory and instrumental research methods in internal medicine.  | 6         | 4           |
| 4        | To improve the skills of substantiation and formulation of the diagnosis in the main diseases of the respiratory, digestive, hematopoietic organs and the endocrine system.                 | 6         | 4           |
| 5        | Prescribing treatment, primary and secondary prevention in the main diseases of respiratory organs, digestion, hematopoietic organs and endocrine system.                                   | 6         | 4           |
| 6        | On mastering the skills of providing emergency care in an internal medicine clinic.   | 6         | 4           |
| 7        | application of the principles of ethics and deontology in the practice of the doctor of the therapeutic department.   | 6         | 4           |
|          | <b>Content module 2. Basic duties and professional actions doctor of the hospital's surgical department</b>   | <b>24</b> | <b>20</b>   |
| 8        | Principles of organization of planned and emergency surgical care in Ukraine.   | 6         | 5           |
| 9        | the skills of clinical, laboratory-instrumental diagnostics and tactics of treatment of major surgical diseases in hospital conditions  | 6         | 5           |
| 10       | On mastering the skills of providing emergency medical care for urgent surgical diseases.   | 6         | 5           |
| 11       | On the application of the principles of ethics and deontology in the practice of the doctor of the surgical department.   | 6         | 5           |
|          | <b>Content module 3. Basic duties and professional actions of a doctor of a pediatric department of a hospital.</b>   | <b>24</b> | <b>20</b>   |
| 12       | Principles of organization of medical care for children in Ukraine, basics of Ukrainian legislation on children's health care.  | 6         | 5           |
| thirteen | To improve the skills of clinical, laboratory-instrumental diagnostics and tactics of treatment of the main children's diseases in the conditions of a children's hospital                  | 6         | 5           |
| 14       | On mastering the skills of providing emergency medical aid in emergency situations in children.   | 6         | 5           |
| 15       | On the application of the principles of ethics and deontology in the practice of the doctor of the pediatric department.  | 6         | 5           |
|          | <b>Content module 4. Basic duties and professional actions of a doctor in the maternity ward of a hospital.</b>   | <b>28</b> | <b>24</b>   |
| 16       | The principles of the organization of medical care for pregnant women, women in labor and women in labor in Ukraine, the basics of Ukrainian legislation on maternal and child health care. | 6         | 5           |

|    |   |            |           |
|----|---|------------|-----------|
| 17 | To improve the diagnosis of early and late pregnancy. Participation in the management of physiological childbirth and the postpartum period. Clinical, laboratory-instrumental diagnostics and tactics of treatment of complications of pregnancy, childbirth, and the postpartum period in the conditions of an obstetric hospital | 6          | 5         |
| 18 | About having the skills to provide emergency medical care in obstetrics.  | 6          | 5         |
| 19 | On the application of the principles of ethics and deontology in the practice of a maternity ward doctor  | 6          | 5         |
| 20 | Differential calculation  | 4.0        | 4         |
|    | Together  | <b>118</b> | <b>92</b> |

### 5. Individual tasks.

Individual tasks are one of the forms of organization of education at the university, which aims to deepen, generalize and consolidate the knowledge that students receive in the process of learning, as well as the application of this knowledge in practice. Individual tasks are performed by students independently under the guidance of a teacher.

Individual tasks include: writing essays and creation of multimedia presentations with reports at scientific meetings student circle of the department, participation in the manufacture of macro- and micropreparations, participation in scientific - research work departments, participation in writing theses and articles reports on student scientific conferences.

The list of tasks for the student's individual work: a part in the work of the student scientific circle and speeches at scientific forums ; in part in the student Olympiad with disciplines ; n selection of video and audio materials from sections of the academic discipline ; selection of materials and creation of a presentation on a relevant topic or section of the discipline .

### 6. Teaching methods

According to the sources of knowledge, teaching methods are used: verbal - story, explanation, lecture, instruction; visual - demonstration, illustration; practical - practical work, problem solving. According to the nature of the logic of knowledge, methods are used: analytical, synthetic, analytical-synthetic, inductive, deductive. According to the level of independent mental activity, the following methods are used: problem-based, searching, research.

1. Verbal methods: lecture, conversation;
2. Visual methods: illustration, demonstration, training;
3. Practical methods: performing practical work and solving clinical situational tasks to develop skills and abilities;
4. Students' independent work on understanding and assimilation of new material
5. Use of control and educational computer programs
6. Innovative teaching methods: Case-based learning (Learning through the analysis of a clinical case, situation); brainstorming; educational discussion; educational debate; role play; team-based learning; think-pair-share.

The types of training classes according to the curriculum are: practical classes; independent work of students.

### 7. Control methods

**Current control** is carried out on the basis of control theoretical knowledge, practical skills and abilities.

**Forms of current control** are: *in the* dream survey (frontal, individual, combined), interview; **practical verification of professional skills** (it is carried out based on the results of solving clinical cases, working with medical documentation, performing practical skills, working at the patient's bedside); **test control** ("open" and "closed" test tasks).

Current control is mandatory. During the evaluation of mastering of each topic from all disciplines of the curriculum for the current educational activity, the student is given grades on a 4-point (traditional scale) taking into account the approved evaluation criteria for the discipline. All types of work provided by the curriculum are taken into account. The student must receive a grade in each topic. The teacher conducts a survey of each student in the group at each lesson and assigns a grade in the journal of attendance and student performance according to the traditional scale ("5", "4", "3", "2").

When evaluating the student's current educational activity, 20% of the grade is the student's independent work, which takes into account the knowledge of the topic of independent study and the performance of work in the notebook.

**The final (summary) control is carried out :**

- in the form of a written test, which includes test tasks, theoretical questions
- control of practical skills (solving clinical cases, defense of medical history, assessment of the correctness of practical skills - practical-oriented exam.

According to the specifics of professional training, preference is given to test and practically oriented control.

### **8. Form of final control of study success .**

The final control of the discipline is carried out on the basis of theoretical control knowledge, practical skills and abilities.

**Differential** assessment is a form of final control of the student's assimilation of theoretical and practical material from the academic discipline.

### **9. Scheme of accrual and distribution of points received by students.**

The maximum number of points for a discipline is 200 points. The ratio between the results of the evaluation of the current educational activity and the final control of knowledge is 60% and 40%.

**The study of the discipline** ends with a final control in the form of a differential assessment. Only those students who do not have academic debt (all missed classes have been completed) and whose average score for the current educational activity in the academic discipline is at least "3" are admitted to the differential credit.

**The maximum number of points** that a student can score for the current educational activity for admission to the exam is 120 points and is defined as the sum of the arithmetic average of all grades received in the semester.

**The minimum number of points** that a student must score for the current educational activity for admission to the exam is 72 points. Recalculation of the average grade for the current academic performance (on a 120-point scale) in the table. 1.

**Table 1.**

**Recalculation of the average grade for the current academic performance in a multi-point scale for disciplines ending with an exam**

| <b>4-point scale</b> | <b>200-point scale</b> | <b>4-point scale</b> | <b>200-point scale</b> | <b>4-point scale</b> | <b>200-point scale</b> |
|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|
| 5                    | 120                    | 4.29                 | 103                    | 3.58                 | 86                     |
| 4.96                 | 119                    | 4.25                 | 102                    | 3.54                 | 85                     |
| 4.92                 | 118                    | 4.21                 | 101                    | 3.50                 | 84                     |
| 4.87                 | 117                    | 4.17                 | 100                    | 3.46                 | 83                     |
| 4.83                 | 116                    | 4.12                 | 99                     | 3.42                 | 82                     |
| 4.79                 | 115                    | 4.08                 | 98                     | 3.37                 | 81                     |

|      |     |      |    |             |            |
|------|-----|------|----|-------------|------------|
| 4.75 | 114 | 4.04 | 97 | 3.33        | 80         |
| 4.71 | 113 | 4.00 | 96 | 3.29        | 79         |
| 4.67 | 112 | 3.96 | 95 | 3.25        | 78         |
| 4.62 | 111 | 3.92 | 94 | 3.21        | 77         |
| 4.58 | 110 | 3.87 | 93 | 3.17        | 76         |
| 4.54 | 109 | 3.83 | 92 | 3.12        | 75         |
| 4.50 | 108 | 3.79 | 91 | 3.08        | 74         |
| 4.46 | 107 | 3.75 | 90 | 3.04        | 73         |
| 4.42 | 106 | 3.71 | 89 | 3           | 72         |
| 4.37 | 105 | 3.67 | 88 | Less than 3 | Not enough |
| 4.33 | 104 | 3.62 | 87 |             |            |

The maximum number of points that a student can score when taking the exam is 80 (the minimum number is at least 50).

Discipline assessment is defined comprehensively as the sum of points for the current educational activity and points for the exam.

From the allocated 120 points for the current educational activity, 4 to 12 additional points are allocated for the assessment of individual independent work of higher education applicants, according to the work curriculum. Encouragement points are added to the final grade for the discipline at the end of its study.

Points from the discipline for students who have successfully completed the program are converted into the national scale and the ECTS system (Table 2).

**Table 2**

**Rating scale: national and ECTS**

| The sum of points for all types of training activity | Evaluation of ECTS | Evaluation on a national scale                                 |  |
|--|--------------------|--|--|
|  |                    | for an exam, a diploma   | for credit                                       |
| 180-200  | A                  | perfectly  | counted  |
| 160-179  | B                  | okay   |  |
| 150-159  | C                  |  |  |
| 130-149  | D                  | satisfactorily   |  |
| 120-129  | E                  |  |  |
| 50-119   | FX                 | unsatisfactory with the possibility of refolding               | not included with the possibility of refolding   |
| 0-49   | F                  | unsatisfactory with mandatory repeated study of the discipline | not enrolled with mandatory re-study disciplines |

**DIARY of industrial practice of the " Therapy " cycle**  
**(assistant physician of the therapeutic department)** student of the 4th year of the International European University

group \_\_\_\_\_

P.I.P. \_\_\_\_\_

Place of practice:

Chair: \_\_\_\_\_

Clinical base: \_\_\_\_\_

| Date, hours of operation | Content of the completed work | Signature of the manager |
|--------------------------|-------------------------------|--------------------------|
|                          |                               |                          |

**Assessment for industrial practice in therapy**

| Total points (MI) | National scale | ECTS |
|-------------------|----------------|------|
|                   |                |      |

Direct supervisor \_\_\_\_\_  
 (signature) (P and B)

Basic manager \_\_\_\_\_  
 (signature) (P and B)

Head of practice teaching \_\_\_\_\_  
 (signature) (P.I.B.)

**4 course**

## 10. LIST OF PRACTICAL SKILLS MANDATORY FOR MASTERY

- 1 Registration of the results of the pulse, breathing, blood pressure in the temperature sheet.
- 2 Issuance of a card of an inpatient (medical history).
- 3 Submission and processing of an emergency notification about an infectious disease.
- 4 Rules for issuing and processing a sick leave in a hospital.
- 5 Completing delivery slips for LKK and LTEK, sanatorium-resort cards.
- 6 Prescriptions: regular, discount, free.
- 7 Recording and decoding of electrocardiogram.
- 8 Evaluation of echocardiograms.
- 9 Recording and decoding of the phonocardiogram.
- 10 Evaluation of coagulogram, lipidogram.
- 11 X-ray, endoscopic, ultrasound research methods, evaluation of results.
- 12 pH-metry of gastric contents, method of conducting, evaluation of results.
- 13 Taking an anamnesis with the ability to interpret pathological changes in the urinary system (after examining the patient, palpating the abdomen, percussing and auscultating it).
- 14 Conducting an objective examination of the patient
- 15 Evaluation of the results of: - clinical blood analysis, - biochemical blood analysis, - clinical urine analysis, - testing according to Zimnytskyi, Nechiporenko, Adis.
- 16 Diagnostic assessment of indicators of glycemic and glucosuric profiles.
- 17 Types of insulin, method of selecting an individual dose.
- 18 Diagnostic evaluation of the level of adrenal cortex hormones
- 19 Diagnostic assessment of the level of thyroid hormones in the blood.
- 20 Taking an anamnesis with the ability to interpret pathological changes on the part of the nervous system (after the examination of the patient).
- 21 Study of reflexes (normal and pathological).
- 22 Diagnostic assessment of spinal tap results.
- 23 Bladder catheterization
- 24 Draw up a plan for carrying out resuscitation measures in pathological conditions of various etiology
- 25 Methodology of artificial (forced) diuresis.
- 26 Methods of artificial lung ventilation, indirect heart massage.
- 27 Blood transfusion with tests
- 28 Interpretation of the main indicators of clinical blood analysis
- 29 Conducting spirometry, pneumotachometry, evaluation of results
- 30 Assistance in emergency situations

**FINAL REPORT**  
**about the work performed during industrial practice in the therapeutic department**

IV year student of \_\_\_\_\_ group \_\_\_\_\_  
(surname)

Place of practice: \_\_\_\_\_

| No s/p    | Names of manipulations and procedures  | Minimum | Execution no |
|-----------|--|---------|--------------|
| 1.        | Registration of pulse, breathing and blood pressure indicators in the temperature sheet  | 5       |              |
| 2.        | Writing medical history  | 4       |              |
| 3.        | Issuing an emergency notification about an infectious disease  | 1       |              |
| 4.        | Filling out a sick leave   | 2       |              |
| 5.        | Writing prescriptions  | 4       |              |
| 6.        | Work in a physiotherapy office   | 2       |              |
| 7.        | Evaluation of echocardiogram results   | 3       |              |
| 8.        | ECG registration and evaluation  | 3       |              |
| 9.        | Registration and evaluation of the phonocardiogram   | 1       |              |
| 10.       | Evaluation of coagulogram, lipidogram  | 2-3     |              |
| 11.       | X-ray and endoscopic studies, ultrasound   | 5-10    |              |
| 12.       | Ph-metry of gastric contents   | 1       |              |
| thirteen. | Collection of anamnesis  |         |              |
| 14.       | Conducting an objective examination of the patient   |         |              |
| 15.       | Evaluation of the results of: - clinical blood analysis, - biochemical blood analysis, clinical urine analysis, - carrying out tests according to Zimnyskyi, Nechiporenko, Adis. | 10      |              |
| 16.       | Evaluation of indicators of glycemic and glucosuric profiles   | 1       |              |
| 17.       | Selection of an individual dose of insulin   | 2       |              |
| 18.       | Assessment of adrenal and thyroid hormone levels   | 1       |              |
| 19.       | Examination of neurological status   | 2       |              |
| 20.       | To draw up a plan for carrying out resuscitation measures for pathological conditions of various etiologies  | 1       |              |
| 21.       | Technique of artificial (forced) diuresis.   |         |              |
| 22.       | Bladder catheterization  |         |              |
| 23.       | Evaluation of spinal tap results   | 1       |              |
| 24.       | Methods of artificial lung ventilation, indirect heart massage.  |         |              |
| 25.       | Blood transfusion with tests   |         |              |
| 26.       | Intravenous injections and infusions   |         |              |
| 27.       | Interpretation of the main indicators of clinical blood analysis   | 10      |              |
| 28.       | Conducting spirometry, pneumotachometry, evaluation of results   |         |              |
| 29.       | Assistance in emergency situations   | 2-5     |              |
| 30.       | Participation in resuscitation measures  | 1       |              |
| 31.       | Number of supervised patients  |         |              |
| 32.       | Epicrisis is written   |         |              |
| 33.       | Other  |         |              |

Direct supervisor \_\_\_\_\_  
(signature) (P.I.B.)

Base manager \_\_\_\_\_  
(signature) (P.I.B.)

Head of practical training \_\_\_\_\_  
(signature) (P.I.B.)

**DIARY of industrial practice of the "Surgery" cycle**  
**(physician's assistant of the inpatient department)** student of the IV year of the International European  
University  
group \_\_\_\_\_

\_\_\_\_\_  
(P and B)  
Place of practice:  
Chair: \_\_\_\_\_

Clinical base: \_\_\_\_\_

| Date | Content of the completed work | Signature of the manager |
|------|-------------------------------|--------------------------|
|      |                               |                          |

**Assessment for industrial practice in surgery**

| Total points | National scale | ECTS |
|--------------|----------------|------|
|              |                |      |

Direct supervisor \_\_\_\_\_  
(signature) (P.I.B.)

Basic manager \_\_\_\_\_  
(signature) (P.I.B.)

Head of practice teaching \_\_\_\_\_  
(signature) (P.I.B.)

**Final report of the industrial practice of the "Surgery" cycle  
(physician's assistant of the inpatient department) student of the IV year of the International European University**

group \_\_\_\_\_

P.I.P. \_\_\_\_\_

Place of practice:

Chair:

Clinical base:

| No<br>n/p | The name of the manipulations  | done |
|-----------|--|------|
| 1         | The method of conducting a clinical examination of the patient with a description of the objective status in the following diseases:<br>- acute appendicitis;<br>- acute cholecystitis, mechanical jaundice;<br>- hernias, including pinched;<br>- acute pancreatitis;<br>- complicated ulcer disease;<br>- acute intestinal obstruction;<br>- peritonitis |      |
| 2         | Determination of indications for conservative and operative treatment of a patient with the above-mentioned forms of pathology.  |      |
| 3         | Filling in medical history.  |      |
| 4         | Stomach probing.   |      |
| 5         | Digital examination of the rectum.   |      |
| 6         | Dressing of postoperative wounds.  |      |
| 7         | Application and removal of sutures.  |      |
| 8         | Removal of drainage tubes.   |      |
| 9         | Assistance in urgent and planned operations.   |      |
| 10        | Administration of local anesthesia.  |      |
| 11        | Treatment of patients.   |      |
| 12        | Participation in pleural puncture, abdominal puncture.   |      |
| thirteen  | Bladder catheterization.   |      |
| 14        | Participation in endoscopic studies.   |      |
| 15        | Study of radiographs of patients with acute surgical pathology.  |      |
| 16        | Participation in scientific and practical, clinical and anatomical conferences.  |      |
| 17        | Correction of hypovolemia.   |      |
| 18        | Determination of blood group, Rh factor.   |      |
| 19        | Carrying out tests on the compatibility of blood and its components.   |      |
| 20        | Transfusion of blood and its components.   |      |

Direct supervisor \_\_\_\_\_  
(signature) (P.I.B.)

Base manager \_\_\_\_\_  
(signature) (P.I.B.)

Head of practical training \_\_\_\_\_

**LIST OF PRACTICAL SKILLS MANDATORY TO LEARN during industrial practice of the "Surgery" cycle (assistant physician of the inpatient department) by students of the 4th year**

1. Methodology of clinical examination of a patient with surgical pathology, description of objective status.
2. Determination of indications for conservative and operative treatment of a patient with acute surgical pathology of abdominal organs.
3. Completing the medical history, writing the preoperative epicrisis, the protocol of the operation.
4. Filling out a list of medical prescriptions, a list of prescriptions for narcotic and psychotropic drugs
5. Dressing of postoperative wounds.
6. Application and removal of sutures.
7. Removal of drainage tubes from the chest and abdominal cavity.
8. Assistance with emergency and planned operations.
9. Administration of local anesthesia.
10. Methods of hypovolemia correction.
11. Determination of types of acid-base balance disorder and their correction.
12. Determination of blood group, Rh factor .
13. Carrying out tests on the compatibility of blood and its components. 14. Transfusion of blood and its components.

**DIARY carrying out industrial practice of a pediatrician's assistant  
student of the International European University**

Groups \_\_\_\_\_  
(P I P)

Place of practice (department):

Chair: \_\_\_\_\_

Clinical base: \_\_\_\_\_

| Date, hours of operation | Content of the completed work | Signature of the manager |
|--------------------------|-------------------------------|--------------------------|
|                          |                               |                          |

Note\* - the hours during classroom preparation and independent work of the student are indicated separately. A list of self-performed procedures and medical manipulations provided by the program is given, their number is in brackets.

**of a pediatric physician's assistant**

| Total points | Evaluation according to the four-point system | ECTS |
|--------------|---|------|
|              |   |      |

Direct supervisor \_\_\_\_\_  
(signature) (P I P)

Base manager \_\_\_\_\_  
(signature) (P I P)

Teacher-head of practice \_\_\_\_\_  
(signature) (P I P)

**FINAL REPORT  
on performance during the production practice of a physician's assistant - the cycle  
"Pediatrics" in the scope of duties of a physician's assistant  
IV year student of \_\_\_\_\_ group**

Place of practice:

Chair: \_\_\_\_\_

Clinical base: \_\_\_\_\_

| No. z/p | Manipulations and procedures | The degree of mastery | According to the | done |
|---------|------------------------------|-----------------------|------------------|------|
|         |                              |                       |                  |      |



|    |  |   |   |  |
|----|--|---|---|--|
|    | water and electrolyte disorders.   |   |   |  |
|    | Peculiarities of feeding young children. Breast feeding.<br>Curation of the patient together with the attending physician.<br>Designing a diary.   | 2 | 1 |  |
| 23 | Functional disorders of the gastrointestinal tract in older children.  | 2 | 1 |  |
| 24 | Chronic eating disorders in young children.<br>Diagnostics. treatment Calculation of the volume of food ingredients.<br>Curation. Making diaries. Rickets. Spasmophilia. Examination, treatment , prevention.              | 2 | 1 |  |
| 25 | Acute respiratory viral infection. Bronchitis in children.<br>Diagnostics. Treatment.<br>Curation of patients. Making diaries.   | 2 | 1 |  |
| 26 | Acute and chronic pneumonia in children. Diagnosis, treatment protocol.<br>Treatment of patients. Making diaries.  | 2 | 1 |  |
| 27 | Bronchial asthma. Diagnostics. Treatment. Management of patients. Preparation of medical records.  | 2 | 1 |  |
| 28 | Carditis in children. Diagnosis, treatment.<br>Congenital heart defects. Diagnosis, treatment plan.  | 2 | 1 |  |
| 29 | Rheumatic fever in children. Examination, diagnosis, treatment.<br>Management of patients.   | 2 | 1 |  |
| 30 | Acute and chronic pyelonephritis in children. Diagnostics.<br>Treatment protocol. Treatment.<br>Treatment of patients.   | 1 | 2 |  |
| 31 | Glomerulonephritis in children. Diagnostics. Treatment.<br>Curation. Chronic kidney failure.   |   |   |  |
| 32 | Chronic gastritis. Chronic gastroduodenitis in children.<br>Ulcer disease in children. Diagnosis, treatment.<br>Diseases of the hepatobiliary system in children.  |   |   |  |
| 33 | Transportation of seriously ill children. Determining the severity of a sick child's condition.  | 1 | 1 |  |
| 34 | Functional duties of a doctor in the waiting room. Provision of emergency aid in critical situations.  |   |   |  |
| 35 | Methodology and technique of performing emergency measures in case of cardiac arrest (closed cardiac massage, artificial lung ventilation, cardiac defibrillation, intracardiac administration of medications).            |   |   |  |
| 36 | Provision of emergency care for respiratory failure, acute cardiovascular failure.<br>Assistance in acute renal failure.<br>Assistance in acute adrenal insufficiency.<br>Relief of hyperthermic and convulsive syndromes. |   |   |  |
| 37 | Evacuation of sputum from the upper respiratory tract (using electrical and mechanical suction methods).   | 1 | 1 |  |
| 38 | Inhalation oxygenation. Inhalation therapy. Bronchoscopy.<br>Method of spontaneous breathing with constant positive  | 2 | 1 |  |

|    |   |   |   |  |
|----|---|---|---|--|
|    | pressure in the upper respiratory tract.  |   |   |  |
| 39 | Artificial ventilation "mouth-mouth", "mouth-nose", with a mask, through an intubation tube. Hardware artificial ventilation. | 1 | 2 |  |
| 40 | Gastric lavage.   | 2 | 1 |  |
| 41 | Intravenous jet and drip administration of medicinal products. Technique of blood transfusion.                                | 2 | 1 |  |
| 42 | Parenteral nutrition (methodology and technique)  |   |   |  |

Note: Degree of mastery of practical skills:

1-the student is obliged to master it perfectly;

2-the student must see the technique in action, know its principles, be able to use it in a specific situation, evaluate and interpret the results obtained. Use phantoms for demonstration.

**DIARY**  
**carrying out industrial practice in midwifery**  
**4th year student International European University**

**Group** \_\_\_\_\_  
(P.I.P.)

Place of practice:

Department \_\_\_\_\_

Clinical base: \_\_\_\_\_

| Date | Content of the completed work | Signature of the manager |
|------|-------------------------------|--------------------------|
|      |                               |                          |

**Evaluation of industrial practice in midwifery**

| Total points | National scale | ECTS |
|--------------|----------------|------|
|              |                |      |

Direct supervisor \_\_\_\_\_  
(signature) (P I P)

Base manager \_\_\_\_\_  
(signature) (P I P)

MP

Teacher-head of practice \_\_\_\_\_  
(signature) (P I P)

**FINAL REPORT**  
**on performance during industrial practice in midwifery - cycle "Midwifery"**  
**(medical practice)**

IV year student of \_\_\_\_\_ group

P.I.P.

Place of practice: \_\_\_\_\_

Department \_\_\_\_\_

Clinical base: \_\_\_\_\_

| No. z/p  | Names of manipulations and procedures   | done |
|----------|---|------|
| 1        | History collection  |      |
| 2        | Issuance of a pregnant woman's exchange card  |      |
| 3        | Pelviometry   |      |
| 4        | Vaginal examination of pregnant women (inspection in mirrors)   |      |
| 5        | Ultrasound antenatal screening  |      |
| 6        | Diagnosis of pregnancy  |      |
| 7        | Determination of the date of birth  |      |
| 8        | Bimanual examination  |      |
| 9        | Cardiotocography  |      |
| 10       | Determination of blood group  |      |
| 11       | Test for individual, Rh and biological compatibility  |      |
| 12       | Filling out an individual card and keeping a birth history  |      |
| thirteen | Leopold's techniques  |      |
| 14       | Solovyov index  |      |
| 15       | Supervision of the delivery room during normal childbirth   |      |
| 16       | Methods of analgesia and massage in the first period of childbirth  |      |
| 17       | Reception of childbirth (protection of the perineum)  |      |
| 18       | Evaluation of amniotic fluid  |      |
| 19       | Assistance in the provision of classical manual assistance during pelvic presentations  |      |
| 20       | Providing manual assistance according to the Tsovyanov method 1,2   |      |
| 21       | Performing an episiotomy or perineotomy in labor  |      |
| 22       | Treatment of the umbilical cord remnant   |      |
| 23       | Management of the III period of childbirth  |      |
| 24       | Assessment of birth placenta  |      |
| 25       | Evaluation of the integrity of the placenta   |      |
| 26       | Suturing episiotomy or perineotomy wounds   |      |
| 27       | Diagnosis of the disproportion between the size of the fetal head and the woman's pelvis (determination of Zangenmeister's and Vasten's signs, movement and features of head insertion, opening of the cervix, nature of labor, etc.) |      |

|    |  |  |
|----|--|--|
| 28 | Preparing the surgeon's hands for surgery using antiseptics    |  |
| 29 | Cesarean section   |  |
| 30 | Care of patients after caesarean section                       |  |
| 31 | Participation in the transfusion of blood and its components   |  |
| 32 | Care of patients in the postoperative period                   |  |
| 33 | Diagnosis of respiratory disorders in the postoperative period |  |
| 34 | Bladder catheterization  |  |
| 35 | Apgar scale  |  |
| 36 | Breast care  |  |

Direct supervisor \_\_\_\_\_  
 (signature) (P I P)

Basic manager \_\_\_\_\_  
 (signature) (P I P)

Teacher-head of practice \_\_\_\_\_  
 (signature) (P I P)

## Recommended reading (Therapy)

### Basic

1. Internal diseases. Textbook based on the principles of evidence-based medicine 2018/19. Svintsitsky A.S., Gaevski P.. Practical Medicine 2018 — 1632 p.
2. Gastroenterology. Kharchenko N.V., Babak O.Ya., Textbook - K., 2007. – 720 p.
3. Diagnosis, treatment and prevention of major cardiac diseases: a study guide for students of the 5th year of medical universities of the 4th level of accreditation / Ed. O. M. Bilovola, P. G. Kravchuna, in 2 parts. - Kharkiv, KHNU named after V. N. Karazina, 2010. - part 1. - 264 p. - part 2.- 200 p.
4. Diagnosis, treatment and prevention of the main diseases of the musculoskeletal system and connective tissue: a study guide for students of the 5th year of medical universities of the 4th level of accreditation / Ed. O. M. Bilovola, P. G. Kravchuna. - Kharkiv, KhNU named after V.N. Karazina, 2010. - 256 p.
5. Endocrinology: a textbook for students of higher medical educational institutions of the IV level of accreditation / P. M. Bodnar [and others]; under the editorship P. M. Bodnar; National AMS of Ukraine. - 4th ed., updated. and added - Vinnytsia: Nova Kn., 2017. - 449 p.
6. Nephrology: National textbook / Ed. L. V. Piroga, D. D. Ivanova. Kyiv, 2014. 314 p.
7. Perederii V.G., Tkach S.M. Basics of internal medicine. In 3 volumes. Volume 2. " New book", 2009. - 976 p.
8. Physiotherapy: a textbook / edited by Prof., Doctor of Medicine N. O. A. Vladimirova, prof., doctor of medicine. N. V.V. Yezhova, z. d. n. Russian Federation, Prof., Doctor of Medicine. N. H. M. Ponomarenko. - K.: Format, 2013. - 432 p.

### Auxiliary

1. Clinical and radiological atlas for the diagnosis of lung diseases / edited by Prof. L.D. Todoriko. – Chernivtsi: Medical University, 2013. – 342 p.
2. Netyazhenko V.Z. Acute coronary syndrome. Diagnostic measures and treatment algorithm - Kyiv - 2009 - 191 p .
3. Roschin, H. G. Emergency medical care: pre-hospital stage - manipulation algorithms (basic level) - K., 2012. - 84 p.
4. Svintsytsky A.S., Yaremenko O.B., Puzanova O.G., Khomchenkova N.I. Rheumatic diseases and syndromes. – K.: "Book plus", 2006. – 680 p.4
5. Cardiovascular diseases. Classification , standards of diagnosis and treatment / Ed. V.M. Kovalenko, M.I. Lutaya , Yu.M. Sirenka \_ - K.: MORION, 2016. - 192 p
6. Titov I.I., Voloshynskyi O.V., Glushko L.V., Datsyuk O.I., Algorithms for providing emergency care in critical conditions: a study guide, Vinnytsia, 2009. – 256 p.
7. Hampton D., Hampton D., Fundamentals of ECG - The EKG Made Easy : 9th edition (Two languages), K., "Medicine", 2020 - 234 p.
8. **Medical journals:** "Doctor", "The Art of Healing", "World Medicine", "Medical Affairs", "Medicines of Ukraine", "Ukrainian Cardiology Journal", "Ukrainian Therapeutic Journal", "Ukrainian Rheumatology Journal", "Ukrainian Medical Journal" , " Acta Medica Leopoliensia ", " Science ", " Therapia ".

## List of educational and methodical literature (Surgery)

1. **Emergency surgery:** Textbook for students of the 5th and 1st courses of medical faculties of medical universities. / Auth. coll.: V. V. Boyko, V. M. Lisovyi, V. A. Kapustnyk, L. Y. Honcharenko, I. A. Taraban, V. V. Makarov, etc.; under the editorship member-cor. NAMNU, prof. V.V. Boyka, member-cor. NAMNU, prof. V. M. Lisovoy. - Kharkiv , " NTMT " , 2019. - 512 p.
2. **Emergency surgery** . Textbook for the 6th<sup>year</sup> students of medicine / Authors: VV Boyko, VM Lisovyi, VA Kapustnyk, LY Goncharenko, IA Taraban, IAKryvoruchko, VV Makarov and others.; Eds. Corresponding Member of NAMSU Doctor of Medicine, Professor VV Boyko, Correspondent – ind Member of NAMSU Doctor of Medicine, Professor VM Lisovyi – Kh/. KNMU, 2019. - 494 p.

3. Urgent abdominal surgery. Teaching aids for students of the Medical University of Ukraine (under the editorship of I.A. Kryvoruchko and V.N. Lesovoy) . Author. number Lesovoy V.N., Kryvoruchko I.A., Boyko V.V., Tonkoglas A.A., Teslenko S.N., Honcharova N.M., Zamyatyn P.N. Kharkiv, Shchedrayausadba Plus LLC, 2015. – 404 p.
4. Lyzogub M.V., Mykhnevich K.G., Kursov S.V.Yu.B. Grigorov and others. Emergencies and medical manipulations: a study guide for the preparation of students of higher medical educational institutions for the practical-oriented state exam in the specialties 7.110.101 "Treatment", 7.110104 "Pediatrics", 7.110.104 "Medical and preventive care". Edited by V.A. Kapustnyk, A.A. Khizhnyak, M.O. Mikhalina. - Kh.: "New Word", 2009. - 286 p.
5. Boyko V.V., Goncharenko L.Y., Taraban I.A., Groma V.G. / Classification of surgical patients. Part I. Abdominal and anal and thoracic pathology. Part II. Cardiac, vascular and outpatient pathology. // Methodological guidelines for students of medical faculties and interns . - Kharkiv, Kh N MU, 2009 . - 74 p
6. **Surgery. Part I and Surgical gastroenterology and proctology:** teaching. a guide for students of medical institutions. / I.A. Kryvoruchko, V.M. Lisovyi, V.V. Boyko, O.A. Tonkoglas. - Kharkiv: KhNMU, 2018. - 290 p.
7. Boyko V.V., Svyrepo P.V., Goncharenko L.I., Makarov V.V. / Ethics and deontology in surgery. Methodical instructions for students and intern doctors - Kharkiv: KhSMU, 2002. - 24 p.
8. Boyko V.V., Kryvoruchko I.A., V.N. Lesovoy, Zamyatin P.N., Polevoy V.P., Parashchuk Yu.S., Berezka N.N., Teslenko S.N. Guide to emergency abdominal surgery. - Kharkiv-Chernovtsy, 2009. - 514 p.

#### **Recommended reading (Obstetrics and gynecology)**

1. Obstetrics and gynecology: in 2 books. : textbook. Book 1. Midwifery / V.I. Hryshchenko, M.O. Shcherbina, B.M. Ventskiivskiyi et al. ; under the editorship V.I. Hryshchenko, M.O. Cracks – 3rd ed., corr. - K.: VSV "Medicine", 2017. - 424 p.
2. Obstetrics and gynecology: in 2 books: textbook. Book 2. Gynecology / V.I. Hryshchenko, M.O. Shcherbina, B.M. Ventskiivskiyi et al. ; under the editorship V.I. Hryshchenko, M.O. Cracks – 2nd ed., corr. - K.: VSV "Medicine", 2017. - 376 p. + 8 s. color incl.
3. Basics of perinatal medicine / M.O. Shcherbina, O.O. Kuzmina // Study guide for students of higher educational institutions - medical universities, institutes and academies, Kyiv, VSV "Medicine", 2017 - 152 p.
5. Protocols for high-risk pregnant women: edited by J. \_ T. \_ Kvinas , D. \_ Hobbins , K. \_ Spong / McMillan Children Foundation / Helping Children Around the World
6. Effective antenatal care: study guide / Collective of authors - K., 2012.

#### **Recommended literature (Pediatrics):**

##### **Main:**

1. Order No. 362 of the Ministry of Health of Ukraine "On approval of protocols for the diagnosis and treatment of cardiorheumatic diseases in children" dated July 19, 2005.
2. Order of the Ministry of Health of Ukraine dated 22.10.2012 No. 832 "Unified clinical protocol of medical care for children with juvenile arthritis"
3. Order No. 9 of the Ministry of Health of Ukraine "On approval of protocols for diagnosis and treatment of rickets in children" dated January 10, 2005.
4. Order No. 59 of the Ministry of Health of Ukraine "On the approval of unified clinical protocols of medical care for children with diseases of the digestive organs" dated January 29, 2013.
5. Order No. 868 of the Ministry of Health of Ukraine "Unified clinical protocol of primary, secondary (specialized) medical care for bronchial asthma in children" dated October 8, 2013
6. Order No. 670 of the Ministry of Health of Ukraine "Unified clinical protocol of primary, secondary (specialized), tertiary (highly qualified) medical care for atopic dermatitis in children dated July 4, 2016

7. Order No. 627 of the Ministry of Health of Ukraine "On approval of the treatment protocol for children with urinary system infections and tubulointerstitial nephritis" dated November 3, 2008.
8. Order No. 436 of the Ministry of Health of Ukraine on the approval of clinical protocols for the treatment of children in the specialty "Pediatric Nephrology" dated August 31, 2004
9. Pediatrics under the editorship. Prof. V. V. Berezhnoy in 2 vols. T1-K., 2013. - P.1022. 11. Smiyan I.S. Lectures on pediatrics - Ternopil: Textbooks, 2006. - P.233 - 253.
10. Pediatrics. Under the editorship Heavy O.V. - Vinnitsa. - 3 species. - "New Book", 2016. - 1136 p.
11. Nelson textbook 20<sup>th</sup> Edition by Robert M. Kliegman, MD, Richard E. Behrman, MD, Hal B. Jenson, MD and Bonita F. Stanton, MD.: SAUNDERS
12. The Harriet Lane Handbook, 21<sup>st</sup> edition. International edition, 2018. – 1255 p.
13. Pediatrics. Textbook./ OVTiazhka, TVPochinok, ANAntoshkina et.al./edited by O.Tiazhka – Vinnytsia : Nova Knyha publishers, 2011. – 584 pp

**Additional:**

1. Berezhny V.V., Marushko T.V., Marushko Yu.V. Clinical rheumatology of childhood. Kyiv, 2013, pp. 82-142.
2. Boyko Ya.E. Juvenile idiopathic arthritis // Clinical immunology. Allergology. Infectology. – 2008. - No. 3.
3. Volosovets A.P., Yulysh E.I. Rational antibiotic therapy of respiratory diseases in children - Donetsk: Regina, 2005. - 389p.
4. Volosovets A.P., Nagorna N.V., Kryvopustov S.P., Ostropolets S.S., Bordyugova O.V. Diagnosis, therapy and prevention of deficiency anemia in children - Donetsk: SPD Dmytrenko L.R., 2007. - 38 p.
5. Volosovets A.P., Kryvopustov S.P. Macrolides in the practice of modern pediatrics. Monograph. - K.: "The Fourth Wave", 2009. - 192 p.
6. Volosovets A.P., Kryvopustov S.P. Cephalosporins in the practice of modern pediatrics. Monograph. - Kharkiv: Prapor, 2007. - 184 p.
7. Volosovets O.P., Nagorna N.V., Kryvopustov S.P., Ostropolets S.S., Bordyugova O.V. Diagnosis, therapy and prevention of deficiency anemia in children - Donetsk: SPD Dmytrenko L.R., 2007. - 38 p.
8. Volosovets O.P., Lezhenko G.O., Kryvopustov S.P., Prokhorov E.V., Pashkova O.E., Podlianova O.I. Syndrome of undifferentiated connective tissue dysplasia in children and adolescents (prevalence, features of diagnosis and treatment). Monograph, Zaporizhzhia, ZDMU, 2007.-135 p.
9. Volosovets O.P., Savvo V.M., Kryvopustov S.P. Selected issues of children's cardiorheumatology - Kh.: "TNC", 2006 - 256 p.
10. Volosovets O.P., Kryvopustov S.P. Yershova I.B., Reshchikov V.A. Physical rehabilitation in pediatrics. Tutorial. - Kyiv. - Luhansk, 2009. - 182 p.
11. Maidannyk V.G. Rickets in children: Modern aspects - Nezhin: LLC "Aspect-Polygraf" Publishing House, 2006. - 116 p.
12. Maidannyk V.G., Korneichuk V.V., Haytovych N.V., Saltykova G.V. Intestinal diseases in children. - Kyiv: VB "Avanpost-Prim", 2009. - 487 p.
13. Maidannyk V.G., Korneichuk V.V., Haytovych N.V., Saltykova G.V. Diseases of the esophagus, stomach and duodenum in children. - Kyiv: VB "Avanpost-Prim", 2008. - 432 p.
14. Maidannyk V.G., Maidannyk I.V. Directory of modern medicines. - M.: AST; Kharkiv: Folio, 2005.-1024 p.
15. Maidannyk V.G., Mytin Yu.V. Diagnosis, treatment and prevention of inflammatory diseases of the respiratory tract in children - K.: LLC "IC Medprominfor", 2006. - 288 p.
16. Moskalenko V.F., Volosovets O.P., Yavorivskiy O.P., Bulak I.E., Ostapyk L.I., Palienko I.A., Mruga M.R. (ed.) Step 2. General medical training. Part 2. Pediatrics, obstetrics and gynecology, hygiene. - Kyiv: Nova Knyha Publ., 2005.- 404 p.

17. Emergencies in pediatrics: Education. manual / Edited by prof. O.P. Volosovets and Y.V. Marushka - H.: Banner. - 2008. - 200 p.
18. Provision of inpatient care to children. Pocket reference book. Original edition : Pocket book of Hospital care for children. Geneva, WHO . - 2006, 378 p.
19. Primary arterial hypertension in children and adolescents/Ed. V.G. Maidannyka, V.F. Moskalenko. - K.-2007.-389 p.
20. Fisher, Randall G.; Boyce, Thomas G. Moffet's Pediatric Infectious Diseases: A Problem Approach, 4 Edition. – 2005.-1054 p.

### **Information resources :**

#### **Official evidence-based, practically-oriented medical information contained in the publications:**

1. AMA (American Medical Association) <https://www.ama-assn.org/>
2. American Academy of Family Physicians <http://www.aafp.org/home.html>
3. American Academy of Pediatrics Policy (AAP Policy) Clinical Practice Guidelines <https://www.aap.org>
4. American College of Cardiology <http://www.acc.org/>
5. American College of Emergency Physicians <https://www.acep.org/>
6. American Heart Association <http://news.heart.org/>
7. BMJ Clinical Evidence <http://clinicalevidence.bmj.com>
9. Eastern Association for the Surgery of Trauma <https://www.east.org/>
10. European Pediatric Association, the Union of National European Pediatric Societies and Associations (EPA/UNEPSA) <http://www.epa-unepsa.org/>
11. European Society of Cardiology <http://www.escardio.org/>
12. <http://www.mozdocs.kiev.ua>
13. Medscape from WebMD <http://www.medscape.com>
14. Medscape from WebMD <http://www.medscape.com>
15. National Comprehensive Cancer Network <https://www.nccn.org/>
16. National Guideline Clearinghouse <https://www.guideline.gov/>
17. National Institute for Health and Clinical Excellence (NICE) <https://www.nice.org.uk/>
18. Royal College of Physicians <https://www.rcplondon.ac.uk/>
19. The Association of the Scientific Medical Societies in Germany <http://www.awmf.org>
20. The Cochrane Collaboration The Cochrane Library
21. The European Society for Emergency Medicine <https://www.eusem.org/>
22. The Finnish Medical Society Duodecim <https://www.duodecim.fi/>
23. The French National Authority for Health <http://www.has-sante.fr/>
24. The National Association of Emergency Medical Technicians (NAEMT) <http://www.naemt.org/>
25. The National Association of State EMS <https://www.nasemso.org/>
26. The National Health and Medical Research Council (NHMRC) <https://www.nhmrc.gov.au>
27. Up To Date <http://www.uptodate.com> Western Trauma Association <https://westerntrauma.org/>