

**Annotation of the work program of the  
discipline  
" Oncostomatology and Radiation Therapy "**

The main professional educational program of higher education is a specialist's program in the specialty **31.05.03 Dentistry** approved on 24/05/2023

Full-time form of education

Term of development of OPOP VO: 5 years

Department: Radiation Diagnostics and Radiation Therapy with Oncology

In developing the work program of the discipline, the following are taken as the basis:

1. Federal State Educational Standard of Higher Education in the specialty 31.05.03 Dentistry , approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 984

2. Curriculum of the OPOP HE in the specialty 31.05.03 Dentistry approved by the Academic Council of the FGBOU HE SOGMA of the Ministry of Health of Russia approved by the Academic Council of the FGBOU HE SOGMA of the Ministry of Health of Russia on May 24, 2022, Protocol No. 8

The work program of the discipline was approved at a meeting of the Department of Radiation Diagnostics and Radiation Therapy with Oncology on May 21, 2023, Protocol No. 10

The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council on May 23, 2023, protocol No. 5.

The work program of the discipline was approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated May 24, 2022, Protocol No. 8

1. The purpose of the discipline: is the development of the discipline, participation in the formation of competencies GPC -5, PC-1, PC-4, PC-6, in the field of knowledge in radiation therapy.

2. The place of discipline in the structure of the BRI IN:

The discipline refers to the disciplines of the basic part of the block of the Federal State Educational Institution of Higher Education in the specialty "Dentistry"

3. Requirements for the results of development disciplines:

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

1. Preventive.

2. Diagnostic.

### 3. Research.

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

| No. p / p | Competency code | The content of the competence (or part of it)   |
|-----------|-----------------|---|
| 1.        | GPC-5           | Able to conduct a patient examination in order to establish a diagnosis in solving professional problems                      |
| 2.        | PC-1            | Examination of the patient in order to establish a diagnosis  |
| 3.        | PC-4            | Implementation and control of effectiveness sanitary and anti-epidemic and other preventive measures to protect public health |
| 4.        | PC-6            | Organizational and managerial activities  |

As a result of studying the discipline, the student must

**know:**

- Properties of sources of ionizing radiation. Dosimetry and its role in pre-radiation preparation;
- Determine the tactics and appropriate sequence of application of radiation studies in the most common diseases;
- Know the basic principles of radiation therapy of tumors, indications and contraindications for its implementation, the physical basis of the method of radiation therapy;
- Modern methods of radiation treatment of malignant neoplasms and non-tumor diseases;
- Radiation reactions and damage during radiation therapy. Prevention and treatment;
- Deontological aspects in radiology.

**be able to:**

- Based on the anamnesis and clinical picture of the disease, determine the indications and contraindications for radiation therapy. treatment;
- Make a referral to a radiation therapist and prepare the patient for radiation examination or treatment;
- Together with the radiation therapist, draw up a plan for course of radiation treatment sick;
- Conduct psychological preparation of the patient for radiological procedures;
- When consulting a radiation therapist, it is correct to assess the clinical condition of the patient and the results of radiation therapy.

**own:**

- the skill of conducting radiation therapy, taking into account safety requirements;
- skills in the use of individual and collective protective measures personnel.

4. The total complexity of the discipline: is  2 credit units (  72 hours).

5. Semester: 9

6. Main sections disciplines:

**Topic 1.** Physical basis of radiation therapy. Radiobiological bases of radiation therapy of malignant and non-tumor diseases.

**Topic 2.** Methods of radiotherapy. Technical support of radiation therapy.

**Topic 3** 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 4** Fundamentals of radiation therapy of malignant tumors of the maxillofacial region.  
**Topic 5** Fundamentals of radiation therapy of malignant tumors of the chest and abdominal cavities. **Topic 6** Fundamentals of radiation therapy of malignant tumors of the central nervous system , thyroid gland, retroperitoneal space, skeletal system,  
**Topic 7.** Final lesson-test.

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