Summary of the working program of the academic discipline

«Aesthetics in Dentistry»

(name of the academic discipline)

General Educational Program of higher education (<u>specialist's degree programs</u>) 31.05.03Dentistry

code, name of the specialty

Department: Therapeutic Dentistry

1. The purpose of mastering the discipline (participation in the formation of relevant competencies – specify the codes): therapeutic dentistry is the leading among dental disciplines, since the main place in it is occupied by the problems of not only treatment, but also the prevention of dental caries, periodontal disease and oral mucosa. There is a close relationship between restorative dentistry and other clinical disciplines, restorative dentistry is the most important preventive section among all other profiles of dentistry - surgical and orthopedic.

The therapeutic section of dentistry combines a number of diseases of the oral cavity (diseases of the teeth and periodontal tissues, pathology of the oral mucosa and tongue), which are subject to mainly conservative, and often complex etiopathogenetic treatment with the participation of dental surgeons, orthopedists, endocrinologists, gastroenterologists and other specialists.

Able to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy (UC-1).

Ability and readiness to conduct preventive medical examinations, medical examinations of various categories of citizens and the implementation of dispensary observation of patients with dental pathology (PC-2).

Willingness to collect and analyze complaints and other information from the patient (relatives / legal representatives), his medical history, interpretation of examination results, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of Medical Care, Clinical Recommendations on the provision of medical care, etc.) (PC -6).

The ability to determine the tactics of managing patients with various dental diseases in accordance with the Clinical recommendations and other regulatory documents of the Ministry of Health of the Russian Federation on an outpatient basis and in a day hospital, taking into account the age of the patient (PC-7).

Willingness to participate in scientific research, analysis and public presentation of medical information based on evidence-based medicine and to participate in the implementation of new methods and techniques aimed at protecting public health and reducing dental morbidity (PC-12).

- 2. Position of the academic discipline in the structure of the General Educational Program (GEP).
- 2.1. The discipline "Aesthetics in Dentistry" refers to the mandatory part of Block 1 of the PEP HE, is studied in the 7th semester.
 - 2.2. To study the discipline, knowledge, skills and abilities are necessary, formed by the previous disciplines:
- 2.2.1. Pathological anatomy.

Knowledge - Regeneration. form anomalies. Injuries.

Skills - to determine the parameters of the face in relation to the shape of the teeth in the norm and in various pathologies;

Skills - to distinguish various pathological processes from each other.

2.2.2. Pharmacology.

Knowledge - Antiseptics in the clinic of therapeutic dentistry.

Enzymes. Antibiotics. Antimicrobial and antiparasitic agents. Means that affect tissue metabolism. Antidotes and complexones.

Tranquilizers and sedatives. Narcotic and non-narcotic analgesics. Local anesthetic drugs.

Skills - the choice of the necessary drug depending on the pathology

Skills - write prescriptions for drugs.

2.3. And the study of the discipline is necessary for the knowledge, skills and abilities formed by subsequent disciplines/practices:

Department of Therapeutic Dentistry - graduating department.

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

The study of the discipline is aimed at developing the following universal (UC), general

professional (OPC) and professional (PC) competencies among students:

No. p	Compete	The content of the competence (or its the competence As a second the competence		the students		-	
/ p	nce code	part)	acquisition metric	Know	Be able to	Own	
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IET 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUK 1.2 Able to: gain 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 action, experiment and experience IUK 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems	Principles and methods of search, analysis and synthesis of information.	Apply the principles and methods of searching, analyzing and synthesizing information; Competently, logically, reasonably form their own judgments and assessments.	Practical skills of searching, analyzing and synthesizing information.	
2	PC-2	the ability and willingness to conduct preventive medical examinations, medical examinations of various categories of citizens and the implementation of dispensary observation of patients with dental pathology	IPC 2.1 Knows: Normative legal acts regulating the procedures for conducting preventive medical examinations and medical examinations The main criteria for a healthy lifestyle and methods for its formation Socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention	pathological anatomy, clinic, differential diagnostics, methods of treatment and prevention of caries; pulpitis, periodontal diseases and oral mucosa; methods and means used in the medical	prescribe and conduct training in rational oral hygiene; carry out therapeutic measures for enamel remineralizati on in order to prevent and treat caries and non-carious lesions of the teeth; carry out comprehensi	methods of preparation, mechanical and drug treatment and filling of carious cavities; remotherapy techniques ; methods of mechanical and drug treatment of root canals; root canal filling techniques; methods of treatment of periodontal diseases; methods of	

Forms and methods of sanitary and hygienic education among (their patients legal representatives), medical workers Features of specific and non-specific prevention of dental diseases The main hygienic measures of a healthimproving nature that promote health and prevent the occurrence of dental diseases Etiology, pathogenesis, prevention of dental diseases Fundamentals of Preventive Medicine Stages of planning and implementation community programs for the prevention of dental diseases IPC 2.2 Able to: Conduct health and hygiene education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent dental diseases Carry out health and education work among children and adults with dental diseases in order to form a healthy lifestyle and prevent dental diseases To form in children and adults (their legal representatives) behavior aimed at maintaining and improving the level of somatic and dental health Develop and implement healthy lifestyle including programs, programs to reduce alcohol and tobacco consumption, prevent and combat the nonmedical use of narcotic drugs and psychotropic substances Develop a plan of preventive measures and implement methods of group and individual prevention of major ve measures for the prevention of caries; determine the index of oral hygiene according to Fedorov Volodkina according to Green-Vermillion; determine the type of plaque on the teeth, tartar, its color, consistency; carry out therapeutic manipulation s to eliminate complication s associated with the treatment of caries and its complication remove s: dental deposits: plaque, and suprasubgingival tartar; polish teeth after tartar

removal

examination,

depending on

dental

dispensary

groups

disease

the

treatment of diseases of the oral mucosa; methods of treatment of non-carious lesions of hard dental tissues: methods of injection and non-injection local anesthesia; methods of treatment of pulpitis, apical periodontitis and caries; methods of professional oral hygiene; fissure sealing techniques.

dental diseases Conduct preventive medical dental examinations of the population Assign preventive measures to patients, taking into account risk for factors the prevention and early detection of diseases, including cancer Conduct the selection and prescription of drugs and non-drug methods for the prevention of dental diseases in children and adults Carry out dispensary supervision of children and adults with dental diseases IPC 2.3 Has practical experience: Promotion of a healthy lifestyle and prevention of dental diseases Carrying out health education among children and adults with dental diseases Formation in children and adults (their legal representatives) behavior aimed at maintaining improving the level of somatic health Formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances Development of a plan of preventive measures and the implementation of methods for group individual and prevention of dental diseases Carrying out preventive medical dental examinations of the population, taking into account age Prescribing preventive measures for children and adults with dental diseases, taking into account risk factors,

		oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care Selection and prescription of drugs and non-drug methods for the prevention of dental diseases in children and adults Conducting a dispensary examination of children and adults with dental diseases Monitoring compliance with dental preventive measures			
3. PC-6	readiness to collect, analyze complaints and other information from the patient (relatives/legal representatives), data from his anamnesis, interpretation of examination results, laboratory, instrumental, pathological and other studies, incl. diagnostic studies using modern technical means and digital technologies, in order to recognize the state or establish the fact of the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard medical care, Clinical recommendations on the provision of medical care, etc.)	IPC 6.1 Knows: The methodology for 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 the adult population with dental diseases The procedure for providing medical care to children with dental diseases Clinical guidelines on the provision of medical care to patients with dental diseases Standards of care IPK 6.2. Can: interpret the results of examination, laboratory, instrumental, pathological and other studies, incl. diagnostic studies using modern technical means and digital technologies, in order to recognize the state or establish the fact of the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of	pathological anatomy, clinic, differential diagnosis, methods of treatment and prevention of caries; classification, etiology, pathogenesis, pathological anatomy of pulpitis; clinic, differential diagnostics, methods of treatment of inflammation of the pulp; classification, etiology, pathogenesis, pathological anatomy of periodontitis; classification, etiology, pathogenesis, pathological anatomy of periodontitis; classification, etiology, pathogenesis, pathological anatomy of dental lesions of non-carious origin. Clinic, differential diagnosis, methods of prevention	conduct examination of patients in order to diagnose caries, pulpitis, periodontitis, non-carious lesions of the teeth, periodontal diseases and oral mucosa, take a smear for cytological, bacterioscopi c , bacteriologic al examination of the contents of the pocket; perform palpation of regional lymph nodes of the facial skeleton, soft tissues of the face; palpation of the oral mucosa; determine the morphologica l elements of the lesion; probe deep	methods of treatment of periodontal diseases; methods of treatment of diseases of the oral mucosa; methods of treatment of non-carious lesions of hard dental tissues; methods of treatment of pulpitis, apical periodontitis and caries

nosological forms in accordance with the International Statistical Classification Diseases and Related Health Problems, and other regulatory of documents the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard medical Clinical recommendations on the provision of medical care, etc.) Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care. IPC 6.3 Has practical experience: interpretation of the results of examination, laboratory, instrumental, pathoanatomical and studies, other incl. diagnostic studies using modern technical means and digital technologies, in order to recognize the state or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care. Standard medical care, Clinical recommendations on the provision of medical care, etc.) Development of treatment plan for children and adults with dental diseases, taking and treatment of lesions of hard tissues of the tooth of noncarious origin; clinic. differential diagnostics, methods of treatment of periodontal inflammation classification, etiology, pathogenesis, pathological anatomy of diseases of the oral mucosa. Clinic, differential diagnosis, methods prevention and treatment of diseases of the oral mucosa

ulcers, fistulas; take material for cytological examination (scrapings, prints); take material for direct microscopy for fungi, fusospirochet es; to carry out therapeutic measures in case of damage to the oral mucosa with arsenic salts: local treatment of lesions of the mucous membrane removal plaque, necrotic tissues, washing, irrigation, applications; inject drugs under the elements of the lesion; eliminate local traumatic factors determine the index of oral hygiene according Fedorov -Volodkin a, according to Green-Vermillio n; describe radiographs; determine the degree tooth mobility (I, II , III);

			into account the			
			diagnosis, age and			
			clinical picture in			
			accordance with the			
			current procedures for			
			the provision of medical			
			care, clinical			
			recommendations,			
			taking into account the			
			standards of medical			
			care			
4	PC-7	the ability to determine	IPC 7.1 Knows:	clinic,	choose and	methods of
4	rc-/	the tactics of managing	Methods of drug and	differential	carry out a	treatment of
		patients with various		diagnostics,	rational	non-carious
		T	non-drug treatment, medical indications for	methods of	method of	lesions of hard
		accordance with the		treatment of	treating	dental tissues;
		Clinical Guidelines and	devices for dental	inflammation	caries,	methods of
		other regulatory	diseases	of the pulp;	pulpitis,	preparation,
		documents of the	Groups of drugs used to	periodontal,	periodontitis,	mechanical and
		Ministry of Health of	provide medical care in	periodontal	periodontal	drug treatment
		the Russian Federation	the treatment of dental	and diseases	diseases, oral	and filling of
		on an outpatient basis	diseases; the mechanism	of the oral	mucosa,	carious cavities;
		and in a day hospital,	of their action, medical	mucosa,	depending on	methods of
		taking into account the	indications and	classification,	the clinical	treatment of
		age of the patient.	contraindications to the	etiology,	manifestation	pulpitis, apical
			appointment;	pathogenesis,	s and the	periodontitis
			compatibility, possible	pathological	state of the	and caries,
			complications, side	anatomy.	body as a	methods of
			effects, adverse	Methods of	whole; apply	professional
			reactions, including	treatment,	paste for pulp	hygiene,
			serious and unexpected	indications,	devitalization	removal of
			Principles, techniques	contraindicati	;	dental deposits,
			and methods of	ons to	open the	methods of
			anesthesia, selection of	methods of	cavities of	treatment of
			the type of local	treatment.	all	diseases of the
			anesthesia in the		anatomica	oral mucosa
			treatment of dental		1 groups	
			diseases		of teeth,	
			Ways to prevent or		prepare	
			eliminate complications,		the	
			side effects, adverse		crowns of	
			reactions, including		intact	
			serious and unforeseen,		teeth;	
			that occurred during the			
			examination or		remove the	
			treatment of patients		pulp after	
			with diseases of the		devitalization	
			teeth, pulp,		from the root	
			periodontium,		canal;	
			periodontium, oral		to carry out	
			mucosa and lips		instrumental,	
			Materials science,		drug	
			technologies, equipment		treatment of	
			and medical products		the root	
			used in dentistry		canal, its	
			Anatomy of the head,		drying,	
			maxillofacial region,		determining	
			features of blood supply		the degree of	
			and innervation; the		its patency;	
			structure of the teeth;		seal root	
					canals with	
					pastes and	
			embryology of the oral		sealants	
			cavity and teeth, the main violations of		without using	
					and using	
			embryogenesis		pins;	

IPK 7.2. Able to: Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of care prescribe Select and medicines. medical devices (including dental materials), dietary nutrition, medical and recreational regimen for the treatment of children and adults with dental diseases in accordance with the current for procedures the provision of medical clinical care, recommendations, taking into account the standards of medical care Determine medical indications and contraindications for local anesthesia techniques in the maxillofacial region Perform local anesthesia (application, infiltration, conduction) in children and adults with dental diseases Perform medical interventions, including therapeutic ones, in children and adults with dental diseases on an outpatient basis (excluding repeated endodontic treatment): - individual training in oral and dental hygiene, selection of means and items for oral hygiene - controlled brushing of teeth - professional oral and dental hygiene - injection of drugs in the maxillofacial area - local application of remineralizing preparations in the area of the tooth - deep fluoridation of tooth enamel - sealing the fissure of the tooth with a sealant professional teeth

remove fragments of instruments from the root canal; carry out the removal of supraand subgingival dental deposits, applications on the oral mucosa, blockade under the elements of the lesion take a smear for cytological, bacterioscopi bacteriologic al examination οf the contents the pocket; perform palpation of regional lymph nodes of the facial skeleton, soft tissues of the face; palpation of the oral mucosa; determine the morphologica 1 elements of the lesion: probe deep ulcers, fistulas; take material for cytological examination (scrapings, prints); take material for direct microscopy for fungi, fusospirochet es; to carry out therapeutic measures in case of damage to the oral mucosa with

whitening arsenic salts; grinding of hard local tissues of the tooth treatment of - restoration of a tooth lesions of the with a filling using mucous dental cements, membrane chemical curing removal materials. plaque, photopolymers necrotic - restoration of teeth tissues, with a violation of the washing, contact point irrigation, - tooth restoration with applications; filling material using inject drugs anchor pins under the application elements of devitalizing paste the lesion; pulpotomy eliminate (amputation of the local coronal pulp) traumatic - pulp extirpation factors instrumental and medical treatment of a well-passable root canal - temporary filling of the root canal with a drug - filling the root canal of the tooth with paste, gutta-percha pins removal of supragingival and subgingival plaque in the tooth area (manual method) - ultrasonic removal of supragingival and subgingival dental deposits in the tooth area - closed curettage for periodontal diseases in the tooth area application of a medical dressing for periodontal diseases in the area of one jaw - prescription of 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 ones, in children and adults with dental diseases on an outpatient basis (excluding extraction of impacted and dystopic teeth): - removal of a tooth of removal a temporary tooth permanent tooth

extraction		
- opening and drainage		
of odontogenic abscess		
Carry out phased		
sanitation of the oral		
cavity (excluding		
sanitation of the oral		
cavity in children under		
anesthesia)		
Perform medical		
interventions, including		
orthopedic, in adults		
with dental diseases on		
an outpatient basis		
(excluding prosthetics		
on dental implants, technologies for		
automated production of		
orthopedic structures,		
complete removable		
lamellar and clasp		
dentures):		
- obtaining anatomical		
and functional		
impressions		
- restoration of a tooth		
with a crown		
- restoration of the		
integrity of the dentition		
with fixed bridges		
- prosthetics with partial		
removable lamellar		
dentures - correction of a		
removable orthopedic		
structure - removal of a fixed		
orthopedic structure		
Interpret the results of		
X-ray studies of the		
maxillofacial region		
Conduct counseling for		
children and adults with		
diseases of the mucous		
membranes of the mouth		
and lips, determine		
indications for referral		
for a consultation with		
specialist doctors		
Prevent or eliminate		
complications, side		
effects, adverse		
reactions, including unforeseen ones,		
resulting from		
diagnostic or therapeutic		
manipulations, the use		
of drugs and (or)		
medical devices, non-		
drug treatment		
IPC 7.3 Has practical		
experience:		
Selection and		
prescription 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 guidelines, taking into account the standards of medical care Prescribing dietary healthnutrition, improving regimen in the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical clinical care, recommendations, taking into account the standards of medical care Performing medical interventions in children and adults with dental diseases in accordance with the current for procedures the provision of medical care, clinical guidelines, 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 conduct of local anesthesia (application, infiltration, conduction) in children and adults with dental diseases Evaluation of the efficacy and safety of the use of drugs, medical devices and non-drug treatment in children and adults with dental diseases Counseling children and adults with diseases of the mucous membranes of the mouth and lips, determining indications for referral for a consultation with specialist doctors Selection and prescription of medicines and medical

devices, taking into account the diagnosis, age and clinical picture of a dental disease in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care Definitions of routes of administration, regimen and dosage of drugs Selection and prescription of non-drug treatment for children and adults with dental diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care Prevention and treatment of	
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taking into account the standards of medical care Prevention and treatment of	
standards of medical care Prevention and treatment of	
care Prevention and treatment of	
Prevention and treatment of	
treatment of	
complications, side	
effects, adverse	
reactions, including	
unforeseen ones,	
resulting from	
diagnostic or therapeutic	
procedures, the use of	
drugs and (or) medical	
devices, non-drug	
treatment at a dental	
appointment	
Providing medical care	
to children and adults	
with sudden acute	
diseases, conditions,	
exacerbation of chronic	
diseases without	
obvious signs of a threat	
to the life of the patient	
in an emergency form	
The use of medicines	
and medical devices in	
the provision of medical	
care in an emergency	
form	
5 PC-12 willingness to participate IPC 12.1 Knows: Scientific Analyze Methods	of
in scientific research, Fundamentals of literature, scientific medical	01
analysis and public evidence-based educational literature and statistics,	
presentation of medical medicine; the main and statistical determination	n of
information based on sources of medical methodical reviews, the Stud	
	non-
and to participate in the evidence-based scientific statistical parametric	1011-
implementation of new medicine; methods and journals and analysis, methods,	
methods and techniques forms of public collections of present the comparison	of
aimed at protecting presentation of medical works. resulting independent	
public health and information; basic Methods of statistics, and dependent	and
reducing dental principles of medical medical interpret groups, met	
morbidity. research statistics. them. for described and the statistics are statistics.	obor
inoroidity. research statistics. them. for descri	

IPC 12.2 Can:		qualitative
Search for medical		features.
information based on		
evidence-based		
medicine;		
interpret the data of		
scientific publications;		
critically evaluate		
modern methods of		
diagnosis, prevention		
and treatment of		
diseases from the		
perspective of evidence-		
based medicine;		
justify your choice of		
methods for diagnosing,		
preventing and treating		
dental diseases;		
prepare a presentation		
for the public presentation of medical		
information, the results		
,		
of scientific research		
IPC 12.3 Has practical		
experience:		
Development of		
algorithms for		
examination and		
treatment of adults and		
children with dental		
diseases in accordance		
with the principles of		
evidence-based		
medicine;		
search and interpretation		
of medical information		
based on evidence-based		
medicine;		
public presentation of		
medical information		
based on evidence-based		
medicine;		
partial participation in		
scientific research		

4. The volume of the academic discipline and types of educational work The total complexity of the discipline is 2 credits . units (72 academic hours)

Type of educational work	Labor intensity		Labor intensity		
	volume in	volume in			
	credit units (CU)	credit units (CU)	6	7	10
Classroom work, including	2	72		72	
Lectures (L)		8		8	
Laboratory practicum (LP)*					
Practicals (P)					
Seminars (S)		36		36	
Student's individual work (SIW)					
Mid-term assessment		28		28	
credit/exam (specify the type)					
	offset				
TOTAL LABOR INTENSITY	2	72		72	

5. Sections of the academic discipline and competencies that are formed

		of the academic discipline and e	F
p/ no.	Competence code	Name of the discipline section	The content of the section in didactic units
1.	UC-1	Prevention of caries; non- carious lesions of hard tissues of teeth, periodontal diseases and oral mucosa.	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of caries treatment and prevention; pulpitis, periodontitis, non-carious lesions of hard dental tissues, periodontal diseases and oral mucosa
2.	PC-2,	Diagnosis of caries; pulpitis, periodontitis, non-carious lesions of hard dental tissues, periodontal diseases and oral mucosa.	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of caries treatment and prevention; pulpitis, periodontitis, non-carious lesions of hard dental tissues, periodontal diseases and oral mucosa
3.	PC-2, PC-6, PC-7	Methods of treatment of diseases of hard tissues of teeth in patients of different ages	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of caries treatment and prevention; pulpitis, periodontitis, non-carious lesions of hard dental tissues. Diagnosis of emergency conditions.
4.	PC-12	Treatment of periodontal diseases in patients of different ages	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of treatment and prevention of periodontal diseases
5.	PC-12	Treatment of typical diseases of the oral mucosa in patients of different ages	Etiology, pathogenesis, pathological anatomy, clinic, diagnostics, differential diagnostics, methods of treatment and prevention of diseases of the mucous membranes and lips