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**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
RUDN University**

Medical Institute

COURSE SYLLABUS

Course title

DENTAL ONCOLOGY AND RADIOTHERAPY

Specialization

31.05.03 Dentistry

Graduate's Degree

Dentistry

1. Aims and objectives:

Purpose of the discipline is preparation of a dentist, is able to identify and implement a diagnosis of tumor lesions, benign and malignant tumors of the oral and maxillofacial area and neck, assist patients and decide on organizational matters.

The objectives of the discipline are:

- familiarize students with the principles of organization and operation of cancer Service in Russia
- to teach students the principles of oncological alertness as "first contact" a doctor in the detection and treatment of cancer patients
- educate students basic examination techniques, and clinical manifestation of the principles of the treatment of patients with tumor lesions, benign and malignant tumors of the oral cavity, maxillofacial and neck
- educate the differential diagnosis of tumors with similar pathological processes
- introduce the modern technologies teletherapy, testimony to its application, the complications that arise in its use in patients in oral and maxillofacial area
- familiarize with clinical manifestations and treatments of complications in patients receiving radiation and chemotherapy
- train characteristics outpatient management of patients receiving radiation and chemotherapy
- to form the skills of communication with the patient, taking into account ethics and deontology, depending on the pathology and to identify based on the characteristics of the nature of the patients.

2. Learning outcomes

The process of studying the discipline is aimed at the formation of the following competences:

Table 2.1 Competences

Competence code	Competence	Competence indicators
SPC-1	Being able to make an examination of a patient in order to determine a diagnosis.	SPC-1.4. Detecting if patients have risk factors for oncopathology (including various background processes, precancerous conditions) based on laboratory, instrumental and additional examinations in order to make a preliminary/final diagnosis. SPC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.

3. Course in academic program structure

Discipline **Dental Oncology Radiotherapy** refers to the compulsory part of the curriculum.

Table 3.1 List of Higher Education Program disciplines that contribute to expected learning outcomes

№	Competence code	Previous disciplines	Subsequent disciplines
Specialized Professional competences			
	SPC-1	Radiology Dermatovenerology Neurology Psychiatry and Narcology Otorhinolaryngology Ophthalmology	Forensic Medicine

4. Course workload and Academic Activities

Course workload is 2 credit units.

Table 4.1 Types of academic activities during the period of the Higher educational program mastering

Types of academic activities	Academic hours	Semester № 9
Lectures	-	-
Seminars (S)	-	-
Lab work (LW)	48	48
Self studies	24	24
Evaluation and assessment	6	6
Total	72	
hours		
credits	2	

5. Course Modules and Contents

5.1. Contents

№	Modules	Topics	Types of academic activities
1	Current treatments of cancer and hematological disorders. Indications. Side effects. Complications. Treatment.	Interdisciplinary niche. Concept. Oncological alertness of a dentist, its species. The structure of the oncology service in Russia, the organization of care for patients with malignant tumors. Analysis of clinical cases requiring interdisciplinary training dentist.	LW

	<p>Demonstration of clinical department material.</p> <p>(Including the use of live video from clinical departments RNTSRR)</p> <p>Morphology - the basis for effective treatment.</p> <p>Practical part. Skills of instrumentation and development of sampling morphological material (scraping, imprint, puncture).)</p>		
2.	<p>Tumors maxillofacial: squamous cell carcinoma of the oral mucosa and oropharyngeal region. Factors contributing to the development of malignant tumors. Theory of tumors. Species. Demonstration of clinical cases in practice. (Including the use of live video from clinical departments RNTSRR)</p>	<p>Knowledge of morphology is the basis of effective treatment. Practical part.</p> <p>Acquisition and development of skills for sampling morphological material (scraping, stamping, puncture). Indications.</p> <p>The role of the dentist in the primary diagnosis of oncological processes.</p> <p>Stomatoscopy. Dye samples.</p> <p>Thermography, infrared scanning. Ultrasound procedure.</p> <p>CT and MRI. Their role in the complex diagnosis of oncological processes.</p> <p>Biopsy, its types.</p> <p>Cytology. Histology</p>	LW

3.	<p>Introduction to radiation therapy. History, biological basis, mechanisms of influence on the tumor. Features of preparation of the patient to conduct external beam radiotherapy. Modern technologies of external beam radiotherapy. Tumors of the head and neck, especially of teletherapy, side effects of dental pathology</p>	<p>Squamous cell carcinoma of the oral mucosa and oropharyngeal region. Theory of tumors. Species. Demonstration of clinical cases.</p> <p>Vascular tumors of the face and jaws. Tumors of the salivary glands. Classification, clinical picture, diagnosis, differential diagnosis, treatments, prognosis.</p> <p>Osteoblastoklastoma jaws.</p> <p>Fibrous dysplasia of the jaws.</p> <p>Connective tissue tumors of the jaws and soft tissues of the face (lipoma, fibroma, osteoma).</p> <p>Classification, clinical picture, diagnosis, differential diagnosis, treatments, prognosis.</p>	LW
4.	<p>Long-term effects of external beam radiotherapy. Radionuclide therapy, mechanisms of influence on the tumor. Radiation safety. Demonstration of clinical cases in practice.</p>	<p>Isolated and combined treatment of benign and malignant tumors</p> <p>Chloe.</p> <p>Side effects of treatment. Complications in cancer patients in oral and maxillofacial area.</p>	LW
5.	<p>Radiation damage to the oral mucosa. Definition. Classification. emergence theory. Methods and approaches to treatment.</p>	<p>History, biological basis, mechanisms of influence on the tumor. Features of preparation of the patient to conduct external beam radiotherapy. Modern technologies of external beam radiotherapy. Types of radiation therapy. Brachytherapy, remote and interstitial therapy. Radionuclide therapy, mechanisms of influence on the tumor. Features of external beam radiation therapy, side effects, dental pathology.</p>	LW

	Demonstration of clinical cases in practice	Long-term effects of external beam radiotherapy.	
6.	Osteomyelitis of the jaw bones of various origins (radiation, bisphosphonate, desomorphic). Clinical and radiological signs of diagnosis. POINTS	Definition. Classification. emergence theory. Methods and approaches to treatment complications in patients receiving radiation and chemotherapy. Early and late complications of radiation treatment. Osteoradionecrosis.	LW

6. Classroom Equipment and technology Support Requirements

Table 6.1

Classroom Equipment and technology Support Requirements

Classroom for Academic Activity Type	Classroom Equipment	Classroom Equipment and technology Support Requirements
236 Academic Aktivity type- Lab work	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	Installing the dental chair with Hiradent 654-3 -1 pc. ED 240 ovens with RS422 (Binder) (9010-0101) (LLC Diaem) - 1pc. RC-2ZT Phantom Frasco GmbH head trainer Germany (10130120/190315/0001935) - 1 pc. Dental tools (set) - 10 pcs. Workplace student / teacher as part of the system unit, monitor, keyboard - 1 pcs. Intraoral Camera (10125230/221108/0006472 Korea.) - 1 pc. Ultrasonic scaler DTE-7DLED - 4 pcs.

Classroom for Academic Activity Type	Classroom Equipment	Classroom Equipment and technology Support Requirements
237, 436 Academic Aktivity type- Seminars	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	Classroom, Equipped with a set of specialized furniture, wheteboard;a set of devices includes portable multimedia projector, laptop,projection screen,stable wireless Internet connection. Software: Microsoft Windows,MS Office\Office 365,MS TEAMS,Chrome Monitor LED LG 55" 55UF771V Ultra HD, 100Hz, DVB-T2, DVB-C, DVB-S2, USB, WiFi
437 Academic Aktivity type- Computer Lab	Classroom for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	Classroom, Equipped with a set of specialized furniture, wheteboard;a set of devices includes portable multimedia projector, laptop,projection screen,stable wireless Internet connection. Software: Microsoft Windows,MS Office\Office 365,MS TEAMS,Chrome Monitor LED LG 55" 55UF771V Ultra HD, 100Hz, DVB-T2, DVB-C, DVB-S2, USB, WiFi The workplace of the student / teacher as part of the system unit, monitor, keyboard - 8 pcs., there is an Internet connection. Software: Windows 8.1 Corporate (Microsoft Office Professional Plus 2007, Corporate Licensing Program (Microsoft Subscription) Enrollment for Education Solutions № 86626883or 01.04.2018 г.) Sirona Wibv-systems 1001-02-160-0445 №№ 1)2-3067086, 2016

Classroom for Academic Activity Type	Classroom Equipment	Classroom Equipment and technology Support Requirements
		2)2-2707139 , 2016 3)2-2707136 , 2016 4)2-2707154 , 2016 5)2-2536154 , 2016 6)2-2707122 , 2016 7)2-2695658 , 2016 8)2-2707144 , 2016

7. Recommended Sources for Course Studies

a) Main reading

1. General aspects of clinical oncology. Study Guide for students, residents, aspirants studying oncology [Электронный ресурс] = Общие вопросы клинической онкологии : Учебно-методическое пособие на английском языке / Н.В. Харченко [и др.]. - Электронные текстовые данные. - М. : Изд-во РУДН, 2018. - 40 с. Oncology [electronic resource]: National leadership. BRIEF edition / Ed. IN AND. Chissova, MI Davydova. - M.: GEOTAR-Media, 2017.

b) Additional reading:

1. Pitot Henry C. Fundamentals of oncology [Текст] : A course of lectures for students / H.C. Pitot. - Книга на английском языке. - New York and Basel : Dekker, 1978. - 192 p.

2. The radiotherapy of malignant disease [Текст] / Ed. by E.C.Easson and R.C.S.Pointon. - Книга на английском языке. - Berlin : Springer, 1985. - 474 p. c) Internet sourcers:

Electronic libraries with access for RUDN students:

<http://lib.rudn.ru/MegaPro/Web>

<http://www.biblioclub.ru>

<http://www.biblio-online.ru>

www.studentlibrary.ru

<http://e.lanbook.com/>

Databases and search engines:

<http://docs.cntd.ru/>

<https://www.yandex.ru/>

<https://www.google.ru/>

<http://www.elsevierscience.ru/products/scopus/>

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