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Federal State Budgetary Educational Institution of Higher Education
"Pacific State Medical University"
of the Ministry of Health of the Russian Federation

APPROVED BY

/First Vice-Rector

 / Dvoynikova E.R./
"23rd" of June 2026

DISCIPLINE WORK PROGRAM

B1.C.18 General surgery, surgical diseases

	(name of discipline)
Field of study (specialty)	31.05.03 Dentistry
Level of training	specialty
Focus of training	02 Healthcare
Sphere of professional activity	(in the field of providing medical care to the population for dental diseases)
Form of study	full-time education
Duration of mastering the discipline	5 years
Institute/Department	Institute of Surgery

Vladivostok, 2026

When developing the work program for the discipline B1.C.18 General surgery, surgical diseases, the following was taken as a basis:

1) Order No. 984 approved by the Ministry of Higher Education and Science of the Russian Federation on “12” __August__, 2020__.

2) Curriculum for the 31.05.03 Dentistry for foreign students (English-language program), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia Report No. 1-7/25-26 dated March 27, 2026.

The working program of the discipline was developed by the team of authors of the Institute of Surgery of the Pacific State Medical University of the Ministry of Health of Russia, under the guidance of the director of the institute, professor, doctor of medical sciences, E.P. Kostiv.

Developers:

professor (position held)	Doctor of Medical Sciences (academic degree, academic title)	Borovsky S.P.
docent (position held)	Candidate of Medical Sciences, docent (academic degree, academic title)	Aleynikova E.V.

1. GENERAL PROVISIONS

1.1. The purpose and objectives of mastering the discipline B1.C.18 General surgery, surgical diseases

The purpose of mastering the discipline is to prepare a professionally competent dentist who is proficient in the basic principles of organizing diagnostic and therapeutic activities in surgery, the semiotics of the main surgical diseases, the basics of clinical examination of surgical patients, who is able to solve the main issues of diagnosing various surgical diseases, conditions and injuries, has the ability to justify their non-drug and drug treatment, as well as provide first aid in emergency surgical situations.

Objectives of mastering the discipline:

1. Acquiring knowledge of the basic principles of organizing diagnostic and therapeutic activities in surgery;
2. Acquiring knowledge of the basic principles of clinical examination of surgical patients;
3. Forming skills in maintaining a medical history, other medical documentation, including electronic forms, as well as the ability to work with modern medical information.
4. Acquiring knowledge of nosocomial infection and the main methods of its prevention, forming skills and abilities in treating infectious complications;
5. Forming skills and abilities in conducting events, procedures and manipulations of general surgical focus;
6. Acquiring knowledge of the basics of traumatology, oncology, malformations and the specifics of organizing medical care for patients.
7. Acquiring knowledge of the main nosological forms of surgical diseases and injuries, their etiology and pathogenesis;
8. Acquiring knowledge of the main clinical manifestations, symptoms and syndromes of surgical diseases, conditions and injuries;
9. Developing skills in analyzing the results of laboratory and instrumental studies, and the opinions of medical specialists;
10. Acquiring knowledge about the basic principles of treating various surgical diseases and injuries, as well as indications for use and methods of surgical treatment;
11. Developing skills in diagnosing surgical emergencies and providing first aid at the pre-hospital stage;
12. Developing skills in prescribing and justifying comprehensive measures to prevent surgical diseases;

2. PLACE OF THE DISCIPLINE (MODULE) IN THE STRUCTURE OF THE BASIC EDUCATIONAL PROGRAM

Discipline B1.C.18 General surgery, surgical diseases is part of the main educational program in the specialty 31.05.03 Dentistry and is studied in the 3rd and 4th semesters

3. PLANNED LEARNING OUTCOMES FOR THE DISCIPLINE (MODULE)3.1.

Mastering the discipline B1.C.18 General surgery, surgical diseases is aimed at developing students' competencies. The discipline ensures the development of students' competencies, depending on the types of tasks of professional activity.

Name of the category (group) of competencies	Code and name of competence	Indicators of Competence Achievement
General professional competencies		
Diagnosis and treatment of diseases	GPC-5. Capable of examining a patient to establish a diagnosis when solving professional problems	ICA.GPC-5 ₁ - conducts examination of the patient using general clinical, laboratory, and special instrumental methods ICA.GPC-5 ₂ - preliminarily assesses the somatic condition of all organs and systems to decide on the absence of contraindications for complex and reconstructive dental procedures ICA.GPC-5 ₃ - evaluates the results of the examination conducted in order to establish a diagnosis
Diagnosis and treatment of diseases	GPC-6. Capable of prescribing, monitoring the effectiveness and safety of non-drug and drug treatment when solving professional problems	ICA.GPC-6 ₁ - independently prescribes treatment, determines dosages of medications and regimens of drug therapy and non-drug measures in accordance with existing recommendations ICA.GPC-6 ₂ - monitors the effectiveness of the therapy, adjusts the prescribed treatment regimens if necessary, uses different forms of medications taking into account the specifics of dental treatment ICA.GPC-6 ₃ - takes into account contraindications when prescribing treatment, identifies and detects adverse events when taking and using medications

3.2. Types of professional activity based on the competencies formed during the implementation of B1.C.18 General surgery, surgical diseases:

1. Medical

Types of tasks of professional activity

1. 1. Diagnostic activities

2. Therapeutic activities

3.3. The planned learning outcomes for the discipline are expressed in knowledge, abilities, skills and experience, characterize the stages of competencies formation and ensure the achievement of

the planned results of mastering the main educational program. The learning outcomes for the discipline are correlated with the indicators of achievement of competencies.

4. VOLUME AND CONTENT OF THE DISCIPLINE (MODULE)

4.1. Volume of the discipline (module) and types of academic work

Type of academic work		Total hours	Semester No. 3	Semester № 4
1				
Classroom classes (total), including:		70	48	22
Lectures		18	12	6
Practical classes		52	36	16
Independent work of the student, including:		47	24	23
<i>Electronic educational resource: including lectures</i>		6	3	3
<i>Preparation for classes</i>		10	5	5
<i>Preparation for current control</i>		10	6	4
<i>Medical history</i>		10	10	
<i>Presentation Preparation</i>		5		5
<i>Preparation for the intermediate assessment</i>		6		6
Interim assessment		27		27
Type of intermediate assessment	credit			
	exam	27		27
TOTAL: Total labor intensity	hours	144	72	72
		4	2	2

4.2. Contents of the discipline

4.2.1. Lecture topics and number of hours per semester of study of the discipline (module)

№	Lecture Topics	hours
1	2	3
Semester 3		
1.	The concept of surgery and surgical diseases. The sequence of studying surgery in a medical university. Surgical deontology. The relationship of surgery with other medical disciplines.	2
2.	Antisepsis in a surgical clinic. Classification. Mechanical, physical, chemical, biological and mixed antisepsis. The role of domestic scientists in the development of antisepsis. Asepsis. Prevention of airborne, contact and implantation routes of infection.	2
3.	Surgical operation: preoperative period; preparation of the patient for surgery. Surgical operation: intraoperative period; postoperative period.	2
4.	Bleeding and blood loss. Classification. Clinical picture of acute blood loss. Pathogenesis of developing symptoms and mechanisms of compensation of blood	2

	loss. Methods of prevention and treatment of blood loss	
5.	Fundamentals of transfusiology. Modern concepts of human blood groups. Immunological identification of blood by the AB0 and Rh systems.	2
6.	Modern indications for transfusion of blood and its components, blood products. Mechanism of action of transfused blood components and products. Complications during transfusion of blood components.	2
	Total hours per semester	12
Semester 4		
1.	Emergency conditions in the clinic of surgical diseases. Diagnostics of clinical manifestations, rules for providing first aid.	2
2.	Anesthesia. Local and general.	2
3.	General issues of oncology. Signs of malignant tumors. Principles of early diagnostics and treatment of malignant tumors.	2
	Total hours per semester	6

4.2.2. Topics of practical classes and number of hours per semester of studying the discipline (module)

№	Topics of practical classes	hours
1	2	3
Semester 3		
1.	The concept of surgery and surgical diseases. The sequence of studying surgery in a medical university. Surgical deontology. The relationship of surgery with other medical disciplines. Case history. Patient supervision.	4
2.	Antisepsis in a surgical clinic. Classification. Mechanical, physical, chemical, biological and mixed antisepsis. The role of domestic scientists in the development of antisepsis. Asepsis. Prevention of airborne, contact and implantation routes of infection.	4
3.	Surgical operation: preoperative period; preparation of the patient for surgery. Surgical operation: intraoperative period; postoperative period.	4
4.	Bleeding and blood loss. Classification. Clinical picture of acute blood loss. Pathogenesis of developing symptoms and mechanisms of compensation of blood loss. Methods of prevention and treatment of blood loss	4
5.	Fundamentals of transfusiology. Modern concepts of human blood groups. Immunological identification of blood by the AB0 and Rh systems.	4
6.	Modern indications for transfusion of blood and its components, blood products. Mechanism of action of transfused blood components and products. Complications during transfusion of blood components.	4
7.	Wounds. Classifications. Clinical and morphological characteristics of the wound process. Diagnostics. Phases and complications of the wound process. Wound treatment.	4
8.	Burns. Features of local treatment of burn wounds. Burn disease. Injuries from cooling.	4
9.	Fundamentals of traumatology. Features of examination of a trauma patient. Soft tissue injuries. Syndrome of prolonged compression. Dislocations. Fractures. Transport immobilization. Desmurgy.	4
	Total hours per semester	36
Semester 4		
1.	Emergency conditions in the clinic of surgical diseases. Diagnostics of clinical	4

	manifestations, rules for providing first aid.	
2.	Anesthesia. Local and general.	4
3.	Purulent soft tissue infection. Abscess. Phlegmon. Systemic inflammatory reaction.	4
4.	General issues of oncology. Signs of malignant tumors. Principles of early diagnostics and treatment of malignant tumors.	4
	Total hours per semester	16

4.2.3. Independent work of the student

№	Name of the section of the academic discipline (module)	Types of independent work	Total hours
1	3	4	5
Semester 3			
1.	Basic principles of organizing diagnostic and therapeutic activities in surgery. Clinical examination of surgical patients.	Preparation for classes. Preparation for current control. Preparation for midterm control. Medical history.	6
2.	Nosocomial infection: prevention and treatment.	Preparation for classes. Preparation for current control. Preparation for midterm control.	3
3.	Surgical operation; types, rules of preparation and management of patients.	Preparation for classes. Preparation for current control. Preparation for midterm control.	3
4.	Fundamentals of transfusiology.	Preparation for classes. Preparation for current control. Preparation for midterm control.	3
5.	Wounds and wound healing process.	Preparation for classes. Preparation for current control. Preparation for midterm control.	3
6.	Burns and burn disease. Injuries from cooling.	Preparation for classes. Preparation for current control. Preparation for midterm control.	3
7.	Fundamentals of traumatology.	Preparation for classes. Preparation for current control. Preparation for midterm control.	3
	Total hours per semester		24
Semester 4			
1.	Emergency conditions in the clinic of surgical diseases.	Preparation for classes. Preparation for current control. Preparation for midterm control. Abstract. Preparation of presentation.	8
2.	General issues of anesthesiology	Preparation for classes. Preparation for current control. Preparation for midterm control. Abstract. Preparation of presentation.	4
3.	Surgical infection.	Preparation for classes. Preparation for current control. Preparation for midterm control. Abstract. Preparation of	8

		presentation.	
4.	General issues of oncology.	Preparation for classes. Preparation for current control. Preparation for midterm control. Abstract. Preparation of presentation.	3
	Total hours per semester		23

5. CONDITIONS FOR THE IMPLEMENTATION OF THE DISCIPLINE (MODULE) 5.1.
Educational, methodological and informational support of the academic discipline

Main literature

n/ №	Name, resource type	Author(s) /Editor	Imprint, email address	Number of accesses to the library
1	2	3	4	5
1.	General surgery	V.K. Gostishchev	textbook. - М.: ГЭОТАР-Медиа, 2002.	Unlimited access
2.	General surgery	S.V.Petrov	textbook. - М.: ГЭОТАР-Медиа, 2014.	Unlimited access

Further reading

n/ №	Name, resource type	Author(s) /Editor	Imprint, email address	Number of accesses to the library
1	2	3	4	5
1	Practical skills in general surgery	A.N. Nekhaev, G.P. Levers.	Textbook, Minsk: Higher School, 2012	Unlimited access
2	General Surgery Course Workshop	Edited by P.N. Zubarev.	СПб.: Фолиант, 2004	Unlimited access

Internet resources

1. <http://studmedlib.ru/>
2. <http://www.biblioclub.ru/>
3. <https://urait.ru/>
4. <https://www.books-up.ru/>
5. <https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/>

Internet resources and instructions for their use are posted on the Library and Information Center page [Библиотечно-информационный центр — ФГБОУ ВО ТГМУ Минздрава России \(tgmu.ru\)](http://tgmu.ru)



5.2. Material and technical support for the academic discipline

Information on the logistical support for the course is available on the official website of the university [Материально-техническое обеспечение и оснащённость образовательного процесса. Федерального бюджетного образовательного учреждения высшего образования «Тихоокеанский государственный медицинский университет» Министерства здравоохранения Российской Федерации \(tgmu.ru\)](http://tgmu.ru)



5.3. List of information technologies used to implement the educational process in a discipline (module), information and reference systems, licensed and freely distributed software, including domestically produced:

1. PolycomTelepresence M100 Desktop Conferencing Application (BKC)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. Система онлайн-тестирования INDIGO
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C: University
10. Гарант
11. MOODLE

6. FEATURES OF IMPLEMENTING THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND DISABLED PEOPLE

6.1. Availability of appropriate conditions for the implementation of the discipline

For students with disabilities and individuals with limited health capabilities, on the basis of a written application, the discipline is implemented taking into account the characteristics of psychophysical development, individual capabilities and health status (hereinafter - individual

characteristics). The following general requirements are met: the use of special technical training aids for collective and individual use, the provision of the services of an assistant (assistant) who provides such a student with the necessary technical assistance, ensuring access to buildings and premises where classes are held, and other conditions without which studying the discipline is impossible or difficult.

6.2. Ensuring compliance with general requirements

When implementing the discipline, based on a written application from the student, the following general requirements are ensured: conducting classes for disabled students and individuals with limited health capabilities in the same classroom together with students who do not have limited health capabilities, if this does not create difficulties for the students; the presence in the classroom of an assistant (assistants) providing the students with the necessary technical assistance, taking into account their individual characteristics; use of the technical means necessary for the student, taking into account their individual characteristics. 6.3. Доведение до сведения обучающихся с ограниченными возможностями здоровья в доступной для них форме всех локальных нормативных актов ФГБОУ ВО ТГМУ Минздрава России.

All local regulations of the Federal State Budgetary Educational Institution of Higher Education "Pacific State Medical University" of the Ministry of Health of the Russian Federation on the implementation of the discipline (module) are communicated to students with disabilities in a form accessible to them.

6.4. Implementation of an increase in the duration of the intermediate assessment in relation to the established duration for a student with disabilities

The form of conducting the current and intermediate certification in the discipline for disabled students and individuals with limited health capabilities is established taking into account individual psychophysical characteristics (orally, in writing on paper, in writing on a computer, in the form of testing, etc.). The duration of passing the intermediate certification in relation to the established duration is increased upon a written application of a student with limited health capabilities. The duration of the student's preparation for the answer at the test is increased by at least 0.5 hours.

6. STAFFING DISCIPLINE

The composition of scientific and pedagogical staff ensuring the implementation of the educational process in the discipline meets the requirements for the specialty 31.05.03 Dentistry is posted on the website of the educational organization.



7. EDUCATIONAL WORK IN THE IMPLEMENTATION OF DISCIPLINE

Type of educational work	Forms and directions of	Evaluation criteria
Help in personal	Open	Portfolio

development	Discipline B1.C.18 General surgery, surgical diseases Conversations and problematic debates on the promotion of a healthy lifestyle Participation in interdepartmental conferences on the formation of a culture of a healthy lifestyle, development of the ability to maintain and improve health Hidden – creating an atmosphere, infrastructure Discipline B1.C.18 General surgery, surgical diseases Formation of a healthy lifestyle culture, development of the ability to maintain and improve health Creation of a friendly and respectful atmosphere with a high level of communication skills in the implementation of the discipline	
Civic values	Open Discipline B1.C.18 General surgery, surgical diseases Conducting events that promote the education of civil-legal culture (round tables, debates, conversations Topical short debates in the presence of special events Hidden Discipline Biology Focusing on general civil value orientations and legal culture Conscious civic position in the implementation of professional activities	Portfolio
Social values	Open Discipline B1.C.18 General surgery, surgical diseases Coverage of issues dedicated to the organization of a healthy lifestyle based on health-saving technologies Coverage of environmental issues, environmental problems as a factor influencing public health and individual population risks Hidden Discipline B1.C.18 General surgery, surgical diseases Identification in the social structure when receiving education and carrying out professional activities	Portfolio