

Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Кубанов Сергей Исмаилович

Должность: и.о. декана медико-биологического факультета

Дата подписания: 20.10.2026 10:11:25

Уникальный программный ключ:

bbc0243907972fc80f279c67afb4501106151a7d

MINISTRY OF SCIENCE AND HIGHER EDUCATION

RUSSIAN FEDERATION

Federal State Autonomous Educational Institution of Higher Education

NORTH-CAUCASUS FEDERAL UNIVERSITY

APPROVED

Assoc. Prof. Kubanov S.I.

PhD in Medical Sciences

Dean

Faculty of Medicine and Biology

COURSE OUTLINE OF THE DISCIPLINE (MODULE)

«Hospital surgery, pediatric surgery.»

- Specialty: 31.05.01 General Medicine
- Mode of training: Full-time
- Year of commencement of studies: 2026
- Delivered in Semester 9-11

Developed by:

Kubanov S.I., Associate Professor

of the Department of Surgery,

Orthopedics, and Traumatology

Stavropol 2026

1. Aim and Objectives of Mastering the Discipline «Hospital surgery, pediatric surgery.»

- Aim of mastering the discipline: "Hospital Surgery, Pediatric Surgery" is one of the main, basic components of a specialist's independent professional medical and diagnostic activities, and it plays a crucial role in the clinical training of a young doctor.
- Objectives of mastering the discipline: to continue studying the basics of clinical surgery with an analysis of the course of surgical diseases and their complications; to acquaint students with new sections of the discipline and more complex forms of pathological processes; to expand and improve students' knowledge of differential diagnosis, formulation of clinical diagnosis; to pay special attention in the learning process to the issues of early diagnosis and indications for surgical treatment of acute diseases of the abdominal cavity; to teach students to determine therapeutic tactics based on the specific characteristics of the patients they have studied; to familiarize students and help them master the methods of preoperative preparation and postoperative management of patients; to improve students' skills and abilities in providing assistance in emergency situations and in emergency surgery; to train them in the preparation of medical documentation.

2. Place of the Discipline «Hospital surgery, pediatric surgery.» in the Structure of the Training (educational) Program

The discipline «Hospital surgery, pediatric surgery.» belongs to the part compulsory.

3. List of Potential Learning Outcomes for the Discipline «Hospital surgery, pediatric surgery.», Correlated with the Outcomes of Mastering the Educational Program

Code and definition of the competence	Code and definition of the indicator	Planned learning outcomes for the discipline (module) describing the stages of competency and indicator development
PC-1 Ready to participate in providing emergency medical care for conditions that require urgent medical intervention.	ID-1 PC-1 Able to carry out medical measures in the provision of emergency medical care for conditions requiring urgent medical intervention. ID-2 PC-1 Able to identify conditions requiring medical care in emergency form, including clinical signs of sudden cessation of circulation and breathing. ID-3PC-1	The ability to act in non-standard situations and choose ways to protect oneself in emergency situations

	Has the skills to assess the condition of a patient requiring emergency medical care, the skills to recognize conditions that pose a threat to the patient's life, including conditions of clinical death (stoppage of vital functions of the human body (circulation and/or respiration) requiring emergency medical care.	
PC-3 It is capable of determining the patient's main pathological conditions, symptoms, disease syndromes, and nosological forms in accordance with .International Statistical Classification of Diseases and Health-related Problems, X revision.	ID-1 PC-3 Is able to build an algorithm and choose criteria for determining patients of various profiles main pathological conditions, syndromes, diseases in accordance with. International Statistical Classification of Diseases and Health-Related Problems, X revision (ICD-X) ID-2 PC-3 Identifies the main pathological symptoms and syndromes, formulates clinical diagnosis in accordance with ICD-10	Forming clinical thinking Acquiring special medical skills and applying them in practical healthcare.

4. Volume of the Academic Discipline «Hospital surgery, pediatric surgery.» and Control *

Volume of classes: Total: 8 ECTS credits, 288 academic hours.	Full-time type of study, in academic hours
Face-to-face work	164
Lectures / including practical training	50
Practical classes / including practical training	114/36
Independent work	88
Forms of control	
Graded credit (Graded Pass/Fail test)	
Examination	36

5. Content of the Discipline «Hospital surgery, pediatric surgery.», Structured by Topics (Sections) with an Indication of the Hours and Types of Classes

#	Section (topic) of the discipline and brief content	Competencies and indicators to be developed	Full-time training			Independent work, hours	Forms of current control of academic progress
			Contact work of students with the teacher / of them practical skills training, hours				
			Lectures	Practical classes	Laboratory work		
9th semester							
	SECTION 1. Abdominal Surgery						Interview
1.	Topic 1. Acute appendicitis 1. Symptoms 2. Treatment 3. Prevention 4. Diagnosis	ID-1 PC-1, ID-2 PC-3	2	4/2		54	Interview
2.	Topic 2. Acute cholecystitis, cholelithiasis, and obstructive jaundice. 1. Symptoms 2. Treatment 3. Prevention 4. Diagnosis	ID-1 PC-1, ID-2 PC-3	2	4			Interview
3.	Topic 3. Acute pancreatitis, tumors of the pancreatoduodenal zone, chronic pancreatitis and pancreatic cysts 1. Symptoms 2. Treatment 3. Prevention 4. Diagnostics	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
4.	Topic 4. Complications of peptic ulcer disease 1. Symptoms 2. Treatment 3. Prevention 4. Diagnostics	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
5.	Topic 5. Acute intestinal obstruction, abdominal trauma, and purulent peritonitis. 1. Symptoms 2. Treatment 3. Prevention 4. Diagnosis	ID-1 PC-1, ID-2 PC-3	2	4			Interview

6.	Topic 6. Liver Tumors 1. Symptoms 2. Treatment 3. Prevention 4. Diagnosis	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
7.	Topic 7. Parasitic diseases of the liver 1. Types 2. Symptoms 3. Diagnosis 4. Treatment	ID-1 PC-1, ID-2 PC-3	2	4			Interview
8.	Topic 8. Chronic inflammatory bowel diseases. 1. Symptoms 2. Treatment 3. Prevention 4. Diagnosis	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
9.	Topic 9. Diseases of the rectum and perianal area. 1. Symptoms 2. Treatment 3. Prevention 4. Diagnostics	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
	TOTAL for the 9th semester		18	36/12		54	
10th semester							
	SECTION 2. THORACIC SURGERY						
10.	Topic 1. Chest injury, diseases, and esophageal damage. 1. Symptoms 2. Treatment 3. Prevention 4. Diagnosis	ID-1 PC-1, ID-2 PC-3	2	6/2		4	Interview
11.	Topic 2. Cysts and tumors of the mediastinum, suppurative diseases of the lungs and pleura, suppurative mediastinitis, diseases of the diaphragm.	ID-1 PC-1, ID-2 PC-3	2	6/2		2	Interview
	SECTION 3. CARDIOVASCULAR SURGERY						
12.	Topic 1. Congenital heart and large vessel defects, acquired heart defects, pericarditis, coronary heart disease, and surgical treatment of arrhythmias.	ID-1 PC-1, ID-2 PC-3	2	6/2		2	Interview
13.	Topic 2. Acute arterial obstruction, chronic aortic obliterating diseases, aortic and main artery aneurysms, surgical approaches to treatment of brain disorders blood circulation, abdominal ischemia.	ID-1 PC-1, ID-2 PC-3	2	6/2		2	Interview
14.	Topic 3. Portal hypertension, acute venous thrombosis, pulmonary thromboembolism, chronic venous diseases, limfedema of the limb.	ID-1 PC-1, ID-2 PC-3	2	6/2		2	Interview
	SECTION 4. ENDOCRINE SURGERY						

15.	Topic 1. Goiter, diseases and tumors of the adrenal glands 1. Symptoms 2. Treatment 3. Prevention 4. Diagnostics	ID-1 PC-1, ID-2 PC-3	2	6/2		2	Interview
16.	Topic 2. Surgery of the mammary glands, acute mastitis, and dishormonal diseases of the mammary glands	ID-1 PC-1, ID-2 PC-3	2	6/2		2	Interview
	TOTAL for the 10th semester		14	42/12		16	
11th semester							
	SECTION 6. PEDIATRIC SURGERY		2	4/2			
17.	Topic 1. Introduction to pediatric surgery. History of development. Features of surgical diseases in childhood	ID-1 PC-1, ID-2 PC-3	2	4/2		36	Interview
18.	Topic 2. Emergency abdominal and purulent surgery in children.	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
19.	Topic 3. Elective and outpatient surgery 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
20.	Topic 4. Pediatric Traumatology 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
21.	Topic 5. Pediatric Orthopedics 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
22.	Topic 6. Pediatric Urology-Andrology 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
23.	Topic 7. Neonatal Surgery 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
24.	Topic 8. Pediatric Thoracic Surgery 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
25.	Topic 9. Pediatric abdominal surgery 1. Definition 2. Features	ID-1 PC-1, ID-2 PC-3	2	4/2			Interview
	TOTAL for the 11th semester		18	36/12		36	
	TOTAL		50	114/36		88	

6. Assessment Tools Fund for the Discipline «Hospital surgery, pediatric surgery.»

The assessment tools fund (ATF) for the discipline «Hospital surgery, pediatric surgery.» is based on the list of competencies to be mastered, indicating the stages of their formation in the process of mastering the discipline «Hospital surgery, pediatric surgery.». The ATF provides an objective control over the achievement of the planned learning outcomes. The ATF includes:

- A description of indicators and criteria for evaluating competencies at various stages of their formation, a description of evaluation scales;
- Methodological materials determining the procedures for evaluating knowledge, skills, abilities and (or) work experience characterizing the stages of competency formation;

- Standard control tasks and other materials necessary for assessing knowledge, skills, and the level of mastery of the formed competencies in the process of mastering the discipline (module).

The ATF is an appendix to this discipline«Hospital surgery, pediatric surgery.» program.

7. Methodological Guidelines for Students on Mastering the Discipline

When starting work, each student must take into account the following provisions.

The discipline «Hospital surgery, pediatric surgery.» is structured on a thematic principle; each topic represents a logically completed section.

The lecture material is dedicated to the consideration of key, basic provisions of the courses and the clarification of learning tasks assigned for the independent work of students.

Practical classes are conducted with the aim of consolidating the mastered information, acquiring skills for its application in solving practical problems in the relevant subject area.

Laboratory works are aimed at gaining practical experience in the relevant subject area.

The independent work of students is aimed at the independent study of additional material, preparation for practical and laboratory classes, as well as the execution of all types of independent work.

In order to successfully master the discipline, it is important to complete all types of independent work employing the recommended sources of information.

8. Educational, Methodological, and Informational Support for the Discipline

8.1. List of Main and Additional Literature Required for Mastering the Discipline

«Hospital surgery, pediatric surgery.»

8.1.1. List of Main Literature:

1. "Pediatric Surgery [Electronic resource]: Textbook / edited by Yu. F. Isakov, A. Yu. Razumovsky; edited by A. F. Dronov. - Moscow: GEOTAR-Media, 2015." - <http://www.studmedlib.ru/book/ISBN9785970434970.html>
2. Drozdov, A. A. Pediatric Surgery Electronic Resource: Textbook / A. A. Drozdov, M. V. Drozdova. - Pediatric Surgery, 2020-02-05. - Saratov: Nauchnaya Kniga, 2019. - 159 p. - The book is in the premium version of the IPR BOOKS EBS. - ISBN 978-5-9758-1725-9, unlimited copies
3. Polyclinic and hospital children's surgical dentistry: textbook / A.K. Korsak, A.N. Kushner, T.N. Terekhova, Yu.V. Zenkevich ; under the editorship of A. K. Korsak. - Minsk: Vysheyschaya shkola, 2016. - 528 p. il. - <http://biblioclub.ru/>. - Bibliogr.: p. 520-524. - ISBN 978-985-06-2634-9, copies unlimited
4. Bolshakov, O.P. Operative surgery and topographic anatomy: Textbook / O.P. Bolshakov. - St. Petersburg: Peter, 2018. - 432 p.
5. Kuznetsov, N.A. General Surgery / N.A. Kuznetsov. - Moscow: MEDpress-inform, 2018. - 896 p.
6. Selezneva, T.D. General Surgery: Textbook / T.D. Selezneva. - Moscow: Rior, 2017. - 288 p. Children's Surgery with Traumatology and Orthopedics Electronic resource: educational and methodological manual / L.S. Muravko / N.M. Stepanova / S.L. Druchkova / S.G. Gaymolenko. - Chita: Chita State Medical Academy, 2010. - 307 c. - The book is in the basic version of the IPRbooks EBS, unlimited copies

7. Traumatology and Orthopedics: textbook / [N.V. Kornilov]; edited by N.V. Kornilov. - 3rd edition, supplemented and revised. Moscow: GEOTAR-Media, 2014. 592 p.: ill. Electronic Library System "Student's Consultant"
www.studentlibrary.ru/booc/isbn9785970420287.html

8.1.2. List of Additional Literature:

1. Ambulatory Surgery in Children [Electronic resource] / V.V. Levanovich, N.G. Zhila, I.A. Komissarov - Moscow: GEOTAR-Media, 2014. -
<http://www.studmedlib.ru/book/ISBN9785970430163.html>
2. Pediatric Urology-Andrology [Electronic resource: textbook] / M.P. Razin, V.N. Galkin, N.K. Sukhikh. - Moscow: GEOTAR-Media, 2011.
<http://www.studmedlib.ru/book/ISBN9785970420645.html>
3. Surgery of the Abdomen and Perineum in Children. Atlas/Edited by A.V. Geraskin, A.N. Smirnov. 2012.- 508 p.: ill. EBS "Student's Consultant"
www.studentlibrary.ru/booc/isbn9785970420065
4. Surgery of the Abdomen and Perineum in Children: Atlas [Electronic resource] / Ed. by A.V. Geraskin, A.N. Smirnov - Moscow: GEOTAR-Media, 2012. -
<http://www.studmedlib.ru/book/ISBN9785970420065.html>
5. "Diagnosis of Acute Abdominal Diseases [Electronic resource]: A Guide / Vlasov A.P., Kukosh M.V., Saraev V.V. - M.: GEOTAR-Media, 2012. - (Series "Specialist Doctor's Library")." - <http://www.studmedlib.ru/book/ISBN9785970421574.html>
6. Surgical Diseases [Electronic resource] textbook / edited by V. S. Savelyev, A. I. Kirienko. - 2nd edition, revised and expanded. - M. GEOTAR-Media, 2014. -
<http://www.studmedlib.ru/book/ISBN9785970431306.html>

8.2. List of Educational and Methodological Support for the Independent Work of Students in the Discipline «Hospital surgery, pediatric surgery.»

- 1 Educational and methodological manual: Guidelines for students on the organization and conduct of independent work in the discipline "Hospital Surgery, Pediatric Surgery". - Stavropol: NCFU, 2026.
- 2 Educational and methodological manual: Guidelines for conducting practical classes in the discipline "Hospital Surgery, Pediatric Surgery". - Stavropol: NCFU, 2026.

8.3. List of Resources of the Information and Telecommunications Network Internet Required for Mastering the Discipline «Hospital surgery, pediatric surgery.»

Computer-aided medical imaging
http://www.nobelprize.org/nobel_prizes/medicine/laureates/1979/cormack-lecture.html
Russian Association of Pediatric Surgeons - www.radh.ru
Surgical Workshop - e-surgeons.ru
Central Scientific Medical Library - <http://www.scsml.rssi.ru/>
School of Modern Surgery - www.websurg.ru

9. List of Information Technologies Employed through the Discipline «Hospital surgery, pediatric surgery.», Including a List of Software and Information Reference Systems

When delivering lectures, computer equipment and demonstrations of multimedia presentation materials are used. In seminars and practical classes, students deliver presentations prepared by them during the hours of independent work.

Information Reference Systems:

Information-reference and information-legal systems used in the study of the discipline:

1.	Electronic library system "University Library Online" - www.biblioclub.ru (Contract No. 50-04/19 for the provision of information services dated 13.05.2019)
2.	Electronic library system "University Library Online" - www.biblioclub.ru (Contract No. 50-04/19 for the provision of information services dated 13.05.2019)
3.	"eLIBRARY.RU": [Scientific Electronic Library]. – URL: http://elibrary.ru
4.	Information and legal portal "Garant" - http://www.garant.ru/
5.	Reference and legal system Russian legislation and judicial practice in free access - http://www.pravo.ru/

Software:

1.	Alt Workstation 10
2.	Alt Workstation K
3.	Alt Server
4.	Office software package – P7-Office

10. Description of the Material and Technical Resources Required for the Educational Process for the Discipline «Hospital surgery, pediatric surgery.»

Lecture classes	A classroom equipped with multimedia equipment and technical training facilities.
Practical classes	A classroom, equipped with multimedia equipment and technical training facilities.
Independent work	A room for the independent work of students, equipped with computer hardware with the capability to connect to the Internet network and provide access to the electronic information and educational environment of the university.
Practical training	Carried out in the structural subdivisions of the university and (or) in organizations engaged in activities matching the profile of the respective training program, including its structural subdivision.

11. Specific Features of Mastering the Discipline «Hospital surgery, pediatric surgery.» by Persons with Disabilities

Students with disabilities shall be provided with special textbooks, teaching aids, and didactic materials, special technical training facilities for collective and individual use, the services of an assistant (helper) providing the necessary technical assistance to the students, as well as the services of sign language interpreters and tactile sign language interpreters.

The mastery of the discipline (module) by students with disabilities may be organized jointly with other students, as well as in separate groups.

Mastering the discipline «Hospital surgery, pediatric surgery.» by students with disabilities is to be carried out taking into account the peculiarities of psychophysical development, individual capabilities, and health status.

In order to ensure the accessibility of higher education under the educational program for persons with disabilities, the following is provided during the mastery of the discipline (module):

- 1) for persons with visual impairments:

- the presence of an assistant offering the student the necessary technical assistance, taking into account individual features (help taking the workplace, moving around, reading and formatting the task, including writing under dictation),
 - written tasks, as well as instructions on the procedure for their execution, are formatted in an enlarged font,
 - special textbooks, teaching aids, and didactic materials (having a large font or audio files), individual uniform lighting of at least 300 lux,
- if necessary, a magnifying device is provided to the student to complete the task;

2) for persons with hearing impairments:

- the presence of an assistant providing the student with the necessary technical assistance, taking into account individual characteristics (helps to take a workplace, move around, read and format the task, including writing with dictation),
- the availability of sound-amplifying equipment for collective use is ensured; if necessary, sound-amplifying equipment for individual use is provided to the student;
- provision with proper sound means of reproducing information is ensured;

3) for persons with musculoskeletal disorders (including severe motor function impairments of the upper limbs or the absence of upper limbs):

- written tasks are performed on a computer with specialized software or are dictated to an assistant;
- at the request of the student, tasks may be performed verbally.

12. Specific Features of Implementing the Discipline with the Use of Distance Learning Technologies and E-Learning

Subject to Part 1 of Article 16 of the Federal Law of December 29, 2012, No. 273-FZ On Education in the Russian Federation, e-learning shall be viewed as the arrangement of educational activities employing information contained in databases and used in the implementation of educational programs, as well as information technologies, technical means, and information and telecommunication networks that ensure the processing and transmission of the specified information via communication lines, and the interaction of students and pedagogical workers.

Remote (distance) learning technologies are understood as educational technologies implemented mainly with the use of information and telecommunication networks during the indirect (at a distance) interaction of students and pedagogical workers.

The implementation of the discipline may be carried out with distance learning technologies and e-learning in full or in part. The components of the Educational And Methodological Complex (EMC) of the discipline (working program of the discipline, assessment and methodological materials, forms of attestation) implemented with the use of distance learning technologies and e-learning contain an indication of their use.

When arranging educational activities with distance learning technologies and e-learning, asynchronous and synchronous methods of interaction between participants in educational relations via the information and telecommunications network Internet may be offered.

When using distance learning technologies and e-learning, the schedule for the discipline shall indicate: methods of interaction among participants in educational relations via the information and telecommunications network Internet (VCC – videoconferencing, ET – electronic testing); links to the electronic information and educational environment of NCFU, to educational platforms and resources of other organizations to which open access is provided via the information and telecommunications network Internet; for synchronous learning – the time of online classes and instructors; for asynchronous learning – the authors of online courses.

When arranging intermediate attestation with distance learning technologies and e-learning, the Methodological Recommendations on the use of technical means ensuring the

objective reliability of results when conducting intermediate and state final attestation for higher education educational programs – Bachelor’s Degree programs, Specialist’s Degree programs, and Master’s Degree programs with distance learning technologies are used (Letter of the Ministry of Science and Higher Education of Russia dated December 7, 2020, # MN-19/1573-AN On sending methodological recommendations).

The implementation of the discipline with the use of e-learning and distance learning technologies is carried out using the electronic information and educational environment of NCFU, to which students are provided access via the information and telecommunications network Internet, or using the resources of other organizations, including platforms providing services for videoconferencing, online meetings, and distance learning (MTS-Link), as well as using the capabilities of social networks to carry out communication between students and instructors.

The educational and methodological support for a discipline shall be ensured with e-learning and distance learning technologies includes the working program presented in electronic form, educational and methodological manuals or a course of lectures, methodological guidelines for performing various types of educational activities of students provided for by the discipline, and other educational and methodological materials posted in the information and educational environment of NCFU.