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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**

**CLINICAL DENTISTRY**

**Specialization**

**31.05.03 Dentistry**

**Graduate's Degree**

**Dentistry**

## 1. Aims and objectives:

**Purpose** of the discipline is preparation of the dentist, is able to provide dental care to patients with somatic diseases.

**The objectives** of the discipline are:

- students' mastering of dental diagnostic methods used in the examination of patients with somatic disorders
- development of students' reading skills of medical literature for competent therapeutic, orthopedic and surgical treatment of patients with somatic disorders
- developing students' skills in drawing up a treatment plan for patients with somatic pathology at a therapeutic, orthopedic and traumatological appointment and assisting patients with somatic pathology
- development of methods for the preparation and design of cavities in the treatment of dental caries, erosion of enamel and dentin, wedge-shaped defects of various localization
- students mastering the prevention and elimination of possible complications in the treatment of patients with somatic pathology; study of the procedure for maintaining medical records in the management of these patients
- development of the algorithm of dental care for patients with somatic disorders and diseases of the oral mucosa

## 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
PC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	PC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.
PC-12	Being able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	PC-12.1. Developing optimal tactics for the treatment of oral pathology in children and adults considering the general somatic disease and further rehabilitation of a patient. PC-12.2. Applying methods of complex rehabilitation of patients with dental diseases considering the general condition of the body and the presence of concomitant pathology.
SPC-2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	SPC-2.3. Consulting patients on methods for treating dental diseases drawing up a comprehensive treatment plan which justifies the most appropriate tactics and assesses possible complications caused by using this technique.
SPC-6	Being able to analyze and present in public medical	SPC-6.3. Conducting public presentation of medical information based on evidence-based

	information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health	medicine/ partial participation in scientific research.
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### 3. Course in academic program structure

Discipline *Clinical Dentistry* 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
<b>Professional competences</b>			
1	PC-6	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)
2	PC-12	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)
<b>Specialized Professional competences</b>			
3	SPC-2	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)
4	SPC-6	Prevention and Public Dental Health; Propaedeutics of Dental Diseases	Observing and Assisting a Dentist (General Dentistry)

### 4. Course workload and Academic Activities

Course workload is 4 credit units.

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

<b>Types of academic activities</b>	<b>Academic hours</b>	Semester № 9	Semester № 10
Lectures	-	-	-
Seminars (S)	-	-	-
Lab work (LW)	<b>80</b>	<b>32</b>	<b>48</b>
Self studies	<b>64</b>	<b>40</b>	<b>24</b>
Evaluation and assessment	<b>12</b>	<b>6</b>	<b>6</b>
Total hours	<b>144</b>		
credits	<b>4</b>		

## 5. Course Modules and Contents

### 5.1. Contents Semester № 9

№	Modules	Topics	Types of academic activities
1	Introduction to Clinical Dentistry	Aims and objectives of the discipline "Clinical Dentistry". The role and place of a dentist in somatic clinic.	LW

2.	<p>Parsing rare (complex) of clinical cases experience department.</p> <p>Indications for therapeutic, orthopedic and surgical treatment of patients with somatic pathology with specialists in other fields</p> <p>Algorithm of dental care for patients with somatic disorders and diseases of the oral mucosa.</p> <p>Prevention. Rehabilitation. The quality of life of patients.</p>	<p>Indications for therapeutic, orthopedic and surgical treatment of patients with somatic pathology with specialists in other fields</p> <p>Algorithm of dental care for patients with somatic disorders and diseases of the oral mucosa.</p> <p>Prevention. Rehabilitation. The quality of life of patients.</p>	LW
3.	<p>Complex clinical cases dentists' general practice.</p>	<p>Discipline of Clinical Dentistry</p>	LW
4.	<p>Comprehensive dental rehabilitation of patients with somatic diseases (diseases of the cardiovascular system, metabolic disorders, diseases of the blood).</p>	<p>Methods of dental examination and modern programs of dental treatment of patients with somatic pathology.</p> <p>- complications that arise in the course of the underlying disease (propensity to infection, bleeding, reduction of regenerative processes and others.);</p> <p>modern possibilities of dental implantation.</p> <p>Precancerous diseases of the oral mucosa.</p>	LW

5.	Providing dental care to patients receiving chemoradiotherapy.	Classes are held on the basis of scientific and clinical departments of the Russian Scientific Center of Radiology	LW
6.	POINTS	Test control. Interview.	LW

### 5.1. Contents Semester № 10

№	Modules	Topics	Types of academic activities
1	<p>The role of the dentist in solving interdisciplinary problems.</p> <p>Parsing complex clinical cases using tools and methods for telemedicine.</p> <p>Demonstration clinical department material.</p> <p>(Including a live broadcast of the clinical situations RNTSRR)</p> <p>Consultation on the preparation and protection of the course work.</p>	<p>The volume of the preparation and oral cavity design in the treatment of dental caries, erosion of enamel and dentin, wedge-shaped defects of different localization.</p> <p>Selection of composite material and the adhesion process. Demonstration features photos of dental on clinical examples from the professional experience of general practice dentist.</p>	LW
2	<p>Clinical simulation ambulatory situations requiring dental-surgery.</p> <p>Clinical modeling application of composite materials for eliminating the defects of hard tissues of teeth of different origin.</p> <p>Clinical modeling restoring teeth with crowns, veneers and tabs.</p>	<p>Restoring lost tooth structure. Indications ceramic crowns and inlays. Preliminary tooth preparation.</p> <p>Quality control treatment. Demonstration of dental photo opportunities on clinical examples of professional experience general dentist.</p>	LW

	Demonstration of dental photographs on clinical examples		
3	Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.	Outpatient surgery. Preparation for surgery. Instrumentation, anesthesia, surgical operation lengthening the teeth, removing dental varying degrees of complexity. Complications of ambulatory surgery. Prevention of complications. Pharmacological support.	LW
4	Clinical aspects of immunity in the oral cavity. Protective and barrier functions of the oral mucosa.	"Algorithm for dental treatment of patients with combined pathology" Anamnesis, analysis of test results, doctor related specialties, measurement of blood pressure and heart rate.	LW
4	Lab № 5	Demonstration and clinical analysis of patients with the use of live video from the clinic of the Russian Scientific Center of Radiology.	LW
5	Lab № 6. Protection of the abstract. Control of independent work.	Algorithm of dental care for diseases of the oral mucosa.	LW

## 6. Classroom Equipment and technology Support Requirements

**Table 6.1**

**Classroom Equipment and technology Support Requirements**

<b>Classroom for Academic Activity Type</b>	<b>Classroom Equipment</b>	<b>Classroom Equipment and technology Support Requirements</b>
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.

<b>Classroom for Academic Activity Type</b>	<b>Classroom Equipment</b>	<b>Classroom Equipment and technology Support Requirements</b>
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 № 86626883от 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. Oral and Maxillofacial Surgery, Radiology, Pathology and Oral Medicine. Volume One. - Книга на английском языке. - London : Elsevier, 2008. - 272 p.

### b) Additional reading:

1. Anaesthesia and Sedation in Dentistry [Текст] : Монография / Ed. by M.P. Coplans and R.A. Green. - Книга на английском языке. - Amsterdam ; New York : Elsevier, 1983. - 421 p.

2. Application of the International classification of diseases to dentistry and stomatology. ICD-DA [Текст] . - Книга на английском языке. - Geneva : World health organization, 1973. - 114p.

3. American Pocket medical dictionary [Текст] : A dictionary of the Principal Terms Used in Medicine, Nursing, Pharmacy, Dentistry, Veterinary Science, and Allied Biological Subjects. - 19th ed. ; Книга на английском языке. - Philadelphia-London : W.B. Saunders, 1953. - 639 p.

### c) Internet sources:

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://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/>

**Agreed:**

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