

**MINISTRY OF HEALTH OF UKRAINE**  
**KHARKIV NATIONAL MEDICAL UNIVERSITY**

**EDUCATIONAL AND PROFESSIONAL PROGRAMME**

**«Dentistry»**

**of the second (Master's) level of higher education**

**in speciality No. 221 “Dentistry”**

**in the field of knowledge No. 22 “Health Care”**

**Educational qualification: Master of Dentistry**

**Professional qualification: Doctor in Dentistry**

APPROVED

ACADEMIC COUNCIL

Protocol No. 3 dated May 20, 2020

Rector \_\_\_\_\_/V.A. Kapustnyk/

(Order No. 122 issued by KhNMU on May 25,  
2020)

## **Introduction**

Approved by the Academic Council of Kharkiv National Medical University;  
Protocol No 3 dated May 20, 2020.

### **List of Regulatory Documents**

1. Law of Ukraine “On Higher Education” No. 1556-VII dated July 1, 2014.
2. Law of Ukraine “On Education” No. 2145-VIII dated September 5, 2017.
3. Resolution of the Cabinet of Ministers of Ukraine No. 266 “On Approval of the List of Fields of Knowledge and Specialities for Training Applicants for Higher Education” dated April 29, 2015.
4. Resolution of the Cabinet of Ministers of Ukraine No. 334 “On Approval of the Procedure of the Unified State Qualifying Examination for Applicants for the Educational Degree of Master in Specialities of the Field of Knowledge “Health Care”” dated March 28, 2018.
5. Resolution of the Cabinet of Ministers of Ukraine No. 1341 “On Approval of the National Qualifications Framework” dated November 23, 2011.
6. National Classification of Ukraine: “Occupational Classification” (DK 003:2010) // Sotsinform Publishers. - K.: 2010.
7. Order of the Ministry of Economic Development and Trade of Ukraine No. 1361 “On Approval of the Amendment to the National Classification of Ukraine (DK 003:2010)” (Amendment No. 2) dated November 18, 2014.
8. Order of the Ministry of Education and Science of Ukraine No. 879 “On Approval of the Standard of Higher Education in Speciality No. 221 “Dentistry” for the Second (Master’s) Level of Higher Education” dated June 24, 2019.

**Developed** by the Project Team of Kharkiv National Medical University consisting of:

1. Yanishen I.V. – Head of the Educational Programme, Leader of the Project Team, Doctor of Medical Science, Professor, Head of the Department of Prosthetic Dentistry.
2. Grigorov S.M. – Doctor of Medical Science, Professor, Head of the Department of Oral and Maxillofacial Surgery;
3. Nazarian R.S. – Doctor of Medical Science, Professor, Head of the Department of Paediatric Dentistry, Paediatric Maxillofacial Surgery and Implantology;
4. Ruzin G.P. – Doctor of Medical Science, Professor, Professor of the Department of Oral and Maxillofacial Surgery;
5. Riabokon E.M. – Doctor of Medical Science, Professor, Head of the Department of Restorative Dentistry.

Profile of the Educational Programme in Speciality No. 221 “Dentistry”

<b>1. General information</b>	
Full name of the higher school and structural unit	Kharkiv National Medical University
Higher education degree and qualification name in the original language	Другий (магістерський) рівень вищої освіти, Стоматологія, за результатами складання ЄДКІ присвоюється кваліфікація Магістр стоматології. Лікар-стоматолог
Official name of the educational programme	Dentistry
Type of diploma and scope of the educational programme	Master’s diploma, single, 300 ECTS credits ЄКТС, the term of training is 5 years
Availability of accreditation	-
Cycle/level	Second (Master’s) level / eighth qualification level of the National Qualification Framework
Prerequisites	Complete general secondary education
Language(s) of training	Ukrainian, English, Russian
Effective term of the Educational Programme	From 2020 till next revision
Internet address of the permanent place of description of the educational programme	meduniver@knu.kharkov.ua
<b>2. Purpose of the Educational Programme</b>	
Provision of academic training in fundamental and clinical biomedical sciences and preparation of graduates for their professional activity as doctor in dentistry occupying their respective primary job position by means of acquisition of general and special competences, whose area of application is at least described by definite lists of syndromes, signs and symptoms of diseases, medical emergencies, physiological states and diseases, which require specific tactics in managing patients, laboratory and instrumental methods of examination, medical manipulations and involvement of labour, legal and military expert examinations.	
<b>3. Characteristic of the Educational Programme</b>	
Subject category (field of knowledge, speciality, specialization (if available))	Field – No. 22 “Health Care” Speciality – No. 221 “Dentistry”
Orientation of the Educational Programme	Educational and Professional Programme of Master’s training has both academic and applied orientation
Main focal point of the Educational Programme and specialization	Special education in field No. 22 “Health Care” of Speciality No. 221 “Dentistry”; knowledge of aspects of public health, diagnostics, treatment and prevention of dental diseases, required for carrying out professional activity Key words: dentistry, doctor
Features of the Programme	Possible international mobility, including special practice; possible realization in the English language. This Educational Programme is coordinated with programmes in other countries; the experimental character of the educational programme is provided by the Law of Ukraine “On Higher Education” in the context of academic autonomy
<b>4. Eligibility of the graduates for employment and further studies</b>	
Eligibility for employment	The specialist is prepared to work in compliance with the Classification of Economic Activities DK 009:2010: Section Q. Health Care and Rendering of Social Service Division 86. Health Care

	<p>Group 86.2. Medicine and Dental Practice Class 86.23. Dental Practice</p> <p>After training as intern and after specialized training the specialist is qualified as Doctor in Dentistry, who is able to do the professional work specified in DK 003:2010 and occupy the respective doctor position 2222.2. Doctor in Dentistry</p> <p>After their internship (specialized) training and awarding the qualification of Doctor in Dentistry the specialists can undergo specialization and do their respective professional work of dentist in the definite field specified in the currently effective National Classification of Ukraine: "Occupational Classification" and occupy the respective doctor position.</p>		
Subsequent study	<p>Having completed their training under the educational and professional programme "Dentistry" the specialists can do the professional work of internship doctor (profession code – 3229), junior doctor (profession code - 3221); resident, and must enter programmes of postgraduate education (internship, specialized training), where they are trained under educational programmes of training doctors in dentistry.</p> <p>Having completed their internship (specialized) training in the speciality "Dentistry" the specialists have the right to:</p> <ul style="list-style-type: none"> <li>- undergo specialization and do the respective professional work of dentist in the definite field specified in the currently effective National Classification of Ukraine: "Occupational Classification", occupy the respective doctor position;</li> <li>- acquire another profession, which makes it possible to occupy the respective doctor position, and do the respective professional work.</li> </ul> <p>Continuation of education on the third) educational and scientific) level of higher education.</p>		
<b>5. Teaching and assessment</b>			
Teaching and training	Student-centered training; self-education; problem-oriented training with acquisition of competences, sufficient for solving problems in the professional field, training by means of clinical-laboratory practice, etc.		
Assessment	Grade (by the national scale)	Minimum score	Maximum score
	National graded scale		
	Excellent	180	20
	Good	150	179
	Satisfactory	120	149
	Unsatisfactory	0	119
	National non-graded scale		
	Credit	120	200
	No credit	0	119
	Passed	60.5 %	100 %
	Failed	0 %	60.4 %
	ECTS scale		
	A	180	200
	B	160	179
	C	150	159
	D	130	149
E	120	129	
Fx	70	119	
F	0	69	
<p>The grades "Excellent", "Good" and "Satisfactory" are given on the basis of examinations and graded tests, by results of term and graduation theses (projects), by results of practical works. The grade "Credit" is given by</p>			

	results of tests. The result “Passed” is given on the basis of passing the integrated test examination “Krok” and examination in the English language for special purpose.
<b>6. Programme competences</b>	
Integral competence	Ability to cope with difficult tasks and problems in the field of health care in speciality “Dentistry” in the professional activity or during the process of training, the above providing researches and/or innovations and being characterized by indefinite conditions and demands.
General competences (GC)	<ol style="list-style-type: none"> <li>1. Capacity for abstract thinking, analysis and synthesis.</li> <li>2. Knowledge and understanding of the subject category and understanding of the professional activity.</li> <li>3. Capacity for using knowledge in practical activity.</li> <li>4. Capacity for communicating in the state language both in the oral and written forms.</li> <li>5. Capacity for communicating in the English language.</li> <li>6. Skills of using informative and communicative technologies.</li> <li>7. Capacity for searching, processing and analysing information from different sources.</li> <li>8. Capacity for adapting and acting in a new situation.</li> <li>9. Ability to reveal, define and solve problems.</li> <li>10. Capacity for being critical and self-critical.</li> <li>11. Capacity for working in a team.</li> <li>12. Commitment to environmental conservation.</li> <li>13. Capacity for acting in the socially responsible and conscious way.</li> <li>14. Capacity for realizing one’s rights and duties as a member of the society, recognizing values of the civil (free democratic) society and necessity of its sustainable development, the supremacy of the law, human and civil rights and freedoms in Ukraine.</li> <li>15. Capacity for preserving and augmenting moral, cultural and scientific values and achievements of the society on the basis of understanding of the history and laws of development of the subject field, its place in the general system of knowledge about the nature and society and in the development of the society, engineering and technologies, using different kinds and forms of motor activity for active rest and leading a healthy lifestyle.</li> </ol>
Special (professional) competences (SC)	<ol style="list-style-type: none"> <li>1. Capacity for collecting medical information about the patient and analyzing clinical data.</li> <li>2. Capacity for interpreting results of laboratory and instrumental examinations.</li> <li>3. Capacity for diagnosing: making an initial, clinical, final and secondary diagnosis and detecting medical emergencies.</li> <li>4. Capacity for planning and carrying out measures for preventing diseases of organs and tissues in the oral cavity and maxillofacial region.</li> <li>5. Capacity for designing the process of giving the first medical aid: defining approaches, plan, kinds and principles of treatment of organs and tissues in the oral cavity and maxillofacial region.</li> <li>6. Capacity for determining the rational mode of work and rest and the diet for patients in treatment of diseases of organs and tissues in the oral cavity and maxillofacial region.</li> <li>7. Capacity for choosing tactics for management of patients with diseases of organs and tissues in the oral cavity and maxillofacial region with concurrent somatic diseases.</li> <li>8. Capacity for carrying out medical and dental manipulations.</li> <li>9. Capacity for proving treatment of major diseases of organs and tissues in the oral cavity and maxillofacial region.</li> <li>10. Capacity for organizing and carrying out medical and evacuation measures.</li> </ol>

	<p>11. Capacity for choosing the tactics and methods of emergency medical aid and its provision.</p> <p>12. Capacity for organizing and conducting a screening examination in dentistry.</p> <p>13. Capacity for assessing environmental effects on the state of human health (in individuals, families and populations).</p> <p>14. Capacity for keeping regulatory medical documents.</p> <p>15. Processing of state, social and medical information.</p> <p>16. Capacity for organizing and carrying out rehabilitative measures and care of patients with diseases of organs in their oral cavity and maxillofacial region.</p> <p>17. Capacity for legal support of one's own professional activity.</p> <p>18. Capacity for providing premedical care under protocols of tactic medicine.</p>
<b>7. Programme results of training</b>	
	<p>1. To isolate and identify leading clinical symptoms, signs and syndromes (by List 1); to make a probable nosological or initial syndromic clinical diagnosis of a dental disease according to standard methods on the basis of preliminary data of the patient's anamnesis, those of his/her examination and knowledge of the human being, human organs and systems (by List 2).</p> <p>2. To collect information about the patient's general state, to assess the psychomotor and physical development of the patient, the state of organs in the patient's maxillofacial region, to assess information concerning the diagnosis on the basis of results of laboratory and instrumental methods of examination (by List 5).</p> <p>3. To prescribe and analyse additional (compulsory and by choice; laboratory, radiological, functional and/or instrumental) methods of examination (by List 5) for patients with diseases of organs and tissues in their oral cavity and maxillofacial region for making a differential diagnosis of these diseases (by List 2).</p> <p>4. To define the final clinical diagnosis observing proper ethical and legal regulations by means of making a sound judgement and a logical analysis of available subjective and objective data of clinical and additional examinations and differential diagnosis under the control of the leading doctor in conditions of a medical institution (by List 2.1).</p> <p>5. To diagnose urgent states in any situations (at home, outdoors, at medical institution), in conditions of an emergency, martial law, lack of information and limited time (by List 4).</p> <p>6. To plan and implement measures of prophylaxis of dental diseases in population in order to prevent spreading of dental diseases.</p> <p>7. To analyse the epidemiological state and carry out measures for mass and individual, general and local pharmacological and nonpharmacological prophylaxis of dental diseases.</p> <p>8. To determine the approach, plan, kind and principle of treatment of a dental disease (by List 2) by making a sound judgement in compliance with current algorithms and standard schemes.</p> <p>9. To determine the character of the mode of work and rest and the necessary diet in treatment of dental diseases (by List 2) on the basis of an initial or final clinical diagnosis by making a sound judgement in compliance with current algorithms and standard schemes.</p> <p>10. To determine the tactics of managing a dental patient with somatic pathology (by List 3) by making a sound judgement in compliance with current algorithms and standard schemes..</p> <p>11. To provide treatment of major dental diseases in compliance with current algorithms and standard schemes under the control of the leading doctor in conditions of a medical institution (by List 2.1).</p> <p>12. To organize taking of medical and evacuation measures for population,</p>

	<p>military personnel, in conditions of an emergency, including martial law, during full-fledged stages of medical evacuation with consideration of the current system of medical and evacuation support.</p> <p>13. To determine the tactics for giving emergency medical aid with use of recommended algorithms in any conditions on the basis of the diagnosis of a medical emergency in conditions of limited time (by List 4).</p> <p>14. To analyse and assess state, social and medical information using standard processes and computer information technologies.</p> <p>15. To assess environmental effects on the state of human health in conditions of a medical institution according to standard procedures.</p> <p>16. To form aims and determine structure of one's activity on the basis of the result of analysis of certain social and personal needs.</p> <p>17. To lead a healthy lifestyle, to use techniques of self-regulation and self-control.</p> <p>18. To recognize and be guided in one's activity by civil rights, freedoms and duties, to increase one's educational and cultural level.</p> <p>19. To comply with requirements of ethics, bioethics and deontology in one's professional activity.</p> <p>20. To organize the required level of the individual safety (of one's own and people under care) in case of appearance of typical dangerous situations in the individual sphere of activity.</p> <p>21. To carry out medical manipulations on the basis of the initial and/or final clinical diagnosis (by Lists 2, 2.1) for different segments of the population and in different conditions (by List 6).</p> <p>22. To carry out dental manipulations on the basis of the initial and/or final clinical diagnosis (by Lists 2, 2.1) for different segments of the population and in different conditions (by List 7).</p> <p>23. To carry out manipulations for giving medical aid with use of standard schemes in any conditions on the basis of diagnosis of a medical emergency (by List 4) in conditions of limited time (by Lists 6,7).</p>
<b>8. Provision of resources for realization of the Programme</b>	
Human resourcing	The Programme is realized with involvement of the academic staff having scientific degrees of the Doctor of Medical Science, Candidate of Medical Science, academic ranks in professional subjects with the confirmed level of the scientific and professional activity.
Material and technical support	Provision with training premises, computer workplaces and multimedia equipment meet requirements. All required social and domestic infrastructure is available, the number of places in hostels meets requirements. The University has the academic and research complex "University Clinic", the Research Institute of Occupational Hygiene and Occupational Diseases, the University Stomatological Centre, the Centre of Preclinical and Clinical Researches, the Centre of Gender Education, 4 fundamental research laboratories, the Anatomical Museum, the Vivarium, the Testing Centre, study rooms for simulation training (phantoms), the Central Research Laboratory of the University, the Scientific Training Institute for International Students, the Scientific Training Institute of Education Quality, 6 education-research-production units. KhNMU has 32 local computer networks and 55 Wi-Fi access points. Using of Internet is unlimited.
Information and methodological support	KhNMU has its official site <a href="http://www.knmu.kharkov.ua">http://www.knmu.kharkov.ua</a> ; its Scientific Library has the complete set of academic books in all course units (in the state, Russian and English languages). The web site of the Scientific Library <a href="http://libr.knmu.edu.ua">http://libr.knmu.edu.ua</a> provides a convenient remote access to various information resources; its electronic catalogue contains over 210,000 bibliographic descriptions including more than 2,200 references to full texts (textbooks, learning and teaching literature, materials of congresses and conferences, periodicals, etc.). The University has created and continuously enriches problem-oriented databases in the basic areas of its researches –

	<p>“The Health of the Healthy”, “Minimally Invasive Interventions”, “Cardiovascular Diseases”, “Viral Bacterial Infections” – as well as in such challenging subjects as “Evidence-Based Medicine”, “Military Medicine” and “Ailments of the “Great Names of History”” (the full texts). The Repository of KhNMU is the first one among higher medical schools of Ukraine with a free access to learning, teaching and scientific materials; it numbers over 12,000 full text documents, including 1,300 learning, teaching and lecture materials. The inclusion of learning, teaching and lecture materials, rather than only scientific ones, into the Repository enables the students to study independently in the 24/7 mode. Databases, first of all of the biomedical specialization, include Medline, Cochrane Library, Academic Search Premier, Health Source, PubMed, DOAJ, Open J-Gate, BioOne, etc. By the programme of the project “Electronic Information for Libraries” (eIFL Direct) we are provided with free trial accesses to scientometrical databases Web of Science from Thomson Reuters publishing house, resources of East View Information Services, JSTOR Consortium of different foreign publishing houses, such as Royal Society Publishing, Nature, Academic Press, Springer International Publishing AG, Institute of Physics Publishing (IOP Publishing) as well as to electronic versions of journals <i>The New England Journal of Medicine</i>, <i>Pediatric Neurology Briefs</i>, to journals and books of Elsevier, resources of Ovid Company - "Primal Interactive Human: the 3D Real-time Body" (multimedia interactive 3D human anatomy), Reactions Pharmacovigilance Insight, APA PsycINFO™, PsycTESTS, etc.; there is a web indicator of medical journals having interactive electronic links with electronic archives. All reading halls and those of electronic information work in the Wi-Fi area and provide a free access to Internet.</p>
<b>9. Academic mobility</b>	
National credit mobility	The agreements concluded for academic mobility provide exchange education of students within the framework of the Credit Transfer System with a possible transfer of credits (the scope of one credit is 30 hours)
International credit mobility	The agreements concluded for international academic mobility provide exchange education of students and interchangeability of test credits
Training of international applicants for higher education	Within the limits of the licensed scope of the speciality

## 2. List of components of the Educational and Professional/Scientific Programme and their logic sequence

### 2.1. List of the Educational Programme (EP) components

Code	Components of the Educational Programme (course units, term and graduation theses (works), practical trainings, qualifying paper)	Number of credits	Form of final. control
1	2	3	4
<b>Compulsory components of EP (CC)</b>			
CC 1.	Ukrainian Language (including for Specific Purpose)	3	test
CC 2.	Foreign Language (including for Specific Purpose)	4	graded test
CC 3.	Latin Language and Medical Terminology	3	graded test
CC 4.	Medical Biology	6	іспит
CC 5.	History and Culture of Ukraine	3	test
CC 6.	Medical and Bioorganic Chemistry	5	graded test
CC 7.	Human Anatomy	11	examination
CC 8.	Histology, Cytology and Embryology	7	examination
CC 9.	Philosophy	3	test



CC 10.	Life Safety; Fundamentals of Biological Ethics and Biological Safety	3	test
CC 11.	Physical Education and Health		test
CC 12.	Biological Chemistry	6	examination
CC 13.	Physiology	6	examination
CC 14.	Microbiology, Virology and Immunology	5	examination
CC 15.	Clinical Anatomy and Operative Surgery	3	graded test
CC 16.	Hygiene and Ecology	3	graded test
CC 17.	Medical Informatics	3	test
CC 18.	Pathological Morphology	6	examination
CC 19.	Pathological Physiology	6	examination
CC 20.	Pharmacology	6	examination
CC 21.	Introduction into Restorative Dentistry	3	graded test
CC 22.	Introduction into Prosthetic Dentistry	4	graded test
CC 23.	Introduction into Paediatric Restorative Dentistry	3	graded test
CC 24.	Practical Training (as Nurse in Dentistry)	3	graded test
CC 25.	Prevention of Dental diseases	4	graded test
CC 26.	Forensic Medicine (Dentistry). Medical Law.	3	graded test
CC 27.	Professional Safety	3	test
CC 28.	Restorative Dentistry	20	examination
CC 29.	Oral and Maxillofacial Surgery	17.5	examination
CC 30.	Prosthetic Dentistry	17.5	examination
CC 31.	Orthodontics	9	examination
CC 32.	Internal Medicine (including Internal Medicine – 4.25, Infectious Diseases – 1 and Epidemiology – 0.75)	6	examination
CC 33.	Practical Training as Doctor	4	graded test
CC 34.	General Medical Training (Otorhinolaryngology – 0.75; Neurology – 0.75; Neurodentistry – 0.75; Dermatology, Venereology – 0.75; Psychiatry and Medical Psychology – 1)	4	graded test
CC 35.	Paediatric Restorative Dentistry	9	examination
CC 36.	Paediatric Oral and Maxillofacial Surgery	6	examination
CC 37.	Practical Training in Dentistry	11	graded test
CC 38.	Emergency and Urgent Therapeutic and Surgical Aid (Emergency Medicine 1.5 and Surgery – 1.5)	3	graded test
CC 39.	Social Medicine, Public Health and Fundamentals of Evidence-Based Medicine	3	graded test
<b>Total scope of compulsory components:</b>		<b>225</b>	
<b>Elective components of EP (EC)</b>			
EC 1	Medical and Biological Physics	3	test
EC 2.	English Language	3	test
EC 3	History of Medicine	3	test
EC 4	Fundamentals of Psychology. Fundamentals of Education Science	3	test
EC 5	Ethnography	3	test
EC 6	Local Medical History	3	test
EC 7	European Standard of Computer Literacy	3	test
EC 8	Psychology of Communication	3	test
EC 9	Philosophy of Family and Career	3	test
EC 10	Ethics	3	test
EC 11	Etiquette in Society. Etiquette in Medicine	3	test
EC 12	Molecular Biology in Medicine and Dentistry	3	test
EC 13	Fundamentals of Molecular, Regenerative and Nanodentistry	3	test
EC 14	Sociology and Medical Sociology	3	test
EC 15	Law	3	test
EC 16	Religious Studies	3	test

EC 17	Fundamentals of Economic Theories	3	test
EC 18	Foreign Language (for Foreigners)	3	test
EC 19	Military Medical Training	3	test
EC 20	Introduction into Internal Medicine	3	test
EC 21	Practical Training (Care of Patients)	3	test
EC 22	Physical Education and Health	3	test
EC 23	Logic, Formal Logic	3	test
EC 24	Modern Problems of Biophysics	3	test
EC 25	Ukrainian Language as Foreign	3	test
EC 26	Political Science	3	test
EC 27	Basic Technologies in Manufacturing Dentures	3	test
EC 28	Aesthetic Medicine	3	test
EC 29	Academic Honesty	3	test
EC 30	History of Health Care in Kharkiv	3	test
EC 31	Ethical Problems in Medicine	3	test
EC 32	Fundamentals of Social Psychology	3	test
EC 33	Science of Nutrition	3	test
EC 34	Side Effects of Drugs	3	test
EC 35	Foreign Language (for Specific Purpose)	3	test
EC 36	Medicine and Artistic Culture	3	test
EC 37	Suicidology	3	test
EC 38	Fundamentals of Christian Ethics and Morality	3	test
EC 39	Clinical Pathological Physiology	3	test
EC 40	Clinical Biochemistry	3	test
EC 41	Clinical Pathology	3	test
EC 42	Radiology	3	test
EC 43	Surgery (2 credits), including Oncology (1) and Neurosurgery (1)	4	test
EC 44	Clinical Laboratory Diagnostics	3	test
EC 45	Fundamentals of Prevention of Alcoholism and Narcomania	3	test
EC 46	Fundamentals of Psychoanalysis	3	test
EC 47	Medical Kharkiv in Persons	3	test
EC 48	Medical Subculture	3	test
EC 49	Urgent Problems of Physiotherapy, Health Resort Study and Rehabilitation	3	test
EC 50	Methodology of Evidence-Based Medicine	3	test
EC 51	Biological Statistics and Clinical Epidemiology	3	test
EC 52	Epidemiology and Prevention of Infections Associated with Provision of Medical Aid in Medical Facilities of Dental Type. Fundamentals of Infection Control.	3	test
EC 53	Peculiarities of Disinfection and Sterilization in Medical Facilities of Dental Type.	3	test
EC 54	Urgent Problems of Epidemiology and Prevention of Infections with the Aerosol Mechanism of Pathogen Transmission in the Work of the Dental Practitioner.	3	test
EC 55	General Medical Training No. 1 (Phthisiology - 1, Clinical Pharmacology – 1, Physical Rehabilitation, Sports Medicine – 1, Endocrinology – 1)	4	test
EC 56	General Medical Training No. 2 (Paediatrics – 1, Obstetrics – 1, Otorhinolaryngology – 1, Ophthalmology – 1)	4	test
EC 57	Fundamentals of Sexology and Sexopathology	3	test
EC 58	Urgent Problems of HIV Infection	3	test
EC 59	Modern Diagnostics of Diseases of TMJ and Salivary Glands	3	test
EC 60	Plastic and Reconstructive Surgery	3	test
EC 61	Management and Marketing in Dentistry	3	test
EC 62	Urgent Problems of Neurosurgery and Neurodentistry	3	test

EC 63	Urgent Problems of Clinical Immunology and Allergology	3	test
EC 64	Acupuncture in Dentistry	3	test
EC 65	Up-to-date Technologies of Whole-Piece Dentures	4	test
EC 66	Fundamentals of Aesthetic Dental Restoration	4	test
EC 67	Surgical Preparation of the Oral Cavity for Prosthesis	4	test
EC 68	Endodontic Technique in Paediatric Dentistry	4	test
EC 69	Up-to-date Technologies of Use of Fixed Orthodontic Appliances	4	test
EC 70	Immunoprophylaxis. Diagnosis and Treatment of Drug Allergy	3	test
EC 71	Social Medicine and Public Health	3	test
EC 72	Economics of Public Health	3	test
EC 73	Medicine and Politics	3	test
EC 74	Drug Allergy in the Practice of the Dentist	3	test
EC75	Extreme Medicine	3	test
EC 76	Preparation for taking the Unified State Qualifying Examination in speciality No. 221 "Dentistry" (Introduction into Restorative Dentistry – 1; Restorative Dentistry – 1; Oral and Maxillofacial Surgery – 2; Prosthetic Dentistry – 2; Paediatric Restorative Dentistry – 1; Orthodontics – 1)	8	test
<b>Total scope of elective components</b>		<b>75</b>	
<b>TOTAL SCOPE OF EDUCATIONAL PROGRAMME</b>		<b>300</b>	

## 2.2 Structural-logic scheme of the Educational Programme

Sequence of the applicant's learning activity:

<b>Year of training</b>	<b>Kinds of learning activity</b>		
<b>1<sup>st</sup></b> (60 ECTS credits)	Compulsory course units (48 ECTS credits) Elective courses (12 ECTS credits)		
<b>2<sup>nd</sup></b> (60 ECTS credits)	Compulsory course units (48 ECTS credits) Elective courses (12 ECTS credits)		
<b>3<sup>rd</sup></b> (60 ECTS credits)	Compulsory course units (48 ECTS credits) Elective courses (12 ECTS credits)		
<b>4<sup>th</sup></b> (60 ECTS credits)	Compulsory course units (35 ECTS credits) Elective courses (25 ECTS credits)		
<b>5<sup>th</sup></b> (60 ECTS credits)	Compulsory course units (46 ECTS credits) Elective courses (14 ECTS credits)		
Code	Components of the Educational Programme (course units, term and graduation theses (works), practical trainings, qualifying paper)	Number of credits	Distribution by years
1	2	3	4
<b>Compulsory components</b>			
1.	Ukrainian Language (including for Specific Purpose)	3	1 * 2 3 4 5
2.	Foreign Language (including for Specific Purpose)	4	* 2 3 4 5
3.	Latin Language and Medical Terminology	3	* 2 3 4 5
4.	Medical Biology	6	* 2 3 4 5
5.	History and Culture of Ukraine	3	* 2 3 4 5
6.	Medical and Bioorganic Chemistry	5	* 2 3 4 5
7.	Human Anatomy	11	* 2 3 4 5
8.	Histology, Cytology and Embryology	7	* 2 3 4 5
9.	Philosophy	3	* 2 3 4 5
10.	Life Safety; Fundamentals of Biological Ethics and Biological Safety	3	* 2 3 4 5
11.	Physical Education and Health		* * 2 3 4 5
12.	Biological Chemistry	6	* 2 3 4 5

13.	Physiology	6		*			
14.	Microbiology, Virology and Immunology	5		*			
15.	Clinical Anatomy and Operative Surgery	3		*			
16.	Hygiene and Ecology	3		*			
17.	Medical Informatics	3		*			
18.	Pathological Morphology	6		*	*		
19.	Pathological Physiology	6		*	*		
20.	Pharmacology	6		*	*		
21.	Introduction into Restorative Dentistry	3		*			
22.	Introduction into Prosthetic Dentistry	4		*			
23.	Introduction into Paediatric Restorative Dentistry	3		*			
24.	Practical Training (as Nurse in Dentistry)	3		*			
25.	Prevention of Dental Diseases	4			*		
26.	Forensic Medicine (Dentistry). Medical Law.	3			*		
27.	Professional Safety	3			*		
28.	Restorative Dentistry	20			*	*	*
29.	Oral and Maxillofacial Surgery	17,5			*	*	*
30.	Prosthetic Dentistry	17,5			*	*	*
31.	Orthodontics	9			*	*	*
32.	Internal Medicine (including Internal Medicine 4.25, Infectious Diseases -1 and Epidemiology – 0.75)	6			*	*	
33.	Practical Training as Doctor	4			*		
34.	General Medical Training (Otopharyngology – 0.75; Neurology – 0.75; Neurodentistry– 0.75; Dermatology, Venereology – 0.75; Psychiatry and Medical Psychology – 1)	4				*	
35.	Paediatric Restorative Dentistry	9				*	*
36.	Paediatric Oral and Maxillofacial Surgery	6				*	*
37.	Practical Training in Dentistry	11				*	*
38.	Emergency and Urgent Therapeutic and Surgical Aid (Emergency Medicine 1.5 and Surgery – 1.5)	3					*
39.	Social Medicine, Public Health and Fundamentals of Evidence-Based Medicine	3					*
<b>Elective components</b>							
1.	Medical and Biological Physics	3		*			
2.	English Language	3		*			
3.	History of Medicine	3		*			
4.	Fundamentals of Psychology. Fundamentals of Education Science	3		*			
5.	Ethnography	3		*	*		
6.	Local Medical History	3		*			
7.	European Standard of Computer Literacy	3		*	*		
8.	Psychology of Communication	3		*			
9.	Philosophy of Family and Career	3		*			
10.	Ethics	3		*			
11.	Etiquette in Society. Etiquette in Medicine	3		*			
12.	Molecular Biology in Medicine and Dentistry	3				*	
13.	Fundamentals of Molecular, Regenerative and Nanodentistry	3					*
14.	Sociology and Medical Sociology	3		*			
15.	Law	3		*			
16.	Religious Studies	3		*			
17.	Fundamentals of Economic Theories	3		*			
18.	Foreign Language (for Foreigners)	3		*	*	*	
19.	Military Medical Training	3			*		
20.	Introduction into Internal Medicine	3			*		
21.	Practical Training (Care of Patients)	3			*		

22.	Physical Education and Health	3		*	*	*	*
23.	Logic, Formal Logic	3		*			
24.	Modern Problems of Biophysics	3		*			
25.	Ukrainian Language as Foreign	3		*	*		
26.	Political Science	3		*			
27.	Basic Technologies in Manufacturing Dentures	3		*			
28.	Aesthetic Medicine	3		*			
29.	Academic Honesty	3		*			
30.	History of Health Care in Kharkiv	3		*			
31.	Ethical Problems in Medicine	3			*		
32.	Fundamentals of Social Psychology	3			*		
33.	Science of Nutrition	3			*		
34.	Side Effects of Drugs	3			*		
35.	Foreign Language (for Specific Purpose)	3			*	*	
36.	Medicine and Artistic Culture	3			*		
37.	Suicidology	3			*		
38.	Fundamentals of Christian Ethics and Morality	3			*	*	*
39.	Clinical Pathological Physiology	3			*		
40.	Clinical Biochemistry	3			*		
41.	Clinical Pathology	3			*		
42.	Radiology	3			*		
43.	Surgery (2 credits), including Oncology (1) and Neurosurgery (1)	4				*	
44.	Clinical Laboratory Diagnostics	3			*		
45.	Fundamentals of Prevention of Alcoholism and Narcomania	3			*		
46.	Fundamentals of Psychoanalysis	3			*		
47.	Medical Kharkiv in Persons	3			*		
48.	Medical Subculture	3				*	
49.	Urgent Problems of Physiotherapy, Health Resort Study and Rehabilitation	3				*	
50.	Methodology of Evidence-Based Medicine	3				*	
51.	Biological Statistics and Clinical Epidemiology	3				*	
52.	Epidemiology and Prevention of Infections Caused by Provision of Medical Aid in Medical Facilities of Dental Type. Fundamentals of Infection Control.	3				*	
53.	Peculiarities of Disinfection and Sterilization in Medical Facilities of Dental Type.	3				*	
54.	Urgent Problems of Epidemiology and Prevention of Infections with the Aerosol Mechanism of Pathogen Transmission in the Work of the Dental Practitioner.	3				*	
55.	General Medical Training No. 1 (Phthsiology - 1, Clinical Pharmacology – 1, Physical Rehabilitation, Sports Medicine – 1, Endocrinology – 1)	4				*	
56.	General Medical Training No. 2 (Paediatrics – 1, Obstetrics – 1, Otorhinolaryngology – 1, Ophthalmology – 1)	4				*	
57.	Fundamentals of Sexology and Sexopathology	3				*	
58.	Urgent Problems of HIV Infection	3				*	
59.	Modern Diagnosis of Diseases of TMJ and Salivary Glands	3				*	
60.	Plastic and Reconstructive Surgery	3				*	*
61.	Management and Marketing in Dentistry	3					*
62.	Urgent Problems of Neurosurgery and Neurodentistry	3					*
63.	Urgent Problems of Clinical Immunology and Allergology	3					*
64.	Acupuncture in Dentistry	3					*
65.	Up-to-date Technologies of Whole-Piece Dentures	4					*
66.	Fundamentals of Aesthetic Dental Restoration	4					*

67.	Surgical Preparation of the Oral Cavity for Prosthesis	4					*
68.	Endodontic Technique in Paediatric Dentistry	4					*
69.	Up-to-date Technologies of Use of Fixed Orthodontic Appliances	4					*
70.	Immunoprophylaxis. Diagnosis and Treatment of Drug Allergy	3					*
71.	Social Medicine and Public Health	3					*
72.	Economics of Public Health	3					*
73.	Medicine and Politics	3					*
74.	Drug Allergy in the Practice of the Dentist	3					*
75.	Extreme Medicine	3					*
76.	Preparation for taking the Unified State Qualifying Examination in speciality No. 221 “Dentistry” (Introduction into Restorative Dentistry – 1; Restorative Dentistry – 1; Oral and Maxillofacial Surgery – 2; Prosthetic Dentistry – 2; Paediatric Restorative Dentistry – 1; Orthodontics – 1)	8					*
	Attestation					*	*
<b>Total scope of the Educational Programme for 5 years, including compulsory components</b>		<b>300</b>					
elective components		<b>225</b>					
		<b>75</b>					

### 3. The form of attestation of applicants for higher education

The attestation under the Educational and Professional Programme “Dentistry” is carried out in the form of the Unified State Qualifying Examination.

The Unified State Qualifying Examination is conducted according to the Procedure of the Unified State Qualifying Examination for Applicants for the Educational Degree of Master in Specialities of the Field of Knowledge “Health Care” and consists of the following components:

- integrated test examinations “Krok 1. Dentistry” and “Krok 2. Dentistry”, which assess compliance of the quality of training of specialists with standards of higher education and is conducted by the Testing Centre under the Ministry of Health of Ukraine;
- an examination in the English language for specific purpose, which assesses the student’s competence in mastering the professional English language and is conducted by the Testing Centre under the Ministry of Health of Ukraine;
- an objective structured practical (clinical) examination, which assesses readiness of the graduate to carry out professional activity in compliance with requirements of the standard of higher education by demonstration of practical (clinical) components of professional competence on a real object or model, and is conducted by an examination commission of the higher school.

#### 4. Matrix of compliance of competences, specified by the Standard, with NQF descriptors.

<p style="text-align: center;"><b>Classification of competences by NQF</b></p>	<p><b>Knowledge</b></p> <p><b>Kn1.</b> Specialized conceptual knowledge, acquired in the process of training and/or professional activity on the level of the latest achievements, which form the basis for ingenuity and innovation activity, particularly in the context of research activity <b>Kn2.</b> Critical re-evaluation of problems in training and/or professional activity and on the border of subject fields</p>	<p><b>Ability</b></p> <p><b>Ab1.</b> Coping with difficult tasks and problems, it requiring renewal and integration of knowledge, often in conditions of incomplete/insufficient information and conflicting demands <b>Ab2.</b> Carrying out of research and/or innovative activity</p>	<p><b>Communication</b></p> <p><b>C1.</b> Clear and unequivocal reporting of one's own conclusions as well as the knowledge and explanations, which ground the above conclusions, to specialists and non-specialists, particularly to the people who are trained <b>C2.</b> Use of foreign languages in the professional activity</p>	<p><b>Autonomy and responsibility</b></p> <p><b>AR1.</b> Taking of decisions in difficult and unpredicted conditions, it requiring use of new approaches and prognostication <b>AR2.</b> Responsibility for development of professional knowledge and practical trainings, assessment of the strategic development of the team <b>AB3.</b> Capacity for further training, which is mostly autonomous and independent</p>
<b>General competences</b>				
1. Capacity for abstract thinking, analysis and synthesis.	<b>Kn1, Kn2</b>	<b>Ab1</b>		<b>AB1</b>
2. Knowledge and understanding of the subject field and understanding of the professional activity..	<b>Kn1</b>	<b>Ab1</b>	<b>C1</b>	<b>AR2</b>
3. Capacity for using knowledge in practical activity.	<b>Kn1</b>	<b>Ab1</b>	<b>C1</b>	<b>AR1</b>
4. Capacity for communicating in the state language both in the oral and written forms.			<b>C1, C2</b>	
5. Capacity for communicating in the English language.			<b>C1</b>	
6. Skills of using informative and communicative technologies.	<b>Kn1</b>		<b>C1, C2</b>	<b>AR2</b>
7. Capacity for searching, processing and analysing information from different sources.	<b>Kn1</b>		<b>C1</b>	<b>AR2</b>
8. Capacity for adapting and acting in a new situation.		<b>Ab1</b>		<b>AR1</b>
9. Ability to reveal, define and solve problems.	<b>Kn1</b>	<b>Ab1</b>	<b>C1</b>	<b>AR1</b>
10. Capacity for being critical and self-critical.	<b>Kn2</b>			<b>AR1</b>
11. Capacity for working in a team.	<b>Kn2</b>		<b>C1, C2</b>	<b>AR2</b>
12. Commitment to environmental conservation.	<b>Kn1</b>	<b>Ab1</b>		<b>AR1</b>
13. Capacity for acting in the socially responsible and conscious way.	<b>Kn1</b>			<b>AR1</b>

14. Capacity for realizing one's rights and duties as a member of the society, recognizing values of the civil (free democratic) society and necessity of its sustainable development, the supremacy of the law, human and civil rights and freedoms in Ukraine.	<b>Kn1</b>	<b>Ab1</b>	<b>C1</b>	<b>AR3</b>
15. Capacity for preserving and augmenting moral, cultural and scientific values and achievements of the society on the basis of understanding of the history and laws of development of the subject field, its place in the general system of knowledge about the nature and society and in the development of the society, engineering and technologies, using different kinds and forms of motor activity for active rest and leading a healthy lifestyle.	<b>Kn1</b>	<b>Ab2</b>		<b>AR3</b>
<b>Special (professional) competences</b>				
1. Capacity for collecting medical information about the patient and analyzing clinical data.	<b>Kn2</b>	<b>Ab1</b>	<b>C1, C2</b>	
2. Capacity for interpreting results of laboratory and instrumental examinations.	<b>Kn1</b>	<b>Ab1</b>		<b>AR1</b>
3. Capacity for diagnosing: making an initial, clinical, final and secondary diagnosis and detecting medical emergencies.	<b>Kn1</b>	<b>Ab1</b>		<b>AR1</b>
4. Capacity for planning and carrying out measures for preventing diseases of organs and tissues in the oral cavity and maxillofacial region.	<b>Kn2</b>	<b>Ab1</b>	<b>C1</b>	<b>AR1</b>
5. Capacity for designing the process of giving the first medical aid: defining approaches, plan, kinds and principles of treatment of organs and tissues in the oral cavity and maxillofacial region.	<b>Kn1</b>	<b>Ab1</b>		<b>AR1</b>
6. Capacity for determining the rational mode of work and rest and the diet for patients in treatment of diseases of organs and tissues in the oral cavity and maxillofacial region.	<b>Kn1, Kn2</b>	<b>Ab1</b>	<b>C1</b>	
7. Capacity for choosing tactics for management of patients with diseases of organs and tissues in the oral cavity and maxillofacial region with concurrent somatic diseases.		<b>Ab1</b>		<b>AR1, AR2</b>



8. Capacity for carrying out medical and dental manipulations.	<b>Kn1</b>	<b>Ab1</b>		<b>AR1</b>
9. Capacity for proving treatment of major diseases of organs and tissues in the oral cavity and maxillofacial region.	<b>Kn1</b>	<b>Ab1</b>	<b>C1</b>	<b>AR1</b> <b>AR2</b>
10. Capacity for organizing and carrying out medical and evacuation measures.	<b>Kn1, Kn2</b>	<b>Ab1</b>	<b>C1</b>	<b>AR1</b> <b>AR2</b>
11. Capacity for choosing tactics and methods of emergency medical aid and its provision.	<b>Kn1, Kn2</b>	<b>Ab1</b>		<b>AR1</b> <b>AR2</b>
12. Capacity for organizing and conducting a screening examination in dentistry.	<b>Kn1</b>	<b>Ab2</b>	<b>C1</b>	<b>AR2</b>
13. Capacity for assessing environmental effects on the state of human health (in individuals, families and populations).	<b>Kn2</b>	<b>Ab2</b>		
14. Capacity for keeping regulatory medical documents.			<b>C1</b>	<b>AR1</b>
15. Processing of state, social and medical information.	<b>Kn2</b>		<b>C1</b> <b>C2</b>	<b>AR1</b> <b>AR2</b>
16. Capacity for organizing and carrying out rehabilitative measures and care of patients with diseases of organs in their oral cavity and maxillofacial region.	<b>Kn1</b>	<b>Ab1</b>	<b>C1</b>	
17. Capacity for legal support of one's own professional activity.	<b>Kn1</b>		<b>C1</b>	<b>AR2</b>
18. Capacity for providing premedical care under protocols of tactic medicine.	<b>Kn2</b>	<b>Ab1</b>	<b>C1</b>	<b>AR1</b> <b>AR2</b>

## 6. Matrix of compliance of the results of training, specified by the Standard, with competences

Programme e results of training	Competences																																		
	Integral competence	General competences										Special (professional) competences																							
		GC1	GC2	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	SC1	SC2	SC3	SC4	SC5	SC6	SC7	SC8	SC9	SC10	SC11	SC12	SC13	SC14	SC15	SC16	SC17	SC18	
PR1	+	+	+	+	+	+	+	+	+	+	+					+	+	+		+	+	+						+		+		+			
PR2	+	+	+	+	+	+	+	+	+	+	+					+	+											+	+	+	+		+		
PR3	+	+	+	+	+	+	+	+	+	+	+					+	+											+		+			+		
PR4	+	+	+	+	+	+					+					+	+	+		+	+	+						+				+	+		
PR5	+	+	+	+	+	+					+					+	+	+												+		+		+	
PR6	+	+	+	+	+	+	+	+	+	+	+			+	+	+		+		+	+						+	+	+		+	+		+	
PR7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+						+	+	+			+		+	
PR8	+	+	+	+				+	+	+						+	+			+	+	+				+	+	+							
PR9	+	+	+	+	+			+	+	+	+			+							+	+			+							+	+		
PR10	+	+	+	+				+	+	+	+					+					+	+			+							+	+		
PR11	+	+	+	+	+						+	+				+								+	+	+					+	+			
PR12	+	+	+	+	+	+	+				+		+	+	+	+									+	+		+				+	+		+
PR13	+	+	+	+	+	+	+	+	+	+	+					+										+	+					+	+		+
PR14	+	+	+	+	+		+	+	+	+	+		+	+	+	+												+		+	+		+		+
PR15	+	+	+	+			+	+	+	+	+		+	+	+	+		+									+	+	+	+		+	+		+
PR16	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
PR17	+	+	+	+			+				+		+	+	+	+		+										+	+			+	+		+
PR18	+	+	+	+	+		+	+	+	+	+		+	+	+	+		+			+					+		+	+	+	+	+	+	+	+
PR19	+	+	+	+	+		+	+	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
PR20	+	+	+	+						+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+
PR21	+	+	+	+						+	+	+													+	+	+	+							+
PR22	+	+	+	+						+	+	+													+	+	+								+
PR23	+	+	+	+						+	+	+													+	+	+	+							+

## 7. Matrix of compliance of the Programme competences with the Educational Programme components

	GC1	GC2	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	SC1	SC2	SC3	SC4	SC5	SC6	SC7	SC8	SC9	SC10	SC11	SC12	SC13	SC14	SC15	SC16	SC17	SC18			
CC1	+	+	+	+			+			+					+		+																+			
CC2	+				+	+	+					+				+			+															+		
CC3	+	+	+	+		+	+	+		+	+		+																	+	+					
CC4	+	+	+		+		+	+								+	+										+			+		+				
CC5	+	+	+	+	+	+	+	+	+	+	+		+	+	+														+		+					
CC6	+	+	+	+	+	+						+					+																			
CC7	+	+	+	+		+	+		+	+	+						+	+											+							
CC8	+	+	+			+	+		+																											
CC9	+	+	+	+		+	+	+	+	+			+		+																					
CC10	+	+	+			+	+	+	+	+		+	+									+							+		+	+				
CC11	+	+	+	+	+	+	+	+	+	+																										
CC12	+	+	+	+			+	+	+	+	+	+	+		+		+	+	+		+								+							
CC13	+	+	+	+	+	+		+			+		+			+	+	+	+	+									+		+					
CC14	+	+	+									+					+		+																	
CC15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+				+			+		+	+	+	+	+	+	+		
CC16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+		+	+						+		+						
CC17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
CC18	+	+	+	+	+	+	+	+	+	+			+		+	+	+	+	+			+							+		+					
CC19	+	+	+				+	+	+	+	+	+	+	+	+	+	+										+		+		+					
CC20	+	+	+	+	+	+	+														+		+		+	+	+									
CC21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+		+			+		+	+	+	+	+	+	+		
CC22	+		+			+	+	+			+				+				+		+		+						+					+	+	
CC23	+	+	+				+	+	+	+	+	+	+				+						+						+	+	+	+	+	+	+	
CC24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+		+			+		+	+	+	+	+	+	+	+	
CC25	+	+	+	+		+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC26	+	+	+				+		+								+	+											+	+						
CC27	+	+	+				+		+			+		+															+	+	+	+	+	+	+	
CC28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC30	+		+			+	+	+			+				+	+		+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC31	+	+	+	+		+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC32	+	+	+			+	+	+	+		+																+		+	+	+	+	+	+	+	
CC33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC34	+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+				+							+	+					+	+
CC35	+	+	+	+		+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC36	+	+	+	+		+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CC39	+	+	+	+		+	+	+	+		+	+	+	+	+	+			+		+							+	+	+	+	+	+	+	+	
EC1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
EC2	+				+	+	+					+				+			+																+	
EC3	+	+	+	+			+		+			+		+	+															+						
EC4	+	+	+			+		+	+	+	+					+																+				
EC5	+	+	+	+	+	+	+	+	+	+	+		+	+	+														+		+					
EC6	+	+	+	+	+	+	+	+	+	+	+		+	+	+														+		+					
EC7													+	+	+						+	+		+								+				
EC8	+	+	+			+		+	+	+	+					+						+	+												+	
EC9		+	+	+		+	+	+	+	+			+																							
EC10	+	+	+	+		+	+	+	+	+			+		+																					
EC11		+	+	+		+	+	+	+	+	+		+		+																					
EC12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+													+		+				
EC13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	







EC60	+	+	+	+	+	+	+	+	+	+					+		+	+		+	+			
EC61						+									+		+	+	+					
EC62	+	+			+							+	+	+	+	+	+	+	+	+	+			+
EC63	+		+	+	+		+	+		+	+		+							+		+		+
EC64	+	+			+								+					+	+	+	+			
EC65	+	+	+					+			+													+
EC66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
EC67	+	+	+	+	+	+	+	+	+	+					+		+	+		+	+			
EC68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
EC69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
EC70	+		+	+	+		+	+		+	+		+							+		+		+
EC71			+			+	+		+				+	+	+		+	+	+					
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EC76	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+

The Educational and Professional Programme “Dentistry” of the second (Master’s) level of higher education in speciality No. 221 “Dentistry” in the field of knowledge No. 22 “Health Care” qualifying “Master of Dentistry. Doctor in Dentistry” was developed in Kharkiv National Medical University by the project team.

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## List 1 (Syndromes, Signs and Symptoms)

1. edentulism
2. anaemia
3. malocclusion
4. facial asymmetry
5. atrophy
6. TMJ pain-dysfunction syndrome
7. pain in the heart region
8. toothache
9. abdominal pain
10. pain in soft tissues of the maxillofacial region
11. pain in facial bones
12. loss of consciousness
13. loss of the periodontal attachment level
14. hypermobility of the head of the mandibular condyle
15. haemorrhagic syndrome
16. hyperesthesia
17. hypersalivation
18. headache
19. rhinolalia (aperta, clausa)
20. mandibular deviation, destruction of the bone tissue
21. defects in the crown portion of tooth
22. deformity of facial bones
23. occlusal deformity
24. tooth discolouration
25. facial disproportion
26. jaundice
27. apnoea and asphyxia
28. inflammatory infiltrate of tissues in the maxillofacial region
29. dizziness
30. discolouration of the skin integuments and oral mucosa
31. deformation of teeth
32. alteration in the occlusal vertical dimension

## List 2 (Dental Diseases)

### 1. Restorative Dentistry:

#### **A) Noncarious lesions of dental hard tissues:**

1. hyperesthesia
2. hypoplasia, hyperplasia of enamel
3. fluorosis
4. erosion of dental hard tissues
5. wedge-shaped defect
6. dental attrition
7. necrosis of dental hard tissues
8. discolourations

## Appendix .

33. elements of lesion on the skin and oral mucosa
34. convergence (divergence) of teeth
35. xerostomia
36. cold sores
37. lymphadenopathy
38. macroglossia
39. macrocheilia
40. maeration of the mouth angles
41. meningeal syndrome
42. oedema syndrome
43. calculus
44. fistula tract
45. limited mouth opening
46. pareses, palsies of nerves with maxillofacial localization
47. oral pyrosis
48. pathological dental attrition
49. disordered movements of the mandible
50. taste perversion
51. impaired sensitivity of tissues in the maxillofacial region
52. disrupted functions of sucking and deglutition, pathologic tooth mobility
53. tumours and tumour-like neoplasms in the maxillofacial region
54. gingival recession
55. mobility of facial bone fragments
56. thinning of the cortical lamina of jaws
57. "emptying-filling"
58. partial and complete edentulism
59. fluctuation
60. chemosis
61. cyanosis (diffuse and local)
62. fissural defects of the face, first and second branchial arch syndromes
63. gingival, parodontal, bone pocket

9. traumatic injuries of teeth зубів

#### **B) Caries and its complications:**

10. caries
11. pulpitis
12. periodontitis

#### **C) Parodontal diseases:**

13. papillitis
14. gingivitis (localized, generalized)
15. parodontitis (localized, generalized)
16. parodontosis

17. idiopathic parodontal diseases

**D) Diseases of the oral mucosa (OM):**

18. traumatic injuries of OM

19. autoinfectious diseases of OM (acute aphthous stomatitis, herpetic, ulceronecrotic and candidal lesions of OM)

20. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhoea)

21. diseases of OM in dermatoses with an autoimmune component of pathogenesis (pemphigus, lichen ruber planus, lupus erythematosus)

22. changes of OM in allergic disorders

23. changes of OM in intoxications with salts of heavy metals

24. symptomatic viral diseases (AIDS, influenza, aphtha, infectious mononucleosis)

25. symptomatic manifestations of gastrointestinal diseases (ulcer disease, gastritis, enteritis, colitis, chronic hepatitis) on OM

26. symptomatic manifestations of cardiovascular diseases (circulatory deficiency, essential hypertension) on OM

27. symptomatic manifestations of endocrine diseases (acromegaly, Cushing's syndrome, diabetes mellitus, hyper- and hypothyroidism) on OM

28. symptomatic manifestations of blood diseases (anaemiae, thrombocytopenic purpura, leukemiae) on OM

29. symptomatic manifestations of hypo- and avitaminoses on OM

30. diseases and abnormalities of the tongue (desquamative glossitis, median rhomboid glossitis, fissured tongue, hairy tongue)

31. neurogenic diseases of the tongue (glossalgia, stomalgia, ganglionitis)

32. separate and symptomatic cheilitis (actinic, meteorological, contact allergic, glandular, exfoliative, exematous, atopic)

**E) Precancer of OM and vermilion border**

33. obligate precancers (Bowen's disease, verrucous premalignant lesion, site-restricted precancerous hyperkeratosis, Manganotti's cheilitis)

34. facultative precancers

**2 Paediatric Dentistry:**

**A) Dental pathology:**

35. hypoplasia of enamel (systemic and local)

36. endemic fluorosis

37. congenital defects of dental hard tissues in children

38. caries and its complications in deciduous and permanent teeth in children

39. traumatic injuries of teeth

**B) Parodontal pathology:**

40. gingivitis

41. idiopathic parodontal diseases

42. parodontitis

**C) Pathology of the oral mucosa (OM):**

43. allergic diseases of OM COPIP

44. abnormalities and diseases of the tongue

45. mycotic lesions of OM in children

46. changes of OM in systemic diseases

47. changes of OM in specific diseases

48. manifestations of acute viral and infectious diseases on OM (diphtheria, chickenpox, measles, infectious mononucleosis, scarlet fever)

49. viral diseases of OM (acute herpetic stomatitis, recurrent herpetic stomatitis, herpes zoster)

50. separate and symptomatic cheilitis, glossitis

**D) Inflammatory diseases of the maxillofacial region:**

51. periostitis

52. osteomyelitis of the jaws

53. diseases of the temporomandibular joint

54. diseases of the salivary glands

55. lymphadenitis

56. nonodontogenic inflammatory processes in soft tissues (furuncle, carbuncle, erisypelas)

57. specific inflammatory processes (tuberculosis, syphilis, actinomycosis)

58. phlegmons and abscesses

**E) Injuries in the maxillofacial region:**

59. injuries of soft tissues (wounds, burns), teeth, jaws, facial bones, TMJ

**F) Tumours and tumour-like neoplasms in the maxillofacial region:**

60. benign tumours and tumour-like neoplasms in soft tissues and facial bones

61. malignant tumours in soft tissues and facial bones

**G) Congenital facial defects:**

62. cleft lip, alveoloschisis, cleft hard and soft palates (isolated and transverse)

63. abnormal attachment of soft oral tissues (labial frenula, tongue)

64. congenital syndromes

**H) Diseases of TMJ, ankylosis**

**3 Oral and Maxillofacial Dentistry:**

**A) Inflammatory diseases in the maxillofacial region:**

- 65. deep and superficial phlegmons, abscesses
- 66. lymphadenitis
- 67. trigeminal neuralgia, facial neuritis, neuralgias
- 68. nonodontogenic inflammatory processes
- 69. odontogenic maxillary sinusitis
- 70. parodontitis, periodontitis, alveolitis, periostitis, osteomyelitis; pericoronitis
- 71. inflammatory diseases of salivary glands
- 72. specific inflammatory processes (tuberculosis, syphilis, actinomycosis)

**B) Injuries in the maxillofacial region:**

- 73. injuries of teeth and facial bones
- 74. injuries of soft tissues, tongue and OM
- 75. gunshot wounds and non-ballistic injuries of tissues with maxillofacial localization; craniomaxillofacial injuries
- 76. thermal, chemical, electrical and radial damages of tissues with maxillofacial localization; combined injury

**C) Diseases of the temporomandibular joint (TMJ):**

- 77. arthritides, arthroarthritides, arthroses
- 78. ankyloses
- 79. TMJ dysfunctions, mandibular dislocations and contractures

**E) Tumours and tumour-like neoplasms in OM, salivary glands, facial bones and soft tissues localized in the maxillofacial region and neck:**

- 80. benign tumours and tumour-like neoplasms
- 81. precancerous diseases and malignant tumours in OM, salivary glands, facial bones and soft tissues localized in the maxillofacial region and neck

**E) Congenital and acquired defects and deformities of tissues in the head and neck**

- 82. abnormal development of teeth, congenital deformities of the jaws, defects and deformities of facial bones, combined abnormalities and deformities of the cerebral and facial skeleton and dentofacial system
- 83. congenital defects and deformities in soft tissues in the head and neck
- 84. acquired defects and deformities of facial bones and soft tissues localized in the maxillofacial region and neck

85. age-specific changes in soft tissues of the face and neck, vertical and horizontal atrophy of alveolar processes of the jaw bones, edentulisms, gingival recession

86. cosmetic defects and deformities of organs and tissues in the head and neck

**F) Dysplastic diseases localized in the maxillofacial region**

- 87. dystrophic diseases of parodontal tissues
- 88. sialoses
- 89. dysplastic diseases of soft tissues of the head and neck

**G) Neurodental diseases**

- 90. neuritis, trigeminal neuralgiae

**4. Prosthetic Dentistry:**

- 91. partial edentulism
  - a) distally restricted denture defects
  - b) distally unrestricted denture defects
- 92. complete edentulism
- 93. excessive dental attrition
- 94. defects in the crown portion of tooth
- 95. complete destruction in the crown portion of tooth
- 96. dentofacial deformities
- 97. parafunctions of the masticatory muscles
- 98. traumatic occlusion
- 99. injuries and defects of the jaws, nose, ear, orbits; combined defects
- 100. diseases of TMJ
- 101. dysfunctions of TMJ

**5. Orthodontics**

**A) abnormalities of individual teeth:**

- 102. dimensions
- 103. form
- 104. number
- 105. retention

**B) abnormalities in the position of teeth:**

- 106. diastema and trema
- 107. dental crowding
- 108. torsion
- 109. buccolingual position of teeth, dystopia, transposition, supra- and infraposition

**C) sagittal malocclusions:**

- 110. progenia (mesial) (skeletal, dentoalveolar)
- 111. prognathia (distal) (skeletal, dentoalveolar)

**D) vertical malocclusions:**

- 112. open (skeletal, dentoalveolar)
- 113. deep (skeletal, dentoalveolar)

**E) transverse malocclusions:**

- 114. cross (uni - or bilateral, with or without mandibular displacement) (skeletal, dentoalveolar).

### List 2.1 (Major Dental Diseases)

1. noncarious dental injuries
2. caries of temporary and permanent teeth
3. diseases of the pulp of temporary and permanent teeth
4. periodontitis of temporary and permanent teeth
5. papillitis
6. gingivitis
7. parodontitis
8. parodontosis
9. traumatic injuries
10. autoinfectious diseases of OM (acute aphthous stomatitis, herpetic, ulceronecrotic and candidal lesions of OM)
11. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhoea)
12. manifestations of immunodeficiency states on OM (AIDS)
13. allergic disorders
14. alveolitis
15. pericoronitis
16. periostitis
17. lymphadenitis
18. traumatic injuries of soft facial tissues
19. acute and common mandibular fracture
20. simple maxillary and mandibular fractures
21. defects in the crown portion of teeth
22. partial and complete edentulism

### List 3. Physiological States and Somatic Diseases, Which Require Specific Tactics in Managing the Patient

#### A) Physiological states:

1. pregnancy

#### B) Diseases of the blood and haemopoietic organs:

2. anaemia
3. haemophilia
4. leukaemia
5. thrombocytopenic purpura

#### C) Cardiovascular diseases:

6. arterial hypertension
7. infective endocarditis
8. heart defects
9. heart failure
10. cardiac arrhythmia
11. presence of a cardiac pacemaker

#### D) Mental disorders:

12. acute psychosis, including delirium tremens
13. epilepsy

#### E) Diseases of the respiratory system and mediastinum:

14. asthma

#### F) Pathology of ENT organs:

15. tonsillitis
16. rhinitis

17. sinusitis

18. nasal septum deviation

#### G) Diseases of the endocrine system:

19. diabetes mellitus
20. diseases of the thyroid gland

#### H) Pathologies of the musculoskeletal system and connective tissue:

21. systemic vasculitides (haemorrhagic vasculitis)

22. rheumatoid arthritis

23. postural disorders

#### I) Infectious and parasitic diseases:

24. HIV infection /AIDS

25. viral hepatitis

26. diphtheria

27. tetanus

28. anthrax

29. tuberculosis with different localization

30. cholera

31. plague

32. gonorrhoea

33. syphilis

### List 4 (Medical Emergencies):

1. asphyxia (including in newborns)
2. hypertensive crisis
3. acute respiratory failure
4. acute heart failure
5. acute intoxication
6. "acute" abdomen
7. electrical damage
8. syncope
9. external haemorrhage
10. collapse
11. coma
12. laryngeal oedema
13. Quincke's oedema
14. burns, scalds and frostbites
15. paroxysms
16. drowning

17. physiological delivery
18. shock

19. bone injuries

#### **List 5 (Laboratory and Instrumental Methods of Examination)**

1. analysis of the punctuate of neoplasms in soft tissues and bones
2. histomorphological examination of the bioplate of lymph nodes, salivary glands, mucous membranes and soft tissues
3. analysis of glucose content in blood
4. study of control and diagnostic models of the jaws
5. study of functions of the odontofacial apparatus (breathing, swallowing, speaking, chewing TMJ)
6. clinical blood analysis
7. clinical urinalysis
8. biochemical blood analysis
9. immunologic examination in dental diseases
10. analysis of a coagulogram
11. interpretation of radiodiagnosis of the skull, dentofacial apparatus and salivary glands
12. cytologic examination of organs and tissues in the dentofacial apparatus
13. microbiological examination of the oral fluid and smears from OM and parodontium
14. functional diagnosis of the state of the oral cavity (luminescent, rheoparodontography, , stomatoscopy, capillaroscopy, vacuum test, etc.).

#### **List 6 (Medical Manipulations)**

1. carrying out of artificial respiration
2. carrying out of closed-chest cardiac massage
3. fixing of the tongue
4. performing of a temporary arrest of bleeding
5. performing of primary debridement of wounds
6. carrying out of gastric and intestinal lavage
7. performing of transport immobilization
8. giving injections of medicinal substances (intramuscular, subcutaneous, intravenous bolus and drip administration)
9. measuring of blood pressure
10. carrying out of the primary neonate care
11. determination of blood group and Rh status

#### **List 7 (Oral Manipulations)**

1. alveolotomy
2. amputation of the pulp of temporary and permanent teeth
3. anthropometric studies of jaw models
4. selective finishing of teeth, alignment of the occlusal surface, occlusogram, filling in of a parodontogram
5. manufacturing of temporary splints and splinting in fractures of teeth, alveolar processes and jaws
6. removal of dental tartars
7. determination of acid resistance of the dental enamel (enamel resistance test, testing of clinical assessment of enamel remineralization rate, SCT test)
8. determination and fixing of the centric jaw relation
9. revealing of Tsilinsky's sign
10. registration of constructive occlusion
11. determination of the occlusal gap
12. determination of the vertical gap
13. revealing of signs of the orthognathic occlusion and its varieties
14. revealing of signs of pathological kinds of occlusions
15. reduction of a mandibular dislocation
16. fissure sealing
17. diagnostic use of stains

18. diathermocoagulation
19. extirpation of the pulp in temporary and permanent teeth
20. electroodontodiagnosis
21. use of topical agents in treatment of diseases of the parodontium and OM
22. local anaesthesia in treatment of dental diseases with different methods (application, infiltration, conduction)
23. removal of artificial crowns
24. tooth-preserving surgical interventions in periodontitis
25. control of bleeding after tooth extraction
26. deep fluoridation of hard tissues of temporary teeth
27. correction of overdentures
28. correction and activation of removable orthodontic appliances
29. alveolar socket debridement
30. debridement of parodontal pockets
31. drug treatment of damaged areas in the oral mucosa and parodontium
32. use and removal of temporary fillings and air-tight packings in treatment of caries, pulpitis and periodontitis
33. application of a rubber dam
34. application of orofacial (repositioning, forming, replacing and fixing) devices
35. obturation of root canals of temporary and permanent teeth with different materials
36. receiving of anatomical and functional impressions with different impression materials
37. receiving of jaw models
38. receiving of impressions from endosteal implants
39. parallelometry in planning a bugel prosthesis construction
40. checking of a prosthesis construction in partial or complete edentulism
41. periostotomy
42. filling of carious cavities of temporary and permanent teeth with different restorative materials
43. covering of teeth with medical and prophylactic varnishes, gels and desensitizers
44. preparing teeth for metal swaged, plastic single-piece, combined single-piece and metal-free crowns
45. preparing teeth for inlays and veneers
46. preparing and cleaning of root canals in temporary and permanent teeth
47. preparing a tooth root for a post construct
48. preparing carious cavities of temporary and permanent teeth considering the kind of restorative material
49. fitting of different kinds of artificial crowns
50. carrying out of intradental electrophoresis
51. carrying out of tooth ligation
52. carrying out of professional oral hygiene
53. carrying out of professional hygiene in the area of implants
54. carrying out of physiological separation
55. carrying out of periodontal probing
56. direct and indirect pulp capping
57. registration of the maxilla position with help of a facebow
58. opening of a parodontal abscess
59. cutting and resection of an operculum in pericoronitis
60. making an algorithm of individual oral hygiene
61. temporary immobilization in jaw fractures
62. typical and atypical extraction of temporary and permanent teeth
63. cystotomy
64. fixing of crowns and prosthetic bridges
65. fixing of crowns and orthodontic bands
66. fixing of the centric jaw relation in defect groups II, III and IV
67. debridement of wounds in soft facial tissues within one anatomic area
- 68 finishing and polishing of restorations made of all kinds of restoration materials