

MINISTRY OF HEALTH OF UKRAINE
ODESA NATIONAL MEDICAL UNIVERSITY
Department of simulation medical technologies

Syllabus of the practice
«Simulation medicine (patient care)»

Scope of practice	Total number of hours for practice: 90 hours, 3 credits Semester: III — IV 2 year of study
Days, time, place of practice	According to the schedule of classes Department of simulation medical technologies Odesa, Valikhovsky Lane, 3
Teacher(s)	Head of the department, Doctor of Economics, Doctor of Medicine, Associate Professor Oleksandr ROGACHEVSKYI Assistant of professor Olha YEHORENKO Associate professor, PhD Mykhailo PERVAK Associate professor, PhD Vasyl GLADCHUK Associate professor, PhD Igor SHEVCHENKO Associate professor, PhD Yuriy PETROVSKIY Assistant of professor Viacheslav ONYSHCHENKO Assistant of professor Dmytro KARAKONSTANTYN Assistant of professor Svitlana TRISHCHENKO Assistant of professor Hennadii CHEREMNYKH Assistant of professor Andrii DOBROVOLSKYI
Contact Information	E-mail: simmedtech@onmedu.edu.ua Consultations: from 14.30 to 16.30 every working day

COMMUNICATION

Communication with students of higher education will be conducted in the classroom (face-to-face).

During distance learning, communication is carried out through the Microsoft Teams platform, as well as through e-mail correspondence, Viber, WhatsApp, Telegram messengers (through groups created in Viber, WhatsApp, Telegram for each group, separately through the head of the group).

ABSTRACT OF PRACTICE

The subject there is a set of measures aimed at creating favorable conditions for the successful treatment of patients, alleviating their condition and meeting the basic physiological needs of the body.

Prerequisites: it is based on the knowledge gained during the study of the previous disciplines: medical biology, normal human anatomy and physiology, medical physics, bioorganic and biological chemistry, as well as the study of microbiology, virology and immunology, clinical anatomy and operative surgery, with which the program of this program is integrated disciplines

Post-requisites: improves theoretical knowledge and forms the basis for the student's further study of clinical disciplines - propaedeutics of internal medicine, surgery and pediatrics, internal medicine, medical psychology, infectious diseases, oncology, anesthesiology and intensive care, which involves integration with these disciplines "vertically" and formation the ability to apply knowledge of patient care in the process of further education and professional activity.

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The aim is the formation of relevant competencies and mastery of the skills of the ability to create favorable conditions for successful treatment of patients, improvement of manipulation skills and competencies acquired during the study of previous disciplines.

Task:

1. Formation of competences in the ability to ensure favorable and comfortable conditions of stay in the hospital in the most frequent cases that occur in the internal medicine, pediatrics and surgical specialty hospitals, and to provide the necessary care for them.
2. Acquiring the ability to determine and assess the general condition of the patient, the main parameters of his vital activity and the rules for ensuring the vital needs of the body.
3. Mastering the basic practical skills in patient care, the ability to apply methods of management and prevention of complications that are associated with an insufficient amount of care assistance in the treatment of various diseases that occur in hospitals of departments of internal medicine, pediatrics, and surgical profile.
4. The formation of moral and ethical and deontological qualities in the applicants during the implementation of measures for patient care.

Expected results:

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

To know:

- Anatomical structure of organs and systems in adults and children of different ages
- Basics of organizing a rational regimen and treatment in a surgical hospital
- Basics of organizing a rational regime and treatment in departments of therapeutic and pediatric profile
- General elements of patient care in therapeutic, surgical and pediatric departments
- Methods of determining the patient's general condition. Concept of patient hygiene
- Theoretical aspects of dressing material and methods of its application
- Theoretical foundations of modern antiseptics
- General issues of surgical infection, HIV and hepatitis
- Algorithm and protocols for providing a medical and preventive regimen in a hospital and patient care
- Principles of medical ethics
- Concepts, indications, contraindications, technique, algorithm and complications of manipulations:
 1. skin care, prevention of bedsores
 2. care of ears, nasal cavity, eyes
 3. body temperature measurement
 4. setting an enema
 5. patient preparation for urine and stool collection
 6. temporary stoppage of external bleeding
 7. applying compresses ("dry", "hot", "cold")
 8. feeding the patient
 9. putting the ship to the seriously ill
 10. colostomy care
 11. indwelling urinary catheter care

Be able to:

- Orientate yourself in the anatomical structure of organs and systems in adults and children of different ages
- Be able to analyze the patient's general condition
- Name pathological changes in human organs and systems
- Determine the sequence of actions when providing assistance

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- Perform the necessary manipulations:
 1. to feed a patient who is lying down
 2. treatment of bedsores
 3. putting the ship to the seriously ill
 4. colostomy care
 5. indwelling urinary catheter care
 6. nasogastric (orogastric) tube care
 7. transfer of the patient
 8. preparation of the patient for transportation and transportation of the patient
 9. placing the patient in the Fowler and Sims position
- Monitor the patient's condition after performing practical skills
- Solve deontological tasks related to professional activity
- Have professional communication skills

DESCRIPTION OF THE PRACTICE

Forms and methods of education. Practice will be taught in the form of lectures (4 hours); practical classes (48 hours) and organization of students' individual work (38 hours).

Consultations are individual.

Teaching methods.

Practical classes: conversation, role-playing, solving clinical situational problems, practice and control of practical skills on simulation models and mannequins (according to list 5), passing simulation scenarios, solving test tasks.

Individual work: individual work with the recommended basic and additional literature, electronic information resources, individual work with the bank of test tasks, preparation for practical classes.

Contents of practice:

Topic 1. Sanitary and medical and preventive regime in the hospital. Cleaning of wards and corridors. Preparation of working solutions. Sterilization

Topic 2. Assessment of the patient's general condition. Position in bed. State of consciousness. Body temperature, rules for its measurement and registration. Care of patients with fever

Topic 3. Personal hygiene of patients

Topic 4. Administration of medicines: eye drops, ear drops, nasal drops and sprays, inhalations, application of creams (ointments). Production and application of compresses, tampons. Use of metered cold

Topic 5. Observation and care of children up to 1 year

Topic 6. Observation and care of children older than 1 year

Topic 7. Transportation and transfer of the patient

Topic 8. Stopping external bleeding with improvised means. Applying the harness. Applying a tourniquet

Topic 9. Bedsores: the main causes, risk factors, prevention and treatment

Topic 10. Care of patients with fever

Topic 11. Technique of oral feeding of patients with mobility restrictions

Topic 12. Technique of enteral feeding. Installation of orogastric and nasogastric probes

Topic 13. The technique of laying the bedpan on the seriously ill. Colostomy care

Topic 14. Urinary catheter technique. Care of a urinary catheter

Differential test

List of recommended literature:

Main:

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1. Patient care and nursing: study guide / O.O. Yakymenko; edited by Yakymenko O.O., 2021 — 178 p.
2. Patient care and medical manipulation techniques: study guide / L.S. Savka, L.I. Razinkova, O.I. Kotsar, L.M. Kovalchuk, O.V. Kononov. — 4th edition // K.: VSV "Medicine", 2018. - 900 p.
3. Kasevich N.M. General patient care and medical manipulations on equipment: tutorial. for students higher honey. education closing I-III levels of accreditation / edited by V.I. Lytvynenko - 7th ed., corr. - K.: Medicine, 2017. - 424 p.

Additional:

1. Netyazhenko V.Z., Shchulipenko I.M., Didkivska L.A. Patient care (general and special with the basics of nursing technique): tutor. for students higher honey. education closing IV level of accreditation. - K.: Health, 2013. - 591 p.
2. Kovalova O.M., Lisovyi V.M., Shevchenko S.I., Frolova T.I. Patient care (practice): tutor. for students higher honey. closing of education of III-IV levels of accreditation. — Type 3, corr. - K.: Medicine, 2015. - 488 p.
3. Tyazhka O.V., Antoshkina A.M., Vasyukova M.M., Kazakova L.M., Lutai T.I. etc. Basics of childcare. Technique of medical procedures and manipulations: training. manual for honey Higher education institution III-IV r.a. - 2nd edition. / edited by O.V. Heavy - K.: Medicine, 2014. - 152 p.
4. Order of the Ministry of Health of Ukraine No. 460 dated 01.06.13 On the approval of protocols of a nurse (paramedic, midwife) for patient care and the performance of basic medical procedures and manipulations. [electronic resource] — Access mode: <http://mozdocs.kiev.ua>
5. Order of the Ministry of Health No. 149 of March 20, 2008 "On approval of the clinical protocol for medical care of a healthy child under the age of 3" [electronic resource] - Access mode: <http://mozdocs.kiev.ua>
6. Order of the Ministry of Health of Ukraine No. 152 dated 04/04/2005 "On approval of the Protocol of medical care for a healthy newborn child". [electronic resource] — Access mode: <http://mozdocs.kiev.ua>
7. Order of the Ministry of Health of Ukraine No. 798 dated 21.09.2010 On approval of methodological recommendations "Surgical and hygienic treatment of hands of medical personnel" [electronic resource]. — Access mode: <http://medsoft.ucoz.ua>
8. Order of the Ministry of Health of Ukraine No. 110 dated 14.02.2012 On the approval of the forms of primary accounting documentation and instructions for filling them out, which are used in health care institutions regardless of the form of ownership and subordination [electronic resource]. — Access mode: <http://medsoft.ucoz.ua>
9. Order of the Ministry of Health of Ukraine No. 223 of 10/22/1993 On the collection, disinfection and delivery of used single-use medical products made of plastic materials [electronic resource]. — Access mode: <http://medsoft.ucoz.ua>

Electronic resources:

1. <http://moz.gov.ua> — Ministry of Health of Ukraine
2. <http://www.nbuv.gov.ua/> — National Library of Ukraine
3. www.who.int — World Health Organization
4. <https://gmka.org/uk/category/dlya-medykiv/nevidkladna-hirugiya/> — Global Alliance for Medical Knowledge

EVALUATION

Forms and methods of current control:

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- oral control: individual survey on questions of the relevant topic;
- written control: assessment of the solution of clinical situational problems, assessment of the performance of practical skills on simulation models and mannequins;
- test control: assessment of solving test tasks.

Criteria of ongoing assessment at the practical class

Rating	Evaluation criteria
Excellent "5"	The applicant takes an active part in the lesson; demonstrates deep knowledge, gives complete and detailed answers to questions. Thoroughly and comprehensively knows the content of theoretical issues, fluent in professional and scientific terminology. Thinks logically and constructs an answer, freely uses acquired theoretical knowledge when analyzing practical tasks. When solving a clinical problem, he correctly interprets the anamnesis data, the results of clinical, laboratory and instrumental studies, correctly answers all the questions and convincingly substantiates his point of view, can propose and justify an alternative version of the decision on individual issues. When solving a practical task according to the OSCE type, he correctly demonstrates the performance of practical skills on simulation models and mannequins, strictly adheres to the algorithm of their implementation
Good "4"	The acquirer participates in the class; knows the material well; demonstrates the necessary knowledge, but answers the questions with some errors. He knows the content of theoretical issues deeply and comprehensively, and has professional and scientific terminology. Thinks logically and constructs an answer, uses acquired theoretical knowledge when analyzing practical tasks. But when teaching some questions, there is not enough depth and argumentation, it makes insignificant mistakes, which are eliminated by the student himself when the teacher points them out. When solving a clinical problem, minor errors or inaccuracies are assumed in the interpretation of anamnesis data, results of clinical, laboratory and instrumental studies, he answers all the questions without significant errors, fully substantiates his point of view, but proposals for an alternative option cause difficulties. When solving a practical task according to the OSCE type, minor errors in the algorithm and technique of performing skills on simulation models and mannequins are corrected at the instruction of the teacher
Satisfactory "3"	The acquirer sometimes participates in the activity; partially speaks and asks questions; makes mistakes when answering questions. Possesses a basic amount of theoretical knowledge, uses professional and scientific terminology inaccurately. Experiences significant difficulties in constructing an independent logical answer, in applying theoretical knowledge in the analysis of practical tasks. There are significant errors in the answers. When solving a clinical problem, he interprets the history data, the results of clinical, laboratory and instrumental studies with errors, does not know individual details, allows inaccuracies in the answers to questions, does not adequately justify his answers and interprets the wording, experiences difficulties in completing tasks and proposing alternative options. When solving a practical task according to the OSCE type, significant errors are assumed in the algorithm and technique of performing skills on simulation models and mannequins

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Unsatisfactory "2"	The acquirer does not participate in the lesson, is only an observer; never speaks or asks questions, disinterested in learning the material; gives incorrect answers to questions. Has not mastered the basic amount of theoretical knowledge, shows a low level of mastery of professional and scientific terminology. Answers to questions are fragmentary, inconsistent, illogical, cannot apply theoretical knowledge when analyzing practical tasks. There are a significant number of gross errors in the answers. When solving a clinical problem, he cannot interpret the received history data, the results of clinical, laboratory and instrumental studies, answer the questions, or makes significant mistakes in the answers; could not justify his decisions or does it unconvincingly. It does not offer alternative options. When solving a practical task according to the OSCE type, gross errors and errors in the algorithm and technique of performing skills on simulation models and mannequins will not be demonstrated or assumed
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Only those applicants who have fulfilled the requirements of the training program in the discipline, have no academic debt and their average score for the current educational activity in the discipline is at least 3.00 are admitted to the final control in the form of a differential test.

**Evaluation of the results of the students' training during the final control —
differential test**

The content of the evaluated activity	Scores
Passing simulation scenarios	2
Demonstration of practical skills on mannequins and simulators	2
A theoretical question	1
Total	5.0

Criteria for evaluating the results of practice on differential test

Rating	Evaluation criteria
Excellent "5"	The student correctly, accurately and completely completed all practical skills tasks, clearly and logically answered the questions posed by the examiners. Thoroughly and comprehensively knows the content of theoretical issues, fluent in professional and scientific terminology. Thinks logically and constructs an answer, freely uses acquired theoretical knowledge when analyzing practical tasks. When solving a clinical problem, he correctly interpreted the anamnesis data, the results of clinical, laboratory and instrumental studies, answered all the questions correctly and convincingly substantiated his point of view, could propose and justify an alternative version of the decision on individual issues. When solving a practical task according to the OSCE type, he correctly demonstrated the performance of practical skills on simulation models and mannequins, strictly followed the algorithm of their implementation
Good "4"	The student completed all tasks on practical skills sufficiently fully, clearly and logically answered the questions posed by the examiners. He knows the content

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	<p>of theoretical issues deeply and comprehensively, and has professional and scientific terminology. Thinks logically and constructs an answer, uses acquired theoretical knowledge when analyzing practical tasks. But when teaching some questions, there is not enough depth and argumentation, it makes insignificant mistakes, which are eliminated by the applicant himself when the examiner points them out. When solving a clinical problem, he assumed insignificant errors or inaccuracies in the interpretation of anamnesis data, the results of clinical, laboratory and instrumental studies, answered all the questions without significant errors, fully substantiated his point of view, but proposals for an alternative option cause difficulties. When solving a practical task according to the OSCE type, he made minor errors in the algorithm and technique of performing skills on simulation models and mannequins, corrected at the instruction of the teacher</p>
<p>Satisfactory "3"</p>	<p>The learner incompletely completed all practical skills tasks, the answers to additional and leading questions are vague and ambiguous. Possesses a basic amount of theoretical knowledge, uses professional and scientific terminology inaccurately. Experiences significant difficulties in constructing an independent logical answer, in applying theoretical knowledge in the analysis of practical tasks. There are significant errors in the answers. When solving a clinical problem, he interpreted the anamnesis data, the results of clinical, laboratory and instrumental studies with errors, did not know individual details, allowed inaccuracies in the answers to questions, did not sufficiently justify his answers and interpret the wording correctly, experienced difficulties in completing tasks and offering alternative options. When solving a practical task of the OSCE type, significant errors were made in the algorithm and technique of performing skills on simulation models and mannequins</p>
<p>Unsatisfactory "2"</p>	<p>The student of education did not complete the tasks on practical skills, in most cases he did not answer the additional and leading questions of the examiners. He did not master the basic amount of theoretical knowledge, he showed a low level of mastery of professional and scientific terminology. Answers to questions are fragmentary, inconsistent, illogical, cannot apply theoretical knowledge when analyzing practical tasks. There are a significant number of gross errors in the answers. When solving a clinical problem, he could not interpret the received data from the anamnesis, the results of clinical, laboratory and instrumental studies, answer the questions, or made significant mistakes in the answers; could not justify his decisions or did it unconvincingly. He did not offer alternative options. When solving a practical task according to the OSCE type, he did not demonstrate or make gross errors and mistakes in the algorithm and technique of performing skills on simulation models and mannequins</p>

INDIVIDUAL WORK OF HIGHER EDUCATION ACQUIRES

Individual work: individual work with the recommended basic and additional literature, electronic information resources, individual work with the bank of test tasks, preparation for practical classes.

ACADEMIC PRACTICE POLICY

Deadlines and Rescheduling Policy:

- absences from classes due to non-respectable reasons are worked out according to the schedule of the teacher on duty;

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- absences due to valid reasons are worked out according to an individual schedule with the permission of the dean's office.

Academic Integrity Policy:

Applicants must observe academic integrity, namely:

- independent performance of all types of work, tasks, forms of control provided for by the work program of this educational discipline;
- references to sources of information in case of use of ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- provision of reliable information about the results of one's own educational (scientific) activity, used research methods and sources of information.

Unacceptable in educational activities for participants of the educational process are:

- the use of family or official ties to obtain a positive or higher grade during any form of control of academic performance or academic merit;
- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-earphones, telephones, smartphones, tablets, etc.) during control measures;
- going through procedures for monitoring the results of training by fake persons.

For violation of academic integrity, students of higher education may be held to the following academic responsibility:

- decrease in the results of assessment of individual survey, performance of test tasks, assessment for solving situational tasks, performance of individual task, credit, etc.;
- retaking the assessment (test tasks, situational tasks, individual tasks, assessment, etc.);
- assignment of additional control measures (additional situational tasks, individual tasks, tests, etc.);
- conducting an additional inspection of other works authored by the violator.

Attendance and Tardiness Policy:

State of health: applicants suffering from acute infectious diseases, including respiratory diseases, are not allowed to attend classes.

Lateness to classes is not acceptable. A student who is late for class can attend it, but if the teacher has put "nb" in the journal, he must complete it in the general order.

Use of mobile devices:

The use of any mobile devices is prohibited. In case of violation of this clause, the student must leave the class and the teacher will write "nb" in the journal, which he must complete in the general order. Mobile devices may be used by students with the permission of the instructor if they are needed for the assignment.

Behavior in the audience:

The behavior of applicants and teachers in the classrooms must be working and calm, strictly comply with the rules established by the Regulations on academic integrity and ethics of academic relations at Odesa National Medical University, in accordance with the Code of Academic Ethics and University Community Relations of Odesa National Medical University, Regulations on Prevention and detection of academic plagiarism in the research and educational work of students of higher education, scientists and teachers of Odesa National Medical University.