



APPROVED
EMD decision

2021

Protocol No. 5

Chairman of the EMC, Vice-Rector,
candidate of pedagogical sciences,
associate professor Apezova D.U.



SYLLABUS by discipline

B.3.4.2. SURGICAL DISEASES

For students of the educational program, higher professional education in the specialty 560001 "General Medicine" (5-year education) in the specialty "Doctor"

Type of study work	Total hours
course	3,4
Semester	6,7,8
Number of weeks	54
Credits	12
The total complexity of the discipline	360
Classroom/practical studies (PS)	216
Student Independent Work (SIW)	144
Forms of control	
current control	Testing, oral questioning, written test
Frontier control	Testing
Midterm	Testing
Final control	exam
Semester rating by discipline:	Point-rating system

Information about the teacher of the academic discipline

Full Name	Baigazakov Asylbek Topchubekovich
Job title	Teacher
Academic degree	
Academic title	
Email address	
Location of the department (address)	KR, Bishkek, st. Shabdan Baatyr 128, floor 2, room 6
Telephone	0777264xxx
Consultation hours	11.00-13.30

Characteristics of the study discipline

The purpose of the study of the discipline. In mastering the educational discipline students are invited to form a system of competencies for assimilation of theoretical foundations and practical skills on the main directions of surgical work, compliance with the rules of asepsis and antiseptics when performing surgical operations, issues of anesthesia, stopping bleeding and reimbursement of blood loss. Students acquire in-depth knowledge, skills and abilities in surgical diseases, which are necessary in the practical work of a doctor. In the process of training

Students develop an understanding of the relationship between the structure and function of human organs and tissues depending on environmental conditions, in the norm and in the presence of surgical pathology. Students are acquainted with the basics of surgical interventions in purulent-inflammatory diseases. Students should know the clinical picture, methods of diagnosis of diseases in adults and children, the International Statistical Classification of Diseases and Health Problems. Possess the skills of diagnostic search, differential diagnosis in order to establish the diagnosis of the patient in solving professional problems. By the end of the course students demonstrate the ability to conduct and interpret the data of primary and repeated examinations of the patient, justify the need and volume of laboratory, instrumental and additional methods of research in order to establish a diagnosis when solving professional problems. Demonstrate skills in interpreting results of information collection from patients (their relatives/legal representatives), laboratory and instrumental examination data; data from additional examinations of patients (including radiographs, teleradiographs, radiovisiographs, orthopantomograms, tomograms (on film and digital media). Demonstrate skills in developing a diagnostic algorithm based on gathering information from patients (their relatives/legal representatives) to establish a diagnosis when solving professional problems.

Prerequisites of the discipline:

- Faculty Therapy
- Hospital therapy
- Outpatient therapy
- Pediatric Medicine

Postrequisites of the discipline:

- Urology
- Obstetrics and Gynecology
- Family medicine
- Basics of Psychology of Communication and Medical Communication
- Coronavirus: New Challenges
- Inpatient physician assistant
- Epidemiology

Learning outcomes of the discipline according to the RE GEP

The study of the discipline of microbiology, virology, and immunology will contribute to the achievement of the Learning Outcomes (RE) of the GEP:

RE-7 - Apply deductive reasoning in solving clinical problems;

RE-12 - Develop and demonstrate the fundamentals of appropriate management strategies (preventive, diagnostic, and therapeutic) for acute and chronic conditions

The following learning outcomes of the discipline are expected to be achieved as part of the attainment of competencies:

PC-16 - able and ready to use the algorithm of diagnosis (main, concomitant, complications) taking into account ICD, perform basic diagnostic measures to identify urgent and life-threatening conditions;

PC-17 - able and ready to perform basic therapeutic measures for the most common diseases and conditions in adults and children in outpatient and inpatient settings;

Content of the discipline

№№	Name of topics
1.	Section 1. Issues of General Surgery. Surgical infection.
2.	Surgical sepsis. Intra-abdominal infection.
3.	Terminal conditions. Gangrene of the lower extremities.
4.	Benign diseases and malignant tumors of the mammary glands
5.	Burns and frostbites. Paraproctitis.
6.	Thrombosis and embolism of mesenteric vessels. Varicose illness of lower extremities. Post-thrombotic syndrome.
7.	Purulent surgery.
8.	Section 2. Thoracic surgery.
9.	Diseases of the lungs and pleura. Inflammatory diseases of the lungs and pleura.

10.	Bronchiectatic disease (concept).
11.	Pleurisy and pleural empyema: etiology, pathogenesis, clinic, diagnosis, surgical tactics, surgical treatment (puncture, drainage, thoracotomy, thoracoscopy).
12.	Diseases of the esophagus. Hernia of the esophageal orifice of the diaphragm. Trauma of the esophagus.
13.	Trauma of the thorax. Wounds of the lung. Damage to the heart. Rib fractures.
14.	Combined trauma of the thorax. Types: CMT, abdomen, skeletal. Surgical tactics.
15.	Surgery of the organs of the abdominal cavity. Surgical diseases of the stomach and 12 p.c. Gastric ulcer and 12 p.c.
16.	Polyps of the stomach. Cancer of the stomach.
17.	Surgical diseases of the intestine. Ulcers of the small intestine. Benign tumors of the duodenum. Acute intestinal obstruction. Acute appendicitis.
18.	Surgical diseases of the liver and bile ducts. Surgical liver diseases. Parasitic diseases of the liver. Liver abscesses. Acute cholecystitis.
19.	Traumas of the abdomen. General information. Epidemiology. Classification. Dependence of trauma on the injuring object. Combined trauma of abdomen and skull, abdomen and chest, abdomen and musculoskeletal system.
20.	General doctrine of hernias. Classification. Epidemiology. Etiology. The components of hernia. Symptomatology, diagnosis. Prevention. Surgical treatment. Postoperative period. The results of treatment. Complications. Irregular hernia. Strangulated hernia. Mechanism of impingement. Pathological and anatomical changes. Clinical picture. Complications. Diagnosis. Treatment. Peculiarities of surgical intervention.
21.	Foreign bodies of the gastrointestinal tract. Surgery of foreign bodies. Diagnosis. Complications caused by foreign bodies of the gastrointestinal tract. Treatment.
22.	Traumatic damage to the rectum and perineum. Classification. Clinic. Diagnosis. Surgical treatment. Indications for primary suturing wounds of the rectum and perineum. Indications for colostomy formation. Intraoperative and postoperative complications: early and late. Prevention of complications.
23.	Surgery of endocrine system organs. Surgical treatment of thyroid disease. Endemic goiter.
24.	Diabetes mellitus. Insuloma.
25.	Surgical treatment of diseases of the adrenal glands. Tumor of the medullary layer of the adrenal gland. Tumors of the cortical layer of the adrenal gland. Addison's disease.
26.	Diseases and injuries of the blood vessels. Diseases of the venous system. Varicose veins disease. Phlebitis, thrombophlebitis.
27.	Diseases of the arterial system.
28.	Damages of blood vessels. Clinical diagnosis. X-ray contrast study (arteriography, venography). Functional diagnostics. General principles of treatment of blood vessel injuries. Methods of temporary stop bleeding. Hemorrhagic shock treatment. Surgical accesses to the main arteries and veins (neck, chest, upper extremity, pelvis, lower extremity). Indications for vascular ligation. Determination of indications for the restoration of vascular patency. Restoration of vascular patency. Circular vascular suture. Lateral vascular suture. Restoration of permeability of an artery at the expense of its lateral branch. Transplantation and prosthetics of vessels. Vascular bypass grafting. Complications during surgery. Postoperative management. Examination of the ability to work.
29.	Diseases of the lymphatic system of the extremities. Lymphedema. Etiology. Pathogenesis. Clinic, diagnostics. Treatment: conservative, surgical. Dispensary treatment of patients. Lymphangiitis. Etiology. Pathogenesis. Clinic, diagnostics. Treatment. Prophylaxis. Lymphadenitis. Etiology. Pathogenesis. Clinic, diagnostics. Treatment. Prophylaxis

List of main and additional literature:

Main Literature:

Surgical diseases: [textbook for higher professional education] / [M.I. Kuzin, P.S. Vetschev, V.N. Kasyan et al.]; ed. by M.I. Kuzin. - 4-th ed., revised and extended - Moscow: GEOTAR-Media, 2017.

Additional literature:

1. Surgical diseases: [textbook for universities]: in 2 vol. T. 1 / ed. by V. C. Savelyev, A.I. Kirienko. - Moscow: GEOTAR-Media, 2014.
2. Traumatology: national hand. / [O. E. Agranovich et al.]; ed. by G. P. Kotelnikov, S. P. Mironov. - 2nd ed. revised. and supplement. - Moscow: GEOTAR-M.

3. Oncology: National hand. 7. Oncology: national handbook [in Russian] / [T.A. Fedorova et al. I. Chissov, M.I. Davydov. - Moscow: GEOTAR-Media, 2013.
4. Surgical diseases: [textbook for higher professional education]: in 2 vol. T. Merzlikin N.V., Brazhnikova N.A., Alperovich B.I., Tskhai V.F. - Moscow: GEOTAR-Media, 2012.

Internet-resources:

<http://marc.rsmu.ru:8020/marcweb2/Default.asp>
<http://www.edu.ru>
<http://www.medicina.ru>
[http //www.journals.uchicago.edu/JAD/home.html](http://www.journals.uchicago.edu/JAD/home.html)

Monitoring and evaluation of learning outcomes

The content of the rating system for assessing student performance

The rating assessment of students' knowledge in each academic discipline, regardless of its total labor intensity, is determined on a 100 (one hundred) - point scale and includes current, boundary, intermediate and final control.

The distribution of rating scores between types of control is established in the following ratio (according to the table of the score-rating system of assessments):

Form of control				
current (CC)*	boundary control (BC)**	mid-term exams (MC)***	Final /exam (FE)	Discipline Rating (RD)
0-100 points	0-100 points	0-100 points	0-100 points	0-100 points, with the translation of points into a letter designation

Note:

* $TK(middle) = \frac{\sum_1^n \times point}{\sum_1^n}$, where n is the number of types of classroom and extracurricular work of students in the discipline;

** $PK(middle) = \frac{\sum_1^n credit \times point}{\sum_1^n credits}$, where n is the number of modules (credits) in the discipline;

*** $PK(middle) = \frac{\sum_1^n \times point}{\sum_1^n}$, where n is the number of intermediate controls (2 controls per semester: in the middle and at the end of the semester) by discipline;

****ИК – examination conducted at the end of the study of the discipline

;

*****РД = $\frac{TK_{ср} + PK_{ср} + PK_{ср} + ИК}{4}$, the final rating of the results of all types of control at the end of the discipline;

GPA = $\frac{\sum_1^n \times балл}{\sum_1^n}$ where, n is the number of disciplines in the semester (for the past period of study).

A student who has not passed the current, boundary and intermediate controls to the final control (exam) is not allowed.

The current control is carried out during the period of classroom and independent work of the student on time according to the schedule, at the end of the study of the discipline, the average score of the current control (CC) is calculated. *Forms of current control can be:*

- testing (written or computerized);
- performance of individual homework assignments, abstracts and essays;
- student's work in practical (seminar) classes;
- various types of colloquia (oral, written, combined, express, etc.);
- control of performance and verification of reporting on laboratory work;
- visiting lectures and practical (seminar, laboratory) classes;
- Incentive rating (up to 10 points).

Other forms of current monitoring of results are also possible, which are determined by the teachers of the department and recorded in the work program of the discipline.

The frontier control is carried out in order to determine the results of the student's development of one credit (module) as a whole. *Frontier control* should be carried out only in writing, at the end of the study

of the discipline, the average score of boundary control (BC) is calculated. As forms of *frontier control* of the training module, you can use:

- testing (including computer testing);
- interview with written fixation of students' answers;
- test.

Other forms of intermediate control of results are also possible.

Intermediate control (mid-term exams) is carried out in order to check the completeness of knowledge and skills in the material in the middle and end of the semester (2 times per semester) of studying the discipline, by the end of the study of the discipline, the average score of intermediate control (PCsr) is calculated, *forms of intermediate control (mid-term exams) can be:*

- testing (including computer testing);
- interview with written fixation of students' answers;
- test.

Other forms of intermediate control of results are also possible.

The final control is carried out during the session, by conducting an exam, it can be carried out in the following forms:

- testing (including computer testing);
- written exam (ticketing system).

Correspondence of the point-rating system of assessments used by the institute and the assessments of the European system for the transfer of credit units, labor intensity (ECTS)

Grade						Criterion
System of letters	digital system	Traditional system	Points (%)	Scored points (max - 100)	Evaluation by discipline without an exam	
A	4	5	95-100	95-100	Credited/ passed	"Excellent" - deserves a student who has shown a deep, systematic and comprehensive knowledge of the educational material, who freely performs practical tasks, who has mastered the recommended basic and additional literature on the discipline
A-	3,67		90-94	90-94		"Excellent" - deserves a student who has shown a deep, systematic and comprehensive knowledge of the educational material, who freely performs practical tasks, who has mastered the recommended basic literature on the discipline, but is not familiar with additional literature
B+	3,33	4	85-89	70-89		"Good" - exhibited to a student who has shown a systematic and comprehensive knowledge of the educational material, able to independently replenish and update this knowledge in the course of training, performing practical tasks, familiar with the main literature on the discipline
B	3,0		80-84			"Good" is given to a student who has shown a systematic and comprehensive knowledge of the educational material, who is able to independently replenish this knowledge in the course of training, performing practical tasks, but not fully familiar with the main literature on the discipline
B-	2,67		75-79			"Good" - is given to a student who has shown the systematic nature of knowledge in the discipline, who is able to independently replenish this knowledge in the course of training, performing practical tasks, but not fully familiar with the main literature on the discipline
C+	2,33		70-74			"Satisfactory" - is given to a student who does not have a systematic nature of knowledge in the discipline, who is not capable of independently replenishing and updating knowledge in the course of further education, performing practical tasks with errors
C	2,0	3	65-69	50-69		"Satisfactory" - is given to a student who made mistakes in completing assignments, but who has the necessary knowledge to eliminate them under the guidance of a teacher
C-	1,67		60-64			"Satisfactory" - is set to a student who made errors in the performance of tasks, but who has the possible knowledge to eliminate them under the guidance of a teacher
D+	1,33		55-59			"Satisfactory" - is set to a student who made errors in the performance of tasks, who does not have the necessary knowledge to eliminate them
D-	1,0		50-54			Satisfactory" - is given to a student who has made significant errors in the performance of tasks, who does not have the necessary knowledge to eliminate them
FX	0,5	2	25-49	Less of 50	not credited/not passed	"Unsatisfactory" - is set to a student who has not completed the task, does not have the necessary knowledge to eliminate them

F	0		0-24		"Unsatisfactory" - is set to a student who has not completed the task, does not have the necessary knowledge to eliminate them, even under the guidance of a teacher
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Academic achievement requirements:

Attendance by students of all classroom classes without delay is mandatory.

In case of absence, classes are worked out in the order established by the dean's office.

If there are three passes, the teacher has the right not to allow the student to attend classes until the issue is administratively resolved.

If the absence of classes is more than 20.0% of the total number of classes, the student automatically enters the summer semester.

Note to the student:

- ✓ regularly review lecture material;
- ✓ Do not be late and do not miss classes;
- ✓ work off missed classes if you have permission from the dean's office;
- ✓ Actively participate in the classroom (individually and in groups;)
- ✓ timely and fully complete homework assignments;
- ✓ submit all assignments within the time specified by the teacher;
- ✓ independently study the material in the library and at home;
- ✓ timely and accurately fulfill the tasks of the teacher, individual tasks for the IWS to achieve learning outcomes;
- ✓ to master the basic and additional literature necessary for the study of the discipline;
- ✓ performing tasks, the student should not copy or reproduce the work of other students, scientists, practitioners, plagiarism;
- ✓ develop their intellectual and oratory skills;

In case of non-compliance with the requirements of the Memo, the student will be penalized in the form of deducting points (one point for each violated item).

If the requirements of the Memo are fully met, the student is encouraged in the form of an additional 10 points to the final control in the discipline.

Academic Integrity, Conduct and Ethics Policy:

- turn off your cell phone during class;
- Be polite;
- respect other people's opinions;
- formulate objections in the correct form;
- do not shout or raise your voice in the audience;
- independently complete all semester assignments;
- Eliminate plagiarism from your practice;

Methodical instructions.

It is recommended to organize the time required to study the discipline as follows:

When preparing for a practical lesson, you must first read the abstract with the teacher's explanations.

When performing exercises, you must first understand what you want to do in the exercise, then proceed to its implementation.

Literature work. The theoretical material of the course becomes more understandable when books are studied in addition to the abstract. After studying the main topic, it is recommended to perform several exercises.

Preparation for boundary and intermediate controls. In preparation for the boundary and intermediate control, it is necessary to study the theory: the definitions of all concepts before understanding the material and independently do several exercises.

Independent work of students is organized on all studied topics of each section. Independent work is carried out in the form of:

- work in Internet sites;
- work with basic and additional literature;
- fulfillment of written assignments;
- preparation of reports, abstracts, tables and posters on