

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

Faculty of medicine, international

Department of general, military and children's surgery with a course of urology

**Syllabus of the academic discipline
Surgical treatment of wounds**

Scope of the academic discipline	Total number of hours per discipline: 90 hours, 3 credits. Semesters: V-VI. 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 - in-depth study of wounds, clinical signs of wounds, the course of the wound process, prevention and treatment of wound complications, use of surgical instruments, use of suture material, execution of surgical knots and sutures; primary and secondary

surgical treatment of wounds, features of gunshot wound treatment: modern conservative methods of wound treatment.

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 acquirer of knowledge and the 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: on diagnosis and treatment of wounds, wound complications, including in cases of gunshot wounds.

2. Mastering skills in performing primary and secondary surgical treatment of wounds.

3. Mastering the ability to determine tactics wound treatment and prevention of wound complications.

Expected results:

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

Know:

- clinical signs of a wound, wound complications, features of surgical treatment.

Be able:

- Communicate with the patient, collect complaints, anamnesis of life and illness.
- 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.
- To organize the required level of individual safety (own and the persons he cares for) in case of typical dangerous situations in the individual field of activity.

DESCRIPTION OF THE ACADEMIC DISCIPLINE

Forms and methods of education

The discipline will be taught in the form of practical classes (30 classroom hours) and the organization of the applicant's independent work (60 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

SURGICAL TREATMENT OF WOUNDS

Content module 1. The concept of wounds.

Topic 1. Definition, signs of a wound. Classification of wounds. Phases of the wound process.

Definition of the wound. The main clinical signs of the wound. Components of the wound. Early process, its phases. Classification of wounds: by origin; according to the nature of the wounded object; according to the degree of infection. Types of healing and phases of the wound process. Features of a gunshot wound.

Topic 2. Early complications.

Wound complications: development of infection in the wound, bleeding from the wound, wound failure, hypertrophic scars and keloids. General principles of wound treatment and prevention of complications of the wound process.

Content module 2. Use of surgical equipment and skills in wound treatment.

Topic 3. Surgical instruments.

Classification of medical instruments: by scope of application; by frequency of use; according to the conditions of use; by appointment. General requirements for medical instruments. Cutting tools. Requirements for cutting tools. Modern tools for separating tissues. Clamping tools. Impression tools. Methods of sterilization.

Topic 4. Suture materials and surgical needles.

Basic terms and definitions. Classification of suture materials. Suture thread marking systems. Basic requirements for suture material. Surgical, atraumatic and ligature needles. Clips and staples for stitching. Suturing surgical devices. Sterilization of suture material.

Topic 5. Surgical knots and sutures.

Component parts of the node. Types of nodes. Knot tying technique. Apodactyl method. Types of surgical sutures. The technique of laying knotted and continuous seams. Skin suture removal technique.

Content module 3. Surgical wound treatment.

Topic 6. Means of asepsis during surgical treatment of a wound.

Aseptic conditions. Preparation and treatment of the operating field. Treatment of the surgeon's hands. Putting on sterile underwear and gloves.

Topic 7. Local anesthesia.

Definition. Modern drugs for local anesthesia. Indications and contraindications for local anesthesia. Types of local anesthesia. The technique of performing infiltration and infiltration case anesthesia according to O. V. Vishnevskiy. Complications of local anesthesia. Prevention and general principles of treatment of complications of local anesthesia.

Topic 8. Primary surgical treatment of a wound.

Definition. Indications and contraindications for primary surgical wound treatment. The main types of primary surgical wound treatment. Stages of primary surgical wound treatment. Primary and primary-delayed sutures.

Topic 9. Peculiarities of surgical treatment of a gunshot wound.

General principles of surgical treatment of a gunshot wound. Stages of primary surgical treatment of a gunshot wound. Methods of closing a gunshot wound.

Topic 10. Secondary surgical treatment of a wound.

Infected wounds. Local and general signs of the inflammatory process. Classification of wound infection. Tetanus Emergency prevention of tetanus. Clostridial and putrefactive wound infection, features of surgical treatment. Indications and contraindications for secondary surgical wound treatment. Wound drainage techniques.

Content module 4. Modern methods of wound treatment.

Topic 11. Antibiotic prophylaxis and antibiotic therapy in the treatment of wounds.

The concept of antibiotic prophylaxis and antibiotic therapy. Antibiotic resistance. Infection monitoring of wounds. Indications for antibiotic prophylaxis. Indications and contraindications for antibiotic therapy of wound infection. Rational use of antibacterial drugs.

Topic 12. Peculiarities of wound treatment in the postoperative period.

The postoperative period, its phases. Rational analgesia. The concept of dressing. Using the properties of the dressing material in the treatment of wounds.

Topic 13. Use of preparations for local treatment of wounds.

Peculiarities of local treatment of surgical and accidental wounds depending on the degree of infection and the phase of the wound process. Use of proteolytic enzymes, sorbents, hypertonic solutions, hyperosmolar ointments, special dressings. Stimulation of wound regeneration and repair.

Topic 14. Wound therapy with negative pressure. Ultrasonic wound debridement.

NPWT and VAC apparatus and equipment. Indications and contraindications for the use of negative pressure systems. Possible application modes. Ultrasonic wound debridement (UWD) indications and contraindications for use.

Topic 15. Control of learning practical skills.

List of recommended literature:

Main:

1. General Surgery. Textbook for students of higher medical educational 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 Publishing, 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. –М.: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 - American Medical Association / American Medical Association
3. www.who.int - World Health Organization
4. 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 : 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 acquirer does not have sufficient knowledge of the material, is unsure of participating in the discussion and solution of the 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.

Credit is given to the applicant who completed all tasks of the work program of the academic discipline, took an active part in practical classes, completed and defended an individual assignment and has an average current grade of at least 3.0 and has no academic debt.

Test is carried out: at the last lesson before the beginning of the examination session - at ribbon system teaching, on to the last occupation - with a cyclical system of education. The credit

score is the arithmetic mean of all components according to the traditional four-point scale and has a value that is rounded according to the statistics method with two decimal places after the decimal point.

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 .