

**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 the academic discipline  
" General surgery "**

<b>Scope of the academic discipline</b>	Total number of hours per discipline: 150 hours, 5 credits. Semesters: V-VI. 3 years of study.
<b>Days, time, place of educational discipline</b>	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
<b>Teacher(s)</b>	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.
<b>Contact Information</b>	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:* acquisition by the student of higher education of knowledge and formation of elements of professional competences in the field of surgery and improvement of skills and competences acquired during the study of previous disciplines.

*Tasks of the discipline:*

1. Formation of skills and abilities: from the main activities necessary for the organization of work in the surgical department; ensuring the prevention of the occurrence and spread of intra-hospital infection; learning the basics of local and general anesthesia; on the diagnosis of conditions and diseases requiring surgical treatment; formation of moral, ethical and deontological qualities during professional communication with the patient.

2. Mastering skills: applying bandages using various dressing materials, providing first aid for conditions such as bleeding, closed soft tissue injury, bone fracture, dislocation, prolonged compression syndrome, wound, burn, frostbite; for the preparation and transfusion of donor blood components; for diagnosis and differential diagnosis in various surgical infectious processes; from collecting complaints, anamnesis, objective examination of a surgical patient.

3. Mastering the skills: to determine the tactics of emergency care, in conditions and diseases caused by surgical pathology; the ability to choose a method of analgesia depending on the condition of the patient and the existing surgical pathology; acquiring skills in choosing a treatment program and means of prevention in case of surgical infection; examination of a surgical patient and registration of the results in the relevant medical documentation.

*Expected results:*

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

*Know:*

- modern concepts of domestic and foreign theoretical and practical surgery;
- basic principles of organizing surgical care for the population of Ukraine;
- the basics of organizing a rational regimen and treatment of a surgical patient;
- general elements of care for surgical patients;
- theoretical aspects of dressing material and methods of its application;
- theoretical foundations of modern antiseptics;
- theoretical aspects of preventing the occurrence and spread of intra-hospital infection;
- classification, clinical manifestations, consequences of bleeding, methods of temporary and final stopping of bleeding;
- theoretical and practical aspects of transfusion of donor blood preparations and blood substitutes;
- complications during hemotransfusion, measures for their prevention and treatment;
- basics of anesthesiology;
- the basics of resuscitation, clinical manifestations of terminal conditions, their diagnosis, stages and measures during cardiopulmonary resuscitation;
- general issues of traumatology, oncology and transplantology;
- means and methods of transport immobilization;
- theoretical aspects of wounds and the wound process, wound treatment;

- general issues of surgery and HIV infection;
- clinic, diagnosis and treatment of certain purulent-inflammatory diseases of soft tissues, tendons, bones and joints;
- the method of examining a patient, features of examining a patient with surgical pathology;
- the structure of the medical card of an inpatient.

*Be able:*

- apply a bandage on different parts of the body;
- apply a plaster cast;
- choose means for transport immobilization, apply a Kramer, Dieterix splint;
- carry out disinfection of various tools and items for patient care;
- organize appropriate sanitary and epidemic conditions for various premises of the surgical department;
- perform subcutaneous and intramuscular injections, perform venipuncture, make an intravenous catheter, set up a system for transfusion of blood substitutes and components of donor blood;
- perform catheterization of the urinary bladder with a soft catheter, put a cleansing and siphon enema, wash the stomach with a probe;
- prepare the operating field;
- apply measures to prevent the occurrence of bedsores;
- carry out differential diagnosis in case of bleeding, detect signs of the development of hemorrhagic shock;
- apply methods of temporary stopping of bleeding, choose a method for final stopping of bleeding;
- determine the blood group according to the ABO and Rh system, conduct tests for the individual compatibility of the blood of the recipient and the donor, select compatibility tests for the transfusion of donor blood components, organize and conduct the transfusion of erythrocyte mass, fresh frozen plasma;
- choose an adequate method of anesthesia for carrying out this or that intervention;
- diagnose terminal conditions, perform basic life support measures;
- diagnose various traumatic injuries;
- provide first aid for various traumatic injuries;
- choose surgical tactics in the treatment of various stages of the wound process;
- choose means for local use in the treatment of wounds depending on the stage of the wound process;
- diagnose various infectious surgical processes, carry out differential diagnosis between them;
- to diagnose the purulent-necrotic stage of the development of an infectious surgical disease;
- choose the appropriate surgical tactics for different stages of the development of a surgical infection;
- draw up a treatment program for various infectious surgical diseases;
- conduct anamnesis collection and objective examination of a surgical patient;
- draw up an inpatient card for a patient with surgical pathology.

## **DESCRIPTION OF THE ACADEMIC DISCIPLINE**

*Forms and methods of education*

The discipline will be taught in the form of lectures (20 classroom hours); practical classes (80 classroom hours) organization of the applicant's independent work (50 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.

*Content of the academic discipline*

**INTRODUCTION TO SURGERY. DESMURGIA. FUNDAMENTALS OF SANITARY AND EPIDEMICAL REGIME IN THE SURGICAL CLINIC. EMERGENCY SURGICAL CONDITIONS. FUNDAMENTALS OF TRANSFUSIOLOGY, ANESTHESIOLOGY AND REANIMATOLOGY (CONTAINS 8 CONTENT MODULES)**

*Content module 1. Desmurgia. Antisepsis. Asepsis. Operation.*

**Topic 1. Introduction to surgery. Hygiene in a surgical hospital. The work of middle staff in the conditions of the surgical department.**

Stages of development of surgery, domestic surgical schools; organization of surgical care in Ukraine. Rules of conduct in a surgical clinic. Issues of surgical deontology. The structure of the surgical clinic. The concept of hygiene in a surgical hospital with the aim of preventing the spread of hospital infection. Hygiene of the body, clothes of medical personnel, hygiene of underwear and clothes of patients. Responsibilities of duty and senior nurse. The post of a nurse. Medical documentation. Medical manipulations: thermometry, injections (technique of conducting).

**Topic 2. Desmurgia. Concept, definition.**

Dressing material. Overlay rules. Typical bandages. Bandages on the head, neck, chest. Care of patients operated on the head, neck, chest.

**Topic 3. Desmurgia. Care of patients operated on organs of the abdominal cavity, perineum, limbs.**

Bandages for the abdomen, crotch, limbs. Care of patients with fractures. Gypsum technique. Gypsum powder quality tests. Rules of plaster technique.

**Topic 4. Asepsis.**

Sterilization of dressing material and surgical linen. Organization of work in the operating room. Surgical treatment of the surgeon's hands and the operating field. Familiarization with the method of manufacturing napkins, tampons, balls. Preparation of surgical linen and dressing material for sterilization, methods of laying in Schimmelbush box. Construction and operation of an autoclave, safety equipment. Methods of preparing the surgeon's hands for surgery. Care of the surgeon's hands outside the clinic. Treatment of the operating field. Structure of the operating unit. Types of cleaning. Methods of transporting patients to the operating room. Rules for wearing surgical underwear. Preparation of instruments for sterilization. Preparation of cleaning and disinfecting solutions. Tests on the quality of pre-sterilization treatment of tools. Methods of sterilization of cutting, optical, general surgical instruments. Types of suture material. Methods of sterilization of suture material.

**Topic 5. Antiseptic.**

Care of patients with purulent pathology. Peculiarities of care for patients with purulent pathology. Organization of purulent dressing. Features of dressings and care for patients with anaerobic infection. Methods of modern antiseptics, their characteristics. Disposal of dressing material contaminated with purulent secretions.

**Topic 6. Surgical operation.**

Preparation of patients for operations. Care of patients in the postoperative period. Concept of surgical operation. Classification of operative interventions, stages of implementation. Preoperative period, its tasks. Peculiarities of preparing patients for planned and emergency operations. Preoperative period: care of the patient's skin, sanitation of the oral cavity, hair shaving, bowel cleansing with enemas, hygiene of patients' underwear and clothing. Basic principles of patient care in the postoperative period. Prevention of possible complications. Nutrition of patients. Dynamic laparoscopy for abdominal injuries, its role in diagnosis and management of the postoperative period. Peculiarities of prevention of non-infectious postoperative complications

during operations on abdominal organs.

***Content module 2. Bleeding, blood loss. Foundations hemotransfusiology.***

**Topic 7. Bleeding.**

Definition and types of bleeding. The mechanism of self-stopping of bleeding. Methods of temporarily stopping bleeding (finger pressure, pressure bandage, twist, tourniquet).

**Topic 8. Methods of temporary stopping of bleeding.**

Carrying out a temporary stoppage of bleeding in case of arterial or venous bleeding on the limbs. Finger pressing. Maximum flexion of the limb. Elevated limb position. Direct pressure on the wound. Compression bandage. Applying the Esmarch tourniquet. Overlaying the turnstile of the CAT. Use of improvised materials.

**Topic 9. Methods of definitive stopping of bleeding.**

Methods of definitive stopping of bleeding: mechanical, physical, biological. Vascular suture. Transplantation, alloplasty.

**Topic 10. The doctrine of blood. Drugs and blood components. Modern blood substitutes.**

The history of the development of blood transfusion. Methods of determining blood group and Rhesus blood type. Mechanism of action of transfused blood and its components. Drugs and blood components. Blood substitutes, classification, indications for use.

**Topic 11. Transfusion of blood and blood products.**

Indications and contraindications for blood transfusion. Macroscopic determination of blood quality. Determination of group, individual and biological compatibility of donor and recipient blood. Ways and methods of transfusion. Observation of the patient during transfusion, documentation.

**Topic 12. Possible errors and complications during blood transfusion. Modern blood substitutes.**

Errors and complications in blood transfusion are possible. Prevention and first aid for hemotransfusion complications .

**Topic 13. Hemorrhagic shock.**

Local and systemic bleeding symptoms. Determination of blood loss. Pathophysiological mechanisms of blood loss compensation. Classification of bleeding by volume. Hemorrhagic shock. Clinical picture of hemorrhagic shock. Determination of severity and stage of hemorrhagic shock. Transfusion-intensive therapy of hemorrhagic shock.

***Content module 3. General anesthesiology and resuscitation.***

**Topic 14. Local anesthesia.**

Types of local anesthesia (layer infiltration, regional, spinal, intraosseous ). Preparations for local anesthesia. Indications, contraindications. Possible complications.

**Topic 15. Inhalation anesthesia. Non-inhalation anesthesia.**

Indications, contraindications. Possible complications. Concept of premedication . Preparations for inhalation, endotracheal anesthesia. Stages of ether narcosis. Mask anesthesia, technique. The structure of the device for inhalation anesthesia. Types of respiratory circuits. Methodology of endotracheal anesthesia. Types of non-inhalation anesthesia. Drugs. Methods of application. Complications of anesthesia by stages and levels.

**Topic 16. Resuscitation measures for surgical patients.**

Urgent conditions. Intensive therapy and cardiopulmonary resuscitation. Indications and technique of artificial lung ventilation and indirect heart massage. Practicing the technique of cardiopulmonary resuscitation on a phantom.

***Content module 4. Trauma and damage.***

**Topic 17. Wounds and the wound process.**

Prevention of infection in the wound. Treatment of clean wounds. Wounds, definition, classification. The structure of the wound and the course of the wound process in a clean wound. Characteristics of certain types of wounds and first aid for them. Conditions under which infection occurs in the wound and their elimination. The structure of a clean wound. Primary surgical

treatment of the wound. Types of primary seams. Treatment of a clean wound in the postoperative period. Features of gunshot wounds.

**Topic 18. Infected wounds.**

The course of the wound process in a purulent wound. Surgical treatment of a purulent wound, types of secondary sutures. Treatment of a purulent wound depending on the phase of the wound process. Types of purulent wound drainage.

**Topic 19. Closed injuries of soft tissues, skull.**

The concept of traumatism. Traumatic shock. Clinical manifestations of closed injury of soft tissues, skull. Prevention of the development of traumatic shock.

**Topic 20. Closed chest injuries.**

Chest injuries. Clinical manifestations of closed chest injury. Pleural puncture. Pneumothorax, clinical picture, diagnosis, treatment. First aid for tension pneumothorax. Hemothorax, clinical picture, diagnosis, treatment.

**Topic 21. Closed damage to the organs of the abdominal cavity.**

Injuries of abdominal organs. Intraperitoneal bleeding. Damage to hollow organs. Clinical manifestations. Diagnostic methods. First aid. Methods of treatment. Assessment of the severity of the condition, the prognosis of lethality and the choice of surgical tactics for combat injuries.

**Topic 22. Fractures.**

Mechanism of occurrence. The formation of a bone callus. First aid for fractures. Definition of a fracture. Classification. Mechanism of fracture. Types of displacement of bone fragments. The formation of a bone callus. Clinical picture. Diagnostic methods. Providing first aid for fractures, its tasks. Means of transport immobilization. The structure of tires of Dieterichs and Kramer. Providing first aid to a patient with a fracture. Placing tires from improvised materials, Kramer and Dieterichs . The use of anti-shock splints for fractures of the pelvic bones.

**Topic 23. Treatment of fractures in a hospital. Dislocations**

The main tasks of treatment of fractures in a hospital. The main types of closed and open treatment. Analgesia Fixation and extension methods of treatment. Indications for surgical intervention. Methods of operative interventions for fractures. Consequences of fracture treatment. Dislocations, concepts. Classification. Mechanism of occurrence. Clinical manifestations. Differential diagnosis between fracture and dislocation. Treatment of sprains.

**Topic 24. Burn disease. Freezing. Electric injury.**

Classification of burns by depth, area, severity. Clinical manifestations of thermal burns. Symptoms of chemical burns. Bow burns. Periods of the burn disease. First aid for different types of burns. Treatment of burns in the hospital. Treatment of burn disease according to the course. Types of surgical interventions for burns. Frostbite. Definition. Steps. Clinical manifestations. Features of first aid to a patient with frostbite in the reactive period. Frostbite treatment in hospital. Electrical injury, features of the flow. First aid for electrical injury.

**Topic 25. Combat surgical trauma ( pre-hospital care).**

Peculiarities of providing medical aid during hostilities and emergencies. Organization and content of medical care for the wounded and injured in the conditions of hostilities. The concept of levels of medical care. Tactical protocol Combat Casualty Care Guidelines. Use of MARCH, PAWS algorithms. The concept of medical triage at the stages of medical evacuation.

***Content module 5. Surgical infection.***

**Topic 26. Surgical infection.**

Surgical infection. Classification. Etiology. Pathogenesis. Methods of general and local treatment. Surgical aspects of the HIV problem.

**Topic 27. Acute purulent diseases of soft tissues.**

Acute purulent diseases of soft tissues: abscess, phlegmon, furuncle, carbuncle. Clinical picture. Methods of diagnosis and differential diagnosis. Operative interventions for these diseases.

**Topic 28. Acute purulent diseases of glandular organs.**

Acute purulent diseases of glandular organs, soft tissues: hidradenitis, mastitis, dysentery,

lymphadenitis, lymphangitis, paraproctitis. Clinical picture. Diagnostics. Treatment.

**Topic 29. Purulent diseases of the hand.**

Panaritius, phlegmon of the hand. Definition, classification. Clinical picture. Diagnosis, Treatment.

**Topic 30. Purulent bone diseases.**

Acute hematogenous osteomyelitis. Pathogenesis, sequestral capsule formation. Diagnostics, treatment tactics. Types of operative treatment. Chronic forms of osteomyelitis, their treatment.

**Topic 31. Acute specific surgical infection.**

Tetanus Diphtheria of wounds. Anthrax. Etiology, pathogenesis. Clinic. Diagnostic methods. Treatment.

**Topic 32. Acute non-specific surgical infection.**

Gas gangrene. Putrid infection. Etiology, pathogenesis, clinical picture, diagnosis, treatment.

**Topic 33. General purulent infection (sepsis).**

Endogenous intoxication during acute surgical infection. Modern provisions of the concept of sepsis. Classification. Pathogenetic features of the course. Modern diagnostic methods. Principles of treatment. Endogenous intoxication during surgical infection. Methods of detoxification and immunocorrection . Surgical aspects of AIDS and drug addiction.

**Topic 34. Pleurisy. Peritonitis.**

Pleurisy. Classification. Etiology. Clinic. Diagnostics. Principles of treatment. Peritonitis. Classification. Etiology. Clinic. Diagnostics. Principles of treatment.

**Content module 6. Basics of clinical oncology.**

**Topic 35. Tumors. Classification, clinical groups.**

International classification. Differential diagnosis of malignant and benign growth. Clinical picture. Modern methods of diagnosis and treatment. Peculiarities of surgical intervention in the context of an incurable disease, indications. Concept of palliative surgery.

**Content module 7. Death.**

**Topic 36. Acute and chronic disorders of arterial, venous blood circulation and lymph circulation.**

Necrosis. Gangrene. Ulcers. Fistula. Foreign objects. Acute and chronic disorders of arterial, venous blood circulation and lymph circulation. Death, gangrene, fistula, ulcer. Types, etiology, clinic, differential diagnosis, principles of treatment. Clinic of foreign bodies of various localization, first aid.

**Content module 8. Curation of surgical patients**

**Topic 37. Methods of examination and curation of surgical patients.**

Structure of medical history. Methodology of examination of patients. Modern laboratory, instrumental and hardware research methods. Complete examination of the patient. Formulation of the diagnosis. Purpose of treatment.

**Topic 38. Curation of surgical patients.**

Clinical examination of the patient. Collection of complaints, medical history, life history. Conducting an objective examination of the patient: examination, palpation, percussion, auscultation. Justification of the previous diagnosis. Appointment of laboratory, instrumental and hardware research methods, their analysis. Justification of the method of treatment. Observation of the patient. Completion of educational medical history.

**Topic 39. Curation of surgical patients.**

Defense of educational medical history.

**Topic 40. Differentiated credit.**

*List of recommended literature:*

**Main:**

1. General Surgery. Textbook for students of higher medical edukational establishments / [ Lihonenko O.V., Zubaha A.B., Khimich S.D et all.]; Edited by Prof. S.D. Khimich, Prof. M.D. Zheliba / Kyiv AUS Medicine Publiching, 2019.- 608 p.
2. General Surgery. Textbook for students of higher medical educational establishments / [ Lihonenko O.V., Chorna I.O. et all.]; Edited by Prof. Ja.S.Bereznickij, M.P.Zacharash, M.P.Mishalov,/ - Vinnica: New book- 2019. -344c
3. R.Kushnir. Lecture of General surgery for foreign students of II and III years of medical faculty. –Ternopil “Ukrmedkniga”,2018 – 318 p
4. Lyapis M. A. Methods of examination of a surgical patient / M. A. Lyapis. – Ternopil: Ukrmedbook, 2004. – 156 p.

1. Загальна хірургія: підручник / С. Д. Хіміч, М. Д. Желіба, , І. Г. Герич та ін.: за ред. професорів С. Д. Хіміча, М.Д. Желіби,. – К.: ВСВ «Медицина», 2018. – 608 с.
2. Загальна хірургія : [підручник для студентів вищих навч. закладів МОЗ України] / за ред.: Я. С. Березницького, М. П. Захараша, В. Г. Мішалова, В. О. Шідловського ; В. П. Андрющенко, Я. С. Березницький, А. В. Верба та ін. - Вінниця : Нова Книга, 2018. - 342 с.
3. Хірургія. (Підручник з загальної хірургії) /за ред..проф.Я.С.Березницького. – Дніпропетровськ, РВА „Дніпро VAL”, Т.1. – 2018. – 443с.

#### **Additional:**

1. Butyrsky A. General surgery. – Simferopol. 2014.- 478p
  2. General surgery. Selected lectures Edited by prof. V. V. Mishchenko // V. Ye. Vansovych, N. D. Voloshenkova, D. M. Davydov, et other// Odessa 2019. 338p
  3. Gostishcev V.K. General surgery/ The manual. –M.:Geotar-med, 2018. 220p
  4. Schevchenko S. I. Surgery / S. I. Schevchenko and others. – Kharcov, 2004.
  5. Kushnir R. Lectures of General surgery. – 2015.
  - 6.Methodological recommendations on surgical patients care. – Vinnitsa medical national university, 2016.
  7. 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. – 738p.1.
- Butyrsky A. General surgery . – Simferopol . 2014. - 478 p

1. Амбулаторні хірургічні маніпуляції / за ред. Проф.. Польового В .П., Шкваровського І. В., Желіби М .Д. – Чернівці: Медуніверситет, 2018. – 252 с.
2. Десмургія : навчальний посібник / О. О. Виноградов, М. О. Ропасєва, 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.
3. Шаповал С.Д. Гнійно-септична хірургія./Навчальний посібник. – Київ ВСВ «Медицина» - 2019 – 192 с.
4. 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/> – Ministry of Health of Ukraine
2. [www.ama-assn.org](http://www.ama-assn.org) - American Medical Association / American Medical Association
3. [www.who.int](http://www.who.int) - World Health Organization
4. [www.dec.gov.ua/mtd/home/](http://www.dec.gov.ua/mtd/home/) - State Expert Center of the Ministry of Health of Ukraine
5. <http://bma.org.uk> - British Medical Association
6. <http://iss-sic.com/> - International Society of Surgeons

## ASSESSMENT

**Current control:** oral survey, testing, assessment of performance of practical skills, solution of situational clinical tasks, assessment of activity in class.

**Final control:** differentiated credit.

**The structure of the current evaluation in the practical lesson :**

1. Evaluation of theoretical knowledge on the subject of the lesson:
  - methods: survey, solving a situational clinical problem;
  - the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2 .
2. Evaluation of practical skills and manipulations on the subject of the lesson:
  - methods: assessment of the correctness of the performance of practical skills
  - the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2 .

### Current evaluation criteria in practical training

Rating	Evaluation criteria
"5"	The applicant is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills and interpretations of clinical, laboratory and instrumental research data, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
"4"	The applicant has a good command of the material, participates in the discussion and solution of a situational clinical problem, demonstrates practical skills and interpretations of clinical, laboratory and instrumental research data with some errors, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
"3"	The applicant 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 and interpretations of clinical, laboratory and instrumental research data with significant errors.
"2"	The applicant does not possess the material, does not participate in the discussion and solution of the situational clinical problem, does not demonstrate practical skills and interpretation of clinical, laboratory and instrumental research data.

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 differentiated credit.

### Evaluation of learning results during the final control-differentiated credit

The content of the evaluated activity	Scores
Answers to theoretical questions.	3
Demonstration of practical skills.	2

### Criteria for evaluating the results of education of students on differentiated credit

Rating	Evaluation criteria
Perfectly	The student answered the questions correctly, accurately and completely. G knows the content of theoretical issues thoroughly and comprehensively, is fluent in professional and scientific terminology. Thinks logically and constructs an answer, freely uses acquired theoretical knowledge when

	analyzing practical tasks. Correctly demonstrated the performance of practical skills, strictly followed the algorithm of their performance.
Fine	The student answers the questions correctly and sufficiently completely. He knows the content of theoretical issues deeply and comprehensively, and has professional and scientific terminology. Thinks logically and constructs an answer, illustrates acquired theoretical knowledge while analyzing practical tasks. But when teaching some questions, it lacks sufficient depth and argumentation, makes insignificant mistakes, which are eliminated by the applicant himself. Correctly demonstrated the performance of practical skills, made minor errors in the algorithm and skill performance technique.
Satisfactorily	The student of education gave incomplete answers, the additional and leading questions have a vague, vague character. 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 demonstrating a practical skill, significant errors were made in the algorithm and skill performance technique.
Unsatisfactorily	The student did not answer the main, additional and guiding questions. 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. Did not demonstrate or made gross errors and mistakes in the algorithm and technique of performing practical skills.

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

## **INDEPENDENT WORK OF STUDENTS OF HIGHER EDUCATION**

Independent work involves preparation for each practical lesson.

### **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.