

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

THERAPEUTIC AND PROPHYLACTIC
Department



CONFIRM

Supervisor
educational program

/ E.S. Belousova /
(FULL NAME.)

(signature)

" 30 " августа 20 23

DISCIPLINE WORKING PROGRAM
ONCOLOGY, RADIATION THERAPY

Speciality 31.05.01 General medicine

Form of education full-time

I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

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

1.2. Objectives of studying the discipline:

- 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 clinical methods, instrumental - laboratory, morphological examinations for oncological diseases, in accordance with the standards of medical care and the development of an algorithm for differential diagnosis;
- training students in choosing optimal surgical schemes, radiation and chemotherapy treatment of the most common oncological diseases in the adult population; based on standards of medical care.
- teaching students how to prepare 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 work oncological medical institutions of various types;
- developing communication skills with cancer patients with taking into account ethics and deontology.

II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

Studying the discipline is aimed at developing competencies in

in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

2.1 Universal:

2.2 General professional: OPK-4, OPK-7

2.3 Professional: PC-3

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 formation of these competencies in the disciplines: "Clinical pathological anatomy", "Clinical pharmacology", "Hospital surgery", "Anesthesiology, resuscitation, intensive care", "Palliative care". 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 the _10_ semester

No. section la	Name section	Number of hours				
		Total	Contact work			SRS
			L	WITHETC	LR	
Semester 10						
1	General oncology	28	6		12	10

2	Clinical oncology	80	10		36		34
Intermediate form certification		36	exam				
Total by discipline		144	16		48		44

4.2. Contact work

Lectures

No. section Ia	No. lectures And	Lecture topics	Number in hour V
Semester 10			
1	1	Epidemiology, carcinogenesis of malignant tumors. Organization of oncology services. Structure of morbidity.	2
	2	General principles for diagnosing malignant tumors. Methods and levels of diagnosis.	2
	3	Principles of therapy for malignant tumors.	2
2	1	Stomach cancer. Etiology. Clinic, diagnosis, treatment.	2
	2	Colorectal cancer. Etiology. Clinic, diagnosis, treatment	2
	3	Tumors of the head and neck. Etiopathogenesis. Clinic. Diagnostics. Treatment.	2
	4	Cancer dairy glands. Etiopathogenesis. Clinic. Diagnostics. Treatment.	2
	5	Lung cancer. Etiopathogenesis. Clinic. Diagnostics. Treatment.	2
Total by discipline hours:			16

Practical work

No. section	No. seminar, ETC	Seminar topics, practical work	Number in hours	Forms current control
Semester 10				
1	1	Principles of deontology. Tasks when studying the discipline. Literature. Organization of oncology service. Structure morbidity and mortality. Accounting documentation. Clinical examination.	4	Testing Oral survey

No. section	No. seminar, ETC	Seminar topics, practical work	Number in hours	Forms current control
	2	Diagnostic methods in oncology. Work in diagnostic departments and laboratories.	4	Testing Oral survey
	3	Principles of therapy malignant tumors. Stages of outpatient examination of patients. Work in an oncology clinic.	4	Solution situational tasks
2	1	Stomach cancer, statistics. Precancerous diseases. Clinical course options. Diagnostics. Treatment methods in accordance with standards of care	4	Testing, solution situational tasks Practical skills
	2	Colon cancer. Precancerous diseases. Methods diagnostics Treatment methods in accordance with standards of care	4	Solution situational tasks Practical skills
	3	Liver cancer, pancreatic cancer. Statistics, etiopathogenesis. Methods diagnostics Forecast. Treatment methods in accordance with standards of care medical	4	Testing, solution situational tasks Practical skills

No. section	No. seminar, ETC	Seminar topics, practical work	Number in hours	Forms current control
	4	Lung cancer. Statistics, etiopathogenesis. Clinical forms. Diagnosis, prognosis and treatment in accordance with standards of care medical care.	4	Testing, solution situational tasks Practical skills
	5	Tumors of bones and soft tissues. Diagnosis and treatment in accordance with the standards of medical care.	4	Testing, solution situational tasks Practical skills
	6	Precancer and breast cancer. Statistics, etiopathogenesis. Clinical forms. Diagnosis, prognosis and treatment in accordance with standards of care	4	Solution situational tasks Practical skills
	7	Skin cancer. Melanoma. Diagnostic methods and treatment in accordance with the standards of medical care.	4	Testing, solution situational tasks Practical skills

No. section	No. seminar, ETC	Seminar topics, practical work	Number in hours	Forms current control
	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	4	Testing, solution situational tasks
	9	Tumors heads And neck. Diagnostics And treatment V in accordance with the standards of medical care.	4	Testing, solution situational tasks
Total by discipline hours:			48	

4.3. Independent work of students

No. section la	Type of independent work students	Number in hours	Shapes of the current control
Semester 10			
1	Writing an essay	10	Defense of the abstract
2	Preparation for practical classes	14	Testing
	Preparation for practical classes	20	Testing, situational tasks
Total by discipline		44	

V. ASSESSMENT MATERIALS FOR CURRENT CONTROL INTERMEDIATE CERTIFICATION

Fund of assessment tools to determine the level of formation

competencies as a result of mastering the discipline are annex to the work program.

VI. EDUCATIONAL AND METHODOLOGICAL SECURITY
DISCIPLINES

6.1. Printed publications

1. Shain A. A. "Oncology": a textbook for universities. - M.: Publishing house 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., revised and additional - M.: GEOTAR-Media, 2017.-512 p.
4. Guide to practical classes in oncology: educational manual for medical universities / Sh.Kh. Gantsev. - M.: MIA - 2007. - 416 p.
5. Oncology: textbook / M.I. Davydov. - M.: GEOTAR-Media, 2010. – 912 pp.
6. Paraneoplastic syndrome: monograph / V.P. Terentyev, M.M. Batyushin [and others] - Rostov n/d: publishing house Rostov State Medical University; 2011 – 158 p.
7. Belogurova, M.B. Pediatric oncology. Guide for doctors [Electronic resource]: manual / M.B. Belogurova. — Electron. Dan. — St. Petersburg: Special. Lit, 2002. - 351 p. - Access mode: <https://e.lanbook.com/book/60089> .
8. Rykov M.Yu. Pediatric oncology: textbook / M.Yu. Rykov, I.A. Turabov.-M.: GEOTAR-Media, 2018.-280 p.
9. The procedure for providing medical care to adults according to profile "oncology" (Order of the Ministry of Health of Russia dated February 19, 2021 No. 116n) ed. from 01/24/2022.
10. Standards for the provision of specialized medical care for malignant neoplasms. Access mode: <https://www.rosminzdrav.ru/opendata/7707778246-utverzdenniestandartimedicinskoipomoshi/visual>

6.2 Internet resources:

ELECTRONIC EDUCATIONAL RESOURCES					
1.	Electronic library RostSMU.	–	URL:	http://109.195.230.156:9080/opacq/	Access is not limited
2.	Student Advisor [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"]: Electronic library system. – Moscow: Politekhresurs LLC.	–	URL:	https://www.studentlibrary.ru	Access is not limited
3.	Doctor's consultant. Electronic medical library: Electronic library system. – Moscow: LLC "Higher School of Organization and Management of Healthcare. Complex				Access is not limited

	medical consulting". opportunities for http://www.rosmedlib.ru + inclusive education	
4.	National Electronic Library. - URL: http://neb.rf/	Access from computers libraries
5.	Scientific electronic library eLIBRARY. - URL: http://elibrary.ru	Open access
6.	Russian education. Single window of access: federal portal.-URL: http://www.edu.ru/ .- New educational environment.	Open access
7.	Federal Electronic Medical Library of the Russian Ministry of Health. - URL: https://femb.ru/femb/	Open access
8.	BEARWEST :Russian doctor portal [library, database knowledge]. - URL: https://medvestnik.ru	Open access
9.	Modern problems of science and education: electron. magazine. Network publication.- URL: http://www.science-education.ru/ru/issue/index	Open access
10.	Categories clinical recommendations of the Russian Ministry of Health. -URL: https://cr.minzdrav.gov.ru/	Open access

6.3. Guidelines for students on mastering disciplines

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 the knowledge and skills acquired 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 and physical examining the patient, diagnosing and determining the optimal treatment tactics for the patient.

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, writing essays. 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

Abstract – a brief record of the 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 (clauses, subclauses) 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 essay evaluation criteria

Criteria	Indicators
1. Novelty of the abstracted text Max. - 20 points	<ul style="list-style-type: none"> - relevance of the problem and topic; - novelty and independence in the formulation of the problem, in the formulation of a new aspect of the problem chosen for analysis; - presence of the author's position, independence of judgment.
2. Degree of opening essence of the problem Max. - 30 points	<ul style="list-style-type: none"> - compliance of the plan with the topic of the abstract; - compliance of the content with the topic and plan of the abstract; - completeness and depth of disclosure of the basic concepts of the problem; - validity of methods and methods of working with the material; - ability to work with literature, systematize and structure material; - ability to generalize, compare different points of view on the issue under consideration, argue the main provisions and conclusions.
3. Validity of the choice of sources Max. - 20 points	<ul style="list-style-type: none"> - range, completeness of use of literary sources on the problem; - attraction of the latest works on the problem (journal publications, materials from collections of scientific papers, etc.).

4. Compliance with design requirements Max. - 15 points	<ul style="list-style-type: none"> - correct formatting of references to the literature used; - literacy and culture of presentation; - mastery of terminology and conceptual apparatus of the problem; - compliance with the requirements for the volume of the abstract; - design culture: highlighting paragraphs.
5. Literacy Max. - 15 points	<ul style="list-style-type: none"> - absence of spelling and syntactic errors, stylistic errors; - absence of typos, abbreviations of words, except generally accepted ones.

The abstract is assessed on a 100 point scale. "Passed" is awarded for an essay that scores 61 points or higher in all indicators.

Abstract topics

1. Etiology and pathogenesis of cancer.
2. Modern diagnostic methods (including endoscopic, radiological methods, ultrasound, CT, NMR, PET diagnostics).
3. Basics of outpatient and inpatient medical care cancer patients.
4. Principles of clinical observation.
5. Ethical, legal and deontological features of working with cancer patients.
6. Computed tomography in the diagnosis of cancer.
7. The meaning and place of X-ray, endoscopic, ultrasound and thermographic methods in the diagnosis of tumors.
8. Biochemical changes in cancer patients.
9. The influence of tumors on the body, the role of animal parasites and viruses in the occurrence of tumors.
11. Healthy lifestyle and cancer prevention.
12. Rehabilitation of cancer patients.
13. Legal aspects of medical and social work in oncology.
14. Primary prevention of cancer.
15. Medical and social work in a hospice.
16. Quality of life of children and adolescents cured of cancer.
17. High-dose chemotherapy in clinical oncology.
18. Deontology in oncology.