

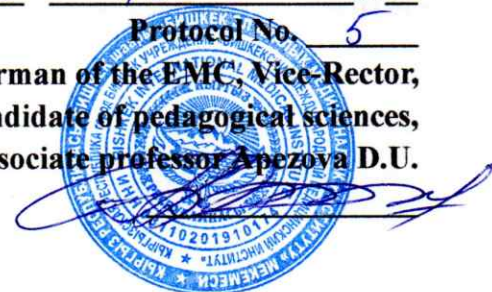


APPROVED  
EMD decision

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Protocol No. 5

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



## SYLLABUS by discipline

### CC.3.8.19. TOPOGRAPHIC ANATOMY

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
Semester	5
Number of weeks	18
Credits	2
<i>The total complexity of the discipline</i>	60
Classroom/practical studies (PS)	36
Student Independent Work (SIW)	24
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	Kalybekov Tugolai Nuralievich
Post	teacher
Academic degree	-
Academic title	-
Email address	-
Location of the department (address)	KR, Bishkek, st. Shabdan Baatyr 4/4, floor 2
Telephone	0707896xxx
Consultation hours	11.00-13.00

### Characteristics of the academic discipline

**The purpose of studying the discipline:** The acquisition of scientific knowledge about human topographic anatomy and the application of this knowledge to justify and perform medical manipulations and surgical interventions. Topographic anatomy is an applied science that combines the theory and practice of medicine, which studies the mutual location and relationship of organs and tissues in the areas of the human body. During the course of the discipline, each student acquires specific topographic and anatomical knowledge necessary to substantiate the diagnosis, understanding the pathogenesis of the disease, possible complications, mechanisms of development, compensatory processes, as well as choosing the most rational methods of surgical treatment. The objectives of the study are to study the topographic anatomy of areas

and organs; to develop the skills to apply the acquired knowledge to explain the features of the course of pathological processes, to solve diagnostic and surgical tasks.

Students develop practical skills based on knowledge of the layered structure of areas of the human body during various therapeutic manipulations and operative access to organs for the diagnosis of diseases. At the end of the course of study, students can form a system of basic, fundamental knowledge of topographic anatomy and operative surgery; anatomical and topographic relations of body areas that are particularly important in clinical terms. Students know the medical and anatomical conceptual apparatus, the structure of the human body, the general laws of the origin and development of life, anthropogenesis and ontogenesis of man, the basic laws of the development and vital activity of the human body. They can make anatomical preparations; analyze anatomical and abnormal variants of the structure of organs; interpret the results of X-ray and CT examination.

#### Discipline Prerequisites:

- Basic pharmacology
- Propedotherapy
- Endocrinology
- Childhood illnesses
- Outpatient pediatrics
- General hygiene
- Bioethics
- Ophthalmology
- ENT diseases
- Dentistry

#### Postrequisites of the discipline:

- Medical parasitology
- Evidence-based medicine
- Hematology
- Hospital therapy
- Surgical diseases
- Obstetrics and gynecology

#### Learning outcomes of the discipline according to the RO GPP

The study of the subject endocrinology will contribute to the achievement of RE OOP:

**RE-1:** describe and distinguish between the normal structure (morphology) and function (physiology) of the organism as a whole, organs and systems, as well as pathological changes that are observed in various diseases and conditions.

The achievement of RE-1 is realized by the acquisition of competencies by the graduate, i.e. his ability to apply knowledge, skills and personal qualities in accordance with the tasks of professional activity - PC-17.

**PC-15** is able and ready to analyze the patterns of functioning of individual organs and systems, use knowledge of anatomical and physiological features, basic methods of clinical and laboratory examination and assessment of the functional state of the body of an adult and children, for timely diagnosis of diseases and pathological processes;

#### Content of the discipline

№№	Name of topics
1.	Topographic anatomy of the upper arm. Projection lines of vessels and nerves of these areas. - Topographic anatomy of the shoulder. Projection lines of vessels and nerves of these areas.
2.	Topographic anatomy of the forearm and hand. Projection lines of vessels and nerves of these areas. - Topographic anatomy of the lower limb
3.	Topographic anatomy of the gluteal region and thigh. -Topographic anatomy of the hip and knee area.
4.	Topographic anatomy and operative surgery of the lower leg and foot. Projection lines of vessels and nerves of these areas.
5.	Surgical limb - Amputation and exarticulation of limbs.
6.	Principles of puncture, arthrotomy, resection of limb joints. Surgical treatment of inflammatory processes in the upper and lower extremities.

7.	Operations on vessels, sutures of nerves and tendons.
8.	Surgical anatomy of the head
9.	Topographic anatomy and operative surgery of the cerebral part of the head.
10.	- Operative brain surgery.
11.	Topographic anatomy of the face-Operations for purulent processes on the face.
12.	Surgical anatomy of the neck
13.	- Topographic anatomy of the neck. Access to the vessels of the neck.
14.	Topographic anatomy of the neck. Tracheostomy.
15.	Thyroid surgery.
16.	Topographic anatomy of the chest wall and operations on it.
17.	Topographic anatomy and operative surgery of the thoracic and mediastinal organs
18.	Topographic anatomy of the chest wall and operations on it.
19.	Topographic anatomy and operative surgery of the posterior mediastinum and lungs
20.	Surgical anatomy of the anterior mediastinum
21.	Topographic anatomy and operative surgery of the anterolateral abdominal wall Herniology. - Topographic anatomy of the peritoneum and abdominal organs
22.	Topographic anatomy operative surgery of the abdominal wall.
23.	Topographic anatomy of the inguinal region. Herniology. Operations for hernias.
24.	Topography of the peritoneum and its derivatives. Operations on abdominal organs. The imposition of intestinal sutures. Intestinal resection
25.	Surgical anatomy of the stomach and duodenum.
26.	Topographic anatomy of the parenchymal organs of the upper floor of the abdominal cavity.
27.	Operative surgery of parenchymal organs of the upper abdominal cavity.
28.	Topographic anatomy and operative surgery of the intestine.
29.	Topographic anatomy of the lumbar region, vertebral column, spinal cord and retroperitoneal space. Topographic anatomy of retroperitoneal organs.

### List of main and additional literature:

#### Main literature:

1. Topographic anatomy and operative surgery Nikolaev A.V. Moscow, 2019
2. Operative surgery and topographic anatomy Bolshakov O.P. St. Petersburg, 2019

#### Additional literature:

1. Operative surgery and topographic anatomy. Ostroverkhov G.E., Lubotsky D.N., Bomash Yu.M., Moscow 2015.
2. Situational tasks in operative surgery and topographic anatomy with response standards. Vladimirov V.G. Moscow RSMU 2013

#### Internet resources:

1. [https://drive.google.com/drive/u/2/folders/1iUdsijeLnQupD7\\_BJaGlhA--D1mZA2yU](https://drive.google.com/drive/u/2/folders/1iUdsijeLnQupD7_BJaGlhA--D1mZA2yU)
2. [www.studmedlib.ru](http://www.studmedlib.ru)
3. <http://aos.rsmu.ru>

### 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;

\*\*\* $ПК(middle) = \frac{\sum_1^n \times point}{\sum_1^n}$ , 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

;

\*\*\*\*\* $РД = \frac{TK_{cp} + PK_{cp} + ПК_{cp} + ИК}{4}$ , 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

**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