Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Стегний Кирилл Владимирович
Должность: И.о. ректора
Дата подписания: 02.07.2026 11:45:32
Уникальный программный ключ:
d59234ba928aea5c04c54eb9013e367220b6b2ae

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

APPROVED BY

Director of the Institute of Surgery
_____ / Kostiv E.P.
"4th" of April 2025

SUBJECT GUIDE FOR TEACHERS AND STUDENTS FOR

Б1.О.44 Urology

(Name of discipline)

Specialty	**31.05.01 General Medicine for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system)
Mode of study	**Full-time**
Period of mastering the BEP	**6 years** (nominal length of study)
Institute	of Surgery

Vladivostok, 2025

Subject guide for teachers and students for **Б1.О.44 Urology** is based on:

1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia, Report No. 8/24-25 dated March 31, 2025.

Subject guide for teachers and students for **Б1.О.44 Urology** was developed by the writing team of the Institute of Surgery of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the institute, Doctor of Medical Sciences, Professor Kostiv E.P.

Developed by:

Professor	Doctor of Medical Sciences	Danilov V.V.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

Subject guide for **Б1.О.44 Urology** is a set of recommendations and explanations that facilitate to optimal organization of mastering this discipline.

Regular analysis of lecture materials and work with end-of-the-text questions are necessary for better understanding of the material and systematization of knowledge of **Б1.О.44 Urology**. Particular attention should be paid to emerging questions, confusing terms, and conflicts of points of view during the independent review of the lecture material. If necessary, a student should contact the teacher for advice. Lecture material streamlines students' thinking, while practical classes provide deeper insight into the material of the discipline.

Special attention should be paid to the content of the main provisions and conclusions, explanation of phenomena and facts, and clarification of the practical application of theoretic aspects of topic when preparing for a practical class. During this process students should aim to understand and remember the main provisions of the material under consideration, examples provided, as well as understand the illustrative material.

Collections of assessment tools are used to organize independent study of topics of **Б1.О.44 Urology**.

Independent work of students is facilitated by the following:

1. availability and accessibility of the necessary educational and reference material;
2. a system of regular quality control of completed independent work;
3. availability of teacher's advice.

Subject guides for self-study are presented as literary sources. Subject guides for independent work of students include a list of library resources of the educational institution and other materials accessible to students.

Independent work is a type of in-person extracurricular work of teachers and students of **Б1.О.44 Urology**. Control of independent work is conducted by the leading teacher. Evaluation of independent work results is taken into account when conducting interim examination of students throughout the **Б1.О.44 Urology** course.

Continuous assessment during **Б1.О.44 Urology** course is implemented in order to check indicators of achieving competencies, to stimulate students' academic work, and improve methods of mastering new knowledge. Continuous assessment during **Б1.О.44 Urology** course is conducted during the semester to assess all types and sections of the academic discipline that encompass the competencies developed by the discipline: classroom questioning, conducting discussions, working with tests, and preparing reports. Continuous assessment of students' knowledge and results of their preparation for practical classes is conducted during every class session.

Interim assessment aims to determine the level of mastery of competency indicators. It is conducted in the exam format after the student has mastered all sections of **Б1.О.44 Urology** and takes into account learning outcomes for all types of student work over the entire period of mastering **Б1.О.44 Urology** course.

Time allotted for interim assessment is indicated in the schedule.

Assignments given during practical classes, as well as assignments aimed to prepare students for continuous and interim assessment, are included in the collection of assessment tools for **Б1.О.44 Urology**. If necessary, students should contact the teacher for advice. It is necessary to thoroughly think over questions that need clarification before seeking teacher's advice.

2. SUBJECT GUIDES FOR LECTURE CLASSES

Table 1. Subject Guides for **Б1.О.44 Urology** Lectures

Topic No.1 Organization of urological medical aid. Theory basis of clinical urology	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about the main concepts and definitions; 2. define organization of urological medical aid and theory basis of clinical urology.	
Recommended literature Essential reading: 1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018 2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014 3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013 Supplementary reading: 1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru 2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru 3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru	
Topic No.2 Renal colic. Acute urinary retention. Hematuria. Anuria	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about the main concepts and definitions; 2. define renal colic, acute urinary retention, hematuria, anuria; 3. analyse examination and treatment methods in patients with renal colic, acute urinary retention, hematuria, anuria.	
Recommended literature Essential reading: 1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018 2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014 3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013 Supplementary reading: 1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru 2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru 3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru	
Topic No.3 Injury of the urinary bladder. Injury of the urethra. Injury of the organs of the scrotum and the penis. Injury of the kidney. Injury of the ureter	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about the main concepts and definitions; 2. define injury of the urinary bladder and injury of the urethra;	

3. analyse examination and treatment methods in patients with injury of the urinary bladder or injury of the urethra.

Recommended literature
Essential reading:
1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:
1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru
2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.4 Calculi of the kidney and the ureter. Calculi of the urinary bladder

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about the main concepts and definitions;
2. define calculi of the kidney and the ureter;
3. analyse examination and treatment methods in patients with calculi of the kidney and the ureter.

Recommended literature
Essential reading:
1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:
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2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.5 Nonspecific inflammatory diseases of the organs of the urinary system

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about the main concepts and definitions;
2. define nonspecific inflammatory diseases of the organs of the urinary system;
3. analyse examination and treatment methods in patients with nonspecific inflammatory diseases of the organs of the urinary system.

Recommended literature
Essential reading:
1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:

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2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.6 Benign prostatic hyperplasia (BPH). Prostate cancer

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about the main concepts and definitions;
2. define benign prostatic hyperplasia (BPH);
3. analyse examination and treatment methods in patients with benign prostatic hyperplasia (BPH).

Recommended literature
Essential reading:
1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:
1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru
2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.7 Lesions of the kidney. Lesions of the urinary bladder

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about the main concepts and definitions;
2. define lesions of the kidney;
3. analyse examination and treatment methods in patients with lesions of the kidney or lesions of the urinary bladder.

Recommended literature
Essential reading:
1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:
1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru
2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

3. SUBJECT GUIDES FOR PRACTICAL CLASSES

Table 2. Subject Guides for Practical **Б1.О.44 Urology** Classes

Topic No.1 Organization of urological medical aid	
Duration of the practical class (in academic hours):	6
Purpose of the practical class: 1. consolidate acquired knowledge on theory basis of clinical urology; basics of surgical anatomy, clinical physiology, and pathophysiology of the urinary system; semiotics; diagnostic methods in urology.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.	
Independent work of the student: writing a research paper. Preparing a summary of the lecture. Working with educational literature.	
Methods of evaluation of acquired knowledge and skills: conducting discussions, classroom questioning, tests.	
Recommended literature Essential reading: 1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018 2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014 3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013 Supplementary reading: 1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru 2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru 3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru	
Topic No.2 Renal colic. Acute urinary retention	
Duration of the practical class (in academic hours):	6
Purpose of the practical class: 1. consolidate acquired knowledge on hematuria; anuria; injury of the urinary bladder; injury of the urethra; injury of the organs of the scrotum and the penis; injury of the kidney; injury of the ureter.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.	
Independent work of the student: writing a research paper. Preparing a summary of the lecture. Working with educational literature.	
Methods of evaluation of acquired knowledge and skills: conducting discussions, classroom questioning, tests.	
Recommended literature Essential reading: 1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018 2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014 3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013	

Supplementary reading:

1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru
2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.3 Calculi of the kidney and the ureter. Calculi of the urinary bladder

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on the main aspects of calculi formation.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: writing a research paper. Preparing a summary of the lecture. Working with educational literature.

Methods of evaluation of acquired knowledge and skills: conducting discussions, classroom questioning, tests.

Recommended literature
Essential reading:

1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:

1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru
2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.4 Nonspecific inflammatory diseases of the organs of the urinary system

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on pyelonephritis; paranephritis; nephroptosis; acute and chronic cystitis; acute prostatitis; chronic prostatitis; acute nonspecific urethritis; epididymitis.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: writing a research paper. Preparing a summary of the lecture. Working with educational literature.

Methods of evaluation of acquired knowledge and skills: conducting discussions, classroom questioning, tests.

Recommended literature
Essential reading:

1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”,

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3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.5 Benign prostatic hyperplasia (BPH). Prostate cancer

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on diagnosis and treatment of benign prostatic hyperplasia (BPH).

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: writing a research paper. Preparing a summary of the lecture. Working with educational literature.

Methods of evaluation of acquired knowledge and skills: conducting discussions, classroom questioning, tests.

Recommended literature

Essential reading:

1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
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Supplementary reading:

1. Urology [Electronic resource] textbook / S.Kh. Al-Shukri, V.N. Tkachuk - http://studmedlib.ru
2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

Topic No.6 Lesions of the kidney. Lesions of the urinary bladder

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on methods of diagnosis and treatment of lesions of the kidney and urinary bladder.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: writing a research paper. Preparing a summary of the lecture. Working with educational literature.

Methods of evaluation of acquired knowledge and skills: conducting discussions, classroom questioning, tests.

Recommended literature

Essential reading:

1. Urology: textbook for universities / B.K. Komyakov - “GEOTAR-Media”, 2018
2. Urology: textbook for universities / P.V. Glybochko, Yu.G. Alyaev - “GEOTAR-Media”, 2014
3. Urology: national edition / N.A. Lopatkin - “GEOTAR-Media”, 2013

Supplementary reading:

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2. Urology [Electronic resource] textbook / B.K. Komyakov - http://studmedlib.ru
3. Urology. Illustrated practical guide [Electronic resource] textbook / Yu.G. Alyaev, N.A. Grigoriev - http://studmedlib.ru

4. GUIDELINES FOR CONTINUOUS AND INTERIM ASSESSMENT

Table 3. Guidelines for Conducting Continuous and Interim Assessment during **Б1.О.44 Urology** Course

Type of assessment	Assessment format
Continuous assessment	- conducting and evaluating oral quizzes during practical classes; - assessment and evaluation of completion and results of assignments given during practical classes; - assess and evaluate completion and results of individual assignments and exam tasks given during practical classes; - assessment and evaluation of lecture notes quality.
Interim certification	is conducted in oral exam format; it allows to assess the development of students' competencies correlating with types of professional activity.

5 ASPECTS OF THE IMPLEMENTATION OF THE COURSE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

5.1. Availability of accessible environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant, buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

5.2. Compliance with general requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

5.3. Availability of the internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia to students with disabilities in a form accessible to them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a form accessible to them.

5.4. Increase in the duration of interim assessment of students with disabilities and special needs in relation to the established duration

Format of the interim assessment of academic performance within the scope of the discipline for students with disabilities and special needs is selected taking into account individual characteristics (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours

6. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the 31.05.01 General Medicine for international students (in English) specialty; list of the aforementioned personnel is available on the website of the educational organization.