

**Abstract of the work program of the discipline  
" Oncology, radiation Therapy "**

The main professional educational program of higher education is a specialist's program in specialty 31.05.01 General Medicine , approved on 24/05/2023.

Full-time form of education

Term of development of OPOP VO: 6 years

Department: Radiation Diagnostics and Radiation Therapy with Oncology

The purpose of the discipline: is mastering the discipline, participation in the formation of general professional (OPK-1,4,6,8) and professional (PC-1, 2,5,6,8,16,17) competencies in the field of knowledge in radiation therapy.

2. The place of discipline in the structure of the OPOP VO:

The discipline refers to the disciplines of the basic part of block 1 of the Federal State Educational Standard of Higher Education in the specialty " General Medicine " .

3. Requirements for the results of mastering the discipline:

The teaching of this discipline is based on the following types of professional activity:

- prophylactic.
- diagnostic.
- research.
- organizational and managerial;
- research.

The process of studying the discipline is aimed at the formation and development of competencies:

<b>No. p / p</b>	<b>Competency code</b>	<b>The content of the competence (or part of it)</b>
1.	OPK-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities
2.	OPK-4	Able to use medical devices provided for by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis

3.	OPK-6	Able to organize patient care, provide primary health care, ensure the organization of work and the adoption of professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in centers of mass destruction
4.	OPK-8	Able to implement and monitor the effectiveness of the patient's medical rehabilitation, including the implementation of individual rehabilitation and habilitation programs for the disabled, to assess the patient's ability to work
5.	PC-1	Able to conduct examinations of children in order to establish a diagnosis
6.	PC-2	Able to prescribe treatment to children and ensure control of its effectiveness and safety
7.	PC-5	Able to organize the activities of medical personnel and maintain medical records
8.	PC-6	Maintaining medical records and organizing the activities of the nursing staff at the disposal
9.	PC -8	the ability to determine the tactics of managing patients with various nosological forms
10.	PC- 16	willingness to educate on the elimination of risk factors and the formation of healthy lifestyle habits
11.	PC -17	the ability to apply the basic principles of organization and management in the field of protecting the health of citizens, in medical organizations and their structural divisions

As a result of studying the discipline, the student must have a holistic view of radiation therapy as an independent scientific and practical discipline. It is necessary to form a basic worldview among students, which includes:

- familiarization of students with the main provisions of radiation therapy;
- familiarization with the peculiarities of the organization of oncological care for the population of Russia;
- study of the main methods of radiation therapy;
- Familiarization with modern principles of radiation therapy.

In the course of achieving the goal, the following tasks are solved :

-training in the course of radiation therapy are: determination of indications and contraindications to radiation diagnostics, knowledge of the advantages of radiation diagnostic methods, rational choice of radiation therapy methods.

-methods of protecting patients and staff ( leaded aprons, diapers

4. The total labor intensity of the discipline: is\_\_ 2\_\_\_\_credit units 72 hours).

5. Semester: 12

6. The main sections of the discipline:

**Topic 1** Organization of oncological care for the population

**Topic 2.** Cancer and precancerous diseases of the skin. Cancer of the oral mucosa. Tumors of bones and soft tissues.

**Theme 3** Precancerous diseases and breast cancer.

**Theme 4** Precancerous diseases and lung cancer.

**Topic 5** Cancer of the esophagus, cancer of the stomach. Malignant lymphomas. Multiple myeloma.

**Topic 6** Cancer of the colon and rectum. Tumors of the hepatopancreatoduodenal zone.

**Topic 7.** Physical basis of radiation therapy. Radiobiological bases of radiation therapy of malignant and non-tumor diseases

**Topic 8.** Methods of radiotherapy. Technical support of radiotherapy

**Topic 9.** Radiation therapy planning. Prebeam period. Beam period. Reactions of the body to therapeutic radiation exposure. Post-beam period. Radiation Protection of Organs and Tissues During Radiation Therapy

**Topic 10.** Fundamentals of radiation therapy of malignant tumors of the maxillofacial region.

**Topic 11.** Fundamentals of radiation therapy of malignant tumors of the chest and abdominal cavities

**Topic 12.** Fundamentals of radiation therapy of malignant tumors of the central nervous system , thyroid gland,

Retroperitoneal space, skeletal system,

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