

Odessa National Medical University
Department of Surgery № 3

Syllabus

**"Modern surgical methods of diagnosis and treatment
non-neoplastic and neoplastic skin diseases"**

Amount	4 credits / 120 hours
Semester, year of study	IV semester, 2 year of study
Days, time, place	According to the schedule in the auditorium of the Department of Surgery No. 3. St. Tenista, 8
Teacher(s)	Bondar Volodymyr Hryhorovych, doctor of medicine. N., Professor, Head of Department of Surgery № 3
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Workplace	Office of the head of the Department of Surgery №3. St. Tenista, 8
Consultations	Face-to-face consultations: Tuesday - from 14.00 to 16.00 Online consultations: Thursday - from 14:00 to 16:00; Microsoft Teams or via Telegram/Viber

COMMUNICATION

Communication with graduate students is carried out through face-to-face meetings. In case of transition to distance learning, communication with graduate students will be carried out using e-mail and programs: Microsoft Teams, Moodle, Telegram and Viber.

COURSE ABSTRACT

Subject of discipline study.

The subject of study of the selective educational discipline "Modern surgical methods of diagnosis and treatment of non-neoplastic and neoplastic skin diseases" is incidence, etiology, pathogenesis, pathomorphology, clinic, laboratory and instrumental methods of examination, surgical and auxiliary conservative treatment of neoplastic and non-neoplastic pathology of the outer skin.

Course prerequisites and post-requisites (The place of the discipline in the educational program). The study of the educational discipline "Modern surgical methods of diagnosis and treatment of non-neoplastic and neoplastic skin diseases" is based on the study of normal and pathological clinical anatomy, histology, cytology and embryology, general and clinical pathological physiology, microbiology, pharmacology, general pharmacy and clinical pharmacology, propaedeutics of internal diseases and therapy, family medicine, internal medicine, surgery, oncology, oncology, dermatology, which involves integration with these disciplines and forms the ability to apply knowledge in in the process of further education and professional activity.

The purpose of the course.

The purpose of the selective educational discipline "Modern surgical methods of diagnosis and treatment of non-neoplastic and neoplastic skin diseases" is to master a set of knowledge, skills, and rational and safe for human health, the use of medicinal products, which should reduce the frequency or prevent the occurrence of undesirable effects for planning and carrying out own research, for solving significant problems in the field of professional activity, science, performance of functional duties related to rational choice medicines.

Tasks of the discipline:

The main tasks of the optional educational discipline are:

- 1) imparting knowledge to those obtaining a doctor of philosophy degree about the types, mechanisms of development, causes and clinical manifestations of side effects;
- 2) providing PhD candidates with knowledge regarding signs of drug poisoning, mechanism of action, likely course and pathways; prevention and correction of side effects when prescribing medicines;
- 3) providing PhD candidates with knowledge on predicting the interaction between drugs, assessing the risk/benefit ratio when using drugs of different pharmacological groups.

Expected results.

According to the results of studying the discipline, graduate students should ***know:***

- Classification and clinical picture of non-neoplastic and neoplastic skin diseases; - Diagnostic methods and differential diagnosis of non-neoplastic and neoplastic skin diseases;

- Modern conservative and operative methods of treatment of non-neoplastic and neoplastic skin diseases;

be able:

- Carry out non-invasive diagnostics of tumor diseases of the skin;
- Carry out differential diagnosis of non-neoplastic and neoplastic skin diseases; - To perform various biopsy options for skin tumors, evaluate the results histological studies of biopsies;
- Prescribe drug therapy for non-neoplastic and neoplastic skin diseases.

COURSE DESCRIPTION.

Forms and methods of education.

Teaching the selective educational discipline "Modern surgical methods diagnosis and treatment of non-neoplastic and neoplastic skin diseases" on practical classes are provided by methodological developments for everyone practical classes, visual learning aids for each class (presentations, video lectures), information resource of the department, structured skill control algorithms. Independent work when studying selective educational discipline is provided by methodical developments from independent works, visual means of education (video lectures, presentations), informational resource of the department, topics of independent works, structured algorithms control skills. 50% of hours are allocated for classroom lessons; 50% of

hours are also allocated for independent work. There is no final control, study of the discipline ends with a credit at the last practical session

Content of the academic discipline

Topic 1. Dermatosurgery. The place of modern surgery in solving problematic issues of dermatology.

Topic 2. Skin as an organ. Anatomy, physiology, pathophysiology of the skin. Basics of skin histopathology. Terminology. Pathohistological technique. Immunohistochemical research methods. Histopathology of benign and malignant skin tumors.

Topic 3. Non-invasive diagnostic methods. Examination of patients. Dermatoscopy. Terminology, equipment, technique. Basic algorithms for evaluation of dermatoscopic images.

Topic 4. Dermatoscopic signs of benign and malignant skin tumors. Topic 5. Invasive methods of diagnosis of skin diseases. Punch, incisional and excisional biopsy.

Topic 6. Non-specific infectious diseases of the skin. Tactics of the surgeon.

Topic 7. Anaerobic non-clostridial infection. Vacuum therapy.

Topic 8. Autoimmune diseases with skin damage. Semiotics. Differential diagnosis. The place of the surgeon.

Topic 9. Classification of skin tumors. Etiology and epidemiology of skin cancer. Risk factors. Genetic and molecular basis of carcinogenesis. Benign tumors of the skin. Precancerous formations of the skin.

Topic 10 Non-melanoma skin tumors. Basal cell carcinoma, squamous cell skin cancer.

Topic 11. Melanoma.

Topic 12 Drug therapy of malignant neoplasms of the skin: topical 2 immunological modulators, chemotherapy, vaccines.

Topic 13. Fundamentals of dermatosurgery. Local anesthesia. Surgical instruments. Skin biopsy technique. Cut lines of the skin. Stitching. Micrographic surgery.

Topic 14. Physical methods: curettage and electrocoagulation, cryotherapy.

Topic 15. Radiation therapy of skin tumors.

Topic 16 Phototherapeutic methods: lasers and photodynamic therapy.

Topic 17. ICG technology. Sentinel lymph node biopsy.

Topic 18 Methods of plastic surgery of skin defects.

Topic 19. Local and regional therapy of widespread malignant skin tumors. ILP.

Topic 20. Credit lesson.

List of recommended literature:

a) main:

1) Півторак В. І., Кобзар О.Б. та ін. Клінічна анатомія та оперативна хірургія.

Том 1 Підручник для ВМНЗ III—IV р.а.: : 2021/ с./ мм /

2) Березницький Я. С. (за ред.) Хірургія. Підручник для ВМНЗ IV р.а.:

Рекомендовано вч. радою ДЗ “Дніпропетровська медична академія МОЗ України: 2020/ 528 с.

3) «Хірургія» (навч. посіб.), Грубник В.В., Ковальчук Л.Я., 544 ст. 2020

b) additional:

1. Gozie Offiah, Arnold Hill//RCSI Handbook of Clinical Surgery for Finals. 4thed. 2020
2. Christian de Virgilio, Areg Grigorian//Surgery: A Case Based Clinical Review. 2nd Ed. 2020
3. The Bethesda handbook of clinical oncology / editors, Jame Abraham, James L. Gully. Fifth Edition. Copyright © 2019 Wolters Kluwer
4. SEIDEL'S GUIDE TO PHYSICAL EXAMINATION: AN INTERPROFESSIONAL APPROACH. Copyright © 2019 by Elsevier, Inc.

EVALUATION.

Current control is carried out in seminar classes in accordance with formulated tasks on each topic. When evaluating educational activities, preference is given to standardized control methods: oral survey, structured written works, discussions, role-playing games, reports. When mastering each topic for the current educational activity, the student is given grades on a 4-point traditional scale. The current academic performance is calculated as the average current score, i.e. the arithmetic average of all grades received by the graduate student (student) on a traditional scale, rounded to 2 (two) decimal places, for example 4.75. Evaluation of the current control of the discipline: The value of the evaluation is "excellent": the graduate student shows special creative abilities, knows how to acquire knowledge independently, finds and processes the necessary information without the help of a teacher, knows how to use the acquired knowledge and skills to solve problems, is able to produce innovative ways of solving problems, convincingly argues the answers, independently reveals his own gifts and inclinations. The meaning of the grade "good": the graduate student has a good command of the studied material, applies it in practice, solves exercises and problems in standard situations, independently corrects the mistakes made, the number of which is insignificant. The value of the rating is "satisfactory": the graduate student is able to master a significant part of the theoretical material, but mainly in a reproductive form, demonstrates knowledge and understanding of the main provisions, can analyze the educational material with the help of the teacher, correct errors, among which there are a significant number of essential ones. The value of the assessment is "unsatisfactory": the graduate student has mastered the material at the level of individual fragments, which constitute an insignificant part of the educational material. Only those graduate students who have no academic debt and have an average score for the current educational activity of at least 3.00 are admitted to the final certification. Forms and methods of final control The final control in the discipline "Philosophy and methodology of scientific and medical knowledge" is an exam. The grade for the discipline is the arithmetic average of two components:

- 1) Average current score as the arithmetic average of all current grades; The obtained average score for the discipline by multiplying it by 40 (the obtained grade is rounded to whole numbers) is converted into a grade on a 200-point scale, which, in turn, is converted into a traditional grade on a discipline on a 4-point scale.

GPA for discipline	Discipline assessment on a 200-point scale	Discipline assessment on a 4-point scale
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		(traditional assessment)
4.62–5.0	185–200	5
3.77–4.61	151–184	4
3.0–3.76	120–150	3

Independent work.

Assessment of the independent work of graduate students and applicants, which is provided for in the topic along with classroom work, is carried out during the current control of the topic in the corresponding classroom session.

COURSE POLICY ("rules of the game").

Deadlines and Rescheduling Policy.

Tasks must be completed on time according to the deadline. For untimely completion of the assignment, the graduate student receives an unsatisfactory grade. If the student of higher education was absent from classes for any reason, then the practice is carried out within the deadlines set by the teacher in accordance with the "Regulations on the organization of the educational process at ONMedU" (link to the regulations on the university's website <https://onmedu.edu.ua/wp-content/uploads/2020/01/osvitnijproces.pdf>). Reassembly is carried out in accordance with the approved schedule.

Academic Integrity Policy.

The policy of the educational component is based on the principles of academic integrity (link to the regulations on the university website <https://onmedu.edu.ua/wp-content/uploads/2020/07/polozhennja-pro-dobrochesnist.pdf>) and is determined by the system requirements that the teacher presents to the applicant when studying the educational component:

- independent performance of educational tasks, tasks of current and final control of learning results (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);
- references to sources of information in case of use of ideas, developments, statements, information.

Attendance and Tardiness Policy.

Attendance and work in classroom classes (lectures and seminar classes) is mandatory for obtaining a satisfactory grade. A graduate student is allowed to be late for no more than 10 minutes.

Mobile devices.

It is permissible to use mobile devices during the lesson with the teacher's permission.

Behavior in the audience.

While in the audience, the following values should be cultivated: respect for colleagues; tolerance for others; receptivity and impartiality; argumentation of agreement or disagreement with the opinion of other participants in the discussion, as well as one's own opinion; respecting the dignity of the opponent's personality during communication; compliance with the ethics of academic relationships.