# MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE ODESA NATIONAL MEDICAL UNIVERSITY

## APPROVED

by the Academic Council of Odesa National Medical University ≪27≫ June, 2024 Record № 10



# EDUCATIONAL AND PROFESSIONAL PROGRAM «DENTISTRY» FOR TRAINING OF SPECIALISTS AT THE SECOND (MASTER'S) LEVEL OF HIGHER EDUCATION

speciality 221	«Dentistry»
branch of knowledge 22	«Health Care»
educational qualification	«Master of Dentistry»
professional qualification	«Dentist»

#### LETTER OF APPROVAL FOR EDUCATIONAL AND PROFESSIONAL PROGRAM

#### "DENTISTRY"

#### **1. SUBMITTED:**

By the Subject-cycle Methodological Commission for Dentistry Disciplines Record No.17 dated «14»June,2024

Head

#### 2. APPROVED:

Volodymyr KRYKLIAS

By the Central Qualification Methodical Council of Odesa National Medical University

Record No.7 dated «26» June, 2024

Head

Flell

Nina MATSEHORA

### PREFACE

Developed by the project group consisting of:

Guarantor of the educational and professional program: A. H. Huliuk – Guarantor of the Program, Project team leader, Head of the Dental Surgery Department, Doctor of Medicine, professor.

### **Project group:**

- V.N. Horokhivskyi - Doctor of Medicine, Professor, Head of the Department of Orthodontics;

- V.Ya. Skyba. - Doctor of Medicine, Professor, Head of the Department of Therapeutic Dentistry;

- O. V. Dienha - Doctor of Medicine, Professor, Head of the Department of Pediatric Dentistry;

- I. P. Annenkova - doctor of pedagogy, associate professor, acting head of the educational department;

- V. V. Valda– Doctor of Medicine, Associate Professor, Dean of the Faculty of Dentistry;

- V. H. Kryklyas – Doctor of Medicine, Associate Professor, Associate Professor of the Department of Surgical Dentistry;

- I. O. Tarasenko assistant of the Department of Pediatric Dentistry;
- O. L. Kordonets assistant of the Department of Orthodontics;
- A.O. Rozumenko assistant of the Department of Surgical Dentistry;
- K. H. Ovannesian-laboratory assistant of the Department of Surgical Dentistry;
- I.Yu. Stefanchuk student of higher education majoring in "Dentistry".

# The professional expertise of the educational and professional program was carried out by:

1. Head of the Department of Surgical Dentistry and Maxillofacial Surgery of NMU named after O. O. Bohomolets, corresponding member of the National Academy of Sciences of Ukraine, President of the Ukrainian Association of Cranio-Maxillofacial Surgery, Doctor of Medicine, Professor V. O. Malanchuk;

2. Head of the Department of Surgical Dentistry and Maxillofacial Surgery with Plastic and Reconstructive Surgery of the Head and Neck of the Ukrainian Medical Stomatological Academy, Doctor of Medicine, Professor D. S. Avetikov;

 Head of the Department of Surgical Dentistry and Maxillofacial Surgery of Vinnytsia National Medical University, Doctor of Medicine, Professor S. M. Shuvalov;
 Head of the Department of Therapeutic Dentistry of the Ukrainian Medical Stomatological Academy, Doctor of Medicine, Professor Petrushanko T. A.;  Head of the Department of Pediatric Dentistry of the Ukrainian Medical Stomatological Academy, Doctor of Medicine, Professor P. I. Tkachenko;
 Professor of the Department of Orthodontics of Lviv National Medical University named after D. Halytskyi, Doctor of Medicine, Professor B. M. Mirchuk;
 Head of the department of maxillofacial surgery with otorhinolaryngological beds of the municipal non-commercial enterprise "City Hospital of Emergency and Urgent Nedical Aid" of Zaparizhia City Council, Doctor of Medicine. S. D. Varzhapetian;

8. Director of the municipal non-commercial enterprise "Dentistry Polyclinic No. 6 of Zaparizhia City Council " N. V. Sykach

# 1. PROFILE OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM IN SPECIALTY 221 "DENTISTRY"

Full name of the institution of	Odesa National Medical University		
higher education			
The degree of higher	The degree of education – Master		
education and the title of the	Educational qualification – Master of Dentistry		
qualification in the original	Professional qualification – Dentist		
language	Qualification in the diploma – Master of Dentistry. Dentist		
The official name of the	Dentistry		
educational and professional			
program Town of dialogue of the second s	Mastala da mar sinala 200 ECTS and ita		
Type of diploma and scope of the educational and	Master's degree, single, 360 ECTS credits		
the educational and professional program			
Availability of accreditation	Ministry of Education and Science of Ukraine		
Availability of accreditation	The date of the last accreditation was July 1, 2014.		
	National Agency for Quality Assurance of Higher Education		
	Certificate of accreditation of the educational program No. 1481		
	dated April 29, 2021		
Cycle/level	NQF (National Qualification Framework) of Ukraine – 7 <sup>th</sup> level		
	FQ-EHEA – second cycle		
	EQF-LLL – 7 <sup>th</sup> level		
Prerequisites	A person has the right to obtain a master's degree on the basis of a complete general secondary education based on the results of an external independent assessment. Admission based on the degree of "bachelor", "junior bachelor", "specialist junior bachelor" or the educational and qualification level of a junior specialist in the specialty 221 "Dentistry" or "Dental Technician" is carried out based on the results of external independent assessment and entrance exams at a higher education institution in subjects (disciplines) of which no external independent evaluation is conducted. Conditions for admission are determined by the Rules of Admission to ONMedU.		
Language(s)	Ukrainian, English		
The term of validity of the	Till 2028		
educational and professional			
program Internet address of the	https://onmedu.edu.ua/osvita/osvitni-programi/		
	https://onnedu.edu.ua/osvita/osvitai-programi/		
permanent placement of the			
description of the educational			
and professional program			

# **1.1. General Information**

# **1.2.** Purpose of the educational and professional program

Training of highly qualified specialists who are able to use acquired competences to solve complex tasks and problems in the field of dentistry and health care or in the process of learning characterized by uncertainty of conditions and requirements and to perform the professional activities of a dentist as well as to continue training with a high degree of autonomy.

Subject area (field of	Field of knowledge – 22 «Health care»	
knowledge, specialty)	Speciality – 221 «Dentistry»	
Description of the subject area	Object of activity: preservation of health, in particular dental health, prevention, diagnosis and treatment of human dental diseases. Learning goals: training a specialist capable of solving complex tasks and problems in the field of dentistry and health care or in the process of learning, characterized by the uncertainty of conditions and requirements and performing the professional activities of a dentist. Theoretical content of the subject area: knowledge of humanitarian, fundamental (natural and social) and clinical sciences on public health issues, prevention, diagnosis and treatment of human dental diseases at the individual, family and population level, necessary for the professional activities of a dentist. Methods, techniques and technologies: anamnestic, clinical, laboratory, X-ray and functional methods of diagnosis according to the protocols of providing medical care; technologies of diagnosis, treatment and prevention of dental diseases, management and organization of work in the field of health care. Tools and equipment: modern diagnostic and therapeutic means, objects and devices for carrying out professional activities	
Orientation of the	The educational and professional program is an applied program with	
educational and	a professional focus on theory and practical dentistry.	
professional program		
The main focus of the educational and professional program and specialization	Special higher education in the field of knowledge 22 "Health care", specialty 221 "Dentistry". Keywords: master's degree, dentistry, health care, complete higher medical education.	
Description of the subject	Full-time education.	
area	The program is aimed at students acquiring competencies that are necessary for specialists in the field of dentistry by combining theoretical and practical training with the use of innovative technologies, modern equipment (including simulation) on the basis of the university, clinical bases and dental clinics of Odesa. The educational process is based on student-centered, practice-oriented and competency-based approaches, in compliance with the principle of "lifelong learning" - continuous professional development. It is aimed at the formation of complex clinical thinking, practical and emotional intelligence in graduates for the effective implementation of professional competencies. Taught in Ukrainian and English.	
	ity for ampleyment and further advestion	

### **1.3.** Characteristics of the educational and professional program

### 1.4. Graduates' suitability for employment and further education

Suitability for employment	After completing the educational and professional master's program
	in the specialty "Dentistry", the specialist is able to perform

	professional work, in accordance with classification of types of
	economic activity DK 009:2010:
	Section Q. Health care and social assistance
	Chapter 86. Health care
	Group 86.2 Medicine and dentistry practice
	Class 86.23 Dentistry practice
	After completing educational and professional studies
	a specialist in the "Dentistry" specialty program
	is able to perform professional work as an:
	- intern doctor (PC code – 3229);
	- trainee doctor (PC code $-$ 3221);
	- resident doctor (PC code - XXX).
Further Education	A graduate of the program has the right to acquire additional qualifications and medical specializations in the adult education
	system by entering postgraduate education programs (internship,
	clinical residency). Pass the specialization and perform the relevant
	professional work of a dentist of a certain specialty, which is specified
	in the current National Classifier of Ukraine "Profession Classifier".
	He can also continue his education at the third (educational and
	scientific) level of higher education. Acquisition of additional
	qualifications in the post-graduate education system is also envisaged.
1.5. Teaching and ass	sessment
Teaching and training	The basis for the organization of the educational process is a
	competency-based and student-centered approach. It is based on the
	principles of andragogy and the principles of academic freedom with
	the possibility of forming the individual educational trajectory of the
	applicant. The educational process is carried out using contextual,
	problem-oriented learning, modern information and communication
	technologies.
	The main forms of organization of the educational process are:
	lectures, practical classes in small groups, independent work,
	consultations, curation of patients, practical placements, cycles of
	simulation training.
Assessment	Control measures include diagnostic, current and final (semester)
7 (55055)ment	-
	control.
	Forms of current control: classroom tests, test control, control of
	practical skills, case histories defense.
	Forms of final control: tests, differentiated tests, oral and written
	exams.
	Certification – USQE (Unified State Qualification Exam).
	Assessment principles: objectivity, planning, systematicity, unity of
	requirements, openness, transparency, economy, accessibility and
	comprehensibility of the assessment methodology, taking into account
	the individual capabilities of higher education seekers.
	Assessment and control of the learning results of higher education
	applicants is carried out in accordance with the Regulation "On the
	organization of the educational process at the Odesa National Medical
	University".

<b>1.6. Program competence</b> Integral competency of the			
master's degree ( level 7) according to the requirements of the NQF	problems in the field of health care in the specialty "Dentistry", in		
General competencies according to the requirements of the NQF			
Special (professional,	SC1. Ability to collect medical information about the patient and		
subject ) competencies	analyze clinical data. SC2. Ability to interpret the results of laboratory and instrumental research. SC3. Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.		
	SC4. Ability to plan and carry out measures for the prevention of diseases of the organs and tissues of the oral cavity and maxillofacial region. SC5. Ability to design the process of providing medical care: to determine the approaches, plan, types and principles of treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region. SC6. Ability to determine a rational regimen of work, rest, and diet in patients in the treatment of diseases of the organs and tissues of the oral		

	cavity and maxillofacial region. SC7. Ability to determine the management tactics of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with accompanying somatic diseases
	region with accompanying somatic diseases. SC8. Ability to perform medical and dental manipulations. SC9. Ability to treat the main diseases of the organs and tissues of the
	oral cavity and maxillofacial area.
	SC10. Ability to organize and carry out medical evacuation measures. SC11. Ability to determine tactics, methods and provision of emergency medical assistance.
	SC12. Ability to organize and conduct a screening examination in dentistry.
	SC13. Ability to assess the impact of the environment on the state of health of the population (individual, family, population).
	SC14. Ability to maintain regulatory medical documentation.
	SC15. Processing of state, social and medical information.
	SC16. Ability to organize and carry out rehabilitation measures and care for patients with diseases of the oral cavity and the maxilla-facial region
	SC17. The ability to legalдн support professional activities SC18. The ability to provide pre-medical care according to the
	protocols of tactical medicine.
<b>1.7. Program learning</b>	
PLO 1.	Identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using the previous data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2)
PLO 2.	Collect information about the patient's general condition, evaluate the patient's psychomotor and physical development, the condition of the maxillofacial organs, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 5).
PLO 3.	Assign and analyze additional (mandatory and optional) examination methods (laboratory, X-ray, functional and/or instrumental) according to list 5, of patients with diseases of organs and tissues of the oral cavity and maxillofacial region for differential diagnosis of diseases (according to list 2).
PLO 4.	Determine the final clinical diagnosis in compliance with the relevant ethical and legal norms, by making a reasoned decision and logical analysis of the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis under the control of the doctor-superviser in the conditions of a medical institution (according to list 2.1).
PLO 5.	Establish a diagnosis of emergency conditions under any circumstances (at home, in the street, in a medical institution), in conditions of emergency, martial law, lack of information and limited time (according to list 4)
	T this (according to hot 1)

PLO 7.	Analyze the epidemiological situation and carry out mass and individual, general and local drug and non-drug prevention measures
	for dental diseases.
PLO 8.	Determine the approach, plan, type and principle of treatment of dental
	disease (according to list 2) by making a reasoned decision according
	to existing algorithms and standard schemes.
PLO 9.	Determine the nature of work, rest and necessary diet in the treatment
110 ).	of dental diseases (according to list 2) on the basis of a preliminary or
	final clinical diagnosis by making a reasoned decision according to
	existing algorithms and standard schemes.
PLO 10.	Determine the tactics of managing a dental patient with somatic
FLO 10.	
	pathology (according to list 3) by making a reasoned decision
DI O 11	according to existing algorithms and standard schemes.
PLO 11.	Carry out the treatment of the main dental diseases according to the
	existing algorithms and standard schemes under the control of the
	doctor-superviser in the conditions of a medical institution (according
	to list 2.1).
PLO 12.	Organize medical and evacuation measures among the population,
	military personnel, in emergency situations, including martial law,
	during the deployed stages of medical evacuation, taking into account
	the existing system of medical evacuation support.
PLO 13.	Determine the tactics of providing emergency medical care, using the
	recommended algorithms, under any circumstances based on the
	diagnosis of an emergency condition in limited time (according to list
	4).
PLO 14.	Analyze and evaluate government, social and medical information
	using standard approaches and computer information technologies.
PLO 15.	Assess the impact of the environment on the state of health of the
120 15.	population in the conditions of a medical institution according to
	standard methods.
PLO 16.	Form goals and determine the structure of personal activity based on
110 10.	the result of the analysis of certain social and personal needs.
PLO 17.	Follow a healthy lifestyle, use self-regulation and self-control
PLO 17.	
DI O 10	techniques.
PLO 18.	Be aware of and be guided in one's activities by civil rights, freedoms
<b>PX</b> 0.10	and obligations, to raise the general educational cultural level.
PLO 19.	Comply with the requirements of ethics, bioethics and deontology in
<b>N</b> 0 00	the professional activities.
PLO 20.	Organize the necessary level of individual safety (own and of the
	persons they cares about) in case of typical dangerous situations in the
	individual field of activity
PLO 21.	Perform medical manipulations on the basis of a preliminary and/or
	final clinical diagnosis (according to lists 2, 2.1) for different segments
	of the population and in different conditions (according to list 6).
PLO 22.	Perform medical dental manipulations on the basis of a preliminary
	and/or final clinical diagnosis (according to lists 2, 2.1) for different
	segments of the population and in different conditions (according to
	list 7).
PLO 23.	Perform emergency medical care manipulations using standard
	schemes under any circumstances based on the diagnosis of an
	emergency (according to list 4) in limited time (according to lists 6, 7).
	emergency (according to list 7) in minited time (according to lists 0, 7).

# **1.8. Resource support for program implementation**

Staffing	All scientific and pedagogical employees involved in implementing the educational and professional component of the educational programs have confirmed the level of scientific and professional activities, there are mainly full-time employees of Odesa National Medical University of the Ministry of Health of Ultraine
	of Health of Ukraine. Staffing of the departments comply with the licensing conditions for conducting educational activities (Resolution of the Cabinet of Ministers of Ukraine "On approval of licensing conditions for conducting educational activities of educational institutions" dated 30.12.2015 No. 1187 as amended of 05.10.2018 No. 347).
Material and technical provision	The material and technical base of ONMedU allows to ensure the educational process in all educational disciplines at the appropriate scientific and methodological level.
	Lecture halls and study rooms are equipped with modern multimedia equipment, technical teaching aids, and computer equipment; computer classes are set up at the departments; the university has simulation training classrooms for mastering practical skills, as well as a simulation center equipped with modern simulation equipment. Practical training is carried out at the university clinics of ONMedU, at the university's clinical bases for the practical training of higher education students, or under the terms of current agreements for train- ing in health care institutions.
	The Educational and Production Complex of Innovative Technologies of Learning, Informatization and Continuous Education (EPC ITLICE) of ONMedU operates at the University, which provides technical support for testing, remote and final exams (OSCE), independent practice of practical skills by students.
	Simulators of the highest seventh level of realism, standardized and hybrid patients are available.
Informational, educational and methodological provision	Educational and methodological support of educational disciplines includes methodological instructions for lectures, practical classes, laboratory works, independent work of students; methodological materials for practical trainings, tasks for knowledge control, video recommendations for performing practical skills. Educational and methodological support is available electronically at <u>https:// info.odmu</u>
	methodological support is available electronically at <u>https:// info.odmu</u> <u>edu. ua /</u> . ONMedU has modern information sources and computer equipment. The official website ( <u>https://onmedu.edu.ua</u> ) contains information about educational programs, educational, scientific and educational activities, structural subdivisions, admission rules, contacts. ONMedU library is a modern innovation center of the university, the library fund includes more than 900,000 documents of scientific and educational literature in Ukrainian and foreign languages, where modern educational literature, scientific, reference and professional periodicals are presented. The electronic library consists of more than 5,000 documents, mostly educational content. Electronic catalog

	and operates 24/7 with options for authorized use of all digital
	documents.
	Access to international bibliographic and scientific-metric databases (Hinari, Scopus, WebofScience, etc.) and the annual subscription to scientific medical and biological publications, in particular in English.
1.9. Academic mobility	
National credit mobility	National credit mobility is carried out based on the Law of Ukraine "On higher education". Recognition results of the study in other institutions of higher education within the academic framework mobility is carried out according to ONMedU agreements.
International credit mobility	Carrying out international mobility within the program Erasmus + , cooperation agreements and other international programs (British Council, DAAD etc.), travel grants.
Teaching foreign seekers of higher education	Teaching foreign students is conducted according to the requirements of current legislation.
	Training is carried out in Ukrainian and/or English at the request of the student.

## 2. LIST OF EDUCATIONAL AND PROFESSIONAL PROGRAM COMPONENTS AND THEIR LOGICAL SEQUENCE

#### Number Forms of final of Educational and professional program components Code n/a control credits 1. COMPULSORY COMPONENTS 1.1. Cycle of general training disciplines CC 1 Foreign language (by professional direction) 3.0 Credit test CC 2 The Latin Language 3,0 Grading test The Ukrainian language (by professional direction) CC 3 3,0 Credit test CC 4 Medical biology 5.0 Exam Biophysics with medical informatics CC 5 4.0 Credit test CC 6 Medicinal chemistry 3,0 Grading test CC 7 Biological and bioorganic chemistry Exam 6,0 CC 8 Human Anatomy 6,0 Exam CC 9 Histology, cytology and embryology 6,0 Exam Philosophy with a cycle of academic integrity CC 10 3.0 Credit test CC 11 Physiology 6,0 Exam CC 12 Microbiology, virology and immunology 6,0 Exam Totally for the cycle 54,0 Cycle of professional training disciplines 1.2. CC 13 Social medicine, public health with epidemiology 3,0 Credit test CC 14 3,0 Grading test Hygiene and ecology CC 15 Pathomorphology 6,0 Exam CC 16 Pathophysiology 6.0 Exam CC 17 Pharmacology 6,0 Exam Grading test CC 18 Propaedeutics of therapeutic stomatology 3,0 CC 19 Propedeutics of orthopedic dentistry 3.0 Grading test CC 20 Propaedeutics of children's therapeutic dentistry 3,0 Grading test Training of reserve officers of the field of knowledge CC 21 3,0 Grading test "Health care". Specialty "Dentistry " Internal Medicine 6,0 Propaedeutics of internal medicine 2,0 CC 22 Grading test Internal diseases 3.0 Endocrinology 1,0 Surgery with a neurosurgery course 7,0 Surgical diseases 2,0 Grading test CC 23 Neurosurgerv 1.0 Grading test CC 24 Oncology 2.0 Grading test Grading test CC 24.1 Radiology 2.0 Prevention of dental diseases CC 25 3,0 Grading test Therapeutic dentistry CC 26 13 Exam CC 27 Surgical dentistry 13 Exam CC 28 Orthopedic dentistry 13 Exam

### 2.1. List of educational and professional program components

CC 20	Outhodoptics	7.0	From
CC 29	Orthodontics Otorbinglerungelegy	7,0	Exam
CC 30	Otorhinolaryngology Childron's thoronoutin dontistry	3,0	Exam
CC 31 CC 32	Children's therapeutic dentistry Children's surgical stomatology	<u>9,0</u> 5,0	Exam Grading test
CC 32 CC 33	Forensic medicine in dentistry. Medical law	3,0	Grading test Credit test
CC 33 CC 34	General medical training	8,0	Ciedit test
CC 34.1	Obstetrics and gynecology	1,0	Credit test
CC 34.2	Dermatovenerology	1,0	Credit test
CC 34.3	<i>Emergency and urgent medical care</i>	1,0	Credit test
CC 34.4	Infectious diseases	1,0	Credit test
CC 34.5	Neurology	1,0	Credit test
CC 34.6	Ophthalmology	1,0	Credit test
CC 34.7	Psychiatry, narcology	1,0	Credit test
CC 34.8	Physiology	1,0	Credit test
	Totally for the cycle		126,0
	Cycle of practical training disciplines		,
	Practical placement (nursing):	4,0	KPI
	therapeutic dentistry	1,0	
CC 35	children's therapeutic dentistry,	1,0	
	orthopedic dentistry,	1,0	
	surgical dentistry	1,0	
	Practical dentistry placement:	6,0	KPI
	therapeutic dentistry	1,5	
00.20			
CC 36	children's therapeutic dentistry,	1,5	
	orthopedic dentistry,	1,5	
	surgical dentistry	1,5	
	Simulation Dentistry:	35,0	
	orthodontics	7,0	Grading test
CC 37	therapeutic dentistry	7,0	Grading test
	children's therapeutic dentistry,	7,0	Grading test
	orthopedic dentistry,	7,0	Grading test
	surgical dentistry	7,0	Grading test
	Totally for the cycle TOTAL SCOPE OF COMPULSORY COMPONENTS	~	45,0 25 ECTS credits
	TOTAL SCOLE OF COMPULSORT COMPUNENTS	4	25 EC 15 cleuits
	2. ELECTIVE COMPONENTS OF THE E	рр	
	2.1. Disciplines of elective block 1		
	Block of general training		
	A seeker of higher education must choose 6.0 ECTS	credits	
EC 1.1	Life Safety	3,0	Credit Test
EC 1.2	Biology of human behavior	3,0	Credit Test
EC 1.2	Foreign Language	3,0	Credit Test
EC 1.5			Credit Test
	Information technologies in dentistry	3,0	
EC 1.5	Basics of bioethics and biosafety	3,0	Credit Test
EC 1.6	Basics of logic	3,0	Credit Test
EC 1.7	Problems of prevention and prevention of the development of major dental diseases	3,0	Credit Test

EC 1.8	Psychology of communication in dentistry	3,0	Credit Test
EC 1.9	Modern problems of molecular biology	3,0	Credit Test
EC 1.10	Physical Education	3,0	Credit Test
	Block of historical, cultural and patriotic training of	students	
	A student of higher education must choose 6.0 ECT	S credits	
EC 1.12	History of domestic medicine and dentistry	3,0	Credit Test
EC 1.13	History of national philosophical thought	3,0	Credit Test
EC 1.14	History of Ukraine	3,0	Credit Test
EC 1.15	History of Ukrainian political teachings	3,0	Credit Test
EC 1.16	History of Ukrainian Culture	3,0	Credit Test
EC 1.17	Folk psychology	3,0	Credit Test
EC 1.18	Basics of democracy	3,0	Credit Test
EC 1.19	Ukrainian national idea	3,0	Credit Test
	2.2. Disciplines of elective block 2		
	A seeker of higher education must choose 18.0 ECT	S credits	
EC 2.1	Aerobic types of health fitness	3,0	Credit Test
EC 2.2	Academic writing	3,0	Credit Test
EC 2.3	Anthropology	3,0	Credit Test
EC 2.4	Valeology	3,0	Credit Test
EC 2.5	Deontology in medicine	3,0	Credit Test
EC 2.6	European standard of computer literacy (dentistry)	3,0	Credit Test
EC 2.7	The image of a doctor	3,0	Credit Test
EC 2.8	Foreign language (by professional direction)	3,0	Credit Test
EC 2.9	Clinical anatomy and operative surgery of the head and neck	3,0	Credit Test
EC 2.10	Conflictology	3,0	Credit Test
EC 2.11	Medical law of Ukraine	3,0	Credit Test
EC 2.12	Basic technologies of manufacturing dental prostheses	3,0	Credit Test
EC 2.13	Politology	3,0	Credit Test
EC 2.14	Professional medical terminology in dentistry	3,0	Credit Test
EC 2.15	Sociology and medical sociology	3,0	Credit Test
EC 2.16	Modern materials science in therapeutic dentistry	3,0	Credit Test
EC 2.17	Modern features of preparation of carious cavities and root canals of teeth	3,0	Credit Test
EC 2.18	Modern technologies of integral prosthetics	3,0	Credit Test
EC 2.19	Theory and practice of professional language communication	3,0	Credit Test
EC 2.20	Safety techniques for working with medical equipment	3,0	Credit Test
EC 2.21	Temporal aspects of human existence	3,0	Credit Test
	2.3. Disciplines of elective block 3		
	A seeker of higher education must choose 15.0 ECTS	credits	
EC 3.1	Barrier-free environment: psychological foundations	3,0	Credit Test
EC 3.2	Classic massage	3,0	Credit Test
	Callular tashnalaging in dentistry	3,0	Credit Test
EC 3.3	Cellular technologies in dentistry	5,0	cicuit i est

<ul> <li>Basics of aesthetic restoration of teeth</li> <li>Basics of medical communications</li> <li>Basics of medical communications</li> <li>Peculiarities of professional oral hygiene in children</li> <li>Professional medical terminology in dentistry</li> <li>Occupational diseases of dentists</li> <li>C 3.10 Occupational diseases of dentists</li> <li>C 3.11 X-ray examination methods in orthodontics</li> <li>C 3.12 World civilizations</li> <li>C 3.13 Modern methods of dental caries treatment and filling materials in the children's dentistry clinic</li> <li>C 3.14 Modern local anesthetics used in dentistry</li> <li>C 3.15 Ukrainian as a foreign language</li> <li>C 3.17 Fitness with elements of combat sports</li> <li>C 3.18 Functional adaptation of the maxillofacial system during orthogenetics</li> </ul>	3,0         3,0	Credit Test Credit Test
<ul> <li>EC 3.8 Peculiarities of professional oral hygiene in children</li> <li>EC 3.9 Professional medical terminology in dentistry</li> <li>EC 3.10 Occupational diseases of dentists</li> <li>EC 3.11 X-ray examination methods in orthodontics</li> <li>EC 3.12 World civilizations</li> <li>EC 3.13 Modern methods of dental caries treatment and filling materials in the children's dentistry clinic</li> <li>EC 3.14 Modern local anesthetics used in dentistry</li> <li>EC 3.15 Ukrainian medical terminology</li> <li>EC 3.16 Ukrainian as a foreign language</li> <li>EC 3.17 Fitness with elements of combat sports</li> <li>EC 3.18 Functional adaptation of the maxillofacial system during</li> </ul>	3,0         3,0	Credit Test Credit Test
<ul> <li>C 3.9 Professional medical terminology in dentistry</li> <li>C 3.10 Occupational diseases of dentists</li> <li>C 3.11 X-ray examination methods in orthodontics</li> <li>C 3.12 World civilizations</li> <li>C 3.13 Modern methods of dental caries treatment and filling materials in the children's dentistry clinic</li> <li>C 3.14 Modern local anesthetics used in dentistry</li> <li>C 3.15 Ukrainian medical terminology</li> <li>C 3.16 Ukrainian as a foreign language</li> <li>C 3.17 Fitness with elements of combat sports</li> <li>C 3.18 Functional adaptation of the maxillofacial system during</li> </ul>	3,0         3,0	Credit Test Credit Test
<ul> <li>C 3.9 Professional medical terminology in dentistry</li> <li>C 3.10 Occupational diseases of dentists</li> <li>C 3.11 X-ray examination methods in orthodontics</li> <li>C 3.12 World civilizations</li> <li>C 3.13 Modern methods of dental caries treatment and filling materials in the children's dentistry clinic</li> <li>C 3.14 Modern local anesthetics used in dentistry</li> <li>C 3.15 Ukrainian medical terminology</li> <li>C 3.16 Ukrainian as a foreign language</li> <li>C 3.17 Fitness with elements of combat sports</li> <li>C 3.18 Functional adaptation of the maxillofacial system during</li> </ul>	3,0         3,0	Credit Test Credit Test Credit Test Credit Test Credit Test Credit Test Credit Test Credit Test Credit Test Credit Test
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EC 3.16Ukrainian as a foreign languageEC 3.17Fitness with elements of combat sportsEC 3.18Functional adaptation of the maxillofacial system during	3,0 3,0 3,0	Credit Test Credit Test Credit Test
EC 3.17Fitness with elements of combat sportsEC 3.18Functional adaptation of the maxillofacial system during	3,0 3,0	Credit Test Credit Test
EC 3.18 Functional adaptation of the maxillofacial system during	3,0	Credit Test
orthopedic treatment	3,0	Credit Test
EC 3.19 Functional diagnosis of dental diseases with the basics of muscle testing and electromyography		
2.4. Disciplines of elective block 4		
A seeker of higher education must choose 15.0 ECT	S credits	
C 4.1 Current issues of minimally invasive surgical technologies in the treatment of dental diseases	3,0	Credit Test
C 4.2 Viral infections associated with immunosuppression in the practice of a dentist	3,0	Credit Test
C 4.3 Hydrotherapy, SPA procedures	3,0	Credit Test
C 4.4 Gnathological orthodontics	3,0	Credit Test
C 4.5 Dermatovenerology	3,0	Credit Test
C 4.6 Endodontic technique in pediatric dentistry	3,0	Credit Test
C 4.7 Clinical pathophysiology	3,0	Credit Test
C 4.8 Clinical pharmacology	3,0	Credit Test
C 4.9 Therapeutic and sports massage	3,0	Credit Test
C 4.10 Mini-implants and bone anchorage in modern orthodontics	3,0	Credit Test
C 4.11 Justification of the methods of operative interventions used in surgical stomatology	3,0	Credit Test
C 4.12 A multidisciplinary approach in the rehabilitation of children with congenital SCD pathology	3,0	Credit Test
C 4.13 Professional oral hygiene, modern methods of remineralizing therapy	3,0	Credit Test
C 4.14 Mentally regulating types of health fitness	3,0	Credit Test
C 4.15 Early orthodontic treatment	3,0	Credit Test
C 4.16 Forensic Medicine	3,0	Credit Test
C 4.17 Modern technologies of application of fixed orthodontic equipment	3,0	Credit Test
C 4.18 Physical methods of diagnosis and treatment in periodontology	3,0	Credit Test
2.5. Disciplines of elective block 5		·

	A seeker of higher education must choose 15.0 ECTS	credits	
EC 5.1	Clinical immunology and allergology in dentistry	3,0	Credit Test
EC 5.2	Planning and orthodontic treatment as a preparatory stage before orthognathic surgery and orthopedic treatment	3,0	Credit Test
EC 5.3	Use of aesthetic approaches in planning orthopedic interventions	3,0	Credit Test
EC 5.4	Basics of aesthetic dentistry	3,0	Credit test
EC 5.5	Basics of clinical and laboratory diagnostics of dental diseases	3,0	Credit Test
EC 5.6	Side effects of drugs	3,0	Credit Test
EC 5.7	Pharmacology of drugs for dental diseases	3,0	Credit test
EC 5.8	Kinesio taping in medicine and sports	3,0	Credit test
EC 5.9	Cosmetic and Anti - age massage	3,0	Credit test
EC 5.10	Manual methods of physical therapy. Postisometric relaxation	3,0	Credit Test
EC 5.11	Strength fitness	3,0	Credit Test
EC 5.12	Sports nutricitology	3,0	Credit test
EC 5.13	Home care of the sick and disabled	3,0	Credit Test
EC 5.14	Physical therapy and occupational therapy	3,0	Credit Test
EC 5.15	Dental implant systems. Features of use and marketing	3,0	Credit test
EC 5.16	Modern diagnosis of TMJ diseases	3,0	Credit test
EC 5.17	Digital technologies in dental implantology (CAD CAM)	3,0	Credit Test
EC 5.18	Social aspects in the prevention and prediction of complications of dental implantation.	3,0	Credit Test
	TOTAL SCOPE OF ELECTIVE COMPONENTS		90 ECTS credits
ΤΟΤΑ	L SCOPE OF THE EDUCATIONAL-PROFESSIONAL PROGRAM	3	60 ECTS credits

# 2.2. The sequence of educational activities of the higher education seeker by educational components

		Dis	stribu	tion	by stu	ıdy
No	The name of the academic discipline			years		
		1	2	3	4	5
1.	Philosophy with academic integrity	*				
2.	The Latin Language	*				
3.	The Ukrainian language (by professional direction)	*				
4.	Foreign Language	*				
5.	Medical biology	*				
6.	Biophysics with medical informatics	*				
7.	Medicinal chemistry	*				
8.	Microbiology, virology and immunology	*				
9.	Human anatomy	*				
10.	Histology, cytology, embryology	*				
11.	Hygiene and ecology	*				
12.	Biological and bioorganic chemistry	*	*			
13.	Elective components amounting to 12.0 ECTS credits	*				
14.	Physiology		*			

15.	Training of reserve officers in the field of knowledge "Health		*			
	care", Specialty "Dentistry"					
16.	Social medicine, public health with epidemiology		*			
17.	Propaedeutics of therapeutic stomatology		*			
18.	Propedeutics of orthopedic dentistry		*			-
19.	Propaedeutics of children's therapeutic dentistry		*			
20.	Prevention of dental diseases		*			
21.	Practical placement (nursing)		*			
22.	Pathomorphology		*	*		
23.	Pathophysiology		*	*		
24	Pharmacology		*	*		
25.	Elective components amounting to 18.0 ECTS credits		*			
26.	Internal Medicine			*		
	Propaedeutics of internal medicine			*		
	Internal diseases			*		
	Endocrinology			*		
27.	Surgery			*		
	Surgical diseases			*		
	Oncology			*		
	Radiology			*		
	Neurosurgery				*	
28.	Forensic medicine in dentistry. Medical law			*		
29.	Otorhinolaryngology			*		
30.	Elective components amounting to 15.0 ECTS credits			*		
31.	General medical training			*		
51.	Dermatology, venereology			*		
	Neurology			*		
	Emergency and urgent medical care			*		
	Obstetrics and gynecology				*	
	Infectious diseases				*	
					*	
	Ophthalmology Psychiatry, narcology				*	
	Physiology				*	
32.	1 07			*	*	
32.	Children's surgical stomatology Therapeutic dentistry			*	*	*
				*	*	*
34. 35.	Surgical dentistry Orthopedic dentistry			*	*	*
				*	*	*
36. 37.	Children's therapeutic dentistry Orthodontics				*	· ·
					*	
38.	Practical placement in dentistry				*	
39.	Elective components amounting to 15.0 ECTS credits				~	*
40.	Simulation dentistry					*
	Therapeutic dentistry	-				*
	Surgical dentistry	+				*
	Orthopedic dentistry					
	Children's therapeutic dentistry					*
4.4	Orthodontics					*
41	Elective components amounting to 15.0 ECTS credits					*

Learning outcomes are determined by types of learning activities as a specification of program learning outcomes in the working programs of educational disciplines and practical training and used as criteria for selecting the necessary content sections and relevant learning elements. The working program of an educational discipline must determine the total time for learning, the form of final control, the list of basic disciplines, requirements for informational and methodological support, requirements for evaluation criteria, requirements for the structure of the working program of the educational discipline.

Competenc ies	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21	CC 22	CC 23	CC 24	CC 24.1	CC 25	CC 26	CC 27	CC 28	CC 29	CC 30	CC 31	CC 32	CC 33	CC 34.1	CC 34.2	CC 34.3	CC 34.4	CC 34.5	CC 34.6	CC 34.7	CC 34.8	CC 35	CC 36	CC 37
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# 2.3. COMPLIANCE MATRIX OF PROGRAM COMPETENCIES

SC 8												+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+	+	+
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SC 17										+								+													+											
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IC – INTEGRATED COMPETENCY

GC – GENERAL COMPETENCIES

SC – SPECIAL COMPETENCIES

### 2.4. MATRIX OF PROVIDING PROGRAM LEARNING OUTCOMES (PLO) BY RELEVANT COMPONENTS OF THE EDUCATIONAL-PROFESSIONAL PROGRAM

											_											~ -																							
PLO	CC 1	CC 2	CC 3	CC 4	CC 5	9 DD	CC 7	CC 8	6 DD	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21	CC 22	CC 23	CC 24	CC 24.1	CC 25	CC 26	CC 27	CC 28	CC 29	CC 30	CC 31	CC 32	CC 33	CC 34.1	CC 34.2	CC 34.3	CC 34.4	CC 34.5	CC 34.6	CC 34.7	CC 34.8	CC 35	CC 36	CC 37
PLO 1								+	+		+	+			+	+								+	+		+	+	+	+	+	+	+		+							+	+	+	+
PLO 2				+		+	+	+	+		+	+			+	+					+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	
PLO 3						+	+		+			+			+						+	+		+	+	+	+	+	+	+	+	+	+			+	+	+	+			+		+	
PLO 4															+	+					+	+		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+		+	+		+	
PLO 5																+							+				+	+	+	+	+	+	+		+	+	+	+	+	+					
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PLO – PROGRAM LEARNING OUTCOMES

### 3. Form of certification of higher education seekers

Certification of graduates of the educational program (master's degree holders) in the specialty 221 "Dentistry" of the field of knowledge 22 "Health care" is carried out in the form of a qualifying (clinical) exam, the procedure for which is established by the Resolution of the Cabinet of Ministers of Ukraine dated 28.03.2018 No. 334 " On the approval of the procedure for conducting a unified state qualification exam for holders of a master's degree in the field of knowledge "22 Health care" (Unified State Qualification Exam (USQE) stage 1, USQE stage 2, complex practically oriented exam or defense of a master's thesis) and ending with the issuance to the graduate of a document on the higher education of the established model on awarding him a master's degree with the qualification: "Master of Dentistry". Certification is carried out openly and publicly.

### Guarantor of the educational-professional program

doctor of medical sciences, professor of the department of surgical dentistry

Anatolii HULIUK

### List 1 (syndromes and symptoms)

- 1. adentia
- 2. anemia
- 3. malocclusion
- 4. facial asymmetry
- 5. atrophy
- 6. pain dysfunction of the TMJ
- 7. pain in the heart area
- 8. pain in the teeth
- 9. pain in the abdomen
- 10. pain in the soft tissues of the maxillofacial area
- 11. pain in the bones of the face
- 12. loss of consciousness
- 13. loss of clinical attachment
- 14. hypermobility of the articular head of the TMJ
- 15. hemorrhagic syndrome
- 16. hyperesthesia
- 17. hypersalivation
- 18. headache
- 19. hugeness (open, closed)
- 20. deviation of the lower jaw destruction of bone tissue
- 21. defects of the crown part of the tooth
- 22. deformation of the bones of the facial skeleton
- 23. deformation of the bite
- 24. dental discoloration
- 25. facial disproportion
- 26. jaundice
- 27. suffocation and asphyxia
- 28. inflammatory infiltration of tissues of the maxillofacial area
- 29. dizziness
- 30. discoloration of the skin, mucous membrane of the oral cavity
- 31. change in the shape of teeth
- 32. change of interalveolar height
- 33. lesions on the skin and oral mucosa
- 34. convergence (divergence) of teeth
- 35. xerostomia
- 36. fever
- 37. lymphadenopathy
- 38. macroglossia
- 39. macrocheilia
- 40. maceration of the corners of the mouth
- 41. meningeal syndrome
- 42. edema syndrome
- 43. dental deposits
- 44. fistula course
- 45. restriction of mouth opening

- 46. paresis, paralysis of nerves of maxillofacial localization
- 47. burning of the mucous membrane
- 48. pathological abrasion of teeth
- 49. violation of the lower jaw movements
- 50. impaired taste
- 51. impaired sensitivity of the maxillofacial tissues
- 52. impaired sucking and swallowing functions, pathological tooth mobility
- 53. tumors and tumor-like neoplasms in the maxillofacial area
- 54. gum recession
- 55. mobility of bone fragments of the facial skeleton
- 56. thinning of the cortical plate of the jaws
- 57. "emptying-filling"
- 58. partial and complete loss of teeth
- 59. fluctuation
- 60. chemosis
- 61. cyanosis (diffuse and local)
- 62. cleft facial defects, I-II gill arch syndrome
- 63. gingival, periodontal, bone pocket

### List 2 (dental diseases)

### 1. Therapeutic Dentistry:

### A) Non-carious lesions of hard tissues of teeth:

- 1. hyperesthesia
- 2. enamel hypoplasia, hyperplasia
- 3. fluorosis
- 4. erosion of hard tooth tissues
- 5. wedge-shaped defect
- 6. grinding teeth
- 7. necrosis of hard tissues of the tooth
- 8. discoloration
- 9. traumatic injuries of teeth

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

- 10. caries
- 11. pulpitis
- 12. periodontitis

### C) Periodontal diseases:

- 13. papillitis
- 14. gingivitis (localized, generalized)
- 15. periodontitis (localized, generalized)
- 16. periodontosis
- 17. idiopathic periodontal diseases

# D) Diseases of the mucous membrane of the oral cavity (MMOC):

18. traumatic lesions of the MMOC

- 19. autoinfectious diseases of the oral mucosa (acute aphthous stomatitis, herpetic, ulcerative necrotic, candidal lesions of the oral mucosa)20. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhea)
- 21. MMOC disease in dermatoses with an autoimmune component of pathogenesis (vemiculosis, lichen planus, lupus erythematosus)22. changes in the MMOC in case of allergic lesions
- 23. changes in the MMOC in case of intoxication with salts of heavy metals

24. symptomatic viral diseases (AIDS, influenza, foot and mouth disease, infectious

mononucleosis)

25. symptomatic manifestations of diseases of the gastrointestinal tract

(ulcer disease, gastritis, enteritis, colitis, chronic hepatitis)

26. symptomatic manifestations of diseases of the cardiovascular system

(circulatory insufficiency, essential arterial hypertension)

27. symptomatic manifestations of endocrine system diseases (acromegaly, Itsenko-Cushing syndrome, diabetes, hyper- and hypothyroidism) 28. symptomatic manifestations of blood diseases (anemia, thrombocytopenic purpura, leukemia)
29. symptomatic manifestations of hypo- and vitamin deficiency
30. diseases and abnormalities of the tongue (desquamative glossitis, rhomboid glossitis, folded tongue, hairy tongue)

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

32. independent and symptomatic cheilitis

(actinic, meteorological, contact

allergic, glandular, exfoliative, eczematous, atopic)

# E) Pre-cancer of the MMOC and the red border of the lips:

33. obligate precancers (Bowen's disease, warty precancer, limited precancerous hyperkeratosis, Manganotti cheilitis)

- 34. optional pre-cancers
- 2. Childhood dentistry:
- A) Dental pathology:
- 35. enamel hypoplasia (systemic and local)
- 36. endemic fluorosis
- 37. congenital malformations of the hard tissues
- of children's teeth

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

- 39. traumatic lesions of teeth
- **B)** Periodontal pathology:
- 40. gingivitis
- 41. idiopathic periodontal diseases
- 42. periodontitis

# C) Pathology of the mucous membrane of the oral cavity (MMOC):

- 43. allergic diseases of the MMOC
- 44. abnormalities and diseases of the tongue
- 45. Fungal lesions of MMOC in children
- 46. changes in the MMOC in systemic diseases
- 47. changes in the MMOC in specific diseases
- 48. acute viral and infectious diseases manifestations

on the MMOC (diphtheria, chicken pox, measles, infectious mononucleosis, scarlet fever)

49. viral diseases of the respiratory tract (acute herpetic stomatitis, recurrent herpetic stomatitis, shingles)

50. independent and symptomatic cheilitis, glossitis

# D) Inflammatory diseases of the maxillofacial area:

51. periostitis

52. osteomyelitis of the jaws

53. diseases of the temporomandibular joint

- 54. diseases of the salivary glands
- 55. lymphadenitis

56. non-odontogenic inflammatory processes of soft tissues (furuncle, carbuncle, hysteria)

57. specific inflammatory processes (tuberculosis,

syphilis, actinomycosis)

58. phlegmons and abscesses

### E) Injuries of the maxillofacial area:

59. damage to soft tissues (wounds, burns), teeth, jaws, facial bones, TMJ

# F) Tumors and tumor-like formations of the maxillofacial area:

60. benign tumors and tumor-like neoplasms of soft tissues and bones of the face

61. malignant tumors of soft tissues and bones of the face

### G) Congenital malformations of the face:

62. non-closure of the upper lip, alveolar process, hard and soft palate (isolated and through)

63. anomalies of attachment of soft tissues of the oral cavity (frenum of the lips, tongue, shallow vestibule of the oral cavity)

64. congenital syndromes

- C) TMJ diseases, ankylosis
- 3. Maxilofacial Surgery:

# A) Inflammatory diseases of the maxillofacial area:

65. deep and superficial phlegmons, abscesses

66. lymphadenitis

67. neuritis of the trigeminal nerve, facial nerve, neuralgia

68. neodontogenic inflammatory processes

69. odontogenic sinusitis

70. periodontitis, periodontitis, alveolitis,

periostitis, osteomyelitis; pericoronary

71. inflammatory diseases of the salivary glands

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

### B) Injuries of the maxillofacial area:

73. injuries of teeth and bones of the facial skeleton

74. injuries of soft tissues, tongue and MMOC

75. gunshot wounds and non-gunshot tissue injuries of maxillofacial localization; cranio-maxillofacial injuries

76. thermal, chemical, electrical and radiation damage to maxillofacial tissues localization; combined trauma

C) Temporomandibular joint (TMJ) diseases:

77. arthritis, arthrosis-arthritis, arthrosis

78. ankylosis

79. TMJ dysfunctions, dislocations and contractures of the lower jaw

D) Tumors and tumor-like formations of the MMOC, salivary glands, and soft tissues in the maxillofacial area and neck, bones of the facial skeleton:

80. benign tumors and tumor-like formations

81. precancerous diseases and malignant tumors of the respiratory tract, salivary glands, and soft tissues in the maxillofacial area and neck, bones of the facial skeleton

# **D**) Congenital and acquired defects and deformations of head and neck tissues

82. anomalies of teeth development, congenital deformities of the jaws, defects and deformities of the facial skeleton bones, combined anomalies and deformations of the brain and facial skeleton and dental and jaw system

83. congenital defects and deformations of the soft tissues of the head and neck

84. acquired defects and deformations of soft tissues of the maxillofacial localization and neck, bones of the facial skeleton

85. age-related changes in the soft tissues of the face and neck, vertical and horizontal atrophy of the alveolar processes of the jaw bones, adentia, gum recession

86. cosmetic defects and deformations of organs and tissues of the head and neck

### F) Dysplastic diseases of the maxillofacial area

87. dystrophic diseases of periodontal tissues

88. sialosis

89. dysplastic diseases of soft tissues of the head and neck

### F) Neurostomatological diseases

90. neuritis, neuralgia of the trigeminal nerve

### 4. Orthopedic dentistry:

91. partial loss of teeth

- a) distally limited defects of tooth rows
- b) distally unlimited defects of tooth rows
- 92. complete loss of teeth
- 93. excessive wear of teeth
- 94. defects of the crown part of the teeth

95. complete destruction of the crown part of the tooth

96. dento-jaw deformations 97. parafunctions of masticatory muscles 98. traumatic occlusion 99. injuries and defects of the jaws, nose, ears, orbit, combined defects 100. TMJ diseases 101. TMJ dysfunctions **5.** Orthodontics A) abnormalities of individual teeth: 102. sizes 103. forms 104. quantity 105. retention B) anomalies of the position of the teeth: 106. diastemas and tremes 107. crowding of teeth 108. cake anomaly 109. vestibulo-oral position of teeth, dystopia, transposition, supra-infraposition C) sagittal anomalies of bite: 110. progeny (mesial) (skeletal, tooth-alveolar) 111. prognathia (distal) (skeletal, tooth-alveolar) D) vertical malocclusions: 112. open (skeletal, dentoalveolar) 113. deep (skeletal, dentoalveolar) D) transverse bite anomalies:

114. cross (one - or bilateral, with or without displacement of the lower jaw) (skeletal, dentoalveolar).

### List 2.1 (main dental diseases)

- 1. non-carious lesions of teeth
- 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. periodontitis
- 8. periodontal disease
- 9. traumatic lesions
- 10. autoinfectious diseases of the oral mucosa
- (acute aphthous stomatitis, herpetic,

ulcerative-necrotic, candidal lesions of the oral mucosa)

11. secondary bacterial diseases (diphtheria,

tuberculosis, syphilis, gonorrhea)

12. Manifestations of immunodeficiency

states in AIDS

- 13. allergic lesions
- 14. alveolitis
- 15. pericoronaritis
- 16. periostitis
- 17. lymphadenitis
- 18. traumatic damage to the soft tissues of the face

19. acute and habitual dislocation of the lower jaw

20. uncomplicated fractures of the upper and lower jaws

- 21. defects of the crown part of the teeth
- 22. partial and complete absence of teeth

# List 3. Physiological conditions and somatic diseases that require special patient management tactics

### A) Physiological states:

1. pregnancy

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

- 2. anemia
- 3. hemophilia
- 4. leukemia
- 5. thrombocytopenic purpura

### C) Cardiovascular diseases:

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

### **D) Mental disorders:**

- 12. acute psychosis, including alcoholic delirium
- 13. epilepsy

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

14. bronchial asthma

### F) Pathology of the ENT organs:

- 15. tonsillitis
- 16. rhinitis
- 17. sinusitis
- 18. curvature of the nasal membrane

### G) Diseases of the endocrine system:

- 19. diabetes
- 20. diseases of the thyroid gland

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

- 21. systemic vasculitis (hemorrhagic vasculitis)
- 22. rheumatoid arthritis
- 23. violation of posture

### E) Infectious and parasitic diseases:

- 24. HIV infection / AIDS
- 25. viral hepatitis
- 26. diphtheria
- 27. tetanus
- 28. anthrax
- 29. tuberculosis of various localization
- 30. cholera
- 31. plague
- 32. gonorrhea
- 33. syphilis

# List 4 (emergency conditions)

- 1. asphyxia (including newborns)
- 2. hypertensive crisis
- 3. acute respiratory failure
- 4. acute heart failure
- 5. acute poisoning
- 6. "sharp" stomach
- 7. electric shock
- 8. fainting
- 9. external bleeding
- 10. collapse
- 11. coma
- 12. swelling of the larynx
- 13. Quincke's edema
- 14. burns and frostbite
- 15. convulsions
- 16. drowning
- 17. physiological childbirth
- 18. shock
- 19. bone injury

### List 5 (laboratory and instrumental studies

1. punctate analysis of neoplasms of soft tissues and bones

2. histomorphological examination of a biopsy of lymph nodes, salivary glands, mucous membranes, soft tissues

- 3. analysis of glucose content in the blood
- 4. study of control and diagnostic models of jaws
- 5. study of the functions of the TMJ (breathing, swallowing, speech, chewing and TMJ)
- 6. general blood test
- 7. general analysis of urine
- 8. biochemical analysis of blood
- 9. immunological research in dental diseases
- 10. coagulogram analysis
- 11. interpretation of X-ray diagnostics of the skull, maxillofacial apparatus, salivary glands
- 12. cytological examination of the organs and tissues of the maxillofacial apparatus
- 13. microbiological examination of oral fluid, swabs from the oral cavity, periodontium

14. functional diagnosis of the state of the oral cavity (luminescent, rheoperiodontography, stomatoscopy, capillaroscopy, vacuum test, etc.).

# List 6 (medical manipulations)

- 1. perform artificial respiration
- 2. perform indirect heart massage
- 3. fix the tongue
- 4. temporarily stop external bleeding
- 5. carry out primary surgical treatment of wounds
- 6. wash the stomach, intestines
- 7. carry out transport immobilization
- 8. inject medicinal substances (intramuscular, subcutaneous, intravenous and drip)
- 9. measure blood pressure
- 10. carry out the primary toilet of the newborn
- 11. determine the blood group, Rhesus factor

## List 7 (dentistry manipulations)

1. alveolotomy 2. amputation of the pulp of temporary and permanent teeth 3. anthropometric studies of jaw models 4. selective grinding of teeth, alignment of the occlusal surface, occlusogram, periodontogram filling 5. production of temporary splints and splinting for fractures of teeth, alveolar processes and jaws 6. removal of dental layers 7. determination of acid resistance of tooth enamel (TER, KOSHER, SCT-test) 8. determination and fixation of the central ratio 9. definition of Tsilinsky's symptom 10. definition of a constructive bite 11. determination of the sagittal gap 12. determination of the vertical gap 13. determination of signs of orthognathic bite and its varieties 14. determination of signs of pathological types of bites 15. reduction of dislocation of the lower jaw 16. sealing of fissures 17. diagnostic use of dyes 18. diathermocoagulation 19. pulp extirpation of temporary and permanent teeth 20. electroodontology 21. the use of local agents in the treatment of periodontal diseases 22. local anesthesia in the treatment of dental diseases by various methods (application, infiltration, conductor) 23. removal of artificial crowns 24. tooth-preserving surgical interventions in periodontitis 25. stopping bleeding after tooth extraction 26. deep fluoridation of hard tissues of temporary teeth 27. correction of partial and complete removable prostheses 28. correction and activation of removable orthodontic devices 29. curettage of the cavity

- 30. curettage of periodontal pockets
- 31. medical treatment of affected areas of the mucous membrane of the oral cavity and

periodontium

32. application and removal of temporary fillings

and hermetic dressings in the treatment of caries, pulpitis, periodontitis 33. laying of cofferdam 34. application of maxillofacial appliances (restorative, forming, replacing and fixing) 35. obturation of root canals of temporary and permanent teeth with various materials 36. obtaining anatomical and functional impressions with different impression material 37. obtaining jaw models 38. obtaining impressions from intraosseous implants 39. parallelometry when planning the design of a brace prosthesis 40. checking the structure of the prosthesis with partial and complete absence of teeth 41. periostomy 42. filling carious cavities of temporary and permanent teeth with various filling materials 43. covering teeth with therapeutic and preventive varnishes, gels, desensitizers 44. preparation of teeth for metal stamped, plastic solid, solid combined, metal-free crown 45. preparation of teeth for tabs and veneers 46. preparation and cleaning of root canals of temporary and permanent teeth 47. tooth root preparation for a pin structure 48. preparation of carious cavities of temporary and permanent teeth, taking into account the type of sealing material 49. fitting of various types of artificial crowns 50. intradental electrophoresis 51. ligature binding of teeth 52. conducting professional oral hygiene 53. carrying out professional hygiene in the area of implants 54. conducting physiological separation 55. carrying out periodontal probing 56. direct and indirect coating of the pulp 57. registration of the position of the upper jaw using the facial arch 58. opening of a periodontal abscess 59. incision and excision of the hood in case of pericoronaritis 60. compilation of the IGPR algorithm 61. temporary immobilization for jaw fractures 62. typical and atypical removal of temporary and

permanent teeth

63. cystotomy

64. fixation of crowns and bridge-like prostheses

65. fixation of orthodontic ring, crown

66. fixation of the central ratio for II, III, IV groups of defects

67. surgical treatment of soft tissue wounds of the face within one anatomical area68. grinding and polishing of seals fmade of all types of sealing materials