

ONTUSTIK QAZAQSTAN
MEDISINA
AKADEMIASY
«Оңтүстік Қазақстан медицина академиясы» АҚ



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



EDUCATIONAL PROGRAM

Group of the educational program: BM 087 Dentistry

Code of the EP: 6B10117

Title of the educational program Dentistry

Level of the educational program: Bachelor and profile magistracy

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АО «Южно-Казахстанская медицинская академия»

The educational program 6B10117 «Dentistry» was developed by the members of the «Dentistry» EP AC

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» EP AC _____ Kenbaeva L.O.

Protocol № 9 of «28» 04 2025y.

Agreed by the Methodological Council

Vice Rector for academic affairs _____ Anartayeva M.U.

Protocol № 9 of «02» 05 2025y.

Approved by the Academic Council

Protocol № 13 of «02» 05 2025y.



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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. Normative documents for the development of educational program

- Code of the Republic of Kazakhstan dated 07.07.2020 № 360- VI "On People's Health and Health Care System" (with amendments and additions as of 04.07.2022);
- Law of the Republic of Kazakhstan "On Education" dated 27.07.2007 № 319- III with amendments as of 04.07.2022
- Order of the Minister of Health of the Republic of Kazakhstan "On approval of the state mandatory standards for levels of education in the field of health care" of 04.07.2022, № KRDSM-63 with amendments and additions of 26.06.2025, № 61)
 - Order of the Minister of Science and Higher Education of the Republic of Kazakhstan "On approval of the state mandatory standards of higher and postgraduate education" of 20.07.2022, № 2 with amendments and additions of 04.03.2025, № 90
 - Order of the Minister of Healthcare of the Republic of Kazakhstan "On approval of model curricula on medical and pharmaceutical specialties" of 09.01.2023, № 4;
 - On amendments and additions to the Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. KR DSM-305/2020 "On approval of the nomenclature of specialties and specializations in the field of healthcare, nomenclature and qualification characteristics of positions of healthcare workers"
 - Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 № 152 "On approval of rules of educational process organization by credit technology of education" (as amended on May 06, 2021)
 - Order of the Minister of Education and Science of the Republic of Kazakhstan from 30.10.2018 № 595 with amendments and additions as of 29.12.2021. "On approval of the Standard Rules of activity of educational organizations of respective types and kinds",
 - "Regulations on the Order and Procedures for the Development of Educational Programs" "SKMA" JSC from 22.04.2024y.
 - Internal regulatory documents of SKMA JSC.

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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 informatiRon

№	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	
8	NQF level	7
9	IQF level	7
10	Distinctive features of EP	Continuous integrated educational program
	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	Amount of credits	360
16	Awarded academic degree, qualification	Master of Dentistry / Dentist
17	Availability of an appendix to the license for the direction of personnel training	KZ36LAA00011387
18	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
19	Information about disciplines	application 1.2

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Application 1.1

Matrix of correlating learning outcomes for the educational program as a whole with formed competencies

LO / KC	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11
KC 1	+	+		+	+	+	+	+			
KC 2			+		+	+	+	+	+		+
KC 3				+	+	+	+	+			
KC 4	+		+		+	+	+	+	+	+	+
KC 5						+	+				+
KC 6			+		+		+	+	+	+	+
KC 7				+	+	+	+	+	+		+

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Application 1.2

Information about disciplines

№	Name of the discipline	Brief description of the discipline	Cycle (GED, BD, PD)	Component (RC, UC, EC)	Number of credits	Generated LO (codes)
		The cycle of general education subjects			46	
		Required component			41	
		Component of choice			5	
1	History of Kazakhstan	Formation of the ideological, civic and moral positions of a future specialist based on a deep understanding and scientific analysis of the main stages, patterns and peculiarities of the historical development of Kazakhstan, as well as the skills of using methods and techniques of historical description to analyze the causes and consequences of events in the history of Kazakhstan.	GED	RC	5	LO 1 LO 10
2	Physical education	Formation of a personality 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 education.	GED	RC	6	LO 1 LO 7 LO 9
3	Foreign language	Formation of skills in using language and speech tools based on a system of grammatical knowledge to build 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; information analysis in accordance with the communication situation and the ability to interpersonal social and professional communication in a foreign language. in a foreign language.	GED	RC	8	LO 3 LO 8
4	Kazakh (Russian) language	Russian Russian and Kazakh languages; formation of communication skills in oral and written forms in Kazakh and Russian 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 Kazakh and Russian; the use of linguistic and speech tools based on the	GED	RC	8	LO 3 LO 8

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		system of grammatical knowledge to build communication programs in Kazakh and Russian, professional success and self-improvement.				
5	Information and communication technology	Formation of information and communication technology skills that contribute to the development of information literacy using artificial intelligence, including the processing and analysis of big data, in all areas of their lives and activities; the use of various types of information and communication technologies in their personal activities: Internet resources, cloud and mobile services for search, storage, processing, protection and dissemination of information, etc.	GED	RC	3	LO 1 LO 8
6	Philosophy	Formation of skills in assessing the surrounding reality based on worldview positions formed by knowledge of the fundamentals of philosophy, which provide scientific understanding and study of the natural and social world by methods of scientific and philosophical knowledge; interpret the content and specific features of mythological, religious and scientific worldviews; skills of quantitative and qualitative analysis of social phenomena, processes and problems.	GED	RC	5	LO 1 LO 3 LO 10
7	The module socio-political knowledge (sociology, political science, cultural studies, psychology)	Formation of a future specialist's ideological, civic and moral qualities, skills of self-development, critical thinking, competitiveness, sociological and political knowledge, understanding of the social structure, culture, identity of Kazakhstan, the role of the state, government and civil society.	GED	RC	6	LO 1 LO 3 LO 9
8	Legal, financial-economic, environmental, and scientific knowledge	Formation of one's own moral and civic position based on financial, economic, legal, environmental and scientific knowledge; general competencies in dealing with social, business, cultural, financial, economic, legal and ethical norms of Kazakh society for self-development and lifelong education, mobility in the modern world and critical thinking; skills in applying scientific methods and research techniques of a specific science.	GED	EC	5	LO 1 LO 3 LO 10
9	Fundamentals of economics and law	Formation of knowledge on the fundamentals of constitutional, administrative, civil and family, financial and labor, environmental and land and criminal rights of the Republic of Kazakhstan. The market and competition. Money and inflation. The monetary system. Financial system and fiscal policy. Features of the development of the national economy in the Republic of Kazakhstan. The choice of a business idea and a startup, business planning in the system of entrepreneurial activity, the content of the business plan, the skills of their development. Basic concepts of law and state-legal phenomena.	GED	EC		LO 1 LO 3 LO 10
10.	Ecology, sustainable development and life	Development of environmental literacy: based on environmental, scientific knowledge and sustainable development, formation of skills: to analyze environmental problems,	GED	EC		LO 1 LO 3

	safety, scientific research methods	develop analytical and critical thinking skills when considering environmental issues, identify and study environmental problems, search for cause-effect relationships and propose appropriate solutions; conduct and interpret environmental research: data collection skills, information analysis and application of environmental techniques to study natural systems; apply environmental knowledge to analyze and solve problems related to environmental pollution and their impact on the human body. Mastering the methodological foundations of scientific knowledge. Application of scientific research methods in theory and practice.				LO 10
11.	Fundamentals of anticorruption culture and Entrepreneurial Skills	Formation of an anti-corruption culture. Theoretical and methodological foundations of the concept of "corruption". Political power and corruption. Nepotism. The transformation of corruption in modern states. Anti-corruption policy in the Republic of Kazakhstan and the role of the social sphere in it. Legal responsibility for acts of corruption.	GED	EC		LO 1 LO 3 LO 9
The cycle of basic disciplines					106	
The university component:					98	
Component of choice:					8	
12.	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 in compliance with the principles of inclusion; methods of dental education and motivation of the population to maintain dental health; for conducting epidemiological dental examinations of children and adults and planning a prevention program. Standards of public health protection, sanitary and hygienic regime, occupational safety and epidemiological safety of the environment.	BD	UC	3	LO 1 LO 3 LO 7
13.	Molecular biology and medical genetics	Integrated discipline: Develops the skills and knowledge necessary for safe and ethical medical practice. It forms an understanding of the following principles: safety in medical practice, ethics and professional behavior in the medical field, medical law; the ability to apply professional skills and techniques, adhere to the principles of inclusion to ensure safe patient care, communicate effectively with patients, family members, colleagues, interpersonal and communication skills leading to cooperation; apply medical law in practice, taking into account legal requirements and ethical standards. Develops lifelong self-assessment and learning skills, shaping the continuous personal and professional growth of a doctor.	BD	UC	4	LO 1 LO 2 LO 10
14.	Biochemistry	Formation of knowledge about biochemical processes in the human body, about the peculiarities of metabolism in the tissues of the oral cavity, about the biochemistry of	BD	UC	4	LO 1 LO 2

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		mineral metabolism and the processes of remineralization of tooth enamel; skills in analyzing biochemical data from laboratory studies of patients (for example, glucose, calcium, enzymes), interpreting biochemical processes in terms of their impact on dental health, the application of scientific and biochemical knowledge in the diagnosis and treatment planning of dental diseases.				LO 4 LO 10
15.	Introduction in profession	Integrated Medical Discipline: develops the skills and knowledge necessary for safe and ethical medical practice. Forms an understanding of the following principles: safety in medical practice, ethics and professional behavior in the medical field, medical law; the ability to apply professional skills and techniques to ensure safe care for patients, communicate effectively with patients, family members, colleagues, interpersonal and communicative skills leading to cooperation; apply medical law in practice, taking into account legal requirements and ethical standards. Develops skills of self-assessment and lifelong learning, forming continuous personal and professional growth of a pediatrician.	BD	UC	3	LO 1 LO 3 LO 4 LO 7
16.	Chemistry	Formation of fundamental knowledge about chemical processes occurring in the human body (in the oral cavity); skills in assessing the chemical properties of compounds in terms of their use in dentistry, conducting qualitative and quantitative chemical analysis of samples (for example, saliva, dental deposits), applying chemical knowledge in the selection of dental materials (cements, fillings, antiseptics, etc. etc.) and a scientific approach to the analysis and interpretation of chemical research results.	BD	UC	4	LO 1 LO 2 LO 10
17.	Foreign language (professional)	Formation of skills of communicative competence necessary for professional interaction, mastery of a professional foreign language for conducting oral and written communication in a scientific and clinical environment, ensuring continuous improvement of activities using modern information sources and technologies.	BD	UC	3	LO 4 LO 7 LO 9
18.	Healthcare management	Formation of knowledge and skills necessary for effective management of healthcare organizations, with an emphasis on the psychological aspects of interaction between managers and subordinates, as well as the influence of psychology on managerial decision-making and organizational culture. Discipline content: Management systems, planning, SWOT analysis and forecasting. Management processes: setting goals and assessing the situation, making managerial decisions. The mechanism of management in healthcare. Digitalization of healthcare. Fundamentals of psychology in the context of management. Psychological aspects of leadership and motivation.	BD	UC	3	LO 3 LO 8 LO 11
19.	Musculoskeletal system and skin are normal	Integrated discipline: the study of morphofunctional features of the musculoskeletal system and skin with mastery of Latin terminology necessary for accurate	BD	UC	6	LO1 LO2

		<p>interdisciplinary and clinical interaction and its topical basis for physical diagnosis. Biomechanisms of excitability-contractility, occurring in muscles in connection with the skeleton, the phenomenon of movement. Knowledge of the macroscopic and microscopic structure of bones, joints, muscles, Morphophysiology of the maxillofacial region, tooth.</p>				
20.	Introduction in profession	<p>Integrated Medical Discipline: develops the skills and knowledge necessary for safe and ethical medical practice. Forms an understanding of the following principles: safety in medical practice, ethics and professional behavior in the medical field, medical law; the ability to apply professional skills and techniques to ensure safe care for patients, communicate effectively with patients, family members, colleagues, interpersonal and communicative skills leading to cooperation; apply medical law in practice, taking into account legal requirements and ethical standards. Develops skills of self-assessment and lifelong learning, forming continuous personal and professional growth of a pediatrician.</p>	BD	UC	4	LO1 LO3 LO4
21.	<i>Educational practice</i> <i>"Safe care"</i>	<p>Formation of skills of effective communication with the patient, high-quality performance of professional duties of an average doctor.personnel, organization of self-control in order to continuously improve their activities. The implementation of an individual approach to the patient and the implementation of patient-centered care.</p>	BD	UC	1	LO1 LO3 LO4
22.	Materials science in orthopedic and therapeutic dentistry	<p>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.</p>	BD	UC	3	LO1 LO4
23.	The nervous system and organs of senses, hearing, balance and vision are normal.	<p>Integrated discipline: formation of fundamental knowledge about the morphofunctional features of the nervous system and sensory organs, hearing, balance and vision, their topical basis for physical diagnosis and understanding of physiological and pathological processes in dentistry, including pain perception, innervation of the maxillary system, the work of chewing and facial muscles, as well as neurophysiological aspects of speech formation and swallowing.</p>	BD	UC	4	LO1 LO2
24.	Normal cardiovascular system	<p>Integrated discipline: to study the morphofunctional features of the cardiovascular system, their topical basis for physical diagnosis, with an emphasis on the anatomical features of the vessels of the head and neck, necessary for the safe and effective management of dental patients and assessment of the patient's cardiovascular status.</p>	BD	UC	4	LO1 LO2
25.	Normal respiratory system	<p>Integrated discipline: the study of morphofunctional features of the cardiovascular system with an emphasis on the upper respiratory tract and their connection with the organs of the craniofacial region, for the safe and reasonable conduct of dental interventions, their</p>	BD	UC	4	LO1 LO2

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		topical basis for physical diagnosis, understanding the relationship between the structures of the head, neck and respiratory system, which is critically important in the diagnosis, treatment and prevention of diseases in the dental practice.				
26.	Normal digestive and endocrine systems	Integrated discipline: formation of fundamental knowledge about the morphofunctional features of the digestive system, especially the oral cavity and adjacent departments, for the sound and safe management of dental treatment and the endocrine system, affecting the metabolism, development and condition of oral tissues, for an integrated approach to the diagnosis and treatment of patients. To prepare a basis for understanding dental diseases related to digestive disorders.	BD	UC	4	LO1 LO2
27.	Normal genitourinary system	Integrated discipline: formation of fundamental knowledge of anatomical, physiological and histological features of the organs of the genitourinary system, application of this knowledge in biomedical and clinical sciences, providing patient-centered care, observing the principles of ethics and deontology for effective professional practice in health care.	BD	UC	3	LO1 LO2
28.	Normal blood and lymph	Integrated discipline: building fundamental knowledge of the anatomical, physiological and histological features of blood and lymph., applying this knowledge to biomedical and clinical sciences, providing patient-centered care, adhering to the principles of ethics and deontology for effective professional practice in health care.	BD	UC	3	LO1 LO2
29.	General pathology	Integrated discipline: forms fundamental knowledge about the patterns of development of common pathological processes for the diagnosis of the most common diseases. Promotes understanding of the skills of pathophysiological analysis of clinical and laboratory data, description of macro - and micro-preparations, pathophysiological foundations of prevention and treatment of various diseases. Promotes the development of medical technologies using artificial intelligence, medical image processing, and disease treatment.	BD	UC	6	LO1 LO2 LO5
30.	Basics of radiation diagnostics	Formation of basic knowledge about the principles and methods of radiation diagnostics, the specifics of X-ray examinations in dentistry; skills of correct execution and interpretation of diagnostic images to improve the quality of diagnosis and patient safety, the use of radiation diagnostic results for planning and monitoring dental treatment, compliance with the rules of radiation protection in clinical practice.	BD	UC	3	LO4 LO5
31.	Fundamentals of therapeutic dentistry and 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	BD	UC	4	LO1 LO2 LO4

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		parameters of the tooth with composite materials.				
32.	Biochemistry	Formation of knowledge about biochemical processes in the human body, about the peculiarities of metabolism in the tissues of the oral cavity, about the biochemistry of mineral metabolism and the processes of remineralization of tooth enamel; skills in analyzing biochemical data from laboratory studies of patients (for example, glucose, calcium, enzymes), interpreting biochemical processes in terms of their impact on dental health, the application of scientific and biochemical knowledge in the diagnosis and treatment planning of dental diseases.	BD	UC	4	LO1 LO2 LO12
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	LO1 LO3 LO4 LO7
34.	Basics of orthopedic dentistry	Formation of knowledge about the history of orthopedic dentistry Organization of orthopedic dental care to the population. Medical documentation in orthopedic dentistry. Functional anatomy of the masticatory-speech apparatus. Basic and additional methods of research of orthopedic diseases. General symptomatology of diseases of the dentoalveolar system requiring orthopedic treatment. Types of dentures and their characteristics	BD	UC	4	LO1 LO2 LO3 LO4
35.	Microbiology and immunology	It forms knowledge about the morphophysiology and genetics of microorganisms, etiopathogenesis, immunity, laboratory diagnostics, prevention, and further promotes understanding of the skills of immunological diagnostic methods and mechanisms of functioning of the immune system, observing the norms of the legislation of the Republic of Kazakhstan. Applies scientific knowledge based on evaluation of results for the diagnosis and treatment of diseases.	BD	UC	4	LO1 LO2
36.	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		LO2 LO3 LO4
37.	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	BD	EC	4	LO1 LO2 LO4

		<p>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.</p>				LO9
38.	<i>ducational practice: "Basic dental skills"</i>	<p>Formation of skills in dental examination of the patient and training in individual oral hygiene. Identification of surface formations on teeth. Algorithms for the controlled brushing of teeth. Algorithms for conducting oral hygiene lessons in children's institutions. Fundamentals of communication when communicating with patients. Providing patient-centered care.</p>	BD	UC	1	LO3 LO4 LO5 LO7 LO8
39.	Hygiene and Epidemiology	<p>Integrated discipline: Promotes the formation of skills in the learning process about the principles and features of hygienic rationing of various environmental factors. Carries out its activities within the framework of the legislation of the Republic of Kazakhstan in the field of healthcare. Conducts preventive and health-improving activities in the pediatric service to evaluate biorisks. Adheres to the norms of sanitary and hygienic regime and occupational safety.</p>	BD	UC	5	LO1 LO2 LO7 LO11
40.	Artificial intelligence and digitalization in healthcare	<p>Formation of knowledge and skills of orientation in the digital healthcare infrastructure; working with medical information systems, using digital tools to manage processes in a medical organization (accounting, analysis, reporting), analyzing and interpreting data obtained using digital solutions and artificial intelligence to support management decisions, evaluating the effectiveness of the introduction of digital technologies in various segments healthcare; ensuring digital literacy of staff and promoting a culture of using technology in healthcare.</p>	BD	EC	4	LO8 LO10
41.	Clinical epidemiology	<p>Formation of competencies for conducting clinical epidemiological studies using the principles of evidence-based medicine aimed at creating conditions for protecting the health of citizens; 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; to organize and conduct scientific research, including the choice of goals and formulation of tasks, planning, selection of adequate methods, collection, processing, analysis of data using digital technologies and artificial intelligence and their public presentation.</p>	BD	EC		LO1 LO10
42.	General surgery	<p>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</p>	BD	UC	3	LO 2 LO 3 LO 4

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		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.				
The cycle of profile disciplines: 183						
The university component: 183						
43.	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.	PD	UC	4	LO2 LO 3 LO 4 LO 7
44.	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; skills of formulating a research question, hypothesizing and choosing a research methodology in medicine; literature review, collection and analysis of scientific articles, design selection, obtaining and analyzing information, drawing conclusions, transfer and use of research knowledge, design of scientific papers. The acquired knowledge will allow the pediatrician to detect and implement innovative methods and means of treatment, improving the results of treatment and increasing the chances of recovery and more accurate diagnosis and prediction of childhood diseases.	PD	UC	3	LO 1 LO 10
45.	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.	PD	UC	4	LO 1 LO 3 LO 5 LO 6

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46.	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.	PD	UC	5	LO 2 LO 3 LO 4 LO 5 LO 6 LO 9
47.	Dermatovenerology	Formation of the basic foundations of modern dermatovenerology 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	PD	UC	3	LO 2 LO 3 LO 4 LO 7 LO 9
48.	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.	PD	UC	5	LO 2 LO 3 LO 4 LO 5 LO 6 LO 7 LO 8
49.	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.	PD	UC	6	LO 2 LO 3 LO 4 LO 5 LO 6 LO 7 LO 8
50.	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	PD	UC	5	LO 1 LO 2

		<p>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.</p>					LO 3
51.	Infectious diseases	<p>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</p>	PD	UC	4		LO 2 LO 3 LO 7 LO 11
52.	Infection control in dentistry	<p>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.</p>	PD	UC	3		LO 1 LO 4 LO 7 LO 11
53.	Cariesology and non-carious lesions of hard tissues of the tooth	<p>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.</p>	PD	UC	4		LO 2 LO 3 LO 4
54.	Clinical Orthopedic Dentistry	<p>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.</p>	PD	UC	5		LO 3 LO 4 LO 5 LO 6 LO 7 LO 8
55.	Clinical Periodontology	<p>Formation of knowledge and skills on the main biological aspects of periodontal and periimplant tissues, including the anatomy of periodontal tissues, the structure and</p>	PD	UC	5		LO 2 LO 4

		<p>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. The use of modern materials, medicines, equipment, technologies and methods of treatment used in periodontology.</p>					LO 5 LO 6
56.	Clinical pathomorphology and forensic medicine	<p>Formation of skills in the lifetime and postmortem pathomorphological diagnosis of common diseases and emergencies: pathoanatomic autopsy, protocol, epicrisis, formulation of diagnosis, comparison of diagnoses, rules for sampling material for biopsy examination, pathohistological conclusion. Procedural and organizational bases of forensic medical examination within the framework of legislation. Features of the pathoanatomical examination of fetal and child corpses that died in the perinatal period and infancy. Expertise in examining the corpses of children with various signs of violent and non-violent death. Filling out a medical death certificate, coding the causes of death.</p>	PD	UC	3		LO 2 LO 8 LO 10
57.	Clinical endodontics	<p>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.</p>	PD	UC	6		LO 2 LO 3 LO 4 LO 5 LO 6
58.	Neurology	<p>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.</p>	PD	UC	3		LO 2 LO 3 LO 4 LO 8

59.	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.	PD	UC	4	LO 2 LO 3 LO 4 LO 5 LO 6 LO 8
60.	Public health and the foundations of evidence-based medicine	Formation of knowledge on the policy of public health protection in the Republic of Kazakhstan, the activities of healthcare structures, types of medical care, regulatory and legal aspects, ethics and deontology. The principles of evidence-based medicine, a patient-centered approach, the basics of prevention, sanitary and hygienic standards, and sanitary and educational work to promote public health are being mastered.	PD	UC	5	LO 1 LO 3 LO 10 LO 11
61.	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 development. Providing documentation of the processes of providing medical services.	PD	UC	5	LO 3 LO 4 LO 5 LO 6 LO 7 LO 8
62.	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.	PD	UC	6	LO 2 LO 3 LO 4 LO 8
63.	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.	PD	UC	5	LO 2 LO 4

64.	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.	PD	UC	3	LO 2 LO 3 LO 4
65.	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.	PD	UC	5	LO 1 LO 3 LO 4 LO 5 LO 7 LO 8
66.	Project activity and biostatistics	Formation of knowledge about methods and tools of project management in medicine, skills of planning, organization and project management; systematic review of literature and synthesis of scientific data; skills to communicate and collaborate within project teams; analyze and predict risks and effectiveness of projects in healthcare, critically analyze scientific research in medicine; practical skills in using descriptive statistics and hypothesis testing theory in biomedical research to analyze diagnosis and treatment, as well as processing statistical data using advanced technologies to identify patterns and predict risks.	PD	UC	5	LO 8 LO 10 LO 11
67.	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.	PD	UC	5	LO 2 LO 3 LO 4 LO 8
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.	PD	UC	5	LO 2 LO 3 LO 4 LO 5 LO 6 LO 9
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	PD	UC	5	LO 2 LO 3 LO 4 LO 5

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		teeth. Communication skills in communicating with the patient. Improvement of knowledge and skills, continuous professional development.				LO 6 LO 9
70.	Mental disorders	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.	PD	UC	4	LO 2 LO 3 LO 4 LO 8
71.	Emergency medical care	Activities within the framework of the legislation of the Republic of Kazakhstan in the field of healthcare, providing quality medical care. Principles of emergency medical care. Regulatory legal acts for the provision of emergency and emergency medical care. Urgent conditions in the practice of infectious, psychiatric, surgical, urological, pediatric, endocrinological pathologies. Methods of clinical examination of the patient and diagnosis of emergency conditions. Continuous improvement of activities.	PD	UC	6	LO 2 LO 3 LO 6
72.	Pediatric 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.	PD	UC	5	LO 2 LO 3 LO 4 LO 5 LO 6 LO 7 LO 8
73.	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	PD	UC	7	LO 4 LO 5 LO 6 LO 7

		<p>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</p>				
74.	Topographic anatomy of the head and neck	<p>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.</p>	PD	UC	4	LO 1 LO 2 LO 9
75.	Pharmacology	<p>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 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.</p>	PD	UC	5	LO 1 LO 2 LO 4
76.	Phthisiology	<p>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.</p>	PD	UC	3	LO 2 LO 3 LO 4 LO 7
77.	Surgical dentistry	<p>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.</p>	PD	UC	6	LO 2 LO 3 LO 4 LO 5 LO 8
78.	Oral surgery	<p>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</p>	PD	UC	5	LO 2 LO 3 LO 4 LO 5

		complications. Communication skills in communicating with the patient. Providing documentation of the processes of providing medical services.				LO 6 LO 7 LO 8
79.	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.	PD	UC	3	LO 4 LO 5 LO 6 LO 8
80.	Legal aspects of 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.	PD	UC	3	LO 1 LO 8 LO 11
81.	Industrial practice "As an assistant to a dentist-therapist"	Preparation and control of the serviceability of dental equipment, Compliance with safety regulations. Instrumental examination of teeth and pathological gingival pockets determination of the degree of tooth mobility examination of soft and hard tissues of the maxillofacial region. Pre-medical care for wounds and thermal injuries of the maxillofacial region. The technique of anesthesia. Preventive work with patients. Maintaining medical records.	PD	UC	3	LO3 LO4 LO5 LO7 LO8
82.	Industrial practice: "As an assistant to a dentist-surgeon"	Organization of surgical dentistry. Improvement of professional competencies, acquisition of practical skills necessary for the organization of the medical process of interpreting the results of laboratory and instrumental studies and making a clinical diagnosis. Mastering the techniques and techniques of the most important manipulations, skills of providing medical care in emergency situations. Effective communication with patients, their families and medical professionals. Ensuring documentation of medical services provision processes.	PD	UC	4	LO2 LO3 LO4 LO5 LO6 LO7 LO8
83.	Industrial practice "As an assistant to a dentist-orthopedist"	Improvement of professional competencies, acquisition of practical skills necessary for the organization of the medical process, interpretation of laboratory and instrumental research results and clinical diagnosis. Instrumental examination of teeth and dentition, determination of the degree of tooth mobility. Determining the CPITN index. Selection of	PD	UC	4	LO3 LO4 LO5 LO6

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	impression materials and impression spoons for taking impressions from the upper and lower jaws. Determination of chewing efficiency according to Agapov. Communication skills in dealing with the patient.				LO7 LO8
84.	Experimental research work			13	
85.	Writing and defending a master's project and preparing and passing a comprehensive exam			12	
	Total:			360	