

**MINISTRY OF HEALTH PROTECTION OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY**

Faculty of medicine, international

Department of general, military and pediatric surgery with a course of urology

**Syllabus of industrial practice
" Nursing "**

Scope of the academic discipline	Total number of hours per discipline: 60 hours, 2 credits. Semesters: V. 3 years of study.
Days, time, place of educational discipline	According to the schedule of classes. Department of General and Military Surgery. Odesa, str. Pastera 9, ave . Valikhovskiyi , 5, Multidisciplinary Medical Center of ONMedU . 1 surgical department, 2 surgical department
Teacher(s)	M.A. Kashtalyan, MD., professor, head of the department. Professors: MD., V. E. Vansovich, MD., MD., O.S.Gerasimenko. Associate professors: Ph.D., Drobkov O.L., Ph.D., Kvasnevsky O.A., Ph.D., Kvasnevsky Y.A., Ph.D., Kolotvin A.O., Ph.D., Ilyina-Stognienko V.Yu., Ph.D., Davydov D.M. Assistants: Ph.D., Romak O.I., Ph.D., Samarskyi I.M., Ph.D., Muradyan K.R., Bilash O.V., Pokhlebin V.B., Vityuk M.S.
Contact Information	Help by phone: Bilash Oksana Viktorivna, head teacher of the department 093-848-4048 Ilyina-Stognienko Viktoriya Yuriivna , responsible for organizational and educational work of the department 067-971-21-05 Zhebrakovska Maryna Yuriivna, senior laboratory technician of the department 050-316-10-91 E - mail : surgdep@onmedu.edu.ua Face-to-face consultations: from 2:00 p.m. to 5:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday Online consultations: from 2:00 p.m. to 5:00 p.m. every Thursday, from 9:00 a.m. to 2:00 p.m. every Saturday. The link to the online consultation is provided to each group during classes separately.

COMMUNICATION

Communication with applicants 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 Outlook e-mail correspondence.

ABSTRACT OF THE ACADEMIC DISCIPLINE

Subject study of the discipline - measures to organize the sanitary-epidemic regime in the surgical clinic; dressing material and methods of its application; bleeding and ways to stop it temporarily and permanently; transfusion of donor blood components, hemotransfusion

complications and their prevention; basics of anesthesiology and resuscitation; clinic, diagnostics, first aid, principles of treatment for traumatic injuries; general issues of surgical infection; clinic, diagnosis, treatment, prevention of certain types of surgical infection; basics of transplantology, basics of clinical oncology; methodology of examination of a surgical patient.

Prerequisites and post-requisites of the discipline (place of the discipline in the educational program):

Prerequisites: Ukrainian language (by professional direction), foreign language (by professional direction), Latin language and medical terminology, medical biology, medical and biological physics, biological and bioorganic chemistry, human anatomy, histology, cytology and embryology, physiology, microbiology, virology and immunology.

Post-requisites: surgery, traumatology and orthopedics, urology, neurosurgery, anesthesiology and intensive care, emergency and emergency medical care .

The goal of the discipline: mastery by the student of higher education of 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 levels in the conditions of future activity at the bases of medical preventive institutions.

Tasks of the discipline:

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

The practice process is aimed at forming elements of the following competencies according to the end-to-end work program.

Expected results:

As a result of studying the academic discipline, the applicant must:

Know:

- Basics of organizing surgical care for the population of Ukraine.
- Basic functional duties of medical workers of all levels.
- The structure and functions of a surgical hospital.
- 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 units of medical institutions.
- Principles of diagnosis, treatment, rehabilitation and prevention of diseases in the field of surgery.
- 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.

DESCRIPTION OF THE ACADEMIC DISCIPLINE

Forms and methods of training:

Practice will be taught in the form of practical classes (30 classroom hours) and the organization of the applicant's independent work (30 hours).

Teaching methods: conversation, solving clinical situational problems, demonstration and practice of manipulation skills according to list 5, instruction and practice of skills on simulation dummies.

Contents of practice:

Topic 1. Sanitary and hygienic regime in the surgical department. The concept of asepsis and antiseptics. Prevention of the spread of infection in a surgical hospital. Cleaning and disinfection of medical premises and devices. Pre-sterilization treatment and sterilization of surgical instruments, underwear, suture material. Methods of processing the hands of medical personnel.

Topic 2. Surgical operation. Concept of surgical operation. Structure of the operating unit. Preoperative period: purpose, tasks, stages. Peculiarities of carrying out special and direct preparation of the patient for surgery.

Topic 3. Main types of analgesia in surgical patients. Types of anesthesia, familiarization with the technique and technique of performing infiltration and conduction anesthesia. Epidural anesthesia: familiarization with the technique and sequence of execution. Methods of prevention and treatment during various methods of local anesthesia. Acquaintance with technical means for inhalation anesthesia. Methodology of endotracheal anesthesia. Analgesia in the postoperative period. Use of narcotic and non-narcotic analgesics. Concept of multimodal analgesia. Actions of a nurse to ensure the performance of various types of anesthesia and narcosis.

Topic 4. Resuscitation measures for surgical patients. Shock, collapse, fainting - first medical aid. Terminal states: pre-agony, agony, clinical death. Signs of biological death. Basic resuscitation measures. The CAB algorithm.

Topic 5. Bleeding and blood loss. Bleeding: definition, types of bleeding according to examination data. Methods of determining blood loss. Methods of temporary stopping of bleeding: finger pressure; technique and technique of applying a pressure bandage, twist, harness. Methods of definitive stopping of bleeding: mechanical, physical, biological. Features of the application of various methods of stopping bleeding.

Topic 6. Transfusion of blood and blood substitutes. The concept of blood groups and Rhesus. Methods of blood group and Rh factor determination. General rules of blood transfusion. A list of tests is necessary, which should be carried out before blood transfusion. The method of determining group, individual and biological compatibility of donor and recipient blood. Determination of macroscopic qualities of donor blood. Methodology of hemotransfusion, monitoring of the patient during hemotransfusion. Prevention of complications during hemotransfusion.

Topic 7. Clean and purulent wounds. Types of wounds. Providing first aid to victims with cut and bruised wounds. Primary surgical treatment of the wound. Types of primary suture depending on the type and location of the wound. Secondary surgical treatment of the wound. Types of secondary seams. Bandaging techniques for a patient with clean (operating room) and infected wounds.

Topic 8. Close damage to soft tissues, skull, chest. The concept of damage to soft tissues, skull, chest. First aid measures for victims with closed injuries. Rules for transporting victims with soft tissue, skull, and chest injuries. Preventive measures to prevent the development of traumatic shock, pneumothorax, and internal bleeding.

Topic 9. Fractures and dislocations. Signs of bone fractures and first aid for fractures. Use of means of vehicle immobilization. Signs of dislocations, first aid for patients with various dislocations. Applying bandages on the head, trunk, limbs.

Topic 10. Burns and frostbite. Methods of determining the area of damage and the severity of the condition of a patient with burns. Organization of measures to provide first aid to a burn victim. Responsibilities of a nurse regarding the provision of infusion therapy for a patient in a state of burn shock. First aid to a victim with frostbite. Responsibilities of a nurse regarding the provision of a treatment program for a victim with frostbite.

Topic 11. Acute purulent diseases of soft tissues and hands. Concept of acute purulent diseases of

soft tissues, their varieties and main clinical signs. Actions of a nurse in the conservative and operative treatment of abscesses, phlegmon, boils, carbuncles, hidradenitis, mastitis, dysentery, lymphadenitis, lymphangitis, paraproctitis. The main clinical manifestations of panaritium and phlegmon of the hand, duties of a nurse in the diagnosis and treatment of panaritium and phlegmon of the hand.

Topic 12. Acute specific surgical infection. Concept of acute specific infection. The role of the nurse in treatment programs for gas anaerobic gangrene, tetanus, diphtheria of the wound, anthrax. Methods of prevention of tetanus, diphtheria, anthrax, gas gangrene. Actions of a nurse during detoxification of a patient with an acute surgical infection.

List of recommended literature:

Main:

1. General Surgery. Textbook for students of higher medical educational establishments / [Lihonenko O.V., Chorna I.O., Zubaha A.B., Khimich S.D et all.]; Edited by Prof. S.D. Khimich, Prof. M.D. Zheliba Kyiv AUS Medicine Publishing, 2019.- 608 p.
2. General Surgery. Textbook for students of higher medical educational establishments / [Lihonenko O.V., Chorna I.O. Khimich S.D et all.]; Edited by Prof. Ja.S.Bereznickij, M.P.Zacharash, M.P.Mishalov,. Vinnica: New book, 2019- 344 p.
3. Short practice of surgery. 24th edition. Vol.1. Edited by R.C.G.Russell, Norman S. Williams, Christopher J.K.Bulstrode. A member of the Hodder Headline Group. - London, 2018. – 738 p.

Auxiliary:

1. Загальна хірургія: підручник для студентів вищих навчальних закладів / [Лігоненко О.В., Чорна І.О., Хіміч С.Д. та ін.]; за ред. Я.С.Березницького, М.П.Захараша, В.Г.Мішалова, В.О.Шидловського. — Вінниця: Нова книга, 2018.- 344 с.
2. Загальна хірургія: підручник / [Лігоненко О.В., Зубаха А.Б., Хіміч С.Д. та ін.]; за ред. С.Д. Хіміча, М.Д.Желіби. – 3-є вид., переробл. і допов.- Київ: ВСВ «Медицина», 2018.- 608 с.
3. Касевич Н.М. Загальний догляд за хворими і медична маніпуляційна техніка: підруч. для студ. вищ. мед. навч. закл. I-III рівнів акредитації / за ред. В.І. Литвиненка. - 7-ме вид., випр. - К. : Медицина, 2017. - 424 с.
4. Догляд за хворими і медична маніпуляційна техніка: навч. посібник /Л.С. Савка, Л.І. Разінкова, О.І. Коцар; за ред. Л.М. Ковальчука, О.В. Кононова. – 3-є вид., переробл. і допов. — К.: ВСВ “Медицина”, 2017. – 600 с.
5. Общая хирургия: учебник / Н. Д. Желиба, С. Д. Химич, И. Г. Герич и др.: под ред. профессоров Н. Д. Желибы, С. Д. Химича. – К.: ВСИ «Медицина», 2011, 2016. – 488 с. 22
6. Нетяженко В.З., Шуліпенко І.М., Дідківська Л.А. Догляд за хворими (загальний і спеціальний з основами медсестринської техніки): підруч. для студ. вищ. мед. навч. закл. IV рівня акредитації. – К.: Здоров'я, 2018. - 591 с.
7. Гнійні захворювання кисті // Лігоненко О.В., Зубаха А.Б., Чорна І.О., Шумейко І.А., Стороженко О.В., Дігтяр І.І./ Полтава 2018 -126 с
8. Об'єктивний структурований клінічний іспит (ОСКІ-1). Практикум. За редакцією Скрипника І.М. / Гопко О.Ф., Петров Є.Є., Чорна І.О., Цвіренко С.М., Ярошенко Р.А. - Полтава 2019.
9. Основи догляду за хірургічними хворими: навчально-методичний посібник для студентів ВМНЗ IV рівня акредитації / Шумейко І.А., Лігоненко О.В., Чорна І.О., Зубаха А.Б., Дігтяр І.І., Стороженко О.В. - Полтава, 2016. - 160 с. 15.
10. Амбулаторні хірургічні маніпуляції / за ред. Проф. Польового В.П., Шкваровського І.В., Желіби М.Д. – Чернівці: Медуніверситет, 2018. – 252 с.

11. Десмургія : навчальний посібник / О. О. Виноградов, М. О. Ропасва, О. І. Гужва, А. В. Радченко ; Держ. закл. «Луган. нац. ун-т імені Тараса Шевченка». – Старобільськ : Вид-во ДЗ «ЛНУ імені Тараса Шевченка», 2015. – 80 с.
12. Шаповал С.Д. Гнійно-септична хірургія./Навчальний посібник. – Київ ВСВ «Медицина» - 2019 – 192 с.
13. Невідкладні стани в хірургії. /Навчальний посібник для медичних ВНЗ I—III рівнів акредитації МОЗ України/ К. Бобак, А. Бобак, В. Киретов - Київ ВСВ «Медицина» - 2017 – 560с.

ELECTRONIC INFORMATION RESOURCES

1. <https://moz.gov.ua/> – Міністерство охорони здоров'я України
2. www.ama-assn.org – Американська медична асоціація / American Medical Association
3. www.who.int – Всесвітня організація охорони здоров'я
4. www.dec.gov.ua/mtd/home/ - Державний експертний центр МОЗ України
5. <http://bma.org.uk> – Британська медична асоціація
6. <http://iss-sic.com/> - Міжнародна спільнота хірургів

ASSESSMENT

Current control: survey, testing, evaluation of performance of practical skills, evaluation of communication skills during role play, solution of situational clinical tasks, evaluation of activity in class.

Final control: IPE.

Assessment of current activity in a practical lesson :

- 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.
Fine "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 IPE 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 - Integrated practical exam (IPE).

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

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

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:

No	Evaluation criterion	Mark
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 IPE is considered completed if the applicant has scored at least 60% of the maximum number of points at each station.

The overall IPE score is calculated as the arithmetic mean of all received scores for all IPE profiles and is conducted in the Educational and Production Complex of Innovative Learning

Technologies, Informatization and Internal Monitoring of Education Quality of the University during the examination sessions at the end of the semester (autumn and spring) according to the schedule.

Possibility and conditions of obtaining additional (bonus) points: not provided.

INDEPENDENT WORK OF STUDENTS OF HIGHER EDUCATION

Independent work involves preparation for each practical session.

POLICY OF EDUCATIONAL DISCIPLINE

Deadlines and Rescheduling Policy :

- Absences of classes for non-respectable reasons will be worked out according to the schedule of the teacher on duty.
- Absences for 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 may be held to the following academic responsibility:

- a decrease in the results of assessment of the control work, assessment in class, credit, etc.;
- retaking the assessment (test, credit, etc.);
- assignment of additional control measures (additional individual tasks, control works, tests, etc.);
- conducting an additional inspection of other works authored by the violator.

Attendance and Tardiness Policy:

Uniform: medical gown, surgical suit, cap, mask, change of footwear.

Equipment: notebook, pen, phonendoscope.

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

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 :

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 should be working and calm,

strictly responsible rules, installed Regulations on academic integrity and ethics of academic relations at Odessa National Medical University , in accordance with the Code of Academic Ethics and University Community Relations of Odessa National Medical University , Regulations on prevention and detection of academic plagiarism in research and educational work of higher education applicants, scientists and teachers Odessa National Medical University .