

**FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION
OF HIGHER EDUCATION
"ROSTOV STATE MEDICAL UNIVERSITY"
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION**

Faculty of Education of foreign students, residents and postgraduates

CONFIRM
Supervisor
educational program

(signature) / E.S. Belousova /
(FULL NAME.)
_____ 20__

**DISCIPLINE WORKING PROGRAM
ONCOLOGY, RADIATION THERAPY**

Speciality 31.05.01 General medicine

Form of education full-time

**Rostov-on-Don
2022**

I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

The purpose of mastering the discipline: theoretical and practical study of the etiology and pathogenesis of malignant tumors, methods and techniques for the prevention of cancer, the organization of methods for timely diagnosis, the use and improvement of surgical, radiation and combined treatment methods.

Tasks:

- training students in methods of forming risk groups; allowing to identify tumor diseases at early stages;
- teaching students the ability to identify leading oncological signs, symptoms, syndromes;
- training students in choosing optimal methods of clinical, instrumental - laboratory, morphological examinations for cancer, in accordance with the standards of medical care and drawing up an algorithm for differential diagnosis;
- training students in choosing the optimal regimens for surgical, radiation and chemotherapy treatment of the most common oncological diseases in the adult population; based on standards of medical care.
- training students in the preparation of medical documentation (emergency notification of a newly diagnosed patient, follow-up card, extract from the medical history of an oncological patient, protocol for an advanced case of malignancy);
- familiarizing students with the principles of organization and operation of oncological treatment institutions of various types;
- formation of communication skills with cancer patients, taking into account ethics and deontology.

II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The process of studying the discipline is aimed at developing the following competencies in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

general professional (OPK):

GPC-4 - ability and willingness to implement ethical and deontological principles in professional activities;

OPK-6 - readiness to maintain medical records;

OPK-8 - readiness for medical use of drugs and other substances and their combinations in solving professional problems;

GPC-9-ability assessment

morphofunctional,physiological conditions and pathological processes in the human body to solve professional problems;

professional (PC):

PC-5 - readiness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological, anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease;

PC-6-ability to identify patients

mainpathological conditions, symptoms, disease syndromes,

nosological forms in accordance with the

International Statistical Classification of Diseases and Related Health Problems -

X revision adopted by the 43rd World Health Assembly, Geneva, 1989;

PC-8 - ability to determine tactics for managing patients with various nosological forms

PC-9 readiness to manage and treat patients with various nosological forms in an outpatient setting and in a day hospital setting.

III. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO

3.1. The academic discipline is basic.

3.2. The formation of the above competencies is facilitated by study of previous disciplines: "Bioethics", "Radiation diagnostics", "Propaedeutics of internal diseases", "Histology, embryology,

cytology", "Pathological anatomy", "Pathological physiology",
 "General Surgery", "Chemistry", "Biochemistry", "Obstetrics and Gynecology",
 "Ophthalmology", "Otolaryngology", "Hospital surgery".

3.3. The discipline "Oncology, radiation therapy" creates the prerequisites for the formation of these competencies in the disciplines: "Clinical pathological anatomy", "Clinical pharmacology", "Hospital surgery", "Anesthesiology, resuscitation, intensive care",

"Palliative therapy". The competencies developed by the discipline will also be in demand during residency and postgraduate training in oncology, surgical diseases, and therapy.

IV. CONTENT AND STRUCTURE OF DISCIPLINE

Labor intensity of the discipline in 3_4____hour____144____

4.1. Sections of the discipline studied in _10____semester

Section no.	Name section	Number of hours					
		Total	Independent work under the supervision of a teacher				SRS
			L	WITH	ET C	LR	
Semester 10							
1	General oncology	28	6		12		10
2	Clinical oncology	80	10		36		34
Form intermediate certification		36	exam				
Total by discipline		144	16		48		44

4.2. Contact work

Lectures

Section no.	No. lectures and	Lecture topics	Number of clock at
Semester 10			
1	1	Epidemiology, carcinogenesis of malignant tumors. Organization of oncology services. Structure of morbidity.	2
	2	General principles for diagnosing malignant tumors.	2

		Methods and levels of diagnosis.	
	3	Principles of therapy for malignant tumors.	2
2	1	Stomach cancer. Colon cancer Clinic, diagnosis, treatment.	2
	2	Lung cancer. Etiopathogenesis. Clinic. Diagnosis. Treatment.	2
	3	Tumors of the head and neck. Etiopathogenesis. Clinic. Diagnostics. Treatment.	2
	4	Breast cancer. Etiopathogenesis. Clinic. Diagnostics. Treatment.	2
	5	Lymphogranulomatosis	2
Total by discipline			16

Practical work

No. section a	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
Semester 10				
1	1	Principles of deontology. Tasks when studying the discipline. Literature. Organization of oncology service. Structure of morbidity and mortality. Accounting documentation. Clinical examination.	4	Testing
	2	Diagnostic methods in oncology. Work in diagnostic departments and laboratories.	4	Testing
	3	Principles of therapy for malignant tumors. Stages of outpatient examination of patients. Work in an oncology clinic.	4	Solving situational problems
2	1	Stomach cancer, statistics. Precancerous diseases. Clinical course options. Diagnostics. Treatment methods in accordance with the standards of medical care (PR Ministry of Health of the Russian Federation No. 603n, 719n dated 11/07/12; No. 785n.09.11.12; 1190n dated 12/20/12)	4	Testing, solving situational problems Practical skills

No. section a	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
	2	Colon cancer. Precancerous diseases. Diagnostic methods. Treatment methods in accordance with the standards of medical care (PR Ministry of Health of the Russian Federation No. 640n, 642n, 628n, 627n, 663n, 671n dated 07.11.12; 693n dated 09.11.12; No. 1142n, 1198n, 1196n, 1162n dated 12/20/12; No. 1747n dated 12/29/12)	4	Solving situational problems Practical skills
	3	Liver cancer, pancreatic cancer. Statistics, etiopathogenesis. Diagnostic methods. Forecast. Treatment methods in accordance with the standards of medical care (PR Ministry of Health of the Russian Federation No. 1167n, 1154n dated 12/20/12; PR Ministry of Health of the Russian Federation No. 1160n, 1165n, 1191n, 1147n dated 12/20/12; 1527n from 12/24/12)	4	Testing, solving situational problems Practical skills
	4	Lung cancer. Statistics, etiopathogenesis. Clinical forms. Diagnosis, prognosis and treatment in accordance with the standards of medical care. (PR of the Ministry of Health of the Russian Federation No. 610n, 684n dated 07.11.12; No. 784n, 694n, 695n, 789n, 788n dated 09.11.12; No. 1081n, 1151n, 1186n from 12/20/12; No. 1464n from	4	Testing, solving situational problems Practical skills
	5	Tumors of bones and soft tissues. Diagnosis and treatment in accordance with standards of medical care. (PR of the Ministry of Health of the Russian Federation No. 602n dated 07.11.12; No. 1164n, 1137n dated 12/20/12; No. 1660n dated 12/29/12; PR of the Ministry of Health of the Russian Federation No. 641n, 1742n dated 07.11.12; No. 1159n dated 12/20/12)	4	Testing, solving situational problems Practical skills

No. section a	Seminar No., PR	Topics of seminars, practical work	Number of hours	Forms of current control
	6	Precancer and breast cancer. Statistics, etiopathogenesis. Clinical forms. Diagnosis, prognosis and treatment in accordance with the standards of medical care (PR Ministry of Health of the Russian Federation No. 612n, 645n, 661n dated 07.11.12; No. 723n, 704n, 705n, 782n, 756n from	4	Solving situational problems Practical skills
	7	Skin cancer. Melanoma. Diagnostic methods and treatment in accordance with the standards of medical care. (PR of the Ministry of Health of the Russian Federation No. 607n, 623n, 624n, 665n dated 07.11.12; No. 776n dated 09.11.12; No. 1172n dated 12/20/12; PR of the Ministry of Health of the Russian Federation No. 604n dated 07.11.12; No. 1185n dated 12/20/12)	4	Testing, solving situational problems Practical skills
	8	Lymphogranulomatosis. Morbidity. Etiopathogenesis. Histological classification Clinical picture depending on the stage and damage to the lymph nodes. Diagnostic methods and treatment in accordance with the standards of medical care (PR Ministry of Health of the Russian Federation No. 1454n, 1458n dated 12/24/12; 1738n, 1753n dated 12/29/12)	4	Testing, solving situational problems
	9	Tumors of the head and neck. Diagnosis and treatment in accordance with standards of medical care. (PR Ministry of Health of the Russian Federation No. 1097n, 1077n, 1156n, 1044n dated 12/20/12, 1146n, 1277n from 12/20/12)	4	Testing, solving situational problems
Total by discipline			48	

4.3. Independent work of students

Secti on no.	Type of independent work of students	Num ber of hours	Forms of current control
Semester 10			
1	Writing an essay	10	Defense of the abstract
2	Preparation for practical classes	14	Testing
	Writing a medical history	20	Medical history report
Total by discipline		44	

V. ASSESSMENT FUND FOR CURRENT CONTROL AND INTERMEDIATE CERTIFICATION

The fund of assessment tools for determining the level of development of competencies as a result of mastering the discipline is an appendix to the work program.

VI. EDUCATIONAL AND METHODOLOGICAL SECURITYDISCIPLINES

6.1. Main literature

1. Shain A. A. "Oncology": a textbook for universities. - M.: Publishing Center "Academy", 2004.
2. Trufanov G.E. Radiation therapy. T. 2: textbook for medical universities / G.E. Trufanov, M.A. Asaturyan, G.M. Zharinov. – M.: GEOTAR-Media, 2007. - 192 p.
3. Cherenkov V.G. "Oncology": textbook / V.G. Cherenkov.-4th ed., corrections and additions.- M.: GEOTAR-Media, 2017.-512 p.

6.2. Additional literature.

1. Guide to practical training in oncology: textbook for medical universities / Sh.Kh. Gantsev. - M.: MIA - 2007. - 416 p.
2. Oncology: textbook / M.I. Davydov. - M.: GEOTAR-Media, 2010. – 912 pp.
3. Paraneoplastic syndrome: monograph / V.P. Terentyev, M.M. Batyushin [and others] - Rostov n/d: publishing house Rostov State Medical University; 2011 – 158 p.
4. Belogurova, M.B. Pediatric oncology. Guide for doctors [Electronic resource]: guide / M.B. Belogurova. — Electron. Dan. — St. Petersburg: Special. Lit, 2002. - 351 p. - Access mode: <https://e.lanbook.com/book/60089>.
5. Rykov M.Yu. Pediatric oncology: textbook / M.Yu. Rykov, I.A. Turabov.-M.: GEOTAR-Media, 2018.-280 p.
6. The procedure for providing medical care to adults according to

profile “oncology” (Order of the Ministry of Health of Russia dated November 15, 2012 No. 915n). Access mode:

<https://www.med-yurist-advokat.ru/yuridicheskaya-ehnciklopediya/prava-i-obyazannosti-medicinskih-organizacij/poryadki-okazaniya-medicinskoj-pomoshchi-i-standarty-medicinskoj-pomoshchi/>.

7. Standards for the provision of specialized medical care for malignant neoplasms.

Access mode: <https://www.rosminzdrav.ru/opendata/7707778246-utverzdeniestandartimedicinskoipomoshi/visual>

6.3. Periodicals

1. Journal "Oncology Issues".
2. Journal "Russian Journal of Oncology"

6.4. ELECTRONIC EDUCATIONAL and INTERNET RESOURCES			
1.	Electronic library Rost State Medical University	URL:	Unlimited access
	http://109.195.230.156:9080/opacg/		
2.	Student Advisor: EBS. – Moscow: LLC “IPUZ”.	- URL:	Unlimited access
	http://www.studmedlib.ru		
3.	Federal Electronic Medical Library of the Russian Ministry of Health. -URL:	http://www.femb.ru/feml/ , http://feml.scsml.rssi.ru	Open access
4.	National Electronic Library. - URL:	http://neb.rf/	Access from library computers
5.	Scientific electronic library eLIBRARY	URL:	Open access
	http://elibrary.ru		
6.	Russian education. Federal educational portal.	- URL:	Open access
	http://www.edu.ru/index.php		
7.	Federal Electronic Medical Library of the Russian Ministry of Health. -URL:	http://www.femb.ru/feml/ , http://feml.scsml.rssi.ru	Open access
8.	Medical Bulletin of the South of Russia	.- URL:	Open access
	https://www.medicalherald.ru/jour And from the RostSMU website		
9.	Modern problems of science and education: electron. magazine.	- URL:	Open access
	http://www.science-education.ru/ru/issue/index		
10.	Rubricator of clinical recommendations Ministry of Health of Russia. -	URL:	Open access
	http://cr.rosminzdrav.ru/#!/		

6.5. Guidelines for students on mastering the discipline

Teaching the discipline includes classroom lessons (lecture course and practical exercises) and independent work. The main educational time is devoted to practical work on acquiring deontological and clinical skills.

When studying the discipline, the student will be helped by knowledge and skills,

received in anatomy, normal and pathological physiology, histology, medical deontology, radiation diagnostics, propaedeutics of internal diseases, general surgery, etc. Along with acquiring theoretical knowledge in oncology, students will master practical skills in physical examination of the patient, diagnosis and determination of optimal treatment tactics sick.

Practical classes include analysis of clinical patients, solving situational problems, interviews on class topics. Independent work of students includes preparation for lectures and practical classes, completing medical histories and abstracts. Successful mastery of the discipline requires active work in the classroom, systematic, conscientious work in supervision, work with regulatory materials, literature on the topics being studied, and medical documentation.

Abstracting questions submitted for independent study allows you to expand and deepen your understanding of the theory and modern practice in oncology.

Guidelines for writing an essay

An abstract is a brief record of ideas contained in one or more sources, which requires the ability to compare and analyze different points of view.

An abstract is one of the forms of interpretation of the source text or several sources. Therefore, the abstract, unlike the synopsis, is a new, original text. Novelty in this case implies a new presentation, systematization of the material, a special author's position when comparing different points of view.

Abstracting involves presenting a question based on classification, generalization, analysis and synthesis of one or more sources.

When writing an essay, students should focus on the following structure of the essay:

- 1) title page;
- 2) work plan indicating the pages of each question, sub-question (item);
- 3) introduction;
- 4) textual presentation of the material, divided into questions and sub-questions (points, sub-points) with the necessary links to sources used by the author;
- 5) conclusion;
- 6) list of used literature;
- 7) applications that consist of tables, charts, graphs, drawings, diagrams (if necessary).

Applications are arranged sequentially, according to headings that reflect their content.

The essay is evaluated by the teacher based on the evaluation criteria

abstract (see FOS).

While studying an academic discipline, students independently draw up a medical history and present it at the test lesson.

Guidelines for taking a medical history

Patient supervision and writing an educational medical history contribute to the formation of skills to correctly diagnose and formulate diagnoses of a malignant neoplasm with an assessment of the stage and clinical group; skills in prescribing adequate (therapeutic and surgical) treatment to patients in accordance with the diagnosis.

Taking a medical history is a learning process consisting of several stages:

- organizing students' work and preparing for patient supervision,
- direct supervision of the patient,
- work of students with the results of additional methods of examining the patient,
- independent work of the student with additional sources of information,
- registration of medical history.

The teacher must familiarize students with the requirements for completing a medical history, the features of examining a patient in relation to the discipline being studied, and assessment criteria before the start of supervision. The teacher controls the actions of students during supervision.

For supervision, the teacher selects patients whose pathology character corresponds to the diseases studied within the academic discipline. The teacher should not inform the student about the diagnosis and treatment before the student begins direct work at the patient's bedside.

The teacher provides the student with data from additional research methods necessary to complete the medical history.

During supervision, the student must strictly observe the principles of medical ethics and deontology, medical confidentiality, the medical and protective regime of the medical institution, and strictly comply with the requirements of medical personnel.

The student is required to provide supervision within the allotted time. Work with medical documentation must be carried out in a designated place; removal of medical documentation outside the premises is strictly prohibited. If necessary, the student has the opportunity to contact the teacher for clarification regarding information about additional research methods set out in the medical documentation.

The student completes a medical history while studying the academic discipline and submits it to the teacher within the prescribed time frame.

During the test lesson while defending the medical history (report on

medical history), the student can freely use the medical history when answering the questions posed. The student must know and be able to explain and comment on any fragment of the medical history he has written.

Studying the discipline and active participation in students' practical classes contributes to the formation of communication skills with the patient, taking into account ethical and deontological principles. At the end of studying the academic discipline, an intermediate certification is carried out, which includes an interview, a test of practical skills and an interview on the supervised patient (report on the medical history).

VII. LOGISTICS

DISCIPLINES

7.1. Educational and laboratory equipment. For students' work, specialized classrooms are used, equipped with stands, mock-ups, sets of tables on various sections of oncology, presentations, and film fragments. When carrying out current and intermediate monitoring, packages of situational tasks and test tasks are used.

No. of discipline	Name of the discipline (module), practitioner	Name of special* premises and premises for independent work	Equipping special rooms and rooms for independent work	Scrollicensed software. Details of the supporting document
1	Oncology, radial therapy	14 Line 63, Federal State Budgetary Institution NMITsoncology Ministry of Health of Russia, building 11, 2nd floor, training room 205-lecture hall.	Laptop, multimedia projector. Presentations lecture material. Study places – 60.	1. Office Standard license No. 66869707 (agreement No. 70-A/2016.87278 from 05/24/2016). 2. System Center Configuration Manager Client ML, System Center Standard, license No. 66085892 (agreement No. 307-
		14 Line 63, Federal State Budgetary Institution NMITsoncology Ministry of Health of Russia, building 11.2 floor (Department of Oncology), training room 201.	Laptop, multimedia projector. Tables by main oncological pathologies. Sets radiographs, CT and SCT research. Study places – 14.	A/2015.463532 from 07.12.2015); 3. Windows, license no. 66869717 (agreement No. 70-A/2016.87278 from 05.24.2016) . 4. Office Standard license No. 65121548 (agreement No. 96-A/2015.148452 from 05/08/2016); 5. Windows Server - Device CAL,
		14 Line 63, Federal State Budgetary Institution	Laptop,	Windows Server - Standard,

	NMITsoncology Ministry of Health of Russia, building 11.2 floor (Department of Oncology), training room 202.	multimedia th projector. Tables by main oncological	license no. 65553756 (agreement No. RGMU1292 dated 08/24/2015); 6. Windows, license no. 65553761
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			pathologies. Sets of X-rays, CT and SCT research. Study places – 14.	(agreement No. RGMU1292 dated August 24, 2015); 7. Windows Server Datacenter - 2 Proc, license No. 65952221 (agreement No. 13466/RND1743/RGMU167 9 dated 10/28/2015); 8. Kaspersky Total Security 500-999 Node 1 year Educational Renewal License (Agreement No. 358-A/2017.460243 dated November 1, 2017). 9. Provision of communication services (Internet): "Rostelecom" - agreement No. RGMU7628 dated December 22, 2017; "ER-Telecom Holding" - agreement RGMU7611 dated December 22, 2017; "MTS" - Agreement RGMU7612 dated December 22, 2017.
		14 Line 63, Federal State Budgetary Institution NMIC oncology Ministry of Health of Russia, building 11, 2nd floor (Department of Oncology), training room 203.	Laptop, multimedia projector. Tables By main oncological pathologies. Sets of radiographs, KT SKT research. Training places – 14.	
		14 Line 63, Federal State Budgetary Institution NMIC oncology Ministry of Health of Russia, building 11, 2nd floor (Department of Oncology), training room 204.	Tables By main oncological pathologies. Sets of radiographs, KT SKT research. Training places – 14.	
		344022, Rostov region, Rostov-on- Don, lane. Nakhichevan, 38/57- 59/212-214 (No. 41, Liter A-Ya, 2nd floor, 4th floor, Liter B-A, 6th floor) 344022, Rostov region, Rostov-on-Don, st. Adygei/Pushkinskaya 12/191. Special premises For independent work – reading rooms halls libraries, audience departments of physicists, Department of automation And monitoring quality training.	Computer technique With connecting to the Internet and providing access to the EIOS RostSMU	
		14 Line 63, Federal State		

		Budgetary Institution NMIC oncology Ministry of Health of Russia, building 11, 2nd floor, room 206 -		
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		room for storage preventive maintenance of educational equipment		
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