MINISTRY OF HEALTH OF UKRAINE

ODESA NATIONAL MEDICAL UNIVERSITY

Department of Propedeutics of Internal Medicine and Therapy

CONFIRMED by

Rector for scientific and pedagogical work

_____ Eduard BURIACHKIVSKYI

01.09.2024

WORK PROGRAM OF THE DISCIPLINE
NURSING PRACTICE

Level of higher education: second (master's)

Field of knowledge: 22 "Health care"

Specialty: 222 "Medicine"

Educational and professional program: Medicine

2024

The working program is compiled on the basis of the educational and professional program "Medicine" for the training of specialists of the second (master's) level of higher education in the specialty 222 "Medicine" of the field of knowledge 22 "Health care", approved by the Academic Council of ONMedU (minutes No. 10 dated 27/06/2024).

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The working program is approved at the meeting of the department of propaedeutic of internal medicine Minutes No._ dated 27/08/2024.

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Approved by the subject-cycle methodological commission for therapeutic of ONMedU
Minutes No. 1 dated 30/08/2024

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Minutes No. __ dated __/__/20__.

Head of the department _____ Olena YAKIMENKO

Revised and approved at the meeting of the department of propaedeutic of internal medicine
Minutes No. __ dated __/__/20__.

Head of the department _____ Olena YAKIMENKO

1. DESCRIPTION OF PRACTICE

Total number: Credits: 2.0 Hours: 60	Discipline 22 "Health care" Specialty 222 "Medicine" Level of higher education the second (master's**)** "Sister's Business"	*Full-time education* *Mandatory educational component*
		Year of training: 3
		Semesters V
		Lectures (0 hours)
		Seminars (0 hours)
		Practical (30 hours)
		Laboratory (0 hours)
		Independent work (30 hours)
		including individual tasks (0 hours)
		Final control form - KPI

2. PURPOSE AND OBJECTIVES OF PRACTICE, COMPETENCES, PROGRAM OUTCOMES OF LEARNING

Goal: Mastering by the student of higher education the 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 familiarization with the work of medical personnel of all ranks in the conditions of future activities at the bases of medical and preventive institutions.

WITHgiving:

1. Improvement of skills and abilities in the work of medical workers of all levels in medical institutions of a therapeutic profile.

The practice process is aimed at forming elements of the following competencies**:**

General (ZK):

ZK3. Ability to apply knowledge in practical situations.
ZK4. Knowledge and understanding of the subject area and understanding of professional activity.
ZK5. Ability to adapt and act in a new situation.
ZK7. Ability to work in a team.
ZK8. Ability to interpersonal interaction.
ZK10. Ability to use information and communication technologies.
ZK13. Awareness of different opportunities and gender issues.
ZK14. The ability to realize one's rights and responsibilities as a member of society, to be aware of the values of a public (free, democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.
ZK15. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.
ZK16. The ability to evaluate and ensure the quality of the work performed.

Special (SK):

SK2. Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results.
SK5. The ability to determine the nature of nutrition in the treatment and prevention of diseases.
SK6. Ability to determine the principles and nature of treatment and prevention of diseases.
SK7. Ability to diagnose emergency conditions.
SK8. Ability to determine tactics and provide emergency medical care.

SK9. Ability to carry out sanitary evacuation measures.
SK10. Ability to perform medical manipulations.
SK11. 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 compliance, including an early intervention system.
SK13. Ability to carry out sanitary and hygienic and preventive measures.
SK14. Ability to plan and carry out preventive and anti-epidemic measures for infectious diseases.
SK16. Ability to maintain medical documentation, including electronic forms.
SK24. Adherence to ethical principles when working with patients and laboratory animals.
SK25. Adherence to professional and academic integrity, to be responsible for the reliability of the obtained scientific results.

Program learning outcomes (PRL):

PRN17. 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.
PRN24. 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.

As a result of the internship, the student of higher education must:

Know:

- Basics of organizing therapeutic care for the population of Ukraine.
- The main functional duties of medical workers of all levels.
  1. The structure and functions of the therapeutic hospital.
  2. The structure and functions of the polyclinic.
- Moral and deontological principles of a medical worker and principles of professional subordination
- Rules for filling out medical documentation in various divisions of medical institutions.
- Provision of emergency aid in emergency situations.
- Organization of medical evacuation measures.

Be able:

- Possess the skills of communication and clinical examination of the patient. Collect data on the patient's complaints, medical history, life history.
- Diagnose emergency conditions (list 3).
- Determine tactics and provide emergency medical care in emergency situations (list 3).
- Perform medical manipulations (according to list 5).
- Keep medical records.
- To comply with the requirements of ethics, bioethics and deontology in their professional activities.
- Plan and carry out sanitary and hygienic and preventive measures.

3. CONTENTS OF PRACTICE

Topic 1. Moral and ethical legislative principles of nursing in Ukraine. Organization of the work and duties of the nurse of the main structural divisions of the therapeutic hospital. Determination of the role and place of the nurse in the care of patients in the medical and diagnostic process, the concept of its structure and conditions. Moral, ethical and deontological principles of formation of a medical specialist. The main professional duties of secondary medical personnel in polyclinic and inpatient departments of the hospital. Principles of professional subordination in the doctor-nurse-junior medical staff system. The concept of medical and protective, sanitary and hospital regimes of a therapeutic hospital, the role of junior medical personnel in their provision.
Topic 2. Determination of vital functions of the patient's body: blood pressure measurement algorithm, pulse research technique, analysis of pulse properties, thermometry technique, research of external breathing functions. Rules for filling out the temperature sheet. Regulation of body temperature is normal. Methods of measuring body temperature. Registration on temperature sheets. Pulse, its definition. Vessels available for palpation. The main properties of the pulse (uniformity,

rhythmicity, frequency, tension, filling) and the rules for their determination. Methodology of pulse research on radial arteries. Concept of pulse deficiency. Blood pressure and the rules of its measurement on the brachial artery. Basic rules for determining breathing parameters: frequency, depth, type, rhythm of breathing. Rules for filling out the temperature sheet.

Topic 3. Technique and algorithm of hygienic treatment of hands. Disinfection. Sterilization. Types and algorithm of various types of cleaning. Preparation of the manipulation cabinet. Definition of standards of asepsis and antiseptics. Disinfection methods and techniques. Types of sterilization, methods of assessing the quality of pre-sterilization cleaning and sterilization. Rules and methods of preparation of the working surface of the manipulation nurse, preparation of the manipulation room at the beginning and at the end of working hours.

Topic 4. The technique of performing intradermal, subcutaneous, intramuscular, intravenous injections, intravenous drip infusions. Types and algorithm of catheter placement. Calculation of the dose of the soluble form of the drug for injection. Insulin administration technique. Techniques, algorithms for intradermal, subcutaneous, intramuscular, intravenous injections, intravenous drip infusions. Classification of catheters, algorithm for setting up a peripheral intravenous catheter. Methods of insulin administration, keeping medical records, places of insulin administration, side effects.

Topic 5. Methods and techniques of blood and urine collection for general blood and urine analysis. The method of urine collection according to the method of Ambyurge, Kakovsky-Addis and Nechyporenko. Methods of blood collection for biochemical and immunological studies. Method of using a glucometer. Rules for collecting urine and blood for various types of laboratory tests, rules for patient preparation and patient instruction. Assessment of laboratory indicators and their significance in the diagnostic process. Algorithm for determining blood glucose using a glucometer. Evaluation of the result. First aid for patients with hypoglycemic and hyperglycemic coma.

Topic 6. Methods and technique of taking material for bacteriological research. Material collection algorithm for quick tests. Diagnostic value of laboratory tests. Algorithm for taking material from the pharynx cavity, nasal scraping, discharge from the ears. Preparation of the patient and the algorithm for taking urine and feces for bacteriological research.

Topic 7. Methodology and technique of electrocardiogram registration. Standard and additional leads. Analysis of the main elements of the electrocardiogram. Basic concepts of electrocardiographic research. Electrocardiogram registration technique using standard leads. Analysis of the main components of the electrocardiogram.

Topic 8. Care of the seriously ill. Oral and nasal care, eyes. Prevention of bedsores. Prevention of congestion phenomena in the lungs in seriously ill patients. Technique of changing underwear and bed linen. Methods of treatment of the oral and nasal cavity. Preparation of solutions and tools for manipulations. Definition of the concept of bedsores, classification. Methods of prevention and treatment of bedsores. Techniques and types of respiratory gymnastics in seriously ill patients.

Topic 12. Terminal states. Cardiopulmonary resuscitation (CPR). Concepts and types of terminal state (death). Signs of clinical and biological death. Rules for handling a corpse. Cardiopulmonary resuscitation (CPR), principles and standards of assessment of vital functions and performance of CPR.

Topic 13. Technique of pulse oximetry. Oxygen therapy. Rules for using nebulizers and pocket inhalers. The main indicators of pulse oximetry. Reference values. Indications for oxygen therapy. The structure of Bobrov's apparatus. Safety techniques when working with oxygen. Indications and contraindications for inhalation. Types of nebulizers, technique of use.

4. STRUCTURE OF PRACTICE

Subject	That's all	Practical classes	SRH
Practical lesson 1. Moral and ethical legislative principles of nursing in Ukraine. Organization of the work and duties of the nurse of the main structural divisions of the therapeutic hospital.	4	2	2

Practical lesson 2-3. Determination of vital functions of the patient's body: blood pressure measurement algorithm, pulse research technique, analysis of pulse properties, thermometry technique, research of external breathing functions. Rules for filling out the temperature sheet.	4	4	2
Practical lesson 4. Technique and algorithm of hygienic and surgical treatment of hands. Disinfection. Sterilization. Types and algorithm of various types of cleaning. Preparation of the manipulation cabinet.	4	2	2
Practical lessons 5-7. The technique of performing intradermal, subcutaneous, intramuscular, intravenous injections, intravenous drip infusions. Types and algorithm of catheter placement. Calculation of the dose of the soluble form of the drug for injection. Insulin administration technique.	6	6	4
Practical lesson 8. Methods and techniques of blood and urine collection for general blood and urine analysis. The method of urine collection according to the method of Ambyurge, Kakovsky-Addis and Nechyporenko. Methods of collecting evidence for biochemical and immunological studies. Method of using a glucometer.	4	2	2
Practical lesson 9. Methods and technique of taking material for bacteriological research. Material collection algorithm for quick tests. Diagnostic value of laboratory tests.	4	2	2
Practical lesson 10-11. Methodology and technique of electrocardiogram registration. Standard and additional leads. Analysis of the main elements of the electrocardiogram.	6	4	4
Practical lesson 12-13. Care of the seriously ill. Oral and nasal care, eyes. Prevention of bedsores. Prevention of congestion phenomena in the lungs in seriously ill patients.	4	4	4
Practical lesson 14. Terminal states. Cardiopulmonary resuscitation (CPR).	4	2	2
Practical lesson 15. Technique of pulse oximetry. Oxygen therapy. Rules for using nebulizers and pocket inhalers.	4	2	2
Preparation for KPI	4	-	4
Only hours	60	30	30

5. TOPICS OF LECTURE / SEMINAR / PRACTICAL / LABORATORY LESSONS

5.1. Topics of lectures

Lectures are not provided.

5.2. Topics of seminar classes

Seminar classes are not provided.

5.3. Topics of practical classes

№	**Topic name**	How many hours?
1	**Practical lesson 1.** Moral and ethical legislative principles of nursing in Ukraine. Organization of the work and duties of the nurse of the main structural divisions of the therapeutic hospital.	2
2	**Practical lesson 2-3.** Determination of vital functions of the patient's body: blood pressure measurement algorithm, pulse research technique, analysis of pulse properties, thermometry technique, research of external breathing functions. Rules for filling out the temperature sheet.	4
3	**Practical lesson 4.** Technique and algorithm of hygienic and surgical treatment of hands. Disinfection. Sterilization. Types and algorithm of various types of cleaning. Preparation of the manipulation cabinet.	2
4	**Practical lessons 5-7.** The technique of performing intradermal, subcutaneous, intramuscular, intravenous injections, intravenous drip infusions. Types and algorithm of catheter placement. Calculation of the dose of the soluble form of the drug for injection. Insulin administration technique.	6
5	**Practical lesson 8.** Methods and techniques of blood and urine collection for general blood and urine analysis. The method of urine collection according to the method of Ambyurge, Kakovsky-Addis and Nechyporenko. Methods of collecting evidence for biochemical and immunological studies. Method of using a glucometer.	2
6	**Practical lesson 9.** Methods and technique of taking material for bacteriological research. Material collection algorithm for quick tests. Diagnostic value of laboratory tests.	2
7	**Practical lesson 10-11.** Methodology and technique of electrocardiogram registration. Standard and additional leads. Analysis of the main elements of the electrocardiogram.	4
8	**Practical lesson 12-13.** Care of the seriously ill. Oral and nasal care, eyes. Prevention of bedsores. Prevention of congestion phenomena in the lungs in seriously ill patients.	4
12	**Practical lesson 14.** Terminal states. Cardiopulmonary resuscitation (CPR).	2
13	**Practical lesson 15.** Technique of pulse oximetry. Oxygen therapy. Rules for using nebulizers and pocket inhalers.	2
	Only hours	**30**

6. INDEPENDENT WORK OF A HIGHER EDUCATION ACQUIRENT

№	Title of the topic / types of tasks	How many hours
1	**Preparation for practical class 1.** Moral and ethical legislative principles of nursing in Ukraine. Organization of the work and duties of the nurse of the main structural divisions of the therapeutic hospital.	2
2	**Preparation for practical lesson 2-3.** Determination of vital functions of the patient's body: blood pressure measurement algorithm, pulse research technique,	2

	analysis of pulse properties, thermometry technique, research of external breathing functions. Rules for filling out the temperature sheet.	
3	**Preparation for practical class 4.** Technique and algorithm of hygienic and surgical treatment of hands. Disinfection. Sterilization. Types and algorithm of various types of cleaning. Preparation of the manipulation cabinet.	2
4	**Preparation for practical lesson 5-7.** The technique of performing intradermal, subcutaneous, intramuscular, intravenous injections, intravenous drip infusions. Types and algorithm of catheter placement. Calculation of the dose of the soluble form of the drug for injection. Insulin administration technique.	4
5	**Preparation for practical class 8.** Methods and techniques of blood and urine collection for general blood and urine analysis. The method of urine collection according to the method of Ambyurge, Kakovsky-Addis and Nechyporenko. Methods of collecting evidence for biochemical and immunological studies. Method of using a glucometer.	2
6	**Preparation for practical class 9.** Methods and technique of taking material for bacteriological research. Material collection algorithm for quick tests. Diagnostic value of laboratory tests.	2
7	**Preparation for practical class 10-11.** Methodology and technique of electrocardiogram registration. Standard and additional leads. Analysis of the main elements of the electrocardiogram.	4
8	**Preparation for practical class 12-13.** Care of the seriously ill. Oral and nasal care, eyes. Prevention of bedsores. Prevention of congestion phenomena in the lungs in seriously ill patients.	4
9	**Preparation for practical class 14.** Terminal states. Cardiopulmonary resuscitation (CPR).	2
10	**Preparation for practical class 15.** Technique of pulse oximetry. Oxygen therapy. Rules for using nebulizers and pocket inhalers.	2
14	Preparation for KPI	4
	Only hours	**30**

7. TEACHING METHODS

Practical classes: conversation, role-playing games, solving clinical situational problems, practicing the skills of examining patients, practicing the skills of performing manipulations according to list 5, instructing and practicing skills on simulation dummies, direct work with the patient.

Independent work: independent work with recommended basic and additional literature, with electronic information resources, preparation of reporting documents and practice diary.

8. FORMS OF CONTROL AND ASSESSMENT METHODS (INCLUDING CRITERIA FOR ASSESSMENT OF PRACTICE RESULTS)

Current control: survey, testing, assessment of performance of practical skills, assessment of communication skills during role-playing, solving situational clinical tasks, assessment of activity in class.

Final control: KPI

Assessment of current activity in a practical session:

- Evaluation of theoretical knowledge on the subject of the lesson:
  - methods: survey, solving a situational clinical problem

    - assessment: maximum – 5, minimum – 3, unsatisfactory – 2
- Evaluation of practical skills and manipulations on the subject of the lesson:
    - methods: assessment of the correctness of the performance of practical skills
    - assessment: maximum – 5, minimum – 3, unsatisfactory – 2
- Evaluation of work with patients on the subject of the lesson:
    - methods: communication skills with the patient and his relatives; correctness of appointment and assessment of laboratory and instrumental studies; compliance with the differential diagnosis algorithm; substantiation of the clinical diagnosis; drawing up a treatment plan
    - assessment: maximum – 5, minimum – 3, unsatisfactory – 2

The grade for one practical session is the arithmetic average of all components and can only have a whole value (5, 4, 3, 2), which is rounded according to the statistical method.

Current evaluation criteria in practical training

Rating	Evaluation criteria
Perfectly «5»	The applicant is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills. Excellently interprets the data of clinical, laboratory and instrumental studies, expresses his opinion on the topic of the lesson, demonstrates clinical thinking.
Okay «4»	The applicant has a good command of the material, participates in the discussion and solution of a situational clinical problem, demonstrates practical skills. Interprets the data of clinical, laboratory and instrumental studies well with some errors, expresses his opinion on the subject of the class, demonstrates clinical thinking.
Satisfactorily «3»	The acquirer does not have sufficient knowledge of the material, is unsure of participating in the discussion and solution of a situational clinical problem, demonstrates practical skills for and interprets clinical, laboratory and instrumental research data with significant errors.
Unsatisfactorily «2»	The acquirer does not possess the material, does not participate in the discussion and solution of the situational clinical problem, does not demonstrate practical skills.

The applicant is admitted to the KPI on the condition that he meets the requirements of the end-to-end work program of practice and if he received at least 3.00 points for the current activity.

Evaluation of the results of the students' practice during the final control - comprehensive practical exam (KPI).

The methodology of final control in the form of KPI is unified and involves the use of standardized forms. The number of practical skills taught at KPI corresponds to the number of production practice profiles on the corresponding course under the corresponding OPP.

Evaluation of the winner is carried out according to a checklist. During the KPI, the applicant receives a ticket, and the examiners use a checklist for the corresponding ticket with reference answers and determine which mandatory component answers were fulfilled or not fulfilled by the acquirer.

Each point of the algorithm, depending on the complexity, is assigned a certain number of points. The specific weight (number of points) of each item may be different - depending on the number of items and the difficulty of performing a particular item. Some scenarios may have critical points, failing which the task is considered failed. Ambiguity of understanding should be excluded when forming checklist items.

. When the applicant performs certain actions, he can receive "minus points", namely:

№	Evaluation criterion	Honey

1.	Unregulated action or attempt to communicate with the examiner, not provided for in the task	- 5
2.	The second unregulated action or attempt to communicate with the examiner, not provided for in the task	- 5
3.	The third unregulated action or attempt to communicate with the examiner, not provided for in the task	-5
4.	The fourth unregulated action or attempt to communicate with the examiner, not provided for in the task	- 5
5.	More than 4 unregulated actions	- 20
6.	Dangerous action (which will inevitably lead to deterioration of the patient's condition)	- 20
7.	Unacceptable behavior	- 20
8.	Damage to simulation equipment or inventory	- 20

The maximum score for completing a task at one station is 100 points. The KPI is considered completed if the applicant has scored at least 60% of the maximum number of points at each station.

. The overall score according to the KPI is calculated as the arithmetic average of all received grades for all profiles. The KPI is conducted in the Educational and Production Complex of Innovative Technologies of Learning, Informatization and Internal Monitoring of the Quality of Education of the University during the examination sessions at the end of the semester (autumn and spring) according to the schedule.

9. Distribution of points received by students of higher education

The obtained average score for the academic discipline for applicants who have successfully mastered the work program of the academic discipline is converted from a traditional four-point scale to points on a 200-point scale, as shown in the table:

Conversion table of a traditional assessment into a multi-point scale

Traditional four-point scale	Multipoint 200-point scale
Excellent ("5")	185 – 200
OK («4»)	151 – 184
Satisfactory ("3")	120 – 150
Unsatisfactory ("2")	Below 120

A multi-point scale (200-point scale) characterizes the actual success of each applicant in learning the educational component. The conversion of the traditional grade (average score for the academic discipline) into a 200-point grade is performed by the information and technical department of the University.

According to the obtained points on a 200-point scale, the achievements of the applicants are evaluated according to the ECTS rating scale. Further ranking according to the ECTS rating scale allows you to evaluate the achievements of students from the educational component who are studying in the same course of the same specialty, according to the points they received.

The ECTS scale is a relative-comparative rating, which establishes the applicant's belonging to the group of better or worse among the reference group of fellow students (faculty, specialty). An "A" grade on the ECTS scale cannot be equal to an "excellent" grade, a "B" grade to a "good" grade, etc. When converting from a multi-point scale, the limits of grades "A", "B", "C", "D", "E" according to the ECTS scale do not coincide with the limits of grades "5", "4", "3" according to the traditional scale. Acquirers who have received grades of "FX" and "F" ("2") are not included in the list of ranked acquirers. The grade "FX" is awarded to students who have obtained the minimum

number of points for the current learning activity, but who have not passed the final examination. A grade of "F" is assigned to students who have attended all classes in the discipline, but have not achieved a grade point average (3.00) for the current academic activity and are not admitted to the final examination.

Applicants who study on one course (one specialty), based on the number of points scored in the discipline, are ranked on the ECTS scale as follows:

Conversion of the traditional grade from the discipline and the sum of points on the ECTS scale

Evaluation on the ECTS scale	Statistical indicator
A	Top 10% achievers
IN	The next 25% of earners
S	The next 30% of earners
D	The next 25% of earners
Well	The next 10% of earners

10. METHODOLOGICAL SECURITY

- Working practice programs
- Syllabus
- Methodical developments for practical classes
- Methodical recommendations for independent work of higher education applicants
- Multimedia presentations
- Situational clinical tasks
- Scenarios of role-playing games (if necessary)
- Clinical scenarios (as needed)
- Electronic bank of test tasks

11. LIST OF PRACTICAL SKILLS FOR KPI

1. Technique of intradermal injection.
2. Technique of subcutaneous injection.
3. Methodology of intramuscular injection.
4. Method of intravenous injection.
5. Catheterization of the urinary bladder with a Foley catheter in a woman.
6. Supply of humidified oxygen.
7. Taking swabs from the throat and nose.
8. Instilling drops into the eyes and nose.
9. Measurement of blood pressure on the upper limbs.
10. Registration of an electrocardiogram in 12 standard leads (ECG).

12. RECOMMENDED LITERATURE

Basic

1. Patient care and nursing. / O.O. Yakymenko, D.M. Sebov, O.E. Kravchuk, N.M. Antipova, D.A. Oliynyk, M.V. Hrytsenko - Bible study doctor of ONMedU. - Odesa. -2018. - 216 p.
2. Nursing in internal medicine: a textbook. 5th edition. / O.S. Stasyshyn, V.V. Stasiuk, I.M. Bandura, I.V. Vibla et al. - Medicine. - 2019. - 496 p.
3. The basics of nursing in modules. Study guide. 3rd edition / N.M. Kasevich - Medicine. - 2018.

- 480 p.

Additional

1. General patient care and medical manipulation techniques: a textbook (University I-III years) / N.M. Kasevich; under the editorship V.I. Lytvynenko — 7th ed., edition, 2017 – 424 p.

13. ELECTRONIC INFORMATION RESOURCES

1. Resolution of the Cabinet of Ministers of Ukraine dated March 28, 2018 No. 302 "On approval of the Regulation on the system of continuous professional development of specialists in the field of health care" URL: https://zakon.rada.gov.ua/laws/show/302-2018-п#Text
2. Institutional repository of Odessa National Medical University (IRONMedU) URL: https://repo.odmu.edu.ua/xmlui/
3. National Library of Ukraine named after V. I. Vernadsky URL: http://www.nbuv.gov.ua/e-resources/
4. Ministry of Health of Ukraine. URL: https://moz.gov.ua/strategija-rozvitku-medichnoi-osviti
5. SCOPUS database. URL: https://www.scopus.com/sources
6. British Medical Journal - Learning. URL: https://new-learning.bmj.com
7. National Library of Medicine. PubMed. URL: https://pubmed.ncbi.nlm.nih.gov
8. https://onmedu.edu.ua/ - website of Odesa National Medical University
9. https://onmedu.edu.ua/kafedra/propedevtiki-vnutrishnih-hvorob-ta-terapii/ - Information page of the Department of Propedeutics of Internal Diseases and Therapy of ONMedU