

Summary of the working program of the academic discipline

« DENTISTRY »

General Educational Program of higher education (specialist's degree programs)
31.05.01 General Medicine

Department: Oral and maxillofacial surgery

1. The purpose of mastering the discipline

1.1 The purpose of mastering the discipline: UC-1; GPC -5, GPC-6; PC-5, PC-6, PC-8.

1.2 Tasks of the discipline: to know the principles of organization of dental service, etiology, pathogenesis, diagnostics, basic principles of treatment of dental diseases, their prevention.

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

2. Position of the academic discipline in the structure of the General Educational Program (GEP).

2.1. The discipline «Dentistry» refers to the core part of Block 1 of GEP HE «Dentistry». The discipline «Dentistry» is taught in 9 semester of study.

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

1. Normal human anatomy;
2. Pathological anatomy;
3. Topographic anatomy and operative surgery;
4. Normal physiology;
5. Pathological physiology;
6. Pharmacology, microbiology.

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

1. Otorhinolaryngology;
2. Ophthalmology;
3. Internal medicine;
4. General surgery;
5. Oncology;
6. Industrial practices " Doctor's assistant of an outpatient clinic".

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

No.	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				Know	Be able to	Possess

	UC 1	Ability for abstract thinking, analysis, synthesis	<p>IUC 1.1 Know: Methods and techniques of philosophical analysis; searching and processing information</p> <p>IUC 1.2 be able to: analyses and evaluate the situation on their own; to use educational, scientific, popular literature, Internet on a given topic for the note-taking;</p> <p>IUC 1.3 possess: possess the skills of presenting an independent point of view, analysis and logical thinking</p>	the legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and healthcare workers;	assess social factors affecting the patient's physical and psychological health: cultural, ethnic, religious, individual, family, social risk factors (unemployment, violence, illness and death of relatives, etc.)	proper medical record maintaining; interpretation of the results of laboratory, instrumental diagnostic methods
GPC-5		Ability and readiness to analyse the results of one's own activities to prevent professional mistakes	<p>IUC 1.1 Know: etiology, pathogenesis and preventive measures of the most common diseases of the maxillofacial region; modern classification of diseases; criteria for the diagnosis of various nosologies of the maxillofacial region; indications for hospitalization of patients in a hospital;</p> <p>IUC 1.2 be</p>	etiology, pathogenesis and preventive measures of the most common diseases of the maxillofacial region; modern classification of diseases; criteria for the diagnosis of various nosologies of the maxillofacial region; indications for hospitalization of patients in a hospital;	assess the patient's condition to decide on the need for medical care;	proper medical record maintaining of patients with pathology of the maxillofacial region;

			able to: assess the patient's condition to decide on the need for medical care; IUC 1.3 possess: proper medical record maintaining of patients with pathology of the maxillofacial region;			
	GPC-6	Able to maintain medical records	IUC 1.1 Know: basic accounting and reporting medical documentation in medical organizations of the dental and maxillofacial profile; IUC 1.2 be able to: maintain medical records of various nature in dental outpatient clinics and hospitals; IUC 1.3 possess: proper maintenance of medical accounting and reporting documentation in medical institutions;	basic accounting and reporting medical documentation in medical organizations of the dental and maxillofacial profile;	maintain medical records of various nature in dental outpatient clinics and hospitals;	proper maintenance of medical accounting and reporting documentation in medical institutions;
	PC-5	Able to collect complaints, anamnesis of the patient's life and illness, examination results, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish		diagnostic methods, diagnostic capabilities of methods for examining a patient with a dental profile, modern methods of clinical, laboratory, instrumental examination of patients	determine the status of the patient: collect anamnesis, conduct a survey of the patient and / or his relatives, conduct a physical examination of the patient (examination, palpation, auscultation, measurement of	methods of general clinical examination; interpretation of the results of laboratory, instrumental methods of diagnostics; an algorithm for an extended clinical diagnosis; correct

		the presence or absence of the disease;		<p>(including endoscopic X-ray methods, ultrasound diagnostics, morphological ones); criteria for diagnosis of various diseases of the maxillofacial region;</p> <p>clinical picture, course peculiarities and possible complications of the most common dental diseases and pathology of the maxillofacial region;</p>	<p>blood pressure, determination of the properties of the arterial pulse, etc.); conduct an initial examination of systems and organs: endocrine, immune, respiratory, cardiovascular, blood and hematopoietic organs, digestive, urinary, musculoskeletal and joints, examination of the maxillofacial region and oral cavity; fill out a medical history;</p>	<p>maintenance of medical records;</p>
	PC-6	An ability to determine in patients the main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD)		<p>diagnostic methods, diagnostic capabilities of methods for examining a patient with a dental profile, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic X-ray methods, ultrasound diagnostics, morphological ones); criteria for diagnosis of various diseases of the maxillofacial region;</p> <p>clinical picture, course peculiarities and possible complications of the most common dental diseases occurring in a typical form in different age groups;</p>	<p>determine the status of the patient: collect anamnesis, conduct a survey of the patient and / or his relatives, conduct a physical examination of the patient (examination, palpation, auscultation, measurement of blood pressure, determination of the properties of the arterial pulse, etc.); conduct an initial examination of systems and organs: endocrine, immune, respiratory, cardiovascular, blood and hematopoietic organs, digestive, urinary, musculoskeletal and joints, examination of the maxillofacial</p>	<p>own the methods of general clinical examination; interpretation of the results of laboratory, instrumental methods of diagnostics; an algorithm for an extended clinical diagnosis; correct maintenance of medical records;</p>

					region and oral cavity; fill out a medical history;	
	PC-8	An ability to determine the tactics of managing patients with various dental diseases and pathologies of the maxillofacial region		methods of emergency measures and indications for hospitalization of patients in hospital; assistance methods for traumatic injuries of the maxillofacial region.	identify a condition that requires urgent dental and medical care that is beyond the competence of a general dentist and immediately contact the appropriate specialists.	first aid techniques for maxillofacial injuries.

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

Total labor intensity of the discipline is **2 CU (72 AH)**

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	4
Classroom work, including	2	72	72
Lectures (L)	<i>0.28</i>	<i>10</i>	<i>10</i>
Laboratory practicum (LP)			
Practicals (P)			
Clinical practical classes (CPC)	<i>0.94</i>	<i>34</i>	<i>34</i>
Seminars (S)			
Student's individual work (SIW)	0,78	28	28
Научно-исследовательская работа студента			
Mid-term assessment			
TOTAL LABOR INTENSITY	2	72	72

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

№	Competence code	Section name of the discipline
1.	Organizational structure of the dental service. Methods of examination of a dental patient. Dental diseases: caries, pulpitis, periodontitis. Prevention of dental diseases.	Principles of organization of dental care (surgical, therapeutic, orthopedic). Planned rehabilitation of various categories of the population. Principles of medical examination and prevention of dental diseases. Caries - etiology, pathogenesis, clinical stages, treatment. Acute pulpitis - etiology, pathogenesis, clinic. First aid, treatment principles. Acute periodontitis - etiology, pathogenesis, ways of spreading the infectious process. First aid, treatment. Chronic periodontitis - etiology, pathogenesis. Classification, clinical and radiological diagnostics. Treatment methods, tooth-preserving operations.
2.	Odontogenic inflammatory diseases of jaws and soft tissues	Acute purulent periostitis of the jaws - etiology, pathogenesis, pathogenetic relationship with periodontitis. Spread of the inflammatory process depending on the location of the causal root of the tooth on the palatal, lingual, vestibular side.

	of the face and neck. Diagnostics and treatment.	Surgical treatments. Odontogenic osteomyelitis of the jaws, etiology, pathogenesis. Classification. Acute stage of osteomyelitis of the jaws. Clinic, complex, pathogenetic treatment (tooth removal - "sources of infection," autopsy of parotid abscesses and phlegmon, decompression osteoperforation. Anti-inflammatory, desensibilizing, detoxification therapy, immunotherapy, physiotherapeutic treatment. Subacute and chronic stages of jaw osteomyelitis. Clinical and radiological presentation. Treatment. Phlegmon of maxillofacial region, etiology, pathogenesis, clinical features of superficial and deep phlegmon, treatment principles and location of incisions. Features of pain relief.
3.	Non-odontogenic inflammatory diseases of the maxillofacial region. Specific inflammatory diseases of the maxillofacial region (actinomycosis, tuberculosis, syphilis).	Boils and carbuncles. Etiology, pathogenesis. Features of the clinical course during localization in the maxillofacial region, complications. Treatment principles. Specific inflammatory diseases (actinomycosis, tuberculosis, syphilis). Clinic, specific features of diagnosis.
4.	Local anesthesia and tooth extraction. Complications.	Indications and contraindications for tooth removal. Steps in the tooth removal operation. Pain relief. Tools for tooth removal. Early and late complications. General and local complications. Prevention and elimination of complications.
5.	Traumatic injuries of maxillofacial region. Traumatic injuries to the face and neck. The combined craniofacial injury. Diagnostic, first aid to injured people, peculiarities of treatment.	Soft tissue wounds. Features of the clinic and primary surgical treatment of facial wounds. Fractures of the lower jaw, mechanisms of fragment displacement. Clinic, diagnostics. Fractures of the upper jaw. Classification, clinic. Types of transport immobilization in jaw fractures. Therapeutic immobilization. Methods of surgical treatment. Combined lesions of maxillofacial region, features of timely specialized treatment. Combined chemical lesions. Mutual burden syndrome. Features of primary surgical processing.
6.	Gunshot injuries of the maxillofacial region. Diagnostics, first aid to injured people, temporary immobilisation in case of jaw fractures, primary surgical treatment of facial wounds.	Peculiarities of the course of maxillofacial region gunshot wounds, characteristics of the wound process. Surgical treatment of maxillofacial region wounds. Clinical picture and treatment of gunshot injuries to the jaws. Complications of combat injuries of the maxillofacial region.
7.	Benign and malignant tumors of maxillofacial region. Tumour-like diseases. Clinical picture, diagnostics and treatment. Screening.	International histological classification of tumors. Organ-specific tumors. Methods for diagnosing benign and malignant tumors. Treatments. Features of surgical treatment. Preoperative orthopedic training. Reconstructive repair operations.