

Odesa National Medical University
Department of Surgery No. 1 with postgraduate
training

Syllabus

MANAGEMENT OF THE SURGICAL PATIENT IN THE PERIOPERATIVE PERIOD

Amount	4 credits / 120 hours
Semester, year of study	4th semester, 2nd year of study
Days, time, place	According to with schedule in the audience department surgery No. 1 with postgraduate training. St. Zabolotny, 26/32.
Teacher(s)	Grubnik Volodymyr Volodymyrovych, Doctor of Medicine, professor, Head of Department of Surgery No. 1 with postgraduate training
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Workplace	Office of the head of the department of surgery No. 1 with postgraduate training, str. Zabolotny, 26/32.
Consultations	<i>Face-to-face consultations:</i> Monday, Thursday - from 09.00 to 12.00; <i>Online consultations: upon agreement</i> <i>MicrosoftTeams</i> 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 training in the selective educational discipline "Management of a surgical patient in the perioperative period" is the peculiarities of the management of a surgical patient during preparation for surgery, during surgical intervention and in the postoperative period, possible difficulties and complications during treatment, methods of their prevention and elimination.

Course prerequisites and post-requisites (The place of the discipline in the educational program)

The study of the educational discipline "Management of a surgical patient in the perioperative period" is based on the study by students of normal, pathological and topographical anatomy, histology, cytology and embryology, general and clinical pathological physiology, general surgery, operative surgery, a course of surgical diseases, propaedeutics of internal diseases and therapy, of anesthesiology and intensive care, which involves integration with these disciplines and forming the ability to apply knowledge in the process of further education and professional activity.

The purpose of the course

The aim of the study is to master the issues of pre-operative management of patients with a surgical profile.

Tasks of the discipline:

- 1) to get in-depth knowledge of the features related to the perioperative period in patients with various surgical pathologies.;
- 2) to study in depth possible difficulties, complications, problems that may arise during the treatment of patients before surgery, during surgery and in the postoperative period;
- 3) to acquire the skills of assessing the condition of the surgical patient, possible risks and problems that may arise during treatment;
- 4) to gain in-depth knowledge about possible complications in the management of surgical patients, calculation by home help of various scales;
- 5) mastering experimental techniques and modern methods of clinical research in surgery;
- 6) practicing the skills and abilities of analyzing the results of clinical studies;
- 7) Master the basic principles of performing basic surgical manipulations and procedures.
- 8) master the ability to organize and conduct educational classes from the elective course;
- 9) acquisition of skills and abilities in educational, methodical and educational work;
- 10) acquire skills in the use of modern information technologies when teaching surgery in general and a course on surgical diseases.

Expected results

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

modern classifications of surgical diseases, possibilities of diagnosis and main ways of treatment of surgical diseases; basic principles of managing a surgical patient; possible complications that may arise in the perioperative period, modern approaches and methods for performing interdisciplinary scientific research, the theory of the cognitive process and the technology of the pedagogical process; modern achievements in the field of scientific research.

be able:

- Conduct research on selected topics;
- Interpret the results of modern research methods obtained;
- Conduct critical analysis of clinical data;
- Use modern achievements of science and technology when conducting diagnostic research and determining the purpose and tasks of scientific research;
- Formulate a scientific task - a problem;
- Develop research design; to be able to choose research methods that are adequate to the set goal and tasks;
- Conduct original scientific research;

- Receive and interpret new scientific facts that expand the scope of knowledge in the researched problem;
- Conduct training sessions and practical consultations;
- Carry out educational and methodical work;
- To implement the achievements of science and technology in pedagogical practice;
- To develop communications in the professional environment and the public sphere for the dissemination of scientific facts in the social sector;
- To promote technological, social and cultural progress in an academic and professional context

COURSE DESCRIPTION

Forms and methods of education

The course is taught in the form of seminar classes (60 hours), as well as through the organization of independent work of graduate students (60 hours); total - 120 hours (4 credits).

Teaching methods

the training of graduate students involves the use of interactive teaching methods with an emphasis on practicing practical skills and the ability to use the acquired knowledge in the management of surgical patients. In addition, the use of distance learning is foreseen - with the involvement of graduate students in internationally recognized courses and educational resources.

Final controlis not conducted, the study of the discipline ends with a credit at the last practical lesson.

Content of the academic discipline

Names of content modules and topics	Number of hours		
	Full-time		
	everything	including	
Practical training		Individual work	
Content module 1. Theoretical training and pedagogical practice			
Together	4	4	2
Content module 2. Educational and methodical work			
Methodical meetings of the department	4		2
Content module 3. Management of a surgical patient in the perioperative period			
	112	56	56
Together	120	60	60

3. Topics of seminar and independent classes of selective educational discipline "Management of a surgical patient in the perioperative period»

No s/p	Topic	Practical training	Individual work
1.	Principles of determining the severity of the patient's condition.	2	2

2.	Pathophysiology of critical conditions in surgical patients.	2	2
3.	Principles of monitoring in surgical patients.	2	2
4.	General principles of analgesia in the perioperative period.	2	2
5.	Violations of water-electrolyte metabolism and acid-base status in surgical patients.	2	2
6.	General principles of infusion and transfusion therapy in surgical patients.	2	2
7.	Perioperative management of patients with hypovolemic shock.	2	2
8.	Perioperative management of surgical patients with concomitant pathology.	2	2
9.	Complications in the perioperative period in cancer patients.	2	2
10.	Violations of hemostasis and thrombotic complications in surgical patients.	2	2
11.	Peculiarities of perioperative management of victims with polytrauma.	2	2
12.	Peculiarities of perioperative management of patients with urgent surgical pathology.	2	2
13.	Purulent-septic complications in the perioperative period.	4	4
14.	Principles of rational antibiotic prophylaxis and antibiotic therapy.	2	2
15.	Nutritional support of surgical patients.	2	2
16.	Polytrauma: concepts, features. Damage Control Surgery.	2	2
17.	Clinical route and protocol for providing medical care for polytrauma. ATLS protocol.	2	2
18.	Assessment of the patient's condition (FAST protocol, scales, TASH assessment).	2	2
19.	Management of a patient with a thoracic injury.	2	2
20.	Management of a patient with an abdominal injury.	2	2
21.	Management of a patient with skeletal polytrauma.	2	2
22.	Management of a patient with multiple and combined trauma.	2	2
23.	Early and late complications of polytrauma: diagnosis and treatment.	2	2
24.	Massive bleeding with polytrauma.	2	2
25.	Vascular injury in trauma.	2	2
26.	Violation of hemostasis and thrombotic	2	2

	complications in polytrauma		
27.	Compartment syndrome in polytrauma	2	2
28.	Together	56	56

List of recommended literature:

The main one

1. General surgery: a basic textbook [for higher medical students. education institutions of the IV level of accreditation] / edited by M. D. Zheliba, S. D. Khimicha; M. D. Zheliba, S. D. Khimich, I. D. Gerych, and others. - 2nd ed., ed. - K.: Medicine, 2016. - 448 p.
2. Operative surgery and topographical anatomy: [textbook for higher medical students. education institutions of the IV level of accreditation] / edited by M.P. Kovalskyi; Yu. T. Akhtemiichuk, Yu. M. Vovk, S. V. Doroshenko, and others. - 3rd ed., ed. - K.: Medicine, 2016. - 503 p.
3. Surgery. In 2 vols.: a textbook [for students of higher medical schools. education institutions]. Vol. 1 / edited by: P. G. Kondratenko, V. I. Rusyna, S. O. Boyko, O. O. Boldizhar, P. O. Boldizhar and others. - Vinnytsia: New book, 2019. - 702 p.
4. Surgery. In 2 vols.: a textbook [for students of higher medical schools. education institutions]. Vol. 2 / edited by: P. G. Kondratenko, V. I. Rusyna, S. O. Boyko, O. O. Boldizhar, P. O. Boldizhar and others. - Vinnytsia: New book, 2019. - 702 p.
5. Clinical anatomy and operative surgery: educational and methodological manual for practical classes of interns of obstetrician-gynecologists [and trainee doctors of institutions (fac.) post-diploma. Ministry of Education of Ukraine] / S. M. Bilash, O. M. Pronina, M. M. Koptev, A. V. Pyrog-Zakaznikova; Ministry of Health of Ukraine, UMSA. - Poltava: Myron I. A., 2019. - 113 p.
6. Bereznytskyi Y.S., Zakharash M.P., Mishalov V.G., Shidlovskiy V.O. Surgery, Tom I. – 2006, Textbook. 2. Bereznytskyi J.S., Zakharash M.P., Mishalov V.G. Surgery, Volume II. – 2007, Textbook.
7. Kovalchuk L.Ya., Saenko V.F., Knyshov G.V. Clinical surgery. In 2 volumes. Ternopil: Ukrmedknyga, 2000. 2000, 286 p.–Ternopil: Ukrmedknyga.–
8. Radzihovsky A.P., Babenko V.I. Emergency surgery of abdominal organs. Kyiv. "Phoenix", 2002. - 319 p.
9. Zakharash M.P., Poida O.I., Kucher M.D. Surgery: textbook. - K.: Medicine, 2006. - 656 p.
10. Surgery: a textbook / edited by LA. Kovalchuk Ternopil: TDMU, 2010. - 1056 p.
11. Surgery: Textbook, volume III (basic textbook for primary specialization in surgery), book 2 (clinical surgery) / Ed. Bereznytskyi Y.S., Zakharasha M.P., Mishalova V.G. - Dnipropetrovsk: RVA "Dnipro-UAB", 2011. - 782 p.
12. Lectures on hospital surgery: Education. manual / edited by V.G. Mishalova. - 2nd ed., add. and processing - K.: "Ascania" Publishing House, 2008. - Vol. 1. - 287 p.
13. Lectures on hospital surgery: Education. manual / edited by V.G. Mishalova. - 2nd ed., add. and processing - K.: Publishing House "Askania", 2008. - Vol. 2. - 382 p.

Additional

1. Emergency Surgery Course (ESC®) Manual: The Official ESTES/AAST Guide/

ISBN-10: 3319213377.-2016 .- 252 pages.

2. Harold Ellis and Sir Roy Calne, "General Surgery, 13th Edition" / ISBN: 1118742052.- 2016 .- 424 pages.

3. Mamta Swaroop (Editor), Sanjay Krishnaswami .Academic Global Surgery/ ISBN-10: 3319142976 .- 2016 .- 144 pages.

4. Lim, COL Robert B. Surgery During Natural Disasters, Combat, Terrorist Attacks, and Crisis Situations / ISBN-10: 3319237179.- 2016.- 228 pages.

5. TK Chattopadhyay. GI Surgery Annual: Volume 22 / ISBN: 9811020094.- 2017.- 237 Pages.

6. Order of the Ministry of Health of Ukraine No. 329 dated 15.06.2007 "On the approval of clinical protocols for the provision of medical care for the prevention of thrombotic complications in surgery, orthopedics and traumatology, obstetrics and gynecology."

7. Order of the Ministry of Health of Ukraine No. 502 dated August 29, 2008 "On the approval of the clinical protocol for antibacterial therapy in surgery, traumatology, obstetrics and gynecology."

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.

Assessment of current discipline control:

The meaning of the "excellent" assessment: 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 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 a small 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 of the discipline is the assessment.

The grade for the discipline is the arithmetic average of two components:

- 1) average current score as the arithmetic average of all current grades;
- 2) traditional assessment for the exam.

The obtained average grade 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.

Average score for discipline	Rating from the discipline on a 200-point scale	Rating from the discipline on a 4-point scale (traditional assessment)
4.62–5.0	185–200	5
3.77–4.61	151–184	4
3.0–3.76	120–150	3

Individual 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, as well as at the final control (exam).

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 in the terms 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/osvitnij-process.pdf>). Reassembly is carried out in accordance with the approved schedule.

Academic Integrity Policy

Policy educational components is based on principles academic integrity (link on position on site university <https://onmedu.edu.ua/wp-content/uploads/2020/07/polozhennja-pro-dobrochesnist.pdf>) and is determined by the system of requirements that the teacher presents to the student 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.