

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ястребов Олег Александрович
Должность: Ректор
Дата подписания: 05.06.2024 15:35:43
Уникальный программный идентификатор:
ca953a0120d891083f939673078ef1a989dae18a

Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER
PATRICE LUMUMBA
RUDN University named after Patrice Lumumba

Medical Institute
educational division (faculty/institute/academy) as higher education program
developer

COURSE SYLLABUS

PHYSIOTHERAPY OF DENTAL DISEASES

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

**The course instruction is implemented within the professional education
programme of higher education:**

Specialty

higher education programme profile/specialisation title

1. THE GOALS OF MASTERING THE DISCIPLINE

The objectives of the discipline: the student's mastery of the theoretical foundations of physiotherapy and practical skills in the use of physical methods for the prevention, diagnosis, treatment and rehabilitation of dental diseases.

2. REQUIREMENTS to LEARNING OUTCOMES

The mastering of the discipline «**Physiopharmacy of dental diseases**» is aimed at the formation of the following competencies of students:

General Professional Competences (GPC)- 8

Professional Competences (PC) – 2

(in accordance with the Federal State Educational Standard of Higher Education (FSES) 3++ 31.05.03 Dentistry).

Table 2.1. The list of competencies formed by students during the development of the discipline (results of the mastering of the discipline)

Competences	Competence name	General Professional Competence Achievement Indicator
General Professional Competence GPC – 8 (8.1; 8.2),	Being able to use main physical and chemical, mathematic and scientific notions and methods when dealing with professional tasks.	GPC-8.1. Applying basic fundamental physical and chemical knowledge to deal with professional tasks. GPC-8.2. Using applied natural science knowledge to deal with professional tasks.
Professional Competence PC –2 (2.2, 2.13)	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs.. PC-2.13.Performing physiotherapy procedures

3. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

The course «**Physiopharmacy of dental diseases**» refers to the Compulsory Disciplines of block B1 of the Higher Education Program Curriculum.

Within the framework of the Educational Program, students also master other disciplines and/or practices that contribute to expected learning outcomes of the course «Physiopharmacy of dental diseases».

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

No	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
General professional competences			
GPC-8.1.	Applying basic fundamental physical and chemical knowledge to deal with professional tasks.	Mathematics Physics Science of Dental Materials Chemistry of Biogenic Elements	Obstetrics Physiotherapy of Dental Diseases Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
GPC-8.2.	Using applied natural science knowledge to deal with professional tasks.	Mathematics Physics Biology	Obstetrics Physiotherapy of Dental Diseases Dental Modeling of Teeth Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
Professional Competence			
PC-2.2.	Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs	Innovative Technologies in Dentistry Local anesthesia and anesthesiology in dentistry	Clinical Pharmacology Endodontics Gerontostomatology and diseases of the oral mucosa Periodontics Oral surgery Maxillofacial and Orthognathic Surgery Head and Neck Diseases Pediatric Dentistry Orthodontics and Pediatric Prosthodontics Physiotherapy of Dental Diseases Implantology and Reconstructive Surgery Modern Endodontics Aesthetic Restoration Observing and Assisting a Dentist (Oral Surgery) Observing and Assisting a Dentist (Pediatric) Observing and Assisting a Dentist (General Dentistry), Including Research Practice Preparation for and Passing the State Exam State Exam (Computer Testing) State Exam (Interdisciplinary Interview)
PC-2.13	Performing physiotherapy procedures		Organization of General Care Observing and Assisting a Dentist (General Dentistry), Including Research Practice Preparation for and Passing the State Exam State Exam (Computer Testing)

			State Exam (Interdisciplinary Interview)
--	--	--	--

4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the discipline «**Physiotherapy of dental diseases**» is equal to 2 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering

Type of educational work	Total hours	Semesters			
		X			
Classroom activities (total)	48	48			
among them	-	-			
<i>Lectures</i>					
<i>Practical classes (PC)</i>					
<i>Seminars (S)</i>					
<i>Laboratory classes (LC)</i>	48				
Of them in interactive form (IF)					
Independent work (total)	24	24			
Total workload of disciplines	ac. hours credits	72 2			

Practical classes/seminars are not provided.

5. THE COURSE CONTENTS AND ACADEMIC ACTIVITIES

Table 5.1. The content of the discipline

№	Section name disciplines	Section contents
1	The theoretical basis of physiotherapy, physioprophyllaxis. The organization of physiotherapeutic dental care.	The theoretical basis of physiotherapy, physioprophyllaxis. Physiological mechanisms of physical factors. The organization of physiotherapeutic dental care. Documentation in the work of the physiotherapy room. Fundamentals of safety.
2	Galvanization, medicinal electrophoresis and depophoresis in dentistry.	The mechanism of physical and physiological action of direct current, therapeutic effects in the treatment of dental diseases. Galvanization, medicinal electrophoresis in dentistry Depophoresis. Trans-channel DC current. The method of conducting depophoresis.
3	Pulsed low and medium frequency currents and their use in dentistry.	Pulsed low and medium frequency currents. Indications and contraindications for use in dental practice. Electrical anesthesia. Electroodontodiagnostics, fluctuorization, amplipulse therapy. Techniques and methods of conducting.
4	High-frequency alternating current, electric and	High frequency alternating current, electrical and electromagnetic fields, their application in dentistry.

	electromagnetic fields and their application in dentistry.	Diathermy, diathermocoagulation - physical and physiological action, therapeutic effects. Method of diathermocoagulation for pulpitis, periodontitis, granulation in the periodontal pocket.
5	Phototherapy. Ultrasound therapy in dentistry.	Phototherapy and laser therapy in dentistry Laser therapy of dental diseases. Ultrasound therapy in dentistry. Therapeutic effects of ultrasound. Indications and contraindications for use.
6	Physical methods in the diagnosis and treatment of diseases of hard tooth tissues.	Physical methods in the diagnosis and treatment of diseases of the hard tissues of the tooth. Physiotherapy of periodontal diseases Physiotherapy in the treatment of diseases of the mucous membrane of the oral cavity.
7	The main algorithms for the use of physical factors in the treatment of various dental diseases.	Physiotherapy of inflammatory processes in the maxillary area. Physiotherapy of traumatic injuries of the PMO. Physiotherapy of neurostomatological diseases Physiotherapy of TMJ diseases. Physiotherapy of diseases of the salivary glands.

Table 5.2. The types of academic activities

№	Name of discipline section	L	LC	CPC	Total hours
1	The theoretical basis of physiotherapy, physioprophyllaxis. The organization of physiotherapeutic dental care.		6	3	9
2	Galvanization, medicinal electrophoresis and depophoresis in dentistry.		6	3	9
3	Pulsed currents of low and medium frequency and their use in dentistry.		6	3	9
4	High-frequency alternating current, electrical and electromagnetic fields and their application in dentistry		6	3	9
5	Phototherapy. Ultrasound therapy in dentistry.		6	3	9
6	Physical methods in the diagnosis and treatment of diseases of hard tooth tissues.		6	3	9
7	Algorithms of physical methods in the treatment of dental diseases.		12	6	18

Table 5.3 Laboratory classes

№	The name of the practical classes of the discipline	The amount per semester		
		X		
1	The theoretical basis of physiotherapy, physioprophylaxis. Physiological mechanisms of physical factors.	3		
2	The organization of physiotherapeutic dental care. Documentation in the work of the physiotherapy room. Fundamentals of safety.	3		
3	The mechanism of physical and physiological action of direct current, therapeutic effects in the treatment of dental diseases. Galvanization, medicinal electrophoresis in dentistry	3		
4	Dephoresis. Trans-channel DC current. The method of conducting depophoresis.	3		
5	Pulsed low and medium frequency currents. Indications and contraindications for use in dental practice. Electrical anesthesia	3		
6	Electroodontodiagnostics, fluctuorization, amplipulse therapy. Techniques and methods of conducting.	3		
7	High frequency alternating current, electrical and electromagnetic fields, their application in dentistry	3		
8	Diathermy, diathermocoagulation - physical and physiological effects, therapeutic effects. The method of conducting diathermocoagulation with pulpitis, periodontitis, granulations in the periodontal pocket.	3		
9	Light therapy and laser therapy in dentistry. Laser therapy for dental diseases.	3		
10	Ultrasound therapy in dentistry. Therapeutic effects of ultrasound. Indications and contraindications for use.	3		
11	Physical methods in the diagnosis and treatment of diseases of hard tooth tissues.	3		
12	Physiotherapy of periodontal diseases Physiotherapy in the treatment of diseases of the oral mucosa.	4		
13	Physiotherapy of inflammatory processes in CLO. Physical therapy of traumatic lesions of CLO.	4		
14	Physiotherapy of neurostomatological diseases Physiotherapy of diseases of the TMJ. Physiotherapy of diseases of the salivary glands.	4		
15	Total: 45	45		

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

For classes in the physiotherapy of dental diseases, specially equipped classrooms and physiotherapy rooms at the dental clinic are used: multimedia installations, laptops, screens, multimedia discs with a set of illustrated materials, physiotherapy devices and accessories for them.

7. RECOMMENDED SOURSES for COURSE STUDIES

1. software_ - there is Microsoft office 2012 software for practical training
2. resources of the information and telecommunication network "Internet":
3. EBS of RUDN University and third-party EBS to which university students have access on the basis of concluded agreements:
 - a. Electronic library system RUDN - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
 - b. EBS "University Library Online" <http://www.biblioclub.ru>
 - c. EBS Yurayt <http://www.biblio-online.ru>
 - d. EBS "Student Consultant" www.studentlibrary.ru
 - e. EBS "Doe" <http://e.lanbook.com/>
4. Databases and search engines:
 - a. PUBMED
 - b. SCOPUS abstract database <http://www.elsevierscience.ru/products/scopus/>
 - c. WHO Documentation Center <http://whodc.mednet.ru/>
5. Literature:
 - a. Аппаратные методы диагностики и лечения заболеваний зубов = Device-assisted methods of diagnostics and treatment of tooth diseases : учебное пособие / А. Г. Волков [и др.]. – Москва : РУДН, 2020. – 80 с. : ил. ISBN 978-5-209-10585-5

8. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation Toolkit (ET) and a point-rating system (PRS)* for assessment the level of competence formation (part of competencies) based on the results of mastering the discipline "Physiopherapy of dental diseases" are presented in the Appendix to this Work Program of the discipline.

* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

DEVELOPERS:

Head of Conservative
Dentistry Department,
Associate Professor

Z.S. Khabadze

signature

Head of Educational Process
of Conservative Dentistry
Department, Associate
Professor

I.V. Bagdasarova

signature

Associate Professor of
Conservative Dentistry
Department

M.K. Makeeva

signature

HEAD OF DEPARTMENT:

Head of Conservative
Dentistry Department,
Associate Professor

Z.S. Khabadze

signature

HEAD OF HIGHER EDUCATIONAL PROGRAMME:

Deputy Director of MI for
Academic Affairs

S.N. Razumova

signature