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Khanty-Mansiysk Autonomous Okrug-Ugra
 "Surgut State University"

Approved by
 Deputy Rector for Academic Affairs

_____ E. V. Konovalova

“11” June 2025, Record No. 5

Endovascular diagnostics (adaptive program)

Syllabus

Department	Cardiology
Curriculum	s310501- ЛечДелоИн -25-6.plx Specialty: 31.05.01 General Medicine
Qualification	General Practitioner
Form of education	Full-time
Total (in credits)	2 Z
Total academic hours	72
including:	
Classes	48
Self-study	24

Control:
 Credits, 12th term

Course outline in terms

Academic year (Term)	12 (6.2)		Total	
Weeks	18 4/6			
Type of classes	Cur	Syl	Cur	Syl
Lectures	16	16	16	16
Practical	32	32	32	32
Total	48	48	48	48
Classes	48	48	48	48
Self-study	24	24	24	24
Total	72	72	72	72

The Syllabus is compiled by:

PhD in Psychological Sciences (Psychology), Associate Professor, Kovalenko L. A. _____

The Syllabus

Endovascular diagnostics (adaptive program)

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on February 9, 2016 No. 95)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "11" June 2025, Record No. 5.

The Syllabus was approved by the department

Cardiology

" ____ " _____ 20____, Record No. ____

Head of the Department of Cardiology. Doctor of Medicine, Professor Urvantseva I. A.

1. COURSE OBJECTIVES

1.1	The objective of the course “Endovascular diagnostics (adaptive program)” is to identify objective opportunities for improving the effectiveness of diagnostics of somatic diseases in adults by using endovascular diagnostics methods, as well as to establish the degree of deviation of the functions of affected organs and systems from standards.
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2. COURSE OVERVIEW

Course code (in curriculum)	B1. V. DV. 05
2.1 Assumed background:	
2.1.1	Topographic anatomy and operative surgery
2.1.2	Faculty therapy, occupational diseases
2.1.3	Neurology, medical genetics, neurosurgery
2.1.4	Propaedeutics of internal diseases, radiation diagnostics
2.1.5	Hospital therapy, endocrinology
2.1.6	General surgery, radiation diagnostics
2.1.7	Medical rehabilitation
2.1.8	Clinical pharmacology
2.2 Post-requisite courses and practice:	
2.2.1	Instrumental research methods
2.2.2	Hospital therapy, endocrinology
2.2.3	Clinical Surgery

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

GPC-9: the ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems
PC-6: the ability to identify the patient's main pathological conditions, symptoms, disease syndromes, and nosological forms in accordance with the International Statistical Classification of Diseases and Health-Related Problems, X revision
PC-22: willingness to participate in the introduction of new methods and techniques aimed at protecting the health of citizens
UC-5: be able to self-develop, self-actualize, self-educate, use a creative approach

By the end of the course students must:

3.1 Know:	
3.1.1	human anatomy and physiology; issues of general pathology, anatomy;
3.1.2	modern methods of patient examination (ECG, X-ray, ultrasound, magnetic resonance, radionuclide, angiographic, intracardiac electrophysiological, biochemical, etc.)
3.1.3	invasive diagnostic methods, indications and contraindications
3.2 Be able to:	
3.2.1	conduct a survey of the patient, apply objective examination methods, identify general and specific signs of the disease;

3.2.2	assess the severity of the patient's condition and take the necessary measures to remove the patient from a serious condition, determine the scope and sequence of treatment measures, provide the necessary urgent care and, if necessary, conduct resuscitation measures, determine the indications for hospitalization and organize it;
3.2.3	determine the need for special research methods (laboratory, X-ray, functional, etc.);
3.2.4	evaluate the data of laboratory and biochemical methods of research, radiography and computed tomography and MR tomography, electrocardiography, echocardiography, radionuclide research methods, angiography, coronary angiography, ventriculography, bicycle ergometry, electrophysiological examination of the heart, hemodynamics studies, results of catheterization of heart cavities in relation to a specific clinical situation ³
3.2.5	2.5 issue medical documentation required by the legislation on healthcare

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)						
Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Notes
	Unit 1. 1.1.1					
1.1	Endovascular Surgery. Principles of radiation safety. Contrast agents. Catheters /Lec/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1.2 L1.3L2.1L3.2 L3.1 E1 E2 E3	
1.2	Endovascular surgery. Principles of radiation safety. Contrast agents. Catheters /Practice/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1.2 L1.3L2.1L3.2 L3.1 E1 E2 E3	
1.3	Endovascular surgery. Principles of radiation safety. Contrast agents. Catheters /Self-study/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.4	Angiography.Vascular angioscopy (endoscopy) /Lec/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.5	Angiography.Vascular angioscopy (endoscopy) / Practice/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.6	Angiography.Vascular angioscopy (endoscopy) /Self-study/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.7	Intravascular ultrasound (VSUI) /Lec/	12	2	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2	
E3	for Intravascular ultrasound (VSUI) /Practice/	12	6	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2. 1L3.2 L3. 1 E1 E2 E3	
1.9	Intravascular ultrasound (IVUZ) /Self-study/	12	4	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1.2 L1.3L2.1L3.2 L3.1 E1 E2 E3	
1.10	Percutaneous transluminal angioplasty (PTA). Stents /Lec/	12	2	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1.2 L1.3L2.1L3.2 L3.1 E1 E2 E3	
1.11	Percutaneous Transluminal Angioplasty (PTA). Stents /Practice/	12	6	UC -5 GPC - 9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	

1.12	Percutaneous transluminal angioplasty (PTA). Stents /Self-study/	12	4	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.13	Peripheral Atherectomies /Lec/	12	2	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.14	Peripheral atherectomies /Practice/	12	6	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.15	Peripheral atherectomies /Self-study/	12	4	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.16	Endovascular treatment of arterial diseases. Thrombolytic therapy. Endovascular treatment of venous diseases /Lec/	12	2	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1.2 L1.3L2.1L3.2 L3.1 E1 E2 E3	
1.17	Endovascular treatment of arterial diseases. Thrombolytic therapy. Endovascular treatment of venous diseases /Practice/	12	6	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1.2 L1.3L2.1L3.2 L3.1 E1 E2 E3	
1.18	Endovascular treatment of arterial diseases. Thrombolytic therapy. Endovascular treatment of venous diseases /Self-study/	12	4	UC -5 GPC -9 PC-6 PC-22	L1. 1 L1. 2 L1. 3L2.1L3. 1 E1 E2 E3	
1.19	/Control work /	12	0			Task for the control work
1.20	/Test/	12	0	UC -5 GPC -9 PC-6 PC-22		Test

5. ASSESSMENT TOOLS

5.1. Tests and tasks

Supplement 1

5.2. Topics for written papers

Supplement 1

6. COURSE (MODULE) RESOURCES

6.1. Recommended literature

6.1.1. Core

	Authors	Title	Publisher, year	Quantity
L1. 1	Duborasova T. Y.	Sensory analysis of food products. Wine tasting: a textbook	Moscow: Dashkov & Co., 2009, electronic resource	1
L1.2	Uvarova Street E. V.	"Reproductive health of children and adolescents" No. 6, 2007.: scientific journal	Moscow: GEOTAR-Media, 2007, electronic resource	1

	Authors	Title	Publisher, year	Quantity
L1. 3	Mangushev R. A.	Geotechnical terminological Russian-English dictionary: dictionary	Moscow: DIA, 2007, electronic resource	1
6.1.2. Supplementary				
	Authors	Title	Publisher, year	Quantity
L2.1	Urvantseva I. A., Korneeva E. V., Rudenko A.V., Pikulina N. E.	Diagnostics and treatment of arrhythmias: a textbook	Surgut: Publishing Center of SurGU, 2016	10
6.1.3. Methodical development				
	Authors	Title	Publisher, year	Quantity
L3. 1	Yudin S. M.	Fundamentals of electrocardiographic diagnostics: a textbook for students	Omsk: OmGMA Publishing House, 2012, electronic resource	1
6.2. Internet resources				
E1	Electronic Library of the National Welfare Fund: dissertation			
E2	Abstract journals of INION RAS " Social and Humanitarian Sciences. Russian and foreign literature"			
E3	ARBIKON			
6.3.1 Software				
6.3.1.1	Пакет прикладных программ Microsoft Office 6 application Software package			
6.3.2 Information Referral systems				
6.3.2.1	"Garant", "Consultant plus", "Consultant-region"			
7. Course manuals				
7.1	Classrooms for conducting lecture-type classes, seminar-type classes (practical classes), group and individual consultations, ongoing monitoring and intermediate certification are equipped with: standard educational furniture, technical means and training that serve to present educational information			