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ФИО: Ястребов Олег Александрович
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**Federal State Autonomous Educational Institution of Higher Education
"Peoples' Friendship University of Russia"**

Medical Institute

(name of the main educational unit (PMO) - the developer of the postgraduate program)

**Department of urology and Operative Nephrology with a Course of
Oncourology**

(name of the basic educational unit (BUE) - the developer of the postgraduate program)

WORKING PROGRAM OF THE DISCIPLINE

Urology : Modern trends in evaluation and treatment of urological diseases

(name of discipline/module)

Scientific specialty:

3.1.13 Urology

(code and name of scientific specialty)

The development of the discipline is carried out as part of the implementation of the postgraduate program:

Urology : Modern trends in evaluation and treatment of urological diseases

(name of postgraduate program)

1. THE PURPOSE OF MASTERING THE DISCIPLINE

The purpose of mastering the discipline " Urology: Modern trends in evaluation and treatment of urological diseases»

is the preparation for passing candidate exams, as well as the development of in-depth knowledge and the acquisition of professional competencies of a researcher in the field of urology. This research program enables the candidate to progress their understanding of urology to an advanced level and to contribute to the progression of research in this specialist field.

Discipline tasks:

- in-depth study of theoretical, methodological, clinical and medical and social foundations in the field of discipline " Urology»;
- formation and improvement of professional training of a urologist with clinical thinking, well-versed in complex pathology, having in-depth knowledge of related disciplines;
- formation of skills in mastering the latest methods of diagnostics and treatment in the field of urology;
- the formation of skills and abilities of independent research and teaching activities in the field of discipline " Urology ".

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

Mastering the discipline " Urology: Modern trends in evaluation and treatment of urological diseases»

is aimed at preparing for the candidate's examinations, as well as mastering the following competencies:

As a result of studying the discipline, the graduate student must:
know:

- etiology, pathogenesis, diagnosis, differential diagnosis, treatment, prevention of major diseases of the urological system;
- standards of diagnostics and treatment in urology;

able to:

- after a survey and physical examination, determine the need to prescribe the main methods of laboratory and instrumental diagnostics;
- analyze the results obtained in accordance with the clinical situation;
- outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result;
- provide assistance in case of emergency and life-threatening diseases and conditions;
- conduct modern treatment of major urological diseases.

own:

- algorithm for diagnosis and differential diagnosis of major urological diseases;
- skills in performing and interpreting the main instrumental methods of research in urology (EchoCG , ECG, ABPM, HM-ECG, ultrasound of the lungs);

- the main medical diagnostic and therapeutic measures for the provision of first aid in emergency and life-threatening conditions

3. VOLUME OF DISCIPLINE AND TYPES OF EDUCATIONAL WORK

The total complexity of the discipline " Urology: Modern trends in evaluation and treatment of urological diseases» is 4 credits (144 hours).

Table 4.1. Types of educational work by periods of mastering the postgraduate program

Type of study work	TOTAL, ac.h.	Course			
		1	2	3	
<i>Contact work, ac.h.</i>	60		60	-	-
including:					
Lectures (LL)	30		30	-	--
Laboratory work (LW)					
Practical/seminar classes (SP)	30		30	-	-
<i>Independent work of students, ac.h.</i>	48		48	-	-
<i>Control (credit with grade), ac.h.</i>	36		36	-	-
Total labor input of the discipline	acc.h.	144	144	-	-
	credit	4	4	-	-

5. CONTENT OF THE DISCIPLINE

Table 5.1. The content of the discipline (module) by type of educational work

Name of the discipline section	Contents of the section (topic)	Type of study work
Section 1. Acute pyelonephritis	Topic 1.1. Acute pyelonephritis is a potentially organ- and/or life-threatening infection that often leads to renal scarring. Timely diagnosis and management of acute pyelonephritis has a significant impact on patient outcomes	LK, SZ, SR
Section 2. Acute and chronic prostatitis.	Topic 2.1 Prostatitis is an infection or inflammation of the prostate gland that presents as several syndromes with varying clinical features. Acute prostatitis and chronic bacterial prostatitis are defined by documented bacterial infections of the prostate and are treated with antibiotic therapy and supportive care.	LK, SZ, SR
Section 3. Urinary tract infections in males.	Topic 3.1 Urinary tract infections are rare in adult males younger than 50 years but increase in incidence thereafter. Owing to the normal male urinary tract's many natural defenses to infection,	LK, SZ, SR

Name of the discipline section	Contents of the section (topic)	Type of study work
	many experts consider urinary tract infections in males, by definition, to be complicated (ie, more likely to be associated with anatomic abnormalities, requiring surgical intervention to prevent sequelae).	
Section 4. Hydronephrosis.	Topic 4.1. Hydronephrosis is common clinical condition encountered not only by urologists but also by emergency medicine specialists and primary care physicians. Hydronephrosis is defined as distention of the renal calyces and pelvis with urine as a result of obstruction of the outflow of urine distal to the renal pelvis.	LK, SZ, SR
Section 5. Bladder cancer.	Topic 5.1. Bladder cancer is a common urologic cancer. Almost all bladder cancers originate in the urothelium, which is a 3- to 7-cell mucosal layer within the muscular bladder. Bladder cancer has the highest recurrence rate of any malignancy. Although most patients with bladder cancer can be treated with organ-sparing therapy, most experience either recurrence or progression, creating a great need for accurate and diligent surveillance	LK, SZ, SR
Section 6. Urothelial tumors of the renal pelvis and ureters	Topic 6.1. Urothelial tumors of the renal pelvis and ureters (upper urinary tract) are relatively rare. Tumors of the renal pelvis account for approximately 10% of all renal tumors and only 5% of all urothelial tumors of the urinary tract. Ureteral tumors occur about one half as often as tumors located in the renal pelvis.	LK, SZ, SR

6. LOGISTICS AND TECHNICAL SUPPORT OF THE DISCIPLINE

Table 6.1. Logistics of discipline

Audience type	Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. Lecture hall of the therapeutic building of the State Budgetary	A set of specialized furniture; technical means: a multimedia projector, a laptop, a plasma panel, a screen, a magnetic board, a set of dummies, a set of educational videos and presentations, a set of analog and digital radiographs, educational

Audience type	Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	Institution of Health "GKB im. V.V. Vinogradov DZM, Moscow, st. Vavilova, d. 61	posters and tables. Software: Microsoft products (OS, office suite, incl. MS Office / Office 365, Teams , Skype .
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. Lecture halls No. 1 and 2 of the therapeutic and administrative building of the State Budgetary Institution of Health "GKB im. A.K. Eramishantseva DZM", Moscow, st. Lenskaya, 15	A set of specialized furniture; technical means: a multimedia projector, a laptop, a plasma panel, a screen, a magnetic board, a set of dummies, a set of educational videos and presentations, a set of analog and digital radiographs, educational posters and tables. Software: Microsoft products (OS, office suite, incl. MS Office / Office 365, Teams , Skype .
Laboratory	Audience for laboratory and research work. Laboratory No. 545, GBUZ "GKB im. V.V. Vinogradov DZM, Moscow, st. Vavilova, d. 61	ECG, EchoCG , BIVA, VEXUS devices, fibroscan , functional diagnostics laboratory, general clinical laboratory
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations. Room No. 543 of the therapeutic building of the State Budgetary Institution of Health "GKB them. V.V. Vinogradov DZM, Moscow, st. Vavilova, d. 61	A set of specialized furniture; technical means: a multimedia projector, a laptop, a set of educational videos and presentations, a set of radiographs, an ECG, educational posters and tables. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams .
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and	A set of specialized furniture; technical means: a multimedia projector, a laptop, a set of educational videos and presentations, a set of radiographs, an ECG, educational posters and tables. Software: Microsoft products

Audience type	Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	technical means for multimedia presentations. Lecture hall No. 2 of the administrative building of the GBUZ "GKB im. A.K. Eramishantseva DZM", Moscow, st. Lenskaya, 15	(OS, office suite, including MS Office / Office 365, Teams .
For independent work of students	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	A set of specialized furniture; technical means: multimedia projector, laptop. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams .

* - the audience for independent work of students is required!

7. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE

Main literature:

1. Oncologic Imaging: Urology. Editors: Kim, Seung Hyup, Cho, Jeong Yeon (Eds.)
2. Handbook of Urology: Diagnosis and Therapy (Lippincott Williams & Wilkins Handbook Series) Third Edition. Mike B. Siroky. Lippincott Williams & Wilkins Handbook Series. 544p.
3. Campbell-Walsh Urology: 4-Volume Set, 11th Edition by Alan J. Wein. 4176 p.
4. Hinman's Atlas of Urologic Surgery: Expert Consult - Online and Print, 3rd Edition by Joseph A. Smith Jr. 1184 p.

Additional literature:

5. Urology Board Review Pearls of Wisdom, Fourth Edition 4th Edition by Stephen Leslie. 667 p.

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library Online" <http://www.biblioclub.ru>
- EBS Yurayt <http://www.biblio-online.ru>
- ELS "Student Consultant" www.studentlibrary.ru
- EBS "Lan" <http://e.lanbook.com/>
- EBS "Trinity Bridge"

2. Databases and search engines:
- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
 - Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
 - Google search engine <https://www.google.ru/>
 - abstract database SCOPUS [http:// www .elsevier.com/locate/scopus /](http://www.elsevier.com/locate/scopus/)

3. Special information resources:
1. Educational portal of the PFUR: <http://web-local.rudn.ru/web-local/kaf/rj/index.php?id=86>
 2. U.S. National Library of Medicine National Institutes of Health: <http://www.ncbi.nlm.nih.gov/pubmed/>
 3. Scientific electronic library: <http://elibrary.ru/defaultx.asp>
 4. Electronic library system of the PFUR: <http://lib.rudn.ru:8080/MegaPro/Web>
 5. IQlib <http://www.iqlib.ru>
 6. Scientific electronic library Elibrary <http://elibrary.ru>
 7. Google Academy - <http://scholar.google.ru/>
 6. <http://vak.ed.gov.ru/>

Educational and methodological materials for independent work of students in the development of the discipline/module:*

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline in TUIS!

8. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES IN THE DISCIPLINE

Evaluation materials and a point- rating system for assessing the development of the discipline are presented in the Appendix to this Work Program of the discipline "Urology: Modern trends in evaluation and treatment of urological diseases».

* - OM and BRS are formed on the basis of the requirements of the relevant local normative act of the Peoples' Friendship University of Russia.

DEVELOPERS:

Doctor of Medical Sciences, Professor

Position, BUP



Signature

Vinogradov I.V./

Surname I.O.

Docent of department

Position, BUP



Signature

Epifanova M.V.

Surname I.O.

HEAD OF BUP:

Doctor of Medical Sciences, Professor,

Corresponding Member of RAS



Kostin A.P.
