



APPROVED
EMD decision

2021

Protocol No. 6

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

SYLLABUS by discipline

B.3.4.7. UROLOGY

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	4
Semester	8
Number of weeks	18
credits	3
The total complexity of the discipline	90
Classroom/practical studies (PS)	54
Student Independent Work (SIW)	36
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	Turgunbayev Talaibek Esenovich
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	0550030xxx
Consultation hours	11.00-13.30

Characteristics of the academic discipline

The purpose of studying the discipline is to teach students the basic provisions of urology in various nosological forms, as well as to teach a sufficient amount of practical skills necessary for the examination and supervision of urological patients, using modern methods of diagnosis and treatment. When studying the course, students develop knowledge, skills and abilities aimed at solving problems related to diseases of the genitourinary system by providing appropriate quality qualified care. Practical skills on methods of examination of patients with diseases of the genitourinary system are being improved.

Knowledge on etiology, pathogenesis, clinic, differential diagnosis, treatment and rehabilitation of patients with diseases of the genitourinary system is consolidated. Students are taught to predict the development of complications and emergency conditions, in various diseases of the genitourinary system, to prescribe treatment in accordance with modern standards of urological care, taking into account an individual approach to the patient and the basics of evidence-based medicine. Students develop practical skills and experience in emergency care and resuscitation in patients with diseases of the genitourinary system.

At the end of the course, students can demonstrate the skills of examination of a urological patient, including questioning, examination, palpation (including finger rectal examination of the prostate gland), percussion, auscultation; they can also interpret the data of laboratory research methods (clinical blood analysis, biochemical blood analysis, the concentration level of prostatic specific serum antigen, its variants and molecular forms, general urine analysis, bacteriological urine analysis, spermogram, microscopy of prostate secretions, etc.); perform and interpret the results of functional renal tests; apply instrumental methods of examination and treatment (bladder catheterization, urethral augmentation); results of urodynamic methods of examination (uroflowmetry, profilometry, cystomanometry, pressure/flow study); results of endoscopic methods of examination and treatment (urethroscopy, cystoscopy, ureter catheterization, chromocystoscopy, bladder biopsy); interpret the results of X-ray examination methods (overview urography, excretory urography, descending cystography, retrograde ureteropyelography, retrograde cystography, Bergman cystography, Kneise-Schober cystography, computed X-ray tomography).

Prerequisites of the discipline:

- Biology with elements of ecology
- Chemistry
- General and clinical biochemistry
- Normal anatomy
- Histology, Embryology, cytology
- Normal physiology
- Microbiology, Virology and Immunology
- Basic pharmacology
- Pathological physiology
- Propedotherapy

Post-requisites of the discipline:

- Fundamentals of clinical examinations in internal diseases
- Fundamentals of clinical examinations in pediatrics
- Anesthesiology, intensive care, emergency conditions

Learning outcomes of the discipline according to the RO GPP

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

RE-8 – Interpret, analyze and evaluate data from clinical, laboratory and instrumental diagnostic methods, make a treatment plan, including emergency care, taking into account urgent and priority signs of the disease.

The achievement of RE-8 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-16, PC-17

Within the framework of this discipline, the following results of discipline training are expected to be achieved, which are implemented within the framework of achieving competencies:

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

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

Content of the discipline

№№	Name of topics
1.	Section 1. Semiotics of urological diseases and methods of examination. Inflammatory diseases of the urinary system
2.	Nonspecific inflammatory diseases of the upper parts of the genitourinary system.

3.	Familiarization with the clinic. Semiotics and the main syndromes of damage to the organs of urination and urination.
4.	Familiarization with the clinic. Semiotics and the main syndromes of damage to the organs of urination and urination.
5.	Laboratory, instrumental and radiological research methods.
6.	Laboratory, instrumental and radiological research methods.
7.	Nonspecific inflammatory diseases of the lower parts of the genitourinary system.
8.	Nonspecific inflammatory diseases of the genitourinary system.
9.	Anomalies of the development of the upper parts of the genitourinary system.
10.	Specific inflammatory
11.	diseases of the genitourinary system.
12.	Section 2. Urolithiasis. Injuries, tumors and abnormalities of the urinary system.
13.	Anomalies of the development of the lower parts of the genitourinary system.
14.	Anomalies of the genitourinary system
15.	Anomalies of the genitourinary system.
16.	Trauma of the genitourinary system.
17.	Injuries of the genitourinary system.
18.	Urolithiasis.
19.	Urolithiasis.
20.	Injuries of the genitourinary system. Urolithiasis.
21.	Tumors of the kidneys, ureters and bladder, urethra.
22.	Tumors of the kidneys, ureters and bladder. Tumors of the prostate gland, organs of the scrotum, penis.
23.	Tumors of the kidneys, ureters and bladder. Tumors of the prostate gland, organs of the scrotum, penis.
24.	Prostate adenoma. Prostate cancer.
25.	Prostate adenoma.
26.	Prostate cancer
27.	Nephroptosis.

List of main and additional literature:

Main literature:

Urology: national manual / Assoc. med. about quality; I. I. Abdullin et al.; edited by N. A. Lopatkin. - M.: GEOTAR-Media, 2019

Additional literature:

1. Razin M. P. Pediatric urology – andrology: M. P. Razin, V. N. Galkin, N. K. Sukhoi. – Moscow: GEOTAR-Media, 2014.
2. Urology: [study. for higher Prof. education] / [N. A. Lopatkin, A. A. Kamalov, O. I. Apolikhin, etc.]; edited by N. A. Lopatkin. – 7th ed., reprint. and additional – Moscow: GEOTAR-Media, 2012.
3. Urology: [textbook for higher professional education] / [H. M. Ali, Yu. G. Alyaev, G. N. Hakobyan et al.]; edited by P. V. Glybochko, Yu. G. Alyaev. - 3rd ed., reprint. and add. - Moscow: GEOTAR-Media, 2014.

Internet resources:

<http://books-up.ru>.
<http://marc.rsmu.ru:8020/marcweb2/Default.asp>.
<http://www.edu.ru>
<http://www.medicina.ru>
<http://www.infectology.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;

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

;

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

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