Federal State Budgetary Educational Institution of Higher Education "Privolzhsky Research Medical University" Ministry of Health of the Russian Federation

> APPROVED Vice-Rector for Academic Affairs E.S. Bogomolova 31 August 2021

WORKING PROGRAM

Name of the academic discipline: Research methods in dentistry

Specialty: 31.05.03 - DENTISTRY

Qualification: **DENTIST**

Department: ORTHOPEDIC DENTISTRY AND ORTHODONTICS

Mode of study: (FULL-TIME)

Labor intensity of the academic discipline: 36 academic hours

Nizhny Novgorod 2021 The working program has been developed in accordance with the Federal State Educational Standard for the specialty 31.05.03 «DENTISTRY» approved by Order of the Ministry of Science and Higher Education of the Russian Federation № 984 dated August 12, 2020.

Developers of the working program:

- Saakyan M.Yu., Doctor of Medical Sciences, Associate Professor, Head of the Department of Orthopedic Dentistry and Orthodontics «PRMU»;

- Goryacheva I. P., Candidate of Medical Sciences, Associate Professor of the Department of Orthopedic Dentistry and Orthodontics «PRMU»;

- Velmakina I. V., Candidate of Medical Sciences, Associate Professor of the Department of Orthopedic Dentistry and Orthodontics «PRMU»;

- Alekseeva N.A., Candidate of Medical Sciences, Associate Professor of the Department of Orthopedic Dentistry and Orthodontics «PRMU»;

The program was reviewed and approved at the meeting of the Department of Orthopedic Dentistry and Orthodontics «PRMU» (Protocol № 1 of 30.08.2021).

Head of the Department, Doctor of Medical Sciences, Associate Professor

(aay -_ (Saakyan M.Yu.)

30 August 2021

AGREED Deputy Head of EMA ph.d. of biology

Mot_Lovtsova L.V.

30 August 2021

1. The purpose and objectives of mastering the academic discipline — Research methods in dentistry

• **1.1.** The purpose of mastering the discipline: (*participation in forming the relevant competencies*): UC - 1, PC - 6, PC - 7.

1.2. Tasks of the discipline:

To achieve this goal, the following tasks must be solved:

- 1. to familiarize students with the principles of organization and operation of the orthopedic dentistry clinic and dental laboratory;
- 2. to teach the peculiarities of examination of patients with defects and deformities of teeth and dentition, periodontal and TMJ diseases, deformities and defects of the maxillofacial region, pathological conditions of the dental system associated with an anomaly of the development of the dental system;
- 3. to teach the basics of diagnosis and planning of orthopedic treatment;
- 4. to teach students the methods of conducting the clinical stages of manufacturing fixed and removable denture structures;
- 5. to familiarize students with the laboratory stages of manufacturing various fixed and removable dentures;
- 6. to familiarize with possible complications in orthopedic treatment with fixed and removable dentures and methods of their elimination and prevention.

The objectives of mastering the discipline are also to master the necessary stock of theoretical knowledge and practical skills, the ability to use them in the treatment of patients, knowledge of the fundamental and organizational principles of orthopedic dentistry, dental materials science and dental prosthetic technology, prevention measures and recognition of major dental diseases, possession of clinical methods of treatment of orthopedic patients.

1.3. Requirements to the deliverables of mastering the discipline.

As a result of completing the discipline, the student should **To know:**

1. Principles of dispensary dental observation of various age-sex and social groups of the population, rehabilitation of patients

2. Maintenance of standard accounting and reporting medical documentation in medical organizations of dental profile

3. The complex relationship between dental health, nutrition, general health, diseases, and the use of medicines

4. General principles and features of the diagnosis of hereditary diseases and congenital anomalies.

- 5. Occlusion, biomechanics of the dental system.
- 6. Properties of dental materials and preparations used in dental practice,
- 7. Dental instruments and equipment

8. Stages of development of orthopedic dentistry, the role of leading scientists in the development of the discipline. Principles of the organization of the orthopedic office and department, methods of disinfection and sterilization of dental equipment and instruments

9. Classification, properties, indications for the use of impression materials, rules for working with them;

10. Methods of examination of the patient in the clinic of orthopedic dentistry, filling out the medical history, rules of deontology;

11. Principles and sequence of tooth preparation for stamped, solid-cast, plastic, combined and ceramic crowns;

12. Technology of various types of fixed prostheses;

13. Principles of formation of cavities during prosthetics with tabs, methods of modeling tabs;

14. Features of treatment of patients with manifestations of intolerance to dental materials used in the manufacture of fixed prostheses.

15. Types of bites

16. Biomechanics of the maxillofacial system, occlusal theories in intact dentition;

Be able to:

1. Collect a complete medical history of the patient, including data on the condition of the oral cavity and teeth, conduct a survey of the patient and relatives (collect biological, medical, psychological and social information)

2. Interpret the results of examinations, make a preliminary diagnosis to the patient, outline the scope of additional studies to clarify the diagnosis

3. Formulate a clinical diagnosis

4. Maintain medical documentation of various types of dental outpatient and inpatient institutions

5. Promote a healthy lifestyle,

6. To carry out work on the promotion of dental health aimed at the prevention of hereditary and congenital diseases

7. Make a diagnostic impression, cast a model

8. Evaluate the effectiveness and safety of the treatment

9. Apply methods of asepsis and antiseptics, medical instruments, medical devices for laboratory diagnostic and therapeutic purposes

10. To carry out odontopreparation, to control laboratory production of a crown, and also to make their correction, to carry out indirect restoration of a tooth crown

11. Work with dental instruments, materials, tools and equipment.

- 12. Determine the degree of mobility of teeth;
- 13. Determine the malleability and mobility of the oral mucosa;
- 14. Dissect cavities under tabs;

15. Prepare teeth for stamped, solid-cast, plastic, combined, metal-ceramic and ceramic crowns;

16. Perform application, infiltration, and conduction anesthesia when preparing teeth for fixed dentures;

17. Read radiographs (sighting, panoramic, orthopantomograms);

18. Simulate tabs on the phantom and in the oral cavity;

19. Prepare the plaster and get an impression with it, as well as compose and glue it;

- 20. Get impressions with elastic impression materials, cast models;
- 21. Store and fix tabs;
- 22. To store and fix metal, plastic and combined crowns;
- 23. Prepare cement for fixing fixed prostheses;
- 24. Work with fast-hardening plastics;
- 25. To plaster the jaw models into the articulator;

Possess:

1. Methods of maintaining medical accounting and reporting documentation in medical organizations

2. Assessments of the state of dental health of the population of various age and gender groups

3. Methods of general clinical examination of children and adults

4. Clinical methods of examination of the maxillofacial area

5. The algorithm of making a preliminary diagnosis to patients and, if necessary, with their subsequent referral to additional examinations and to specialist doctors

6. The method of reading various types of radiographs

7. Determination of dental indices

8.Methods of diagnosis and treatment of defects of hard tissues of teeth with orthopedic structures

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1 The discipline research methods in dentistry refers to the core part of Block 1 of GEP HE. The discipline is studied in the fourth semester.

Orthopedic dentistry is a profile discipline of paramount importance. The main task of the Department of Orthopedic Dentistry is the theoretical and practical training of a doctor capable of solving issues of prevention, diagnosis and treatment of dental diseases. The general preventive orientation of the orthopedic dentist will be most fully disclosed to the student during the general medical examination of the population, which allows you to get acquainted with all dental diseases, their treatment local and general, preventive manipulations, as well as recommendations and tips that certainly accompany the therapeutic and preventive activities of the doctor.

Based on the knowledge gained by the student at the general clinical, general biological, dental departments and the Department of Children's Diseases, to teach students the peculiarities of prevention, clinic, diagnosis and treatment of dental diseases. To prepare a doctor who is able to work in a medical and preventive institution after the internship.

Orthopedic dentistry includes such a volume of theoretical material and practical skills that allows you to observe the principle of continuity of clinical training in the main sections of the discipline (prevention, therapy, orthodontics, surgery) and related specialties, providing an opportunity to teach, treat, study and put into practice new methods of prevention, treatment and medical examination.

Research methods in dentistry are used in the formation of the content of the final state certification in the specialty dentistry.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

human anatomy, radiation diagnostics and therapy, histology with embryology, pathological anatomy and physiology, normal physiology, pharmacology, microbiology, propaedeutic dentistry, therapeutic dentistry.

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

therapeutic dentistry, surgical dentistry, orthodontics, pediatric dentistry.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies:

	Comp	The content of	Code and name of the	As a result	•	-
p/n	etence	the	competence acquisition	discipline,		
0.	code	competence (or part of it)	metric	To know	Be able	Possess
1.	UC-1	(or part of it) He is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	IUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUC 1.2 is able to: acquire new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience IUC 1.3 Has practical experience: research of the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving	Methods of informati on analysis and synthesis	to Think abstract ly, analyze and synthesi ze informa tion.	Abstract thinking, analysis and synthesis of the received information
2.	PC -6	Readiness to collect, analyze complaints and other information from the patient (relatives/ legal representative s), his anamnesis data, interpretation of examination results, laboratory, instrumental, pathoanatomic	professional problems IPC 6.1 Knows: The methodology of collecting complaints and anamnesis from patients (their legal representatives). Methods of physical examination of patients (examination, palpation, percussion, auscultation). The procedure for providing medical care to adults with dental diseases The procedure for providing medical care to children with dental diseases Clinical recommendations on the provision of medical care to patients with dental diseases Standards of medical care IPC 6.2.Can:	Internati onal Statistica 1 Classific ation of Diseases.	Apply the Internat ional Statistic al Classifi cation of Disease s	The methodolog y for determining the main pathologica l conditions and syndromes in patients in accordance with the Internationa l Statistical Classificati on of Diseases.

		I	1
and other	interpret the results of		
studies in	examination, laboratory,		
order to	instrumental,		
recognize the	pathoanatomic and other		
condition or	studies in order to recognize		
establish the	the condition or establish		
presence or	the presence or absence of		
absence of	dental disease, symptoms,		
dental disease,	syndromes of dental		
	•		
symptoms,	diseases, the establishment		
syndromes of	of nosological forms in		
dental	accordance with the		
diseases,	International Statistical		
establishment	Classification of Diseases		
of nosological	and Health-related		
forms in	Problems and other		
accordance	regulatory documents of the		
with	Ministry of Health of the		
International	Russian Federation		
statistical	(Procedure for medical		
classification	care, Standard of medical		
of diseases	care, Clinical		
and health-	recommendations on the		
related	provision of medical care,		
problems and	etc.)		
other	Develop a treatment plan		
	for children and adults with		
regulatory			
documents of	dental diseases in		
the Ministry	accordance with the		
of Health of	procedures for providing		
the Russian	medical care, clinical		
Federation	recommendations, taking		
`	into account the standards		
medical care,	of medical care.		
Standard of			
Medical Care,	IPC 6.3 Has practical		
Clinical	experience:		
recommendati	interpretation of the results		
ons on	of examination, laboratory,		
medical care,	instrumental,		
etc.)	pathoanatomic and other		
	studies in order to recognize		
	the condition or establish		
	the presence or absence of		
	dental disease, symptoms,		
	syndromes of dental		
	diseases, the establishment		
	of nosological forms in		
	accordance with the		
	International Statistical		
	Classification of Diseases		
	and Health-related		

			Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for medical care, Standard of medical care, Clinical recommendations on the provision of medical care, etc.) Development of a treatment plan for children and adults with dental diseases, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care			
3.	PC -7	Ability to determine the tactics of management of patients with various dental diseases in accordance with Clinical recommendati ons and other regulatory documents of the Ministry of Health of the Russian Federation in outpatient and day hospital conditions, taking into account the age of the patient.	IPC 7.1 Knows: Methods of drug and non- drug treatment, medical indications for the use of medical devices for dental diseases Groups of medicines used to provide medical care in the treatment of dental diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen Principles, techniques and methods of anesthesia, selection of the type of local anesthesia in the treatment of dental diseases Methods of preventing or eliminating complications, side effects, adverse reactions, including serious and unforeseen, that occurred during the examination or treatment of	Tactics of manage ment of patients with diseases of the dental system.	To determi ne the tactics of manage ment of patients with diseases of the dental system.	Tactics of managemen t of patients with diseases of the dental system.

r		1 1	1
	patients with diseases of the		
	teeth, pulp, periodontal,		
	periodontal, oral and lip		
	mucosa		
	Materials science,		
	technologies, equipment		
	and medical products used		
	in dentistry		
	Anatomy of the head,		
	•		
	6 ,		
	features of blood supply		
	and innervation; structure of		
	teeth; histology and		
	embryology of the oral		
	cavity and teeth, the main		
	disorders of embryogenesis		
	IPC 7.2.Can:		
	Develop a treatment plan		
	for children and adults with		
	dental diseases in		
	accordance with the		
	procedures for providing		
	medical care, clinical		
	recommendations, taking		
	into account the standards		
	of medical care		
	To select and prescribe		
	medications, medical		
	devices (including dental		
	-		
	materials), dietary nutrition,		
	therapeutic and wellness		
	regimen for the treatment of		
	children and adults with		
	dental diseases in		
	accordance with the current		
	procedures for providing		
	medical care, clinical		
	recommendations, taking		
	into account the standards		
	of medical care		
	Determine medical		
	indications and		
	contraindications to local		
	anesthesia techniques of the		
	maxillofacial region		
	To carry out local		
	anesthesia (application,		
	infiltration, conduction) in		
	children and adults with		
	dental diseases		
	Perform medical		
	interventions, including		

therapeutic, in children and		
adults with dental diseases		
on an outpatient basis		
(excluding repeated		
endodontic treatment):		
- individual oral and dental		
hygiene training, selection		
of oral hygiene products		
and items		
- controlled brushing of		
teeth		
- professional oral and		
dental hygiene		
- injection of drugs in the		
maxillofacial region		
- local application of		
remineralizing drugs in the		
tooth area		
- deep fluoridation of tooth		
enamel		
- sealing the fissure of the		
tooth with a sealant		
- professional teeth		
whitening		
- grinding of hard tooth		
tissues		
- restoration of the tooth by		
filling using dental cements,		
chemical curing materials,		
photopolymers		
-restoration of teeth with		
violation of the contact		
point		
- restoration of the tooth		
with filling material using		
anchor pins		
- applying a devitalizing		
paste		
- pulpotomy (amputation of		
the crown pulp)		
- pulp extirpation		
- instrumental and medical		
treatment of a well-		
traversed root canal		
- temporary filling of the		
root canal with a drug		
- filling of the root canal of		
the tooth with paste, gutta-		
percha pins		
- removal of supergingival		
and subgingival dental		
deposits in the tooth area		
ueposits in the tooth area	I	

(by manual method) ultrasound removal of supra-gingival and subgingival dental deposits in the tooth area closed curettage for periodontal diseases in the tooth area application of a therapeutic bandage for periodontal diseases in the area of one jaw prescribing drug therapy for diseases of the oral cavity and teeth appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): tooth etraction
supra-gingival and subgingival dental deposits in the tooth area - closed curettage for periodontal diseases in the tooth area - application of a therapeutic bandage for periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
subgingival dental deposits in the tooth area - closed curettage for periodontal diseases in the tooth area - application of a therapeutic bandage for periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
in the tooth area - closed curettage for periodontal diseases in the tooth area - application of a therapeutic bandage for periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
 closed curettage for periodontal diseases in the tooth area application of a therapeutic bandage for periodontal diseases in the area of one jaw prescribing drug therapy for diseases of the oral cavity and teeth appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): tooth extraction removal of a temporary tooth
periodontal diseases in the tooth area - application of a therapeutic bandage for periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
tooth area - application of a therapeutic bandage for periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
 application of a therapeutic bandage for periodontal diseases in the area of one jaw prescribing drug therapy for diseases of the oral cavity and teeth appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): tooth extraction removal of a temporary tooth
therapeutic bandage for periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
periodontal diseases in the area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
area of one jaw - prescribing drug therapy for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
 prescribing drug therapy for diseases of the oral cavity and teeth appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): tooth extraction removal of a temporary tooth
 prescribing drug therapy for diseases of the oral cavity and teeth appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): tooth extraction removal of a temporary tooth
for diseases of the oral cavity and teeth - appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
- appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
- appointment of dietary therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
therapy for diseases of the oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
oral cavity and teeth Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
Perform medical interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
interventions, including surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
surgical, in children and adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
adults with dental diseases on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
on an outpatient basis (excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
(excluding the removal of retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
retentive and dystopian teeth): - tooth extraction - removal of a temporary tooth
teeth): - tooth extraction - removal of a temporary tooth
- tooth extraction - removal of a temporary tooth
- removal of a temporary tooth
tooth
normanant tooth ramoval
- permanent tooth removal - opening and drainage of
an odontogenic abscess
To carry out step-by-step
sanitation of the oral cavity (avaluding conjugation of the
(excluding sanitation of the
oral cavity in children in the
conditions of an anesthetic
manual) Derform
Perform medical
interventions, including
orthopedic, in adults with
dental diseases on an
outpatient basis (excluding
prosthetics on dental
implants, technologies for
automated manufacturing of
orthopedic structures,
complete removable plate
and clasp prostheses):
- obtaining anatomical and
functional impressions
- restoration of the tooth

		1	
	with a crown		
	- restoration of the integrity		
	of the dentition with fixed		
	bridges		
	- prosthetics with partial		
	removable plate prostheses		
	- correction of removable		
	orthopedic construction		
	-		
	- removal of a non-		
	removable orthopedic		
	structure		
	Interpret the results of X-		
	ray examinations of the		
	maxillofacial region		
	To consult children and		
	adults with diseases of the		
	mucous membrane of the		
	mouth and lips, to		
	determine indications for		
	referral to specialist doctors		
	Prevent or eliminate		
	complications, side effects,		
	undesirable reactions,		
	including unforeseen ones,		
	resulting from diagnostic or		
	therapeutic manipulations,		
	the use of medicines and		
	(or) medical devices, non-		
	drug treatment		
	IPC 7.3 Has practical		
	experience:		
	Selection and appointment		
	of medicines, medical		
	devices (including dental		
	materials) for the treatment		
	of dental diseases in		
	children and adults in		
	accordance with the current		
	procedures for the provision		
	of medical care, clinical		
	recommendations, taking		
	into account the standards		
	of medical care		
	Prescribing dietary		
	nutrition, therapeutic and		
	health regime for the		
	treatment of dental diseases		
	in children and adults in		
	accordance with the current		
	procedures for providing		
	medical care, clinical		
	recommendations, taking		
· · ·		• •	

ı		1	1
	into account the standards		
	of medical care		
	Performing medical		
	interventions in children		
	and adults with dental		
	diseases in accordance with		
	the current procedures for		
	providing medical care,		
	clinical recommendations,		
	taking into account the		
	standards of medical care		
	Evaluation of the results of		
	medical interventions in		
	children and adults with		
	dental diseases		
	Selection of the type and		
	implementation of local		
	anesthesia (application,		
	infiltration, conduction) in		
	children and adults with		
	dental diseases		
	Evaluation of the		
	effectiveness and safety of		
	the use of medicines,		
	medical devices and non-		
	drug treatment in children		
	and adults with dental		
	diseases		
	Counseling children and		
	adults with diseases of the		
	mucous membrane of the		
	mouth and lips, determining		
	indications for referral to		
	specialist doctors		
	Selection and appointment		
	of medicines and medical		
	devices, taking into account		
	the diagnosis, age and		
	clinical picture of dental		
	disease in accordance with		
	the procedures for		
	1		
	providing medical care,		
	clinical recommendations,		
	taking into account the		
	standards of medical care		
	Determination of methods		
	of administration, regimen		
	and dose of drugs		
	Selection and appointment		
	of non-drug treatment for		
	children and adults with		
	dental diseases in		

4. Sections of the academic discipline and competencies that are formed when mastering them

n/a	Competen ce code	Section name of the discipline	The content of the section in teaching units
1	UC-1, PC-6, PC-7	Research methods in dentistry	The study of types and methods of examination of patients in the clinic of orthopedic dentistry. Conducting clinical examination methods. Additional methods of examination, indications for their purpose.

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor in		La	bor int	tensity by	y semest	er (AH)		
	volum	volum							
	e in	e in	4	5	6	7	8	9	10
	credit	acade							
	units	mic							
	(CU)	hours							
		(AH)							
Classroom work,	0,61	22	22						

including						
Lectures (L)	0,06	2	2			
Laboratory practicum						
(LP)*						
Practicals (P)	0,56	20	20			
Seminars (S)						
Student's individual work	0,38	14	14			
(SIW)						
Mid-term assessment						
exam						
TOTAL LABOR	1	36	36			
INTENSITY						

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

N⁰	Name of the section of the		Types of academic work* (in AH)								
	academic discipline	L	LP	Р	S	SIW	total				
1	Research methods in dentistry.	2		20		14	36				
	TOTAL	2		20		14	36				

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

N⁰	Name of lecture topics	Volume in AH						
		Seme Seme Seme Seme S			Seme	Seme		
		ster 4	ster 5	ster 6	ster 7	ster 8	ster 9	ster 10
1	Diagnostic methods in orthopedic dentistry.	2						
	TOTAL (total - 2 AH)	2						

6.2.2. The thematic plan of laboratory practicums

Laboratory workshops on research methods in dentistry are not provided by federal state educational standard

6.2.3. Thematic plan of practicals

Practical classes on research methods in dentistry are not provided by federal state educational standard

6.2.4. Thematic plan of seminars

N⁰	Name of seminar topics	Volume in AH						
		Sem	Sem	Sem	Sem	Sem	Sem	Semes
		ester	ester	ester	ester	ester	ester	ter 10
		4	5	6	7	8	9	
1	Methods of studying occlusion and	5						
	diagnosis of occlusive disorders. Using the							
	T-SCAN device to study occlusion. Practical							
	part: reproduction of the central, anterior							
	and lateral occlusions, the posterior contact							

	position, checking the presence of super contacts by students with each other using occlusion paper.				
2	Methods of studying the function of the muscles of the maxillofacial region. Clinical methods. Gnathodinamometry. Electromyography. Myotonometry. Practical part: palpation of masticatory muscles, conducting EMG by students from each other	5			
3	Methods of TMJ research. Clinical and radiological methods. Phonoarthrography. Axiography. MRI. The use of the K-7 device in the diagnosis of TMJ diseases. Practical part: obtaining diagnostic models of the jaws, the imposition of the facial arch, palpation and auscultation of the TMJ, the study of CT of the TMJ.	5			
4	Methods of periodontal examination. Clinical research methods. Rheoparodontography. Ultrasound Dopplerography. Laser Doppler flowmetry. Echoosteometry. Periotestmetry. Biochemical analysis of gingival fluid. Gum biomicroscopy. Thermometry. The practical part: examination of periodontal disease by students from each other, determination of periodontal indices.	5			
	TOTAL (total - 20 AH)	20			

6.2.5. Types and topics of student's individual work (SIW)

p/	Types and topics of SIW	Volume in AH per semester						
n								
0.				-	-		-	-
		4	5	6	7	8	9	10
1	Work with lecture material, which provides for the elaboration of lecture notes and educational literature, solving situational problems.	6						
2	Search and review of literature and electronic sources of information on an individually given course problem, writing an abstract on a given problem, preparing for discussion and control work.	4						
3	Writing medical records, working	4						

with electronic educational resources posted on the educational portal of the Academy.				
the Academy.				
TOTAL (total - 14ACH)	14			

7. Types of assessment formats for ongoing monitoring and mid-term assessment

The final state certification is conducted at the Department of Orthopedic Dentistry in the 10th semester. To conduct the final state certification in dentistry in the 5th year in the 10th semester, exam tickets, tests, practical tasks are used. During classes, only the current monitoring of academic performance is carried out.

The following methods of control are used for the current control of academic performance at the department:

- control works;
- individual survey;
- testing;
- writing essays;
- solving situational problems

							Assessme	ent formats	
N⁰	Se me ster No.	Types of	f control	Name of section of academic discipline		Competence codes	types	number of test questions	number of test task options
	4		Control of			UC-1, PC-6, PC-7	Test tasks	20	80
1.		Curren t monit oring	mastering the topic				Testing of practica l skills	4	4
			Monitoring the student's individual work	Research methods dentistry	in		Intervie w	4	12
	4	Mid- term assess	Exam/ Credit	dentisti y			Situatio nal tasks	2	10
2.		ment					Writing a fragmen t of the medical history	1	1

Examples of evaluation tools:

Example of test tasks:

OCCLUSAL CURVES ARE KNOWN:

sagittal, transversal, sagittal and transversal.

DETERMINE THE SEQUENCE OF ACTIONS FOR THE DIAGNOSIS OF MUSCULOSKELETAL DYSFUNCTION OF THE TMJ eletromyography of masticatory muscles analysis of lower jaw movements TMJ tomography palpation of the masticatory muscles palpation of the oral cavity examination of the oral cavity analysis of occlusal relationships of dentition

TERMS OF USE OF OCCLUSIVE SPLINTS IN TMJ DISEASES: one week, two weeks, one month, 3-6 months.

SPECIFY ORTHOPEDIC METHODS OF TREATMENT OF PATIENTS WITH NEUROMUSCULAR DYSFUNCTIONAL SYNDROME. autogenic training, therapeutic gymnastics, medical treatment, hypnosis, local anesthesia, physiotherapy treatment, correction of occlusion, application of the Petrosov limiting tire, the use of an occlusive mouth guard (splint).

ABSOLUTE INDICATIONS FOR GENERAL ANESTHESIA DURING DENTAL PREPARATION ARE: inability to perform dental preparation under local anesthesia intolerance to local anesthetics inefficiency of local anesthetics an insurmountable fear of dental interventions

Example of situational tasks:

Task №1

The patient (36 years old) applied to the clinic with complaints about the destruction of crowns 1.1,1.3, 2.2 and the absence of 2.3.

Objectively: 1.1;1.3; 2.2 - destroyed to the level of the gum. The roots are stable. Percussion is painless. 2.3 missing. 3.6, 3.7 are destroyed to the level of the gum, mobility of the 1st degree, percussion is weakly painful. The tooth-alveolar elongation is 2.6, 2.7 by 4 mm.

4.6 is missing. 4.7,4.8 have a mesial slope.

Dental Formula: 87654R2R 1R045678 87054321 12345RR8

On the R-gram, the channels 1.3; 1.1; 2.2 are not sealed, 1.3 is the expansion of the periodontal gap, in the periapical region of the tooth 1.1 is the rarefaction of bone tissue with clear

boundaries with a diameter of 3 mm, in the area of the tip of the tooth 2.2 is the rarefaction of bone tissue with clear boundaries with a diameter of 5 mm. Channels 3.6, 3.7 are not sealed, rarefaction of bone tissue in the bifurcation area 3.6. Foci of rarefaction of bone tissue in the area of the tips of the roots of a rounded shape with clear boundaries with a diameter of 3 mm of the tooth 3.6, a diameter of 5 mm of the tooth 3.7.

Questions:

- 1. Make a diagnosis.
- 2. What additional diagnostic methods should be prescribed to the patient.
- 3. Make a plan for preparing the oral cavity for prosthetics.

Task №2

A 62-year-old patient went to the clinic with complaints of pain and mobility 14 and 44. It was found out from the anamnesis that 2 years ago most of the teeth on the upper and lower jaw were removed, and 2 weeks after the removal, 2 removable plate prostheses were made. He was not given any instructions to re-apply.

Objectively: the face is symmetrical, chin and nasolabial folds are moderately pronounced.

•			•													-
	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Dental formula:	0	7	0	0	4	0	0	0	0	0	0	0	0	0	7	0

The ratio of the jaws is orthognathic. All teeth have mobility of 1 degree. In the position of the central occlusion, only 14 and 44 are tightly closed.

Questions: 1. Make a diagnosis.

2. What additional diagnostic methods should be prescribed to the patient.

3. Make a treatment plan.

Task №3

The patient, 55 years old, went to the clinic with complaints about the lack of teeth. From the anamnesis it was revealed that the patient suffers from hypertension, vegetative-vascular dystonia, gastric ulcer. Has a fear of dental manipulations.

Objectively: the face is symmetrical, the height of the lower third of the face has not been changed. Dental formula: missing 35, 44, 45. 36 under the seal located on the occlusal and distal contact surfaces, treated 20 years ago. On the X-ray, the medial channels are not sealed to the tip, in the area of the medial root there is a rarefaction of bone tissue with clear contours, with a diameter of 3 mm. There are no changes in the distal root area, the canal is sealed to the tip, evenly throughout.

- 1. Make a diagnosis.
- 2. Make a treatment plan.
- 3. What additional diagnostic methods should be prescribed to the patient.

Task № 4

A 35-year-old patient came to the clinic with complaints about the absence of 24. Objectively: 24 are missing, there are carious cavities on the mesial surface 25 and distal surface 23. Probing is painful along the enamel-dentine border. Percussion is painless.

- 1. Make a diagnosis.
- 2. What additional examination methods are needed.

3. Make an orthopedic treatment plan.

Task №5

A 40-year-old patient complained of difficulty chewing food and pain in the right temporal region.

Objectively: the face is symmetrical, the skin is physiologically colored, when opening the mouth, a zigzag movement of the lower jaw is observed. Palpation of the masticatory and temporal muscles on the right is painful. The height of the lower third of the face has not been changed. The mucous membrane is pale pink, without visible pathological changes, moderately moistened. The teeth are stable. The bite is a deep incisor overlap.

Dental formula: 87654321 12345678

87054321 12345678

Tooth 4.6 was removed 10 years ago, 4.7 touches the antagonist tooth only with a distal buccal bump. In the central occlusion, multiple contacts between antagonistic teeth are determined. When the lower jaw is shifted to the left, the contacts between teeth 1.7 and 4.7, 1.8 and 4.8 are determined, on the left – the teeth are separated.

Questions:

- 1. Make a diagnosis.
- 2. What type of premature contacts was detected during the examination.
- 3. Describe the closure of teeth in central, anterior and lateral occlusions in persons with orthognathic bite.
- 4. Suggest an orthopedic treatment plan.

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

		Number of ins	tances
n/a	Name according to bibliographic requirements	in the library	at the department
1	2	3	4
1	Orthopedic Dentistry (faculty course): textbook –	24 + electronic	1
	9th ed., reprint. Shcherbakov, L.M. Mishnev; edited by V.N. Trezubov. Moscow:GEOTAR – Media, 2019. – 688 p.	resource http://www.studmedli b.ru/ru/book/ISBN978 5970445914.html	
2	Orthopedic dentistry (non-removable dental prosthetics): textbook O.R. Kurbanov, A.I. Abdurakhmanov, S.I., Abakarov. Moscow: GEOTAR – Media, 2015. – 456 p.	73 + electronic resource <u>http://www.studmedli</u> <u>b.ru/book/ISBN97859</u> 70432945.html	1
3	Functional occlusion: from the temporomandibular joint to smile planning. Dawson P.E. Publishing house:Practical Medicine Russia, 2016 - 592	1	4
4	Orthopedic dentistry: textbook. – 2nd Edited by E.S. Kalivrajian, I.Yu. Lebedenko, E.A. Bragina, I.P. Ryzhova.ed. Moscow: GEOTAR-Media, 2018. – 800 p.	https://www.rosmedli b.ru/book/ISBN97859 70437056.html?custo m_pat_file=rosmedlib &custom_pat_id=boo	1

		k.main_frame.(id)&cu stom_pat_use_id=boo k.main_frame.(x)&XP artner=medknigaservi S	
5	Diseases of the oral mucosa: a textbook. O. A. Uspenskaya, E. N. Zhulev. NizhGMA Publishing House, 2017. – 504 p.	20	1
6	Treatment of periodontal diseases: a textbook. E. N. Zhulev, N. V. Kruglova, A. V. Kochubeynik NizhGMA Publishing House, 2016. – 160 p.	48	1
7	Orthopedic dentistry. Zhulev E.N. Moscow: Medical Information Agency, 2012 – 824 p.	31 + electronic resource.	1
8	Integrative dentistry (monograph). Zhulev E.N., Troshin V.D. Publishing house NizhGMA – 2014 - 651c.	24 + electronic resource	1
	8.2. Further reading		

nla	Name according to hibliographic requirements	Number	of instances
n/a	Name according to bibliographic requirements	in the library	at the department
1	2	3	4
1.	Preliminary treatment of patients before dental prosthetics. Study guide. Trezubov V. N. 2009, Moscow, publishing house MIA	1	1
2.	Orthopedic treatment of periodontal diseases. The most important issues of dentistry. Kopeikin V. N. M., Triad- $X 1998$	3	1
3.	Orthopedic dentistry (test tasks). Zhulev E.N. Shcherbakov A.S 2004. N.Novgorod publishing house NizhGMA	56	1
4.	Dental ceramics. Current aspects of clinical application. To. Hemmerle. 2011 Moscow: Publishing house "Abc of the dentist"	1	1
5.	Precision and Aesthetics. Clinical and dental stages of dental prosthetics Massironi D., Paschetta R., Romeo D. 2008 Moscow: Publishing house "Abc of the dentist"	1	1
6.	Fundamentals of dental preparation for the manufacture of cast metal, metal-ceramic and ceramic restorations. G. Schillinburg, R. Jacobi, S. Brackett. 2011 Moscow: Publishing house "Abc of the dentist"	1	1

7.	"Dentistry", "New in stomatology", "Quintessence", "Dentart", "STM", "Panorama of orthopedic dentistry", "Clinical dentistry", "Dent-art" Periodical literature – dental journals. Various publishing houses of the cities: Moscow, St. Petersburg and N. Novgorod	One copy for each release period.	0
8.	Fixed prostheses: theory, clinic and laboratory equipment, 5th edition Zhulev E. N. 2010, Moscow, "Medical Information Agency»	24 + electronic resource	1
9.	Partial removable prostheses (theory, clinic and laboratory equipment): A guide for doctors. 2nd edition. Zhulev E.N. 2011. Moscow, "Medical Information Agency	73 + electronic resource	1
10.	Clinic, diagnosis and orthopedic treatment of periodontal diseases. Zhulev E. N. 2003, N.Novgorod,	53	1

11.	Metal-ceramic prostheses. Study guide. Zhulev E. N. 2004, N. Novgorod, NizhGMA publishing house	57	1
12.	Orthopedic dentistry. The phantom course. Zhulev E.N., Kuryakina N.V., Mitin N.V. Moscow, Medical Information Agency, 2011. – 720 p.		1
13.	Maxillofacial orthopedic dentistry Zhulev E.N., Arutyunov S.D., Lebedenko I.Yu. Moscow: Medical Information Agency, 2008 – 156 p.	31 + electronic resource.	1
14.	Fixed prostheses: theory, clinic and laboratory equipment, 5th edition Zhulev E. N. 2010, Moscow, "Medical Information Agency	24 + electronic resource	1

15.	Partial removable prostheses (theory, clinic and laboratory equipment): A guide for doctors. 2nd edition. Zhulev E.N. 2011. Moscow, "Medical Information Agency".	73 + electronic resource	1
-----	--	--------------------------------	---

8.3. Electronic educational resources for teaching academic subjects8.3.1. Internal Electronic Library System of the University (IELSU)

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Internal Electronic Library System (EBS)	The works of the academic staff of the Academy: textbooks and manuals, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents.	J	Not limited

8.3.2. Electronic educational resources acquired by the University

	cational resources acquired by the	ž	
Name of the	Brief description (content)	Access conditions	Number of users
electronic resource			
Electronic database	Educational literature +	from any computer on the	General PIM
"Student	additional materials (audio,	Internet, using an	subscription
Consultant"	video, interactive materials, test	individual login and	
	tasks) for higher medical and	password	
	pharmaceutical education.	[Electronic resource] –	
	Publications are structured by	Access mode:	
	specialties and disciplines in	http://www.studmedlib.ru /	
	accordance with the current		
	Federal State Educational		
	Standards of Higher Education.		
Electronic library	Educational and scientific	from any computer located	General PIM
system "Bukap"	medical literature of Russian	on the Internet by login and	subscription
	publishers, including	password, from the	
	translations of foreign	computers of the Academy.	
	publications.	The subscription editions	
		are available for reading.	
		[Electronic resource] –	
		Access mode:	
		http://www.books-up.ru/	
"Bibliopoisk"	Integrated "single window"	PIM has access to the demo	General PIM

	search service for electronic catalogs, EBS and full-text databases. The results of a single search in the demo version include documents from domestic and foreign electronic libraries and databases available to the university as part of a subscription, as well as from open access databases.	version of the Bibliopoisk search engine: http://bibliosearch.ru/pimu.	subscription
Domestic electronic periodicals	Periodicals on medical subjects and on higher school issues	 from the academy's computers on the electronic library platform eLIBRARY.RU magazines Media Sphere Publishing house - from library computers or provided by by the library at the request of the user [Electronic resource] – Access mode: https://elibrary.ru/ 	
International scientometric database "Web of Science Core Collection"	Web of Science covers materials on natural, technical, social, and humanitarian sciences; takes into account the mutual citation of publications developed and provided by Thomson Reuters; has built-in capabilities for searching, analyzing, and managing bibliographic information.	Access is free from PIM computers [Electronic resource] – Access to the resource at: http://apps.webofknowledg e.com	Access is free from PIM computers

8.3.3 Open	access	resources
------------	--------	-----------

Name of the	Brief description (content)	Access conditions
electronic resource		
Federal Electronic	It includes electronic analogues of printed	from any computer
Medical Library	publications and original electronic publications that	located on the Internet
(FEMB)	have no analogues recorded on other media	
	(dissertations, abstracts, books, magazines, etc.).	
	[Electronic resource] – Access mode: http://нэб.рф/	
Scientific	The largest Russian information portal in the field of	from any computer
Electronic Library	science, technology, medicine and education,	located on the Internet.
eLIBRARY.RU	containing abstracts and full texts of scientific articles	
	and publications. [Electronic resource] – Access	

	I	
	mode: https://elibrary.ru /	
Open Access Scientific Electronic Library CyberLeninka	Full texts of scientific articles with annotations published in scientific journals of Russia and neighboring countries. [Electronic resource] – Access mode: https://cyberleninka.ru /	from any computer located on the Internet
Russian State Library (RSL)	Abstracts for which there are copyright agreements with permission for their open publication [Electronic resource] – Access mode: http://www.rsl.ru /	from any computer located on the Internet
Legal reference system "Consultant Plus"	Federal and regional legislation, judicial practice, financial advice, comments on legislation, etc. [Electronic resource] – Access mode: http://www.consultant.ru/	from any computer located on the Internet
Official website of the Ministry of Health of the Russian Federation	National clinical guidelines [Electronic resource] – Access mode: cr.rosminzdrav.ru - Clinical recommendations	from any computer located on the Internet

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

The department is located on the basis of the dental polyclinic of PIMU, where there are: three offices for 4 chairs (40 sq.m.) 2 offices for 3 chairs (18 sq.m each), a functional diagnostics room. Lecture hall with 150 seats.

9.2. List of equipment for classroom activities for the discipline

The staff of the department provides teaching of orthopedic dentistry to students of 2,3,4,5 courses of the Faculty of Dentistry and FOIS, as well as orthodontics to students of the 4th, 5th courses of the Faculty of Dentistry and FOIS.

Lecture classes:

- a set of electronic multimedia presentations,

- an audience equipped with presentation equipment: a projector, a screen, a laptop.

Practical exercises:

Classes at the department are held in two shifts, about 25-30 students are engaged at the same time. The classrooms are equipped with modern equipment, including dental units: Azimut-200 – 8 pieces., CHIRANA- 2 pieces., Siger – 4 pieces. and Stomadent – 1 piece, SIRONA-1 pieces, LEGRIN – 2 pieces, as well as all the equipment, tools and materials necessary for conducting the educational process, ensuring admission patients and the manufacture of prostheses and orthodontic devices.

The department has created a large fund of X-ray studies, including CT of the maxillofacial region and museum exhibits of various types of prostheses and orthopedic devices in all sections of orthopedic dentistry and orthodontics (257 items).

The department has the opportunity to use computing and office equipment for scientific and pedagogical purposes: 8 personal computers, a copier, a scanner, a multimedia projector; the educational and laboratory equipment necessary to ensure the educational process is regularly updated: presentations, museum exhibits, collections of videos on the stages of orthopedic treatment; the department has a video camera, digital the camera. Classrooms are equipped with posters, stands and showcases corresponding to the subject of classes, as well as chalkboards for writing. The department has stands providing information for students of all courses, separate stands are dedicated to the history of the department, scientific achievements in the field of orthopedic dentistry, patents and inventions of employees, there is an information stand for patients.

Internet resources are a significant support in providing educational and methodological materials.

In order to ensure the high quality of the educational process and the development of clinical and practical skills in the orthopedic treatment of various nosological forms of diseases, students master practical skills on 10 dental simulation devices from A-dec.

The department has a modern material base of research, which is replenished with modern equipment:

- 1) apparatus for the study of microcirculation LAKK-01 (2003), providing research at a high scientific level;
- 2) diagnostic complex "Neuromyostom" for electromyography (2009),
- 3) parallellometer (2010).
- 4) T-scan 3. Apparatus for the diagnosis of occlusive disorders (2017).
- 5) Cone-beam computed tomography PAX-I3D. Conducting and analyzing CT scans of the maxillofacial region (2015).
- 6) Individual articulator SAM-3. Analysis of diagnostic models.

9.3. A set of licensed and freely distributed software, including domestic productio	n

Ite m no.	Software	number of licenses	Type of software	Manufacture r	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovic h	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLO GIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching	

					Subscriptio n	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to					23618/HN100
	MS Office Pro					30 LLC
	for 170 PCs for					"Softline
	FGBOU VO					Trade" from
	"PIMU" of the					04.12.2020
	Ministry of					
	Health of Russia	170	Office Application	Microsoft		

10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education "Privolzhsky Research Medical University" Ministry of Health of the Russian Federation (FSBEI HE "PRMU" of the Ministry of Health of Russia)

> Department of Orthopedic dentistry and orthodontics

CHANGE REGISTRATION SHEET

working program for the academic discipline

Research methods in dentistry

Field of study / specialty / scientific specialty: **31.05.03 - DENTISTRY**

Training profile: _

(name) - for master's degree programs

Mode of study: FULL-TIME

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting Protocol No. _____of _____20___

Head of the Department, Doctor of medical sciences, associate professor M.Y. Saakyan

_(decryption)

(signature)