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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
named after Patrice Lumumba
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Endoscopic Urology

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

General Medicine

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course “Endoscopic Urology” is to equip students with knowledge of the main clinical manifestations of urological diseases, methods of diagnosis, differential diagnosis and treatment.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Endoscopic Urology” is aimed at the development of the following competences /competences in part: PC-1, PC-2, PC-5, PC-6.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-1	Capable of providing medical care to a patient in urgent or emergency situations	PC-1.1 Able to assess a patient's condition requiring emergency or urgent medical care; PC-1.2 Able to recognize conditions arising from sudden acute illnesses, exacerbations of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; PC-1.3 Able to provide emergency medical care to patients with sudden acute illnesses, conditions, and exacerbations of chronic diseases without obvious signs of a threat to the patient's life; PC-1.4 Able to recognize life-threatening conditions for the patient, including clinical death (cessation of vital functions of the human body (circulation and/or respiration)), requiring emergency medical care; PC-1.5 Able to provide emergency medical care to patients in life-threatening conditions, including clinical death (cessation of vital functions of the human body (circulation and/or respiration));

		<p>PC-1.6 Able to administer medications and medical devices when providing emergency or urgent medical care;</p>
<p>PC-2</p>	<p>Capable of conducting a patient examination to establish a diagnosis</p>	<p>PC-2.1: Possesses the skills to collect complaints, a patient's medical history, and conduct a full physical examination (inspection, palpation, percussion, auscultation);</p> <p>PC-2.2: Able to formulate a preliminary diagnosis and plan laboratory and instrumental examinations for the patient;</p> <p>PC-2.3: Able to refer the patient for laboratory examination if medically indicated, in accordance with current medical care procedures, clinical guidelines (treatment protocols), and standards of care;</p> <p>PC-2.4: Able to refer the patient for instrumental examination if medically indicated, in accordance with current medical care procedures, clinical guidelines (treatment protocols), and standards of care;</p> <p>PC-2.5 Refer patients for consultation with specialist physicians when medically indicated, in accordance with current medical care procedures and clinical guidelines (treatment protocols) on medical care, taking into account standards of care;</p> <p>PC-2.6 Refer patients for specialized medical care in an inpatient setting or day hospital when medically indicated, in accordance with current medical care procedures and clinical guidelines (treatment protocols) on medical care,</p>

		<p>taking into account standards of care;</p> <p>PC-2.7 Conduct differential diagnostics with other diseases/conditions, including emergency ones, and establish a diagnosis taking into account the current International Statistical Classification of Diseases and Related Health Problems (ICD);</p>
PC-3	Capable of prescribing treatment and monitoring its effectiveness and safety	<p>PC-3.1 Able to develop a treatment plan for a disease or condition taking into account the diagnosis, age, and clinical presentation in accordance with current medical care procedures, clinical guidelines (treatment protocols) for medical care, and standards of care;</p> <p>PC-3.2 Able to prescribe medications, medical devices, and therapeutic nutrition taking into account the diagnosis, age, and clinical presentation of the disease and in accordance with current medical care procedures, clinical guidelines (treatment protocols) for medical care, and standards of care;</p> <p>PC-3.3 Able to prescribe non-drug treatment taking into account the diagnosis, age, and clinical presentation of the disease in accordance with current medical care procedures, clinical guidelines (treatment protocols) for medical care, and standards of care;</p> <p>PC-3.4 Able to evaluate the efficacy and safety of medications, medical devices, therapeutic nutrition, and other treatment methods;</p> <p>PC-3.5 Able to provide palliative care in collaboration with specialist</p>

		physicians and other healthcare professionals; PC-3.6 Able to organize personalized patient treatment, including for pregnant women and elderly patients, and evaluate the effectiveness and safety of treatment;
PC-5	Capable of conducting and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary and hygienic education of the population	PC-5.1 Organizes and conducts medical examinations based on age, health status, and profession, in accordance with current regulations and other documents; PC-5.3 Performs medical examinations of adults for the early detection of chronic non-communicable diseases and the main risk factors for their development, in accordance with current regulations and other documents;
PC-6	Capable of maintaining medical records and organizing the activities of mid-level medical personnel	PC-6.1 Ability to prepare a work plan and work reports, and prepare a medical (therapeutic) site passport; PC-6.3 Ability to maintain medical records, including electronic ones; PC-6.4 Ability to monitor the performance of job responsibilities by the district nurse and other available medical personnel;

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
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PC-1	Capable of providing medical care to a patient in urgent or emergency situations	<p>Internal Medicine Propaedeutics; Obstetrics and Gynecology; General Surgery; Faculty Therapy; Faculty Surgery; Neurology, Medical Genetics, Neurosurgery; Emergency Medicine for Life-Threatening Conditions; Diagnostic Internship: Ward Nurse Assistant; Emergency Medical Internship (Simulation Center); Internship to Acquire Basic Professional Skills and Professional Experience: Procedural Nurse Assistant;</p>	<p>Emergency situations; Disaster medicine; Obstetrics and gynecology; Infectious diseases; Pediatrics; Endocrinology; Outpatient therapy; Anesthesiology, resuscitation, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Hospital therapy; Endoscopic urology; Allergology; Physician assistant in the internal medicine field: assistant to the general practitioner; Obstetric and gynecological practice: assistant to the obstetrician; General medical practice: assistant to the pediatrician;</p>
PC-2	Capable of conducting a patient examination to establish a diagnosis	<p>Medical Enzymology**; Molecular Genetics in Applied Biology and Medicine**; Propaedeutics of Internal Medicine; Medical Elementology; Obstetrics and Gynecology; Immunology; General Surgery; Faculty Therapy; Faculty Surgery; Microbiology, Virology; Pathophysiology, Clinical Pathophysiology; Neurology, Medical Genetics, Neurosurgery; Evidence-Based Medicine; Radiology; Dermatovenereology; Pathological Anatomy, Clinical Pathological Anatomy;</p>	<p>Telemedicine; General medical skills; Emergency conditions Obstetrics and gynecology; Infectious diseases; Pediatrics; Maxillofacial surgery; Sectional course; Occupational diseases; Endocrinology; Psychiatry, medical psychology; Ththisiology; Outpatient therapy; Anesthesiology, resuscitation, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Clinical dentistry; Topical issues of neonatology**; Cardiology in quests; Microbiological diagnostic methods; Hospital therapy; Endoscopic urology; Allergology; Private radiology; Outpatient pulmonology;</p>

			Physician assistant in the general practice: physician assistant; General practice: physician assistant in an outpatient clinic; Obstetrics and gynecology practice: obstetrician assistant; General practice: pediatrician assistant;
PC-3	Capable of prescribing treatment and monitoring its effectiveness and safety	Introduction to Nutrition**; Obstetrics and Gynecology; Faculty Therapy; Pharmacology; Faculty Surgery; Fundamentals of Integrative Medicine**; Neurology, Medical Genetics, Neurosurgery; Dermatovenereology; Clinical Trials**; Clinical Research**; Mechanisms of Drug Action;	Telemedicine; Outpatient Cardiology**; Fundamentals of Pediatric Nutrition**; Obstetrics and Gynecology; Infectious Diseases; Clinical Pharmacology; Pediatrics; Maxillofacial Surgery; Occupational Diseases; Endocrinology; Psychiatry, Medical Psychology; Phthisiology; Outpatient Therapy; Hospital Surgery, Pediatric Surgery; Oncology, Radiation Therapy; Traumatology, Orthopedics; Reproductive Health; Topical Issues of Neonatology**; Experimental Oncology; Cardiology in Quests; Geriatrics and Palliative Medicine; Hospital Therapy; Endoscopic Urology; Allergology; Outpatient pulmonology; Physician assistant in the internal medicine field: physician assistant; General medical practice: physician assistant in an outpatient clinic; Obstetrics and gynecology practice: obstetrician assistant; General medical practice: pediatrician assistant;
PC-5	Capable of conducting and monitoring the effectiveness of measures	Introduction to Nutrition**; Propaedeutics of Internal Medicine;	Outpatient Cardiology**; Fundamentals of Pediatric Nutrition**;

	to prevent and promote a healthy lifestyle and sanitary and hygienic education of the population	Organization of Specialized Patient Care; Obstetrics and Gynecology; Epidemiology; Hygiene; Neurology, Medical Genetics, Neurosurgery; Dermatovenereology; Fundamentals of Psychophysiology**;	Obstetrics and Gynecology; Infectious Diseases; Pediatrics; Occupational Diseases; Endocrinology; Phthiology; Outpatient Therapy; Reproductive Health; Clinical Dentistry; Endoscopic Urology; Outpatient Pulmonology; General Practice: Physician Assistant in an Outpatient Clinic; General Practice: Pediatrician Assistant;
PC-6	Capable of maintaining medical records and organizing the activities of mid-level medical personnel	Internal Medicine Propaedeutics; Obstetrics and Gynecology; Bioethics**; General Surgery; Faculty Therapy; Faculty Surgery; Public Health and Healthcare, Healthcare Economics; Radiology; Biostatistics; Introductory Practical Training to Acquire Basic Professional Skills and Abilities: Patient Care (Simulation Center); Introductory Practical Training to Acquire Basic Professional Skills and Abilities: Patient Care; Practical Training to Acquire Basic Professional Skills and Abilities: Junior Medical Assistant; Practical Training to Acquire Basic Professional Skills and Abilities: Procedural Nurse Assistant;	Telemedicine; Obstetrics and Gynecology; Infectious Diseases; Pediatrics; Forensic Medicine; Outpatient Therapy; Anesthesiology, Resuscitation, Intensive Care; Hospital Surgery, Pediatric Surgery; Oncology, Radiation Therapy; Hospital Therapy; Endoscopic Urology; Allergology; Biomedical Data Analysis Methods. Artificial Intelligence in Practical Healthcare; Physician Assistant in the Internal Medicine Field: Physician Assistant to a General Practitioner; General Practice: Physician Assistant in an Outpatient Clinic; Obstetric and Gynecological Practice: Obstetrician Assistant;

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Endoscopic Urology” is 2 credits (72 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)**

Type of academic activities	Total academic hours	Semesters/training modules			
		12			
<i>Contact academic hours</i>	48	48			
including:					
Lectures (LC)					
Lab work (LW)	48	48			
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	15	15			
<i>Evaluation and assessment (exam/passing/failing grade)</i>	9	9			
Course workload	academic hours	72	72		
	credits	2	2		

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 Introduction to Endourology	The history of the development of endoscopic urology, its current state and prospects. Organization of endosurgical operation. TUR operating room.	S
Module 2 Endodiagnosis and treatment of diseases of the urethra and bladder	Urethroscopy. Internal urethrotomy. Cystoscopy. Biopsy of the bladder mucosa. Catheterization of the ureter and pelvis. TUR of the bladder and intravesical electrocoagulation. Cystolithotripsy.	S
Module 3 Endodiagnosis and treatment of ureteral diseases	Ureteropyeloscopy. Bringing down ureteral stones (lithoextraction). Contact urethrolithotripsy. Dissection of the mouth of the ureter. internal stenting. Electroresection of the ureterocele.	S
Module 4	Percutaneous puncture nephrostomy - PNNS.	S
Endodiagnosis and treatment of kidney	Puncture of kidney cysts.	S

diseases	Percutaneous endonefroureterolithotomy (nephrolitholapaxy).	
Module 5 Endodiagnosis and treatment of diseases and prostate gland	TUR of the prostate. Endoscopic electrovaporization of the prostate. TUR is the vaporization of the prostate. Endoscopic laser surgery of the prostate.	S
Module 6 Laparoscopic methods of treatment of urological diseases	Equipment and instruments for laparoscopic operations. The main stages of laparoscopic surgery in urology Laparoscopic operations on the organs of the retroperitoneal space. Laparoscopic operations on the pelvic organs	S

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab work	Medical Biotechnologies Lab equipped with a set of specialized furniture and lab equipment; (classrooms 316, 318)	Laboratory CO2-incubators Shellab, laminar-flow cabinet series Biowizard , microscope “Leica Microsystem CMC», inverted microscope Leica DMi8, automatic cell counter TC20, laboratory microcentrifuge MiniSpin, abacterial box, flow cytometer, freezer compartment UF V 700, cellular analyzer xCELLigence,

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		Lab of a full cycle of histological tissue processing..
Seminar	Classroom for lab work, individual consultations, self-studies equipped with a set of specialized furniture; whiteboard	Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), sets of histological preparations, a list of stands, tables, visual posters, etc

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Urology. National leadership. / Ed. ON. Lopatkin. –M. : GEOTAR-Media, 2013. 1024.
2. Anomalies of the genitourinary system. / Under the editorship of Daryalova S.L., M., 2008.
3. Urolithiasis disease. Guide to practical exercises in oncology. Edited by Gantsev Sh.Kh., Moscow 2007.

Additional readings:

Electronic full-text materials:

1. Injuries of the genitourinary system. Selected lectures on clinical oncology. / Under the editorship of Chissov V.I., Daryalova S.L., M., 2008.
2. Clinical guidelines. Urology. - M.: GEOTAR-Media, 2007. - 388 p.
3. Bely, L.E. Emergency urology. Guide for doctors. - M.: Medical Information Agency, 2011. - 480 p.

Internet (based) sources

- 1. Electronic libraries with access for RUDN students:
-Electronic library network of RUDN – ELN RUDN <http://lib.rudn.ru/MegaPro/Web>

- ELN «University Library online» <http://www.biblioclub.ru>
- ELN Urait <http://www.biblio-online.ru>
- ELN «Student Advisor» www.studentlibrary.ru
- ELN «Lan» <http://e.lanbook.com/>

- 2. Databases and search engines:
 - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
 - search system Yandex <https://www.yandex.ru/>
 - search system Google <https://www.google.ru/>
 - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

*Training toolkit for self- studies to master the course *:*

1. The set of lectures on the course “Endoscopic Urology”
2. The laboratory workshop (if any) on the course “Endoscopic Urology”
3. The guidelines for writing a course paper / project (if any) on the course “Endoscopic Urology”.
4.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS’ COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (GPC- 4, 5, 6, 11) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Head of the Department of Urology

A.A. Kostin

position, department

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Urology

A.A. Kostin

name of department

signature

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HEAD OF HIGHER EDUCATION PROGRAMME:

Deputy Director of MI for
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