

ОҢТҮСТІК ҚАЗАҚСТАН
MEDISINA
AKADEMIASY
«Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN
MEDICAL
ACADEMY
АО «Южно-Казахстанская медицинская академия»



Approved
Rector of SKMA JSC
professor M. Rysbekov

2023

EDUCATIONAL PROGRAM

Group of the educational program: VM 087 Dentistry
Code of the EP: 6B10117
Title of the educational program: Dentistry
Level of the educational program: Bachelor and profile magistracy

Shymkent, 2023

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The educational program was developed by the members of the "Dentistry" EPC

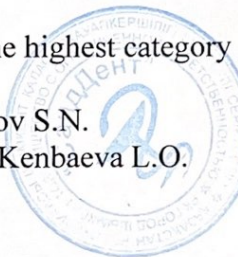
Agreed with employers:

Director of the clinic "Elite-Stom", PhD, dentist of the highest category Nishankulov K.A.

Said-Dent LLP dental clinic Rashidov S.N.

Chairman of the "Dentistry" EPC Kenbaeva L.O.

Minutes No. 10 of 25 05/2023.




Approved by the Methodological Council

Vice-Rector for EMW Anartayeva M. U.

Minutes No. 12 of 26 06 2023.

Approved by the Academic Council

Minutes No. 12 of 24 06 2023.


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Passport of the educational program

- 1. Mission of the educational program:** Training of qualified and competitive personnel capable of self-improvement and scientific research.
- 2. The purpose of the educational program:** Training of dentists, masters of medicine, able to provide qualified dental care based on modern medical technologies, diagnosis, treatment and prevention of diseases in patients of various age groups.
- 3. Justification of the educational program:**
 - **for students:** obtaining continuous integrated medical education, including basic training - bachelor's degree, internship and master's degree. Upon completion of 6 years of study, the graduate will be awarded an academic master's degree and a diploma with a doctor's qualification.
 - **the need in the labor market:** providing personnel with qualities such as high skill and professional perseverance, the availability of the necessary practical and theoretical knowledge, competence, observation and insight, developed clinical thinking and predilection.
- 4. Professional standard on the basis of which the educational program was developed:**

Regulatory documents for the development of a modular educational program (state standards of education, professional standards (if available), etc.) - Code of the Republic of Kazakhstan dated September 18, 2009 No. 193-IV "On the health of the people and the health system" (with amendments and additions as of 04.07.2018).

 - The Law of the Republic of Kazakhstan "On education" on 27.07.2007, No. 389- III, with amendments and additions dated 07.07.2020, No. 501-V. - Order of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of state mandatory standards of all levels of education" dated October 31, 2018 No. 604, with amendments and additions dated 01.09. 2020.
 - Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 16, 2013 No. 420 "On approval of Standard Rules for The activity of organizations of higher and (or) postgraduate education" with amendments and additions dated 29.10.2018.
 - Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 "On approval of the Rules for the organization of the educational process on credit technology of education" (with amendments and additions as of 12.10.2018)
 - Order of the Acting Minister of Healthcare and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state mandatory standards and standard professional training programs in medical and pharmaceutical specialties" (as amended on 21.02.2020).
 - Order of the Minister of Healthcare of the Republic of Kazakhstan dated June 29, 2017 No. 471 On Amendments and Additions to the Order of the Acting Minister of Healthcare and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On Approval of State mandatory standards and standard professional training programs in medical and pharmaceutical specialties" (with amendments and additions as of 11.10.2018) - Order of the Minister of Healthcare of the Republic of Kazakhstan dated November 24, 2009 No. 774. "On approval of the Nomenclature of medical and pharmaceutical specialties" (as amended on 28.08.2017).
 - SOES RK 5.05.001-2005 Coding system of academic disciplines of higher and postgraduate education.

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- Order of the Minister of Healthcare of the Republic of Kazakhstan dated January 30, 2008 No. 27 "On approval of the lists of clinical specialties of internship and residency training" (with amendments and additions as of 02.08.2019)
- Order of the Minister of Education and Science of the Republic of Kazakhstan dated March 18, 2008 No. 125 "Standard rules for conducting current monitoring of academic performance, intermediate and final certification of students in higher educational institutions" (with amendments and additions as of 21.10.2020)
- Standard rules for the activity of organizations implementing higher and postgraduate education", Decree of the Government of the Republic of Kazakhstan dated October 30, 2018 No. 595 with amendments and additions dated 25.09.2020
- Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of the rules for the organization and implementation of educational and methodological and scientific work dated November 29, 2007 No. 583.Additions and amendments dated 05.06.2019 No. 507.
- Internal regulatory documents of SKMA JSC.

5. Field of professional activity: protecting the health of the population by providing dental care for both adults and children.

6. Objects of professional activity: healthcare management organizations;
healthcare organizations; educational organizations; organization of science; adult and child population; set of tools and technologies aimed at creating conditions for the protection of public health.


7. Types of professional activity:

- therapeutic, preventive and diagnostic;
- organizational and managerial;
- scientific research;
- pedagogical


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General information


№	EP characteristics	Note
1	Registration number	6B10100136
2	Code and classification of the field of education	6B10 Healthcare
3	Code and classification of training areas	6BM101 Healthcare
4	Group of educational programs	6BM 087 Dentistry
5	Code, Name of the educational program	6B10117 Dentistry
6	Type of the EP	New
7	ISCED level	6-7
8	NQF level	6-7
9	IQF level	Continuous integrated educational program
10	Distinctive features of EP	-
	Partner University (CEP)	-
	Partner University (DDEP)	-
11	Key competences	<p>KC1 Medical knowledge:Demonstrate and apply knowledge of the biomedical, clinical, epidemiological and social-behavioral sciences, including established, evolving and continually updated knowledge</p> <p>KC 2 Communications: Demonstrate interpersonal and communication skills resulting in effective information exchange and collaboration with patients, families and health care providers, including the use of information technology</p> <p>KC 3 Clinical skills:Provide effective patient-centered care that includes appropriate and effective interventions to diagnose, treat, and prevent disease.</p> <p>KC 4 Professionalism:demonstrate commitment to professional responsibilities and ethical principles</p>

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		<p>KC 5 Personal and professional development: Demonstrate the qualities necessary to support continuous personal and professional growth, continuous improvement in the quality of health care through continuous self-evaluation and lifelong learning</p> <p>KC 6 Regulatory knowledge: understand and demonstrate responsibility for their actions within the current legal and regulatory framework of the health care system and are guided by them in their practice to provide optimal health care</p> <p>KC 7 Research: Demonstrate the ability to research and evaluate the results of treatment of their patients, evaluate and implement treatment principles based on scientific evidence</p>
12	Learning Outcomes	<p>LO1 Demonstrate and apply knowledge and skills in the field of biomedical, clinical, epidemiological, socio-behavioral sciences that contribute to the formation of a versatile personality with a broad outlook and a culture of thinking</p> <p>LO2 Analyze the patterns of growth and development, the structure of the body in normal and pathological conditions, to understand the mechanisms of development of stomatologic diseases</p> <p>LO3 Demonstrate interpersonal and communication skills leading to effective information sharing and collaboration with patients, their families, and healthcare professionals, including through the use of information technology</p> <p>LO4 Provide effective patient-centered care, including appropriate and effective interventions aimed at the diagnosis, treatment and prevention of dental diseases</p> <p>LO5 Conduct a clinical examination of the patient using modern instrumental, laboratory and functional research methods, interpretation of the data obtained for making a dental diagnosis, prescribing treatment and prevention of dental diseases</p> <p>LO6 Recognize urgent and life-threatening conditions and sources of acute pain at dental appointments and provide emergency medical care to patients of all age groups</p> <p>LO7 Carry out educational and preventive work with patients, individually, in groups and in communities to strengthen and preserve their health and dynamic monitoring of patients using medical information systems</p>

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		<p>LO8 Work in the electronic databases of the health care system of the Republic of Kazakhstan, providing documentation of the processes of providing medical services to solve professional problems</p> <p>LO9 To carry out continuous self-education and development, increasing the level of knowledge and practical skills and demonstrate high ethical principles and standards of behavior in their work</p> <p>LO10 Demonstrate the ability to research and evaluate the outcomes of their patients on the basis of evidence-based medicine, evaluate and implement treatment principles based on scientific evidence</p> <p>LO11 Participate in the organization of dental care within the framework of their professional competence, implementing the basic principles of management and marketing</p>
13	Form of training	full-time
14	Language of training	Kazakh, Russian and English
15	Duration of the training	6 years
16	Amount of credits	360
17	Awarded academic degree, qualification	Master of Medicine/ Dentist
18	Availability of an appendix to the license for the direction of personnel training	KZ36LAA00011387
19	Availability of EP accreditation	Yes
	Name of the accreditation body	“Independent Agency for Accreditation and Rating” IAAR
	No accreditation certificate, validity period of accreditation	Bachelor's degree - No. AB 4715, 05/26/2023. - 05/25/2028 Master's degree - No. AB 4713, 05/26/2023. - 05/25/2028
20	Information about disciplines	application 1.2

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Application 1.2

2.2 Information about disciplines


№	Name of discipline	Brief description of the discipline (30-50 words)	Cycle	Component	Credits	LO of EP
1	History of Kazakhstan	Formation of the worldview, civil and moral positions of the future specialist based on a deep understanding and scientific analysis of the main stages, patterns and originality of the historical development of Kazakhstan, as well as the ability to use the methods and techniques of historical description to analyze the causes and consequences of events in the history of Kazakhstan. Improving the acquired knowledge and skills.	GES	RC	5	LO 1 LO 10
2	Physical education	Formation of a person who is competitive and capable of physical self-improvement through the skills of building a personal educational trajectory throughout life for self-development and career growth, focused on a healthy lifestyle to ensure full-fledged social and professional activities through methods and means of physical culture.	GES	RC	8	LO 1 LO 7 LO 9
3	Foreign language	Formation of language using skills and speech means based on a system of grammatical knowledge for building communication programs in a foreign language, self-improvement and professional success; communication in oral and written forms in a foreign language to solve problems of interpersonal, intercultural and professional communication; analysis of information in accordance with the communication situation and the ability to interpersonal social and professional communication in a foreign language.	GES	RC	10	LO 3 LO 8

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4	Kazakh (Russian) language	Formation of communication skills in oral and written forms in Kazakh and Russian languages to solve the problems of interpersonal, intercultural and professional communication; analysis of information in accordance with the communication situation and the ability to interpersonal social and professional communication in Kazakh and Russian languages; use of language and speech means based on the system of grammatical knowledge to build communication programs in Kazakh and Russian, professional success and self-improvement.	GES	RC	10	LO 3 LO 8
5	Information and communication technology	Formation of skills in information and communication technologies that contribute to the development of information literacy through the mastery and use of modern technologies in all areas of their lives and activities; use in personal activities of various types of information and communication technologies: Internet resources, cloud and mobile services for searching, storing, processing, protecting and disseminating information, etc.	GES	RC	5	LO 1 LO 8
6	Philosophy	Formation of the assessment results based on worldview positions formed by the foundations of knowledge of philosophy, which require scientific understanding and the definition and application of methods of scientific and philosophical knowledge in the world, self-improvement and professional success; interpret the content and specific features of the mythological, scientific and scientific worldview; characteristics of the quantity and quality of the analysis of social assets, processes and problems.	GES	RC	5	LO1 LO3 LO10

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7	Psychology and cultural studies	Formation of general competencies that ensure the socio-cultural development of the personality of a future specialist on the basis of the formation of his worldview, civic and moral positions; skills of self-development and education throughout life; personality capable of mobility in the modern world, critical thinking; skills of operating social, business, cultural and ethical norms of Kazakhstani society; skills of personal and professional competitiveness.	GES	RC	4	LO1 LO3 LO9
8	Sociology and political science	Formation of socio-political knowledge, skills of application and generalization of scientific research methods. Sociology and sociological perspective. Social structure and stratification. Education and social inequality. Health and medicine. Civilizational identification of Kazakhstan in the global world. Politics in the structure of public life. Power as a political institution. State and civil society. Political culture, ethics and behavior. Sovereign Kazakhstan in the system of interstate relations.	GES	UC	4	LO1 LO3 LO9
9	Legal, economic, environmental and scientific knowledge *	Integrated discipline: on the basis of economic, legal, environmental and scientific knowledge, the formation of one's own moral and civil position; general competencies of operating public, business, cultural, legal and ethical norms of Kazakhstani society for self-development and education throughout life, mobility in the modern world and critical thinking; skills in the application of scientific methods and techniques for the study of a particular science	GES	OC	5	LO1 LO3 L10

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10	Fundamentals of Economics and Law*	Market and competition. Money and inflation. Credit and monetary system. Financial system and fiscal policy. Features of the development of the national economy in the Republic of Kazakhstan. Choosing a business idea and a startup, business planning in the system of entrepreneurial activity, the content of a business plan, the skills to develop them. Basic ideas about law and state-legal phenomena. Basics of constitutional, administrative, civil and family, financial and labor, environmental and land and criminal laws of the Republic of Kazakhstan.	GES	OC	5	LO1 LO3
11	Fundamentals* of Anti-Corruption Culture and Entrepreneurial Skills	Formation of an anti-corruption culture. Theoretical and methodological foundations of the concept of "corruption". Political power and corruption. Nepotism. Transformation of corruption in modern states. Anti-corruption policy in the Republic of Kazakhstan and the role of the social sphere in it. Legal liability for acts of corruption. Moral and ethical responsibility for acts of corruption in various fields.	GES	OC	5	LO1 LO3
12	Ecology and life safety. Research Methods*	Ecological problems of the present and public health. Causal relationship of general morbidity of the population with environmental factors and ways to reduce the burden on human health. Emergencies and the basics of life support. Methodological foundations of scientific knowledge. Science and other forms of development of reality. Methods of scientific knowledge. Principles of organization of scientific research. The role of medical research in modern science. Application of scientific research methods in theory and practice.	GES	OC	5	LO1 LO10

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13	Introduction to the profession (Fundamentals of medicine and safe care; medical ethics and communication skills; medical law)	<i>Integrated discipline:</i> patterns of development and the history of medical knowledge. Moral and ethical aspects of the doctor's professional activity. Health organizations. Therapeutic and protective regime. Safe Care. Communicative culture, ability, competence. Basic principles of effective communication with the patient, his family members, colleagues. Tasks, principles of medical law. The right to health care and medical care. Legislation in the field of healthcare, systematization of knowledge about the rights and obligations of medical and pharmaceutical workers, patients, grounds and conditions for the emergence of legal liability in the field of health protection.	BD	UC	3	LO1 LO3 LO4
14	Educational practice "Safe Care"	Work in the central disinfection unit, compliance with the rules and requirements of antiseptics in dental offices and filling out relevant documents. Algorithms for cleaning in dental offices, filling in the relevant documents. The use of antiseptic solutions. Algorithms for the preparation of disinfectant solutions.	BD	UC	1	LO1 LO3 LO4 LO7
15	Structural organization of human physiological processes (Molecular biology; Histology; Microbiology; Bioinorganic and biophysical colloid chemistry;	Integrated discipline: the formation of fundamental knowledge aimed at understanding the processes of metabolism, cell structure, their polymorphism, the relationship of their structure and functions. biological membranes. Principles of the tissue level of the organization of living matter. Molecular, chemical and biochemical mechanisms of the occurrence of biopotentials, regulation of acid-base states, their role in the formation of pathological changes in tissues, organs and microorganisms. Qualitative, quantitative and microbiological indicators of biochemical substances.	BD	UC	7	LO1 LO2 LO4 LO10

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16	Genes and heredity (Molecular biology, human Embryology, bioorganic chemistry, medical genetics)	Integrated discipline: fundamentals of the chemical structure of biologically active substances and the genetic apparatus. Molecular and cellular bases of the mechanisms of heredity, patterns of human embryonic development, its critical periods, new molecular genetic and preventive methods for detecting developmental anomalies. The significance of hereditary factors in the etiology of diseases, in the body's response to pharmacological and other types of treatment. Scientific research in the field of medical genetics.	BD	UC	4	LO1 LO2 LO4 LO10
17	Materials Science in Orthopedic and Therapeutic Dentistry	Formation of ideas, concepts, knowledge about the fundamental laws of biophysics and skills in the application of physical and biophysical methods in dental practice. Formation of skills in the use of various materials in the clinic of therapeutic and orthopedic dentistry.	BD	UC	3	LO 1 LO4
18	Biophysics	Formation of basic system knowledge about the physical foundations of the structure and functioning of organs and systems, the physical properties of biological tissues and methods of their study used in dentistry, as well as skills in analyzing the application of physical methods of diagnosis and treatment in dentistry. The use of digital technologies in practice.	BD	UC	3	LO1 LO2 LO4
19	Latin language	Formation of the basics of terminological competence of a medical specialist who is able to consciously and competently use medical terminology of Greek-Latin origin in the study of medical disciplines, as well as in his practical and scientific activities. Latin language and its role in the formation of medical terminology. Three subsystems of medical terminology (anatomical, clinical, pharmaceutical). Making a recipe.	BD	UC	3	LO1 LO3

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20	Musculoskeletal system and skin in norm (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics)	Integrated discipline: the study of morphological and functional features of the musculoskeletal system and skin, its topical basis for physical diagnostics. Biomechanisms of excitability-contractility occurring in the muscles in conjunction with the skeleton, the phenomenon of movement. Knowledge of the macroscopic and microscopic structure of bones, joints, muscles. Visual methods for the study of the musculoskeletal system. Morphophysiology of the maxillofacial region, tooth. Dental X-ray anatomy	BD	UC	5	LO1 LO2
21	The normal nervous system and sense organs and vision (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics)	Integrated discipline: the formation of fundamental knowledge about the morphofunctional and biochemical features of the nervous system and sensory organs, their topical basis for physical diagnostics. The structure and membranes of the spinal cord. Formation of plexuses of spinal nerves. Topography of the cranial nerves. Ventricles of the brain, CSF circulation. Pathways of the brain and spinal cord. autonomic nervous system. The structure of the sense organs and vision. Visual methods for studying the nervous system, sense organs and vision.	BD	UC	6	LO1 LO2
22	Normal cardiorespiratory system (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics)	Integrated discipline: study of morphofunctional, biochemical features of the cardiorespiratory system, their topical basis for physical diagnostics. The structure of the heart and blood vessels. Circles of blood circulation. Arteries of the systemic and pulmonary circulation. System of superior and inferior vena cava. Formation of the portal vein. Topography of the chest and mediastinum. The structure of the nasal cavity, larynx and trachea. Broncho-alveolar tree. The structure of the lungs. Pleura, pleural cavity. Visual methods for studying the cardiorespiratory system of the system.	BD	UC	5	LO1 LO2

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23	Normal digestive and endocrine systems (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics,)	Integrated discipline: the formation of fundamental knowledge about the morphofunctional and biochemical features of the digestive and endocrine systems. Anatomy of the digestive and endocrine systems. Visual research methods	BD	UC	4	LO1 LO2
24	Normal genitourinary system (anatomy, physiology, histology, biochemistry, basics of radiation diagnostics	Integrated discipline: the formation of fundamental knowledge about the morphofunctional and biochemical features of the genitourinary system. The structure of the kidneys. Nephron. The structure of the ureter and bladder. The structure of the male and female reproductive organs. Muscles and fasciae of the perineum. Syntopy, holotopy, skeletopy of the genitourinary organs. Clinical and visual research methods.	BD	UC	5	LO1 LO2
25	Normal blood and lymph (anatomy, physiology, histology, biochemistry)	Integrated discipline: morphofunctional and biochemical characteristics of blood and lymph. Organs of hematopoiesis and immune system Morphology of blood cells. Types of immunity. Clinical, laboratory, visual research methods.	BD	UC	3	LO1 LO2
26	Introduction in clinic	Organization of the work of medical staff and algorithms for performing various manipulations. The principles of caring for diverse patients and the organization of a therapeutic and protective regime. Performing nursing procedures and familiarization with the rules of preparation for instrumental research methods. Safe hospital environment and provision of sanitary and anti-epidemic regime. Organization of transportation of patients. Working in the treatment room and maintaining medical records. First aid.	BD	UC	3	LO1 LO3 LO4 LO7

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27	Fundamentals of therapeutic dentistry and restorative dentistry (Fundamentals of therapeutic dentistry; Fundamentals of restorative dentistry)	Integrated discipline: Formation of knowledge, skills and abilities in the organization of therapeutic dental reception, anatomy and topography of the cavities of permanent teeth, classification of caries and preparation of carious cavities, modern dental materials, skills of reconstruction and direct restoration of defects in hard tissues of teeth using optical systems. Study of the basics of restoration and correction of aesthetic and functional parameters of the tooth with composite materials.	BD	UC	4	LO1 LO2 LO4
28	Educational practice "Basic dental skills"	Formation of skills for dental examination of the patient and training in individual oral hygiene. Identification of superficial formations on the teeth. Algorithms for conducting controlled brushing of teeth. Algorithms for conducting oral hygiene lessons in children's institutions. Basics of communication when communicating with patients. Providing patient-centered care.	BD	UC	1	LO3 LO4 LO7
29	Microbiology and immunology	Formation of students' knowledge about the role of microorganisms in human infectious pathology, the development of microbial diseases in somatic patients, the violation of the normal microflora of the human body. Formation of students' knowledge about the role of microbiology in solving the problem of reducing and eliminating infectious diseases, in which knowledge and assessment of the immune status of the human body plays a key role. Morphophysiology and genetics of microorganisms, etiopathogenesis, immunity, laboratory diagnostics, prevention and etiotropic therapy of major bacterial, viral and fungal infections. General mechanisms of functioning of the immune system and modern immunological methods for diagnosing infectious and noninfectious diseases.	BD	UC	4	LO1 LO2

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30	General pathology (pathological anatomy, pathological physiology)	<i>Integrated discipline</i> Formation of basic knowledge and skills in the pathomorphology of typical general pathological processes and dental diseases. Etiology, pathogenesis, morphogenesis, morphology, outcome, complications, causes of death. The description of macro- and micro-preparations, the formulation of a pathoanatomical conclusion in order to understand the mechanisms of development of dental diseases, their pathoanatomical manifestations, interpretation of the results and diagnosis. General patterns of occurrence, development, outcome of pathological processes that form the basis of diseases, as well as their characteristic functional changes	BD	UC	6	LO 1 LO 2
31	Topographic anatomy of the head and neck	Formation of anatomical foundations of clinical thinking and basic skills of basic surgical techniques. The general principle of the layered structure of the human body. Topographic anatomy of the head and neck Clinical anatomy of internal organs, cellular spaces, neurovascular formations, bones and large joints. Age-related features of the structure, shape and position of organs. Technique of performing basic surgical techniques using general surgical and specialized instruments. Questions of ethics and deontology. Operative accesses in emergency conditions. Conicotomy.	SD	UC	4	LO1 LO2 LO9
32	Pharmacology	Formation of knowledge on the general laws of pharmacodynamics and pharmacokinetics of medicinal substances in dentistry. Primary pharmacological reactions. General principles of prescribing and composing prescriptions. Calculation of doses and concentrations of medicinal substances. Classification of medicines. Comparative assessment of pharmacological properties of anesthetics: anesthetic	SD	UC	5	LO1 LO2 LO4

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		activity, effect on the central nervous system, ability to penetrate through mucous membranes, toxicity. Adverse reactions of medicines, methods of prevention and correction of side effects.				
33	Propaedeutics of internal diseases	Formation of skills for subjective (questioning) and objective examination (palpation, percussion and auscultation) of the patient. Understanding the basics of semiotics and syndromology. Substantiate the need for the collected material on the use of basic methods of clinical examination for diseases of internal organs. Filling out medical documentation. Planning of laboratory and instrumental studies. Basics of communication when communicating with patients.	BD	UC	4	LO 1 LO 2 LO 3 LO 4 LO 8
34	Neurology	Formation of skills of neurological examination, detection of lesion symptoms and substantiation of topical diagnosis, fundamentals of pharmacotherapy, prevention. Symptoms and syndromes of damage to the motor tract and extrapyramidal system. Sensitivity and its disorders. Afferent systems of the face and oral cavity. Cranial nerves of the V and VII pairs, lesion syndromes and diagnosis. Features of vegetative innervation of the face and oral cavity, symptoms of the lesion. Treatment and prevention. Effective interaction with patients and other specialists. Documenting the processes of providing medical services.	SD	UC	3	LO2 LO3 LO4 LO8
35	Mental disorders (psychiatry, narcology)	Formation of skills on examination methods and tactics of patient management in psychiatry. Organization of psychiatric and narcological care. Legal issues of psychiatry and narcology. Forensic psychiatric and narcological examination. General psychopathology: disorders of sensations and perception, thinking, memory and intelligence, emotional disorders, disorders of will and drives, pathology of attention and consciousness. Questions of ethics and deontology.	SD	UC	3	LO2 LO3 LO4 LO9

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36	Basics of endodontics	Formation of students' knowledge of the topography of the tooth cavity, the principles of preparation of the tooth cavity and root canals using modern tools; according to the method and technique of manipulations in the oral cavity for trauma, pathological changes in the pulp, periodontium and other various indications and materials for root canal filling.	SD	UC	5	LO2 LO4
37	Cariesology and noncarious lesions of hard tissues of the tooth	Formation of objective, evidence-based knowledge of the carious process and non-carious lesions, practical skills in the field of medical deontology, general principles of diagnosis and semiotics of diseases of hard tissues of the tooth, in the differential diagnosis of caries and non-carious lesions, depending on the clinical classification, pathomorphology, pathogenetic substantiation of the clinic of these diseases.	SD	UC	4	LO2 LO3 LO4
38	Prevention of dental diseases	Formation of knowledge and skills to identify and eliminate risk factors for dental diseases, methods of organizing and conducting preventive measures among various populations at individual and group levels; methods of dental education and motivation of the population to maintain dental health; conducting epidemiological dental examinations of children and adults and planning prevention programs. Standards of public health protection, sanitary and hygienic regime, occupational safety and epidemiological safety of the environment.	SD	UC	3	LO1 LO3 LO7

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39	Basics of orthopedic dentistry	Formation of knowledge about the organization of orthopedic dental care to the population; functional anatomy of the chewing and speech apparatus. Basic and additional methods of research of orthopedic diseases. General symptomatology of diseases of the dental system requiring orthopedic treatment. Types of dentures and their characteristics. Effective interaction with patients and other specialists.	BD	UC	4	LO1 LO2 LO3 LO4
40	Basics of microprosthetics *	Formation of knowledge about defects and deformations of the clinical crown of teeth. Methods for determining the indices of destruction of the tooth crown. Definition of indications and contraindications for microprosthetics. Communication skills in dealing with the patient. Design planning and modeling of a microprosthesis. Work with laboratory, optical and dental equipment, tools, filling, prosthetic and auxiliary materials.	BD	EC	4	LO2 LO3 LO4
41	Basics of oncostomatology*	Formation of knowledge about oncological alertness, diagnostics and tactics of patient management. Tumors and tumor-like formations of the maxillofacial region, classification. Odontogenic tumors. Cysts of the jaws. Precancerous diseases of the oral mucosa. Cancer of the mucous membrane of the mouth, tongue, lower lip, upper and lower jaw , statistics. Risk factors. Metastasis and recurrence of cancer. Diagnostics with the use of laboratory equipment. Conservative and operative methods of treatment. Rehabilitation. Questions of ethics and deontology in oncostomatology.	BD	EC	4	LO1 LO2 LO4 LO9

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42	Industrial practice "As an assistant to a dentist-therapist"	Formation of skills in the organization of primary surgical care. Aseptics and antiseptics. Injuries, burns and assistance with them. Wounds and wound process. Types of surgical sutures. Bleeding and blood loss. Local and regional anesthesia in surgery. General anesthesia. Questions of ethics and deontology in surgery. Filling out medical documentation. Planning of laboratory and instrumental studies. Basics of communication when communicating with patients. Compliance with the norms of public health protection	SD	UC	3	LO3 LO4 LO5 LO7 LO8
43	Hygiene and epidemiology (General hygiene; Epidemiology)	<i>Integrated discipline</i> Formation of knowledge about the environment and health, epidemiological analysis, skills on the scientific basis of hygienic rationing of environmental factors. Hygiene of medical and preventive organizations. Prevention of VBI. The main tools of epidemiological analysis. Basic schemes of epidemiological studies and their application to public health. Application of epidemiological methods to basic and clinical sciences, their research results and analysis for policy development. Epidemiological analysis, epidemiological diagnostics, epidemiological surveillance. Occupational safety and epidemiological safety of the environment	BD	UC	4	LO1 LO2 LO7 LO11
44	Fundamentals of project activities and evidence-based medicine (Fundamenta	<i>Integrated discipline</i> Formation of knowledge of methodology and methods of scientific research. The main sources of scientific information, analysis and processing. The concept of scientific ethics. Formulation of conclusions of scientific research,	SD	UC	4	LO1 LO10

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	Is of project activities; Fundamentals of evidence-based medicine)	registration of results. The current state of evidence-based medicine: significance for clinical practice; formulation of clinical questions; problems of diagnostic tests and screening, organization of clinical trials and the use of their results for the development of clinical recommendations.				
45	Introduction to Research (Public Health; Biostatistics;)	Formation of knowledge about the basic concepts and definitions used in public health. Stages of public health development. Medico-social aspects of a healthy lifestyle. Demography. The incidence of the population, the main methods of studying the incidence. Physical development, medical and social aspects of the health of certain groups of the population (women, children and adolescents, the older generation). Using the methods of descriptive statistics and the theory of testing statistical hypotheses in biomedical research, as well as processing statistical data using special software.	SD	UC	4	LO1 LO10 LO11
46	General surgery	Formation of skills in the organization of primary surgical care. Aseptics and antiseptics. Injuries, burns and assistance with them. Wounds and wound process. Types of surgical sutures. Bleeding and blood loss. Local and regional anesthesia in surgery. General anesthesia. Questions of ethics and deontology in surgery. Completion of medical documentation. Planning of laboratory and instrumental studies. Fundamentals of communication when communicating with patients.	SD	UC	3	LO 2 LO 3 LO 4

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47	Otorhinolaryngology and ophthalmology	Formation of knowledge and skills of etiopathogenesis, clinic, clinical laboratory, instrumental, differential diagnosis of diseases of the organs of hearing and vision. Skills of diagnosis, conservative and surgical treatment. Wellness activities and rehabilitation. Filling out medical documentation. Planning of laboratory and instrumental studies. Basics of communication when communicating with patients.	SD	UC	3	LO 2 LO 3 LO 4
48	Obstetrics and gynecology	Formation of knowledge on the basics of organization of obstetric care to the population; physiology of pregnancy and childbirth, general principles of examination and features of pregnancy management; Prevention of dental diseases in women, the influence of pregnancy and childbirth on the development of pathology of the dental system in children. Odontogenic infection in the development of purulent-septic complications in pregnant women and maternity patients. Provision of emergency care to pregnant women in labor, maternity hospitals. Critical timing and complicated course of pregnancy. Diagnostics and principles of treatment of gynecological diseases. Functional diagnostic tests. Screening methods. Joint observation of a pregnant woman by a dentist and a gynecologist. Basics of communication when communicating with patients.	SD	UC	4	LO 2 LO 3 LO 4 LO7

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49	Infectious diseases	Formation of the basic foundations of modern infectology of adults and children, its relationship with clinical microbiology, immunology. Diagnostic methods, fundamentals of pharmacotherapy and prevention of infectious pathology based on the application of scientific principles. Skills of compliance with the norms of public health protection, sanitary and hygienic regime, occupational safety in healthcare organizations, epidemiological safety of the environment. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan	SD	UC	4	LO2 LO3 LO7 LO11
50	Dermatovenereology	Formation of the basic foundations of modern dermatovenereology of adults and children. Diagnostic methods, fundamentals of pharmacotherapy and prevention of infectious pathology based on the application of scientific principles. Skills of compliance with the norms of public health protection, sanitary and hygienic regime, occupational safety in healthcare organizations, epidemiological safety of the environment. Questions of ethics and deontology. High-quality performance of professional duties, medical care within the framework of the legislation of the Republic of Kazakhstan.	SD	UC	3	LO2 LO3 LO4 LO7 LO9
51	Phthisiology	Formation of knowledge and skills on diagnostic methods, fundamentals of pharmacotherapy and prevention of tuberculosis, based on the application of scientific principles. Skills of compliance with the norms of public health protection, sanitary and hygienic regime, occupational safety in healthcare organizations, epidemiological safety of the environment.	SD	UC	3	LO2 LO3 LO4 LO7

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52	Infection control in dentistry	Formation of knowledge and skills on sanitary and epidemiological requirements for the placement, arrangement, equipment and equipping of dental clinics. Sanitary and epidemiological control over them. Organization of current sanitary and hygienic measures in dental offices and departments. Disinfection and pre-sterilization cleaning of dental instruments and equipment. Sterilization. Quality control of disinfection and sterilization measures. Control of the operation of sterilization equipment. Prevention of nosocomial infections in dentistry. Compliance with the sanitary and hygienic regime, occupational safety and epidemiological safety.	SD	UC	3	LO1 LO4 LO7 LO11
53	Bioethics and conducting scientific research in medicine	Formation of fundamental knowledge on ethical issues of biomedical research, ethical standards for the use of scientific developments, legal regulation, skills of competent assessment of responsible decisions in the field of biomedical research and diagnostics. Methodology of planning and features of scientific research in medicine. Design selection, obtaining and analyzing information, drawing conclusions, transfer and use of research knowledge.	SD	UC	3	LO1 LO10
54	Periodontology	Formation of knowledge and skills in the etiology, pathogenesis, clinic of periodontal diseases, in making a preliminary and final diagnosis, using basic and additional research methods, carrying out preventive measures and detecting periodontal diseases in the early stages, providing outpatient care and dynamic monitoring of patients with periodontal diseases. Effective communication with patients, their families and medical professionals. Providing documentation of the processes of providing medical services.	SD	UC	5	LO1 LO2 LO3 LO4 LO5 LO7 LO8

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55	Diseases of the oral mucosa	Formation of knowledge on etiology, clinical manifestations, methods of examination, diagnosis and differential diagnosis, as well as treatment and prevention of diseases of the oral mucosa. Skills in providing outpatient dental care to patients with processes localized on the oral mucosa, in mastering the general principles of diagnosis, semiotics, treatment and prevention of diseases of the oral mucosa. The use of digital technologies and documentation.	SD	UC	5	LO1 LO2 LO3 LO4 LO5 LO7 LO8
56	Propaedeutics of orthodontics	Formation of knowledge and practical skills for all methods of diagnosis, treatment and prevention of dental anomalies in children in different age periods. . Effective communication with patients, their families and medical professionals. Providing documentation of the processes of providing medical services.	SD	UC	5	LO1 LO2 LO3 LO4 LO8
57	Children surgical dentistry	Formation of knowledge and practical skills in the main sections of pediatric surgical dentistry at different age periods in children (etiology, pathogenesis, classification, features of the clinical course and treatment of injuries, inflammatory processes, TMJ diseases, the relationship of diseases of organs and systems with periodontal pathology, oral mucosa in children and adolescents, features of their course, diagnosis, treatment). . Effective communication with patients, their families and medical professionals. Providing documentation of the processes of providing medical services.	SD	UC	5	LO2 LO3 LO4 LO5 LO6 LO7 LO8

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58	Children's Dentistry	Formation of knowledge and skills in the main sections of pediatric therapeutic and surgical dentistry at various age periods in children (diseases of the teeth, oral mucosa, periodontal disease in children, methods of their diagnosis, prevention and comprehensive treatment; the relationship of dental diseases with the somatic health of the child, new approaches to the diagnosis of congenital malformations, diseases of the temporomandibular joint, therapeutic and rehabilitation measures in the system of medical examination of children with inflammatory, traumatic, tumor lesions of the maxillofacial region; modern methods of anthropometric, radiological and functional diagnostics, as well as anomalies of teeth, dentition, jaw bones and occlusion in children. effective communication with patients, their families and medical professionals. Providing documentation of the processes of providing medical services.	SD	UC	5	LO2 LO3 LO4 LO5 LO6 LO7 LO8
59	Oral surgery	Formation of skills about the principles of examination of the patient in surgical practice. X-ray semiotics of surgical dental diseases. Preoperative interventions in the oral cavity. Methods of anesthesia. Surgical methods of preparing the oral cavity for prosthetics. Surgical methods of treatment of periodontal diseases. Urgent conditions. Errors and complications. Communication skills in communicating with the patient. Providing documentation of the processes of providing medical services.	SD	UC	5	LO2 LO3 LO4 LO5 LO6 LO7 LO8

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60	Industrial practice "As an assistant to a dentist-surgeon"	Organization of surgical dentistry, who has mastered the practical skills of diagnosing and treating major dental diseases, mastered the methods of surgical treatment for various diseases of the maxillofacial area. Communication skills in dealing with the patient. Improvement of knowledge and skills, continuous professional development. Providing documentation of the processes of providing medical services. Improving knowledge and skills.	SD	UC	4	LO2 LO3 LO4 LO5 LO6 LO7 LO8
61	Neurodentistry	Formation of objective, evidence-based knowledge about neurostomatological diseases. Clinical variants of prosopalgia. Facial pain, psychogenic pain, somatogenic pain. Methods of examination and treatment in neurostomatological diseases. Studies of somatoneurological status. Rehabilitation. Communication skills in dealing with the patient. Providing documentation of the processes of providing medical services.	SD	UC	4	LO2 LO3 LO4 LO5 LO6 LO8
62	Diseases and injuries of the maxillofacial region	Formation of knowledge about the features of clinical examination of a dental patient with inflammatory diseases of the soft tissues of the maxillofacial region, their complications, diseases and injuries of the trigeminal and facial nerves, inflammatory and dystrophic diseases of the temporomandibular joint, injuries of the maxillofacial region and the provision of outpatient and inpatient dental care to patients. Tactics of patient management. Emergency conditions and assistance with them. Errors and complications during and after surgical interventions on the maxillofacial area, their prevention. Examination of temporary disability after an odontogenic infection. Providing documentation of the processes of providing medical services.	SD	UC	6	LO2 LO3 LO4 LO5 LO6 LO7 LO8

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63	Clinical Orthopedic Dentistry	Formation knowledge about orthopedic devices, their classification, mechanisms of action. Fixing, repositioning, shaping, replacement, combined devices (prostheses). Orthopedic methods of treatment for injuries of the maxillofacial region. Dislocations and fractures of teeth. Fractures of the alveolar process. Fractures of the body of the upper jaw and lower jaw. Misaligned fractures of the jaws. False joints. Contracture of the lower jaw. Orthopedic methods in restorative treatment. Prevention and rehabilitation. Providing documentation of the processes of providing medical services.	SD	UC	5	LO3 LO4 LO5 LO6 LO7 LO8
64	Gnathology	Interdisciplinary dentistry. Formation of knowledge and skills in determining the principles of restoring aesthetics and improving the functioning of the dentition Skills in providing orthopedic dental care, taking into account the functional interaction of the components of the masticatory system (teeth, periodontium, temporomandibular joint, masticatory muscles and nervous system). Communication skills in dealing with the patient. Providing documentation of the processes of providing medical services.	SD	UC	4	LO1 LO3 LO5 LO6

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65	Dental Implantology	Formation of knowledge and skills in determining the types of bone structure. Histological types of bone tissue. The macrostructure of the bone. Microstructure of the jaws. Bone regeneration. Bone healing by primary and secondary tension. The reaction of bone tissue to functional load. Jaw atrophy. Osteoporosis. Modern methods of dental implantation, as well as indications, contraindications, complications and techniques of dental implantation surgery. Implantation materials. Morphology of biocompatibility of intraosseous implants. Questions of deontology. Treatment planning (surgical and orthopedic stages). Standards of implantation efficiency.	SD	UC	5	LO2 LO3 LO4 LO5 LO6 LO9
66	Digital Dentistry (Photo protocol in dentistry; Digital Dentistry)	Formation and systematization and deepening of professional knowledge, skills, skills, development of new knowledge, methods of performing dental photoprotocol. Formation of computer technology skills and application of modern technologies at all stages of dental care, practical skills in the use of medical computer information systems for diagnosis, prevention, treatment and rehabilitation in dentistry. Providing documentation of the processes of providing medical services.	SD	UC	3	LO4 LO5 LO6 LO8
67	Industrial practice "As an assistant to a dentist-orthopedist"	Instrumental examination of teeth and dentition, determination of the degree of tooth mobility. Definition of the CPITN index. Selection of impression materials and impression trays for taking impressions from the upper and lower jaws. Determination of chewing efficiency according to Agapov. Communication skills in dealing with the patient. Improvement of knowledge and skills, continuous professional development.	SD	UC	4	LO3 LO4 LO5 LO6 LO7 LO8

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68	Prosthetics of teeth and dentition	Formation of knowledge, skills and abilities in the identification and classification of defects in hard tissues of teeth and dentition. Etiology. Pathogenesis. Occlusal trauma. Traumatic node. Odontoparodontogram. Diagnostics. Drawing up a comprehensive treatment plan. Methods for conducting clinical and laboratory stages of manufacturing fixed structures. Dynamic Surveillance. Communication skills in communicating with the patient. Improvement of knowledge and skills, continuous professional development.	SD	UC	5	LO2 LO3 LO4 LO5 LO6 LO9
69	Prosthetics for complete loss of teeth	Formation of knowledge, skills and abilities in determining the characteristics of the examination of patients with complete absence of teeth, indications and contraindications for the use of various removable dentures in the absence of teeth, methods for conducting clinical and laboratory stages of manufacturing removable dentures in the absence of teeth. Communication skills in communicating with the patient. Improvement of knowledge and skills, continuous professional development.	SD	UC	5	LO2 LO3 LO4 LO5 LO6 LO9
70	Legal aspects of dentistry (Legal aspects of dentistry; Medical documentation in dentistry;)	Formation of knowledge about the legal framework in dentistry, allowing to evaluate and resolve emerging legal relations in the course of professional medical activity. The standard of organization of dental care in the Republic of Kazakhstan. documents regulating the activities of the dental clinic. Documents regulating the activities of the dental clinic. Rules for the provision of medical care. Formation of concepts about the maintenance of medical records and control of the maintenance of current accounting and reporting documentation in accordance with established forms. Compliance with the norms of public health protection	SD	UC	3	LO1 LO8 LO11

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71	Emergency medical care	Basic principles, normative-legal acts of emergency medical care. Methods of clinical examination of the patient, diagnosis of emergency conditions at the prehospital stage. terminal states. Basic cardiopulmonary resuscitation (BLS). Advanced cardiopulmonary resuscitation (ACLS). Emergency medical care for cardiological, pulmonological, endocrinological patients. Emergency conditions in the practice of infectious, neurological, psychiatric, surgical, urological, obstetric-gynecological, pediatric pathologies.	SD	UC	6	LO2 LO3 LO6
72	Clinical Epidemiology	Formation of competencies for conducting clinical epidemiological studies using the principles of evidence-based medicine aimed at creating conditions for the protection of citizens' health; for the implementation of a set of measures for early diagnosis, identification of the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health; on the organization and conduct of scientific research, including the choice of goals and formulation of tasks, planning, selection of adequate methods, collection, processing, analysis of data and their public presentation.	BD	EC	4	LO1 LO10

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73	Organization and management of health care	Strategic management of the healthcare system. Separation of functions in the field of healthcare at different levels of government. State regulation in the field of healthcare. Models of healthcare financing. Organizational and economic models of functioning of a healthcare organization. Strategic planning at different levels of the healthcare system. Activities within the framework of the legislation of the Republic of Kazakhstan. Assessment of the health status of the population and prevention of diseases.	BD	EC	4	LO1 LO11
74	Management	Management as an informational and functional process. Principles and methods of management. Modern management approaches. Integration processes in management. Control in the management system. Activities within the framework of the legislation of the Republic of Kazakhstan. Organization as a system. Basic management functions. Connecting processes in management. The manager in the management system. Leadership, power and leadership. Continuous improvement of activities.	BD	UC	2	LO1 LO9 LO11

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75	Management Psychology	Formation of the psychological management culture of the head, which allows to effectively carry out organizational and managerial activities in the professional sphere. Psychology of managerial functions, planning, forecasting, organization, coordination, stimulation, motivation, managerial communications and decisions. Personality as an object of management, socialization and personal development. Psychological portrait of the manager. Psychology of leadership and leadership, ethics and social responsibility of the head. Self-development of the manager. The internal and external environment of the organization, the corporate culture of the organization, the psychological climate in the team and the psychology of teamwork.	BD	UC	2	LO1 LO9 LO11
76	Foreign language (professional)	Formation and development of communicative competences (linguistic, sociolinguistic, sociocultural, strategic, discursive and pragmatic) necessary for the implementation of professional activities. Formation of a sufficient level of proficiency in a professional foreign language for the implementation of written and oral information exchange necessary in scientific activity.	BD	UC	2	LO1 LO3 LO10
77	Orthodontics	Mastering the skills of conducting functional methods for the study of dentoalveolar anomalies. Digital diagnostic technologies in orthodontics. Differential diagnostic criteria and methods of treatment of anomalies in the position of the teeth and anomalies of the dentition in the milk replaceable permanent dentition. Modern digital methods for the treatment of dentoalveolar anomalies. Aligners. Orthodontic treatment with fixed appliances. Communication skills in communicating with the patient. Improvement of knowledge and skills, continuous professional	SD	UC	5	LO3 LO4 LO5 LO6 LO7 LO8


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		development. Providing documentation of the processes of providing medical services.				
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Internship disciplines (High school component)

78	Therapeutic dentistry	Formation of skills in the methods of general clinical examination; interpretation of the results of laboratory, instrumental diagnostic methods; algorithm for making a preliminary diagnosis to the patient with subsequent referral to additional examination and to specialist doctors; detailed dental diagnosis; implementation of basic medical diagnostic and therapeutic measures to provide first aid to the patient in urgent and life-threatening conditions; methods diagnostics and treatment of caries, pulp and periodontal diseases, periodontal diseases and oral mucosa in children and adults; determination of dental indices registering the condition of hard tissues of teeth, periodontal tissues and oral hygiene; manual skills in conservative, operative and restorative dentistry in accordance with the protocol of patient management; carrying out preventive and therapeutic procedures that help to preserve the structure of teeth as much as possible, guided by the principle	SD	UC	7	LO4 LO5 LO6 LO7
79	Clinical Periodontology	Formation of knowledge and skills on the main biological aspects of periodontal and periimplant tissues, including the anatomy of periodontal tissues, the structure and functions of bone as a living organ, the processes of osseointegration, as well as epidemiology, etiology, pathogenesis and diagnosis of periodontal diseases and their complications; algorithm of clinical examination of patients, including methods of radiation diagnostics, treatment planning issues, protocols for the treatment of patients with periodontal diseases. Non-surgical methods of treatment, as well as methods of periodontal surgery, including restorative, regenerative and plastic.	SD	UC	5	LO2 LO4 LO5 LO6

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		The use of modern materials, medicines, equipment, technologies and methods of treatment used in periodontology.				
80	Clinical endodontics	Formation of knowledge in individual differences in the structure of the roots of teeth and root canals; clinic of pulpitis, periodontitis; radiological signs of pulp and periodontal diseases; equipment of the doctor's workplace; errors, complications arising during work, their prevention; physical factors in endodontics; skills in root canal treatment methods, their obturation; classification, etiology, pathogenesis, clinic, diagnosis and differential diagnosis of complications of caries, in providing qualified medical care to patients with complicated dental caries in accordance with the principles of evidence-based medicine and modern advances in therapeutic and diagnostic technologies. Communication skills in communicating with the patient.	SD	UC	6	LO2 LO3 LO4 LO5 LO6
81	Orthopedic dentistry	Mastering the skills to determine the functional pathology of the dentoalveolar system. Anatomical facial arch. Bruxism. Modern methods of examination of patients in orthopedic dentistry. Clinical and laboratory stages of manufacturing onlay inlay overlay pinlay veneers using the technique of CAD-CAM systems. Features of prosthetics on dental implants. Interdisciplinary dentistry. Gnathology. Rehabilitation and dynamic observation until full comfortable restoration of functions. Communication skills in communicating with the patient. Improvement of knowledge and skills, continuous professional development. Providing documentation of the processes of providing medical services.	SD	UC	6	LO2 LO3 LO4 LO5 LO8

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82	Surgical dentistry	Consolidation of skills to identify odontogenic inflammatory diseases of the maxillofacial region. Etiology pathogenesis clinic. Diagnostics. Differential diagnostic criteria for odontogenic and non-odontogenic inflammatory diseases of the maxillofacial region. specific inflammatory diseases. General clinical signs diagnostic methods principles of complex treatment. Indications and contraindications. Mistakes and complications. Rehabilitation. Communication skills in dealing with the patient.	SD	UC	6	LO2 LO3 LO4 LO5 LO8
		Cycle of major disciplines				
83		<i>Experimental research work</i>			13	
		Experimental research work			5	
		Experimental research work			8	
84		<i>Writing and defending a master's project and preparing and passing a comprehensive exam</i>			12	
		Preparing and passing a comprehensive exam			4	
		Writing and defending a master's project			8	
	TOTAL for EP				360	