

**EDUCATIONAL AND PROFESSIONAL PROGRAM**

**“DENTISTRY”**

**Second (Master) level of higher education**

**Specialty 221 Dentistry**

**Branch of knowledge 22 Health Care**

**Qualification: Master of Dentistry. Dentist**

Approved by Academic Board  
of I. Horbachevsky Ternopil State Medical University

Head of the University Academic Board  
\_\_\_\_\_ (professor M.Korda)

Minutes no. 18 dd. 31 May 2016

Educational and professional program was enacted on September 1, 2016

Rector: \_\_\_\_\_ / professor M.Korda

Order no. 225 dd. 01 June 2016

**Ternopil – 2016**

**APPROVAL LETTER  
OF EDUCATIONAL AND PROFESSIONAL PROGRAM**

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Rector



M. Korda

Vice-Rector for Science and Education



A. Shulhai

Dean of Dentistry Faculty

S. Boitsaniuk

## PREFACE

### Work group:

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### Reviewers:

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2. Kuzniak Nataliia Bohdanivna – M.D., Head of Surgical Dentistry, Higher State Educational Establishment of Ukraine «Bukovinian State Medical University».

**Program profile on specialty 221 «Dentistry»  
(specialization «Dentistry», Master's degree)**

<b>1 – General Information</b>	
<b>Full name of higher educational institution and department</b>	State Higher Educational Institution “Ivan Horbachevsky Ternopil State Medical University of the Ministry of Health of Ukraine” Faculty of Dentistry
<b>Level of higher education and name of qualification in source language</b>	Second (Master's) degree Master's degree in Dentistry
<b>Official name of educational program</b>	Dentistry
<b>Diploma type and scope of educational program</b>	Master's Diploma, unitary, 300 credits ECTS, study duration - 5 years. Scope of Master's educational program: • General Certificate of Secondary Education – 300 credits ECTS Junior Specialist Diploma and Junior Bachelor's Diploma – 240 credits ECTS • 75% (minimum) of educational program must be focused on developing general and professional competences on specialty, approved by Higher Education Standard
<b>Certificate of Accreditation</b>	- Ministry of Education and Science of Ukraine - National Quality Assurance Agency for Higher Education of Ukraine - Ukraine - Non-accredited
<b>Cycle/ Level</b>	FQ – EHEA –second cycle, QF-LLL – 7 level, HPK Ukraine – 7 level
<b>Entrance qualification</b>	General Certificate of Secondary Education (on basis of Independent Testing Certificates/ or entrance examinations), Certificate of Junior Specialist, Certificate of Junior Bachelor's Degree or an applicant who has received a Master's Degree in medical specialization for at least one year. Admission requirements are determined by Rules of admission to State Higher Educational Institution «Ivan Horbachevsky Ternopil State Medical University of the Ministry of Health of Ukraine».
<b>Language(s) of</b>	Ukrainian, English

<b>teaching</b>	
<b>Duration of educational program</b>	01 September 2016 – 30 June 2022
<b>Internet-address of educational program entry</b>	<a href="https://dent-dep.tdmu.edu.ua/Informacijni">https://dent-dep.tdmu.edu.ua/Informacijni</a>
<b>2 – Aim of educational program</b>	
<p>Developing abilities of applying gained knowledge, habits, skills, competences in pre-clinical and clinical training, for solution of typical tasks of dentist's practical activity in the field of health care, according to appointed position; the scope of applying these competences is determined by the list of syndromes and symptoms of diseases, dental diseases, physiological states and somatic diseases that require special patients' management; questions of emergency conditions, laboratory and instrumental studies, medical and dental manipulations.</p>	
<b>3 –Description of educational program</b>	
<b>Subject area (branch of knowledge, specialty)</b>	<p>Specialty 221 Dentistry, branch of knowledge 22 Health Care, multidisciplinary. Pre-clinical subjects – 19%, clinical subjects – 53%, elective subjects – 25%, practical training – 3%.</p> <p><b>Study objects:</b> dental and dento-facial diseases of odontogenic and non-odontogenic nature, their etiology, diagnosis, treatment and prevention.</p> <p><b>Training goals:</b> the ability of applying gained knowledge, habits, skills, competences in pre-clinical and clinical training for solution of typical tasks of dentist's practical activity in the field of health care, according to appointed position; the scope of applying these competences is determined by the list of syndromes and symptoms of diseases, dental diseases, physiological states and somatic diseases that require special patients' management; questions of emergency conditions, laboratory and instrumental studies, medical and dental manipulations.</p> <p><b>Theoretical content of subject area</b> comprises academic compulsory and elective subjects of pre-clinical and clinical training cycles.</p> <p><b>Methods, methodology and technologies:</b> the graduate must have professional knowledge and be able to carry out the diagnostic process, to determine the key symptoms and syndromes, to make a preliminary diagnosis, to conduct a differential diagnosis, to formulate a final clinical diagnosis of</p>



	<p>dental diseases under the supervision of physician (according to the list 2), to know the principles of treatment and prevention of dental diseases, to treat the main dental diseases (according to the list 2.1) by making an informed decision, according to the existing algorithms.</p> <p><b>Instruments and Equipment (facilities / items, apparatus and devices, learned by applicants of higher education (specialization «Dentistry», Master's degree)):</b> widely used up-to-date diagnostic, medical and other devices, items, apparatus for professional experience.</p>
<b>Guidance of educational program</b>	<p>A graduate must have professional knowledge and be able to carry out the diagnostic process, to determine the key symptoms and syndromes, to make a preliminary diagnosis, to conduct a differential diagnosis, to formulate a final clinical diagnosis of dental diseases under the supervision of physician (according to the list 2), to know the principles of treatment and prevention of dental diseases, to treat the main dental diseases (according to the list 2.1) by making an informed decision, according to the existing algorithms.</p>
<b>Principal focus of educational program</b>	<p>Educational and professional program is aimed at training high-level dental specialists who possess relevant knowledge and practical skills, are able to carry out the diagnostic process, to determine the leading symptoms and syndromes, to make a preliminary diagnosis, to conduct differential diagnosis, to formulate the final clinical diagnosis of dental diseases under the supervision of the head physician, to know the principles of treatment and prevention of dental diseases, to treat the main dental diseases by making an informed decision on the existing algorithms.</p>
<b>Program characteristics</b>	<p>Educational program is based on modern scientific results and the principles of evidence-based medicine in the field of dental care. The program provides the acquisition of a high level of knowledge and skills, the ability to solve complex problems and problems in the field of health in the specialty "Dentistry" in the professional activity or in the learning process, which involves research and/or innovation conduct.</p>
<b>4 – Graduates' employment capability and further training</b>	
	<p>The specialist is trained to work according КБЕД ДК</p>

<b>Employment capability</b>	<p>009:2010:  Section Q. Health care and social assistance  Section 86. Health care  Group 86.2 Medicine and dental practice  Class 86.23 Dental practice  After completing Master's degree program in speciality "Dentistry", a specialist is able to perform the duties of:  Intern-doctor (code КП – 3229);  trainee-doctor (code КП – 3221);  Qualification "Dentist" is given after training at internship, residency. He(she) is able to perform the duties of a dentist in a certain field according to ДК 003:2010 and hold a primary physician position according to current list of medical specialties specified in the current National classification of Ukraine "Occupational Classification":  2222.2 Dentist</p>
<b>Further education</b>	<p>After completing Master's degree program in speciality "Dentistry", a specialist may apply for postgraduate programs (internship, residency) where studying is carried out on educational programs of a dentist training.  After internship, residency graduation in speciality "Dentistry", a specialist has the right:  to perform the corresponding professional duties of a dentist in a certain profession which is specified in the current National classifier of Ukraine "Classifier of professions", to hold the corresponding medical position;  to apply for a Ph.D. program;  to undergo retraining and obtain qualification in another medical specialty and perform appropriate professional work.</p>
<b>5 – Teaching and assessment</b>	
<b>Teaching and learning</b>	<p>Competent, student-centred, problem-oriented approaches and initiative self-study. Teaching process is carried out in the following forms: interactive scientific and instructive lectures, practical classes in small groups, independent work, tutorial instructions, writing of case history, educational and medical practical trainings.</p>
<b>Assessment</b>	<p>Assessment of student's academic achievements is carried out on the basis of mutually agreed 12-point scale (10-12 – "excellent", 7-9 – "good", 4-6 – "satisfactory", 1-3 – "poor") and verbal ("passed", "failed") systems, scale of an educational institution</p>

	<p>(from 0 to 200 points), national scale ECTS (A, B, C, D, E, FX, F).</p> <p>Current students' recitation, knowledge testing, reports on practical work, practical skills, presentations, reports on practice, tests, writing of case history, writing scientific articles based on research results;</p> <p>Final control – credits, grading credits, oral and written examinations, licensed examination KPOK 1;</p> <p>Final certification – licensed examination KPOK 2 Dentistry, practical-oriented state examination.</p>
<b>6 – Program competences</b>	
<b>Integral competence</b>	Ability to solve complex tasks and problems in the field of health care in specialty "Dentistry" in the professional activity, or in the process of studying that involves research and / or innovation and is characterized by uncertainty of the conditions and requirements.
<b>General competences (GC)</b>	<p>GC 1. Ability of abstract thinking, analysis and synthesis, the ability to learn and master modern knowledge.</p> <p>GC 2. Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>GC 3. Ability to apply knowledge in practical situations.</p> <p>GC 4. Ability to adapt and act in a new situation.</p> <p>GC 4. Ability to speak an official language both orally and in writing; ability to speak a foreign language.</p> <p>GC 5. Skills of using the information and communication technologies; ability to search for, process and analyse information from a variety of sources.</p> <p>GC 6. Ability to adapt and act in a new situation; ability to work autonomously.</p> <p>GC 7. Ability to identify, set and solve problems.</p> <p>GC 8. Ability to choose a communication strategy; ability to work in a team; ability to show interpersonal skills.</p> <p>GC 9. Ability to act on the basis of ethical considerations (motives); focus on security.</p> <p>GC 10. Ability to evaluate and ensure the quality of work performed.</p> <p>GC 11. Desire to preserve the environment.</p> <p>GC 12. Ability to act in a socially responsible and civilly conscious manner.</p>
<b>Professional competences (PC)</b>	<p>PC 1. Patient's interviewing skills.</p> <p>PC 2. Ability to determine the required list of laboratory</p>



	<p>and instrumental studies and evaluate their results.</p> <p>PC 3. Ability to establish a clinical diagnosis of a dental disease.</p> <p>PC 4. Ability to diagnose emergency conditions.</p> <p>PC 5. Ability to plan and implement measures for the prevention of dental diseases.</p> <p>PC 6. Ability to determine the principles and nature of dental diseases treatment.</p> <p>PC 7. Ability to determine the necessary labour and rest regime while treating dental diseases.</p> <p>PC 8. Ability to determine tactics of providing dental care in somatic pathology.</p> <p>PC 9. Skills of performing medical manipulations.</p> <p>PC 10. Ability to treat major dental diseases.</p> <p>PC 11. Ability to conduct medical and evacuation measures.</p> <p>PC 12. Skills of providing emergency medical care.</p> <p>PC 13. Ability to carry out dental medical examination of persons subject to regular check-up.</p> <p>PC 14. Ability to assess the impact of the environment on the health of people (individual, family, population).</p> <p>PC 15. Ability to conduct medical documentation.</p>
<b>7 – Program learning outcomes</b>	
	<p style="text-align: center;"><b>Learning outcomes in the cognitive sphere.</b></p> <p>PLO 1. To single out and identify the leading clinical symptoms and syndromes (according to list 1); to establish a probable nosological or syndromic preliminary clinical diagnosis of dental disease taking into account standard procedure, using the preliminary data of the patient's history, patient examination data, knowledge about the person, his organs and systems (according to list 2).</p> <p>PLO 2. To collect information about the general condition of the patient, to assess the psychomotor and physical development of the patient, the state of the organs of the maxillofacial area as well as to evaluate information regarding the diagnosis based on the results of laboratory and instrumental studies (according to list 5).</p> <p>PLO 3. To assign and analyze laboratory, functional and / or instrumental examination (according to list 5) of the patient on dental disease for making a differential diagnosis of diseases (according to list 2).</p> <p>PLO 4. To determine the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision and logical analysis of the obtained</p>

subjective and objective data of clinical additional examination. To carry out a differential diagnostics of a disease under the supervision of a physician in a medical institution (according to list 2.1).

PLO 5. To establish a diagnosis of emergency conditions under any circumstances (at home, on the street, in a medical institution), in an emergency situation, martial law, lack of information and limited time (according to list 4).

PLO 6. To plan and implement measures to prevent dental diseases among the population against the spread of dental diseases.

PLO 7. To analyze the epidemiological state and carry out measures of mass and individual, general and local, drug and non-drug prevention of dental diseases.

PLO 8. To determine the nature of treatment of a dental disease (according to list 2) by making an informed decision on the existing algorithms and standard schemes.

PLO 9. To determine the nature, principles of labour and rest regime and necessary diet in the treatment of dental diseases (according to list 2) on the basis of preliminary or final clinical diagnosis by making an informed decision, according to the existing algorithms and standard schemes.

PLO 10. To determine the tactics of management of a dental patient with somatic pathology (according to list 3) by making an informed decision, according to the existing algorithms and standard schemes.

PLO 11. To carry out treatment of major dental diseases, according to existing algorithms and standard schemes under the supervision of a physician in a medical institution (according to list 2.1).

PLO 12. To organize medical and evacuation measures among the population, military personnel, in an emergency situation, including martial law, during the deployed stages of medical evacuation, taking into account the existing system of medical and evacuation support.

PLO 13. To determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances, based on the diagnosis of an emergency condition in a limited time (according to list 4).

PLO 14. To analyze and evaluate public, social and health information using standard approaches and computer information technologies.

PLO 15. To assess the impact of the environment on the

health of the population in a medical institution using standard methods.

**Learning outcomes in the emotional sphere.**

PLO 16. To set goals and determine the structure of personal activity on the basis of the results of the analysis of certain social and personal needs.

PLO 17. To adhere to a healthy lifestyle, use self-regulation and self-control techniques.

PLO 18. To realize and be guided in the activity by one's civil rights, freedoms and responsibilities, to raise the general-educational cultural level.

PLO 19. To adhere to the requirements of ethics, bioethics and deontology in their professional activities.

PLO 20. To organize the necessary level of individual safety (one's own and persons cared for) in case of the occurrence of typical hazardous situations in the individual field of activity.

**Learning outcomes in the psychomotor field.**

PLO 21. To perform medical manipulations on the basis of preliminary and / or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and under different conditions (according to list 6).

PLO 22. To perform medical dental manipulations on the basis of preliminary and / or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and under different conditions (according to list 7).

PLO 23. To perform manipulations of emergency medical care, using standard schemes, under any circumstances, based on the diagnosis of an emergency condition (according to list 4) in a limited time (according to lists 6, 7).

**8 - Resource support for the implementation of programs**

**Personnel support**

All scientific and pedagogical workers involved in the implementation of the educational component of the educational program must have a confirmed level of scientific and professional activity, to be mainly staffed by the State Higher Educational Institution "Ternopil State Medical University named after I.Ya. Gorbachevsky Ministry of Health of Ukraine ", employees of clinical departments should be practicing specialists.

The educational program "Dentistry" is provided by 59 departments consisting of 597 people, including 101 doctors of sciences, 462 candidates of sciences, including 321

	<p>assistant professors. All scientific and pedagogical workers involved in the educational component of the educational program are full-time employees of the Ternopil State Medical University named after I.Ya. Gorbachevsky Ministry of Health of Ukraine ", have a confirmed level of scientific and professional activity, are practicing specialists, including from emergency medicine.</p>
<p><b>Material and technical support</b></p>	<p>Availability of educational and lecture rooms equipped with computer workstations, multimedia equipment, technical means of training; clinical basis for the practice of higher education graduates or existing agreements for practice in medical institutions; the presence of standardized patients, specific dummies and dummies.</p> <p>The training base of the structural units of the department of dentistry allows organizing and conducting classes on all disciplines at the appropriate scientific and methodological level. For lectures and practical classes multimedia devices, computer equipment are used. The study rooms are equipped with the necessary equipment and equipment, there are computer classes.</p> <p>For the implementation of all practical skills and work with simulated patients at the university, the Interdepartmental Training and Training Center has been created and sufficiently equipped.</p>
<p><b>Information and teaching and methodological support.</b></p>	<p>Appropriate educational and methodological support (complexes) of educational disciplines, which contain methodological developments for seminars, practical classes, laboratory workshops, methodical instructions for independent work of students, individual tasks of practical orientation; methodical materials for writing the history of diseases, passing the practice, tasks for controlling knowledge (exam papers, test assignments, modular, complex control works); modern information sources and computer equipment; own web site of the department responsible for the training of dentists; Internet connection; library with modern educational literature, scientific, reference and professional periodicals</p> <p>The official website <a href="http://www.tdmu.edu.ua">http://www.tdmu.edu.ua</a> contains information on educational programs, educational, scientific and educational activities, structural units, admission rules, contacts.</p> <p>The Scientific Library of the TDMU has more than 389669 copies of literature. The reading room has 30 computers and is equipped with wireless internet access. All library</p>



	resources are available through the university's website.
<b>9 - Academic mobility</b>	
<b>National Credit Mobility</b>	Acknowledging the results of studying in other educational institutions in the framework of academic mobility in accordance with the agreements of the TDMU
<b>International Credit Mobility</b>	Conduct international mobility within the Erasmus + and Erasmus Mundus Medea programs.
<b>Teaching foreign students of higher education</b>	Foreign students are trained in accordance with the requirements of the legislation



## 2. List of components of the educational-professional program and their logical consistency

### 2.1. List of components of EP

Code	Components of the educational program (academic disciplines, practices)	Number of credits	Form subset control
1	2	3	4
<b>Mandatory components of EP</b>			
<b>Cycle of disciplines of general preparation</b>			
MC 1.	Ukrainian language (professional direction)	3,00	Dif. credit
MC 2.	Foreign language (in professional direction)	3,00	Dif. credit
MC 3.	Latin language and medical terminology	3,00	Dif. credit
MC 4.	Philosophy	3,00	Dif. credit
MC 5.	Anatomy of man	11,00	Exam
MC 6.	Histology, cytology and embryology	7,00	Exam
MC 7.	Physiology	6,00	Exam
MC 8.	Biological and bioorganic chemistry	8,00	Exam
MC 9.	Microbiology, Virology and Immunology	5,00	Exam
<b>Cycle of training courses</b>			
MC 10.	Pathomorphology	6,00	Exam
MC 11.	Pathophysiology	6,00	Exam
MC 12.	Pharmacology	6,00	Exam
MC 13.	Propaedeutics of internal medicine	3,00	Credit
MC 14.	Propedeutics of therapeutic dentistry	4,00	Dif. credit
MC 15.	Clinical Anatomy and Operative Surgery	3,00	Credit
MC 16.	Prophylaxis of dental diseases	4,00	Dif. credit
MC 17.	Propedeutics of orthopedic stomatology	4,00	Dif. credit
MC 18.	Propedeutics of pediatric therapeutic dentistry	3,00	Credit
MC 19.	Internal medicine (including infectious diseases and epidemiology)	7,00	Exam
MC 20.	Surgery including oncology and neurosurgery	7,00	Credit
MC 21.	Social medicine, public health and the basics of evidence-based medicine	6,00	Credit
MC 22.	Orthodontics	9,00	Dif. credit
MC 23.	Radiology	3,00	Credit
MC 24.	Therapeutic dentistry	20,00	Exam
MC 25.	Surgical dentistry	20,00	Exam
MC 26.	Orthopedic stomatology, including implantology	20,00	Exam
MC 27.	Forensic medicine (dentistry). Medical Law of Ukraine	3,00	Credit
MC 28.	Pediatric therapeutic dentistry	9,00	Dif. credit

MC 29.	Children's Surgical Dentistry	6,00	Dif. credit
MC 30.	Emergency and emergency medical care	3,00	Credit
Total amount of required components:		152,00	
Total for the normative part is		201,00	
<b>Optional component of the EP</b>			
<b>Cycle of disciplines of general preparation</b>			
OC 1.	Foreign language	3,00	Credit
OC 2.	History of Ukraine and Ukrainian culture	3,00	Credit
OC 3.	Medical physics of diagnostic and medical equipment	4,00	Dif. credit
OC 4.	Medical Informatics	3,00	Credit
OC 5.	Medical biology	5,00	Exam
OC 6.	Medical Chemistry	4,00	Exam
OC 7.	Safety of life; Basics of Bioethics and Biosecurity	3,00	Credit
OC 8.	History of Medicine	3,00	Credit
OC 9.	Ethical Problems in Medicine	4,00	Credit
OC 10.	Physical Education credit		Credit
<b>Cycle of training courses</b>			
OC 11.	Side Effects of Drugs	3,00	Credit
OC 12.	The main technologies of making dentures	3,00	Credit
OC 13.	Phthysiology	3,00	Credit
OC 14.	Otorhinolaryngology	3,00	Credit
OC 15.	Training of reserve officers of the field of knowledge "Health". Specialty "Dentistry"	3,00	Dif. credit
OC 16.	Hygiene and Environment	3,00	Dif. credit
OC 17.	General medical training (ophthalmology, neurology, including neurostomatology, dermatology, venereology, psychiatry, narcology, medical psychology, physical rehabilitation, sports medicine, endocrinology)	8,00	Credit
OC 18.	Pediatrics	3,00	Credit
OC 19.	Obstetrics	3,00	Credit
OC 20.	Clinical Pharmacology	3,00	Credit
OC 21.	Fundamentals of aesthetic restoration of teeth	4,00	Credit
OC 22.	Modern technologies of solid prosthetics	4,00	Credit
Total sample components:		75,00	
MC 31.	Practical medical practice	5,00	Dif. credit
MC 32.	Industrial stomatology practice	11,00	Dif. credit
MC 33.	Production practice	6,00	Dif. credit
	State certification	2,00	
<b>THE BASIC SUMMARY OF THE EDUCATIONAL PROGRAM</b>		300,00	

**2.2. Structural-logical scheme of EPP  
Schedule of the study of components of EPP “Dentistry”**

Code	Components of the educational program (academic disciplines, course projects (work), practice, qualification work)
I semester	
MC 3.	Latin language and medical terminology
MC 4.	Philosophy
MC 5.	Anatomy of a person
MC 6.	Histology, cytology and embryology
OC 1.	Foreign language
OC 2.	History of Ukraine and Ukrainian culture
OC 3.	Medical physics of diagnostic and medical equipment
OC 5.	Medical biology
OC 6.	Medical chemistry
OC 7.	Safety of life; the basis of bioethics and biosecurity
OC 8.	History of Medicine
OC 10.	Physical education
II semester	
MC 1.	Ukrainian language (by professional direction)
MC 3.	Latin language and medical terminology
MC 5.	Anatomy of a person
MC 6.	Histology, cytology and embryology
MC 8.	Biological and bioorganic chemistry
OC 1.	Foreign language
OC 2.	History of Ukraine and Ukrainian culture
OC 3.	Medical physics of diagnostic and medical equipment
OC 5.	Medical biology
OC 9.	Ethical problems in medicine
OC 10.	Physical education
III semester	
MC 2.	Foreign language (in professional orientation)
MC 7.	Physiology
MC 8.	Biological and bioorganic chemistry
MC 9.	Microbiology, virology and immunology
MC 13.	Propedeutics of internal medicine
MC 14.	Propedeutics of therapeutic dentistry
MC 15.	Clinical anatomy and operative surgery
MC 18.	Propedeutics of pediatric therapeutic dentistry
OC 4.	Medical informatics
OC 10.	Physical education
OC 12.	The main technologies of making dentures
OC 16.	Hygiene and ecology

OC 15.	Training of reserve officers of the field of knowledge "Health Care". Specialty "Dentistry"
IV semester	
MC 7.	Physiology
MC 8.	Biological and bioorganic chemistry
MC 10.	Pathomorphology
MC 11.	Pathophysiology
MC 12.	Pharmacology
MC 14.	Propaedeutics of therapeutic dentistry
MC 17.	Propedeutics of orthopedic dentistry
OC 10.	Physical education
OC 15.	Training of reserve officers of the field of knowledge "Health Care". Specialty "Dentistry"
V semester	
MC 10.	Pathomorphology
MC 11.	Pathophysiology
MC 12.	Pharmacology
MC 16.	Prevention of dental diseases
MC 21.	Social medicine, organization of health care
MC 24.	Therapeutic dentistry
MC 25.	Surgical dentistry
MC 26.	Orthopedic stomatology, including implantology
OC 11.	Side effects of drugs
VI semester	
MC 16.	Prevention of dental diseases
MC 20.	Surgery including oncology and neurosurgery
MC 22.	Orthodontics
MC 23.	Radiology
MC 24.	Therapeutic dentistry
MC 25.	Surgical dentistry
MC 26.	Orthopedic dentistry
MC 27.	Forensic medicine (dentistry) and jurisprudence
VII semester	
MC 19.	Internal medicine (including infectious diseases and epidemiology)
MC 22.	Orthodontics
MC 24.	Therapeutic dentistry
MC 25.	Surgical dentistry
MC 26.	Orthopedic stomatology, including implantology
MC 28.	Pediatric therapeutic dentistry
MC 29.	Children's Surgical Dentistry
OC 19.	Obstetrics
OC 22.	Modern technologies of solid prosthetics
VIII semester	



MC 19.	Internal medicine (including infectious diseases and epidemiology)
MC 20.	Surgery including oncology and neurosurgery
MC 24.	Therapeutic dentistry
MC 26.	Orthopedic dentistry
MC 28.	Pediatric therapeutic dentistry
OC 13.	Phthysiology
OC 14.	Otorhinolaryngology
OC 17.	General medical training (ophthalmology, neurology, including neurostomatology, dermatology, venereology, psychiatry, narcology, medical psychology, physical rehabilitation, sports medicine, endocrinology)
OC 18.	Pediatrics
OC 20.	Clinical pharmacology
IX semester	
MC 22.	Orthodontics
MC 24.	Therapeutic dentistry
MC 25.	Surgical dentistry
MC 26.	Orthopedic dentistry
MC 28.	Pediatric therapeutic dentistry
MC 29.	Children's Surgical Dentistry
OC 21.	Fundamentals of aesthetic restoration of teeth
X semester	
MC 24.	Therapeutic dentistry
MC 25.	Surgical dentistry
MC 26.	Orthopedic stomatology, including implantology
MC 28.	Pediatric therapeutic dentistry
MC 30.	Emergency and emergency medical care



## ADDITION

### List 1 (Syndromes and Symptoms)

1. anemia
2. bite anomaly
3. asymmetry of the face
4. Pain in movements of the lower jaw
5. pain in the area of the heart
6. pain in the teeth
7. abdominal pain
8. pain in the soft tissues of the maxillofacial area
9. pain in the bones of the face
10. loss of consciousness
11. loss of tooth-epithelial attachment
12. hemorrhagic syndrome
13. Hyperesthesia
14. gipersalivation
15. headache
16. Cheerleading (open, closed)
17. defects of the crown part of the tooth
18. deformation of the bones of the facial skeleton
19. bite deformation
20. jaundice
21. suffocation and asphyxiation
22. dizziness
23. changed the color of the teeth
24. changed the color of the skin, the mucous membrane of the oral cavity
25. changes between the alveolar heights
26. convergence (divergence) of teeth
27. fever
28. lymphadenopathy
29. macrohelium
30. maceration of the corners of the mouth
31. Meningeal syndrome
32. edema syndrome
33. nail bedding
34. presence of inflammatory, muscle-like and tumor infiltration in the maxillofacial area
35. the presence of elements of lesions on the skin and the mucous membrane of the oral cavity
36. presence of periodontal pockets
37. presence (non-enlargement) of slit defects of the face
38. paresis, paralysis of nerves of maxillofacial localization
39. violation of movements of the lower jaw
40. violation of the proportions of the face

41. taste disturbance
42. disturbance of sensitivity of tissues of the maxillofacial area
43. tumors and tumor-like neoplasms in the maxillofacial area
44. fistulous stroke
45. mobility of the fractures of the bones of the facial skeleton
46. abnormal teeth movement
47. recession is clear
48. symptom of parchment crunch
49. dryness of the mucous membrane of the oral cavity
50. partial and complete loss of teeth
51. fluctuation
52. cyanosis (diffuse and local)

## **List 2 (dental diseases)**

### **1. Therapeutic dentistry:**

#### **A) Non-carious lesions of solid teeth:**

1. Hyperesthesia
2. hypoplasia, hyperplasia of enamel
3. fluorosis
4. erosion of the hard tissues of the tooth
5. wedge-shaped defect
6. pathological abrasion of teeth
7. necrosis of hard tooth tissues
8. discolorite
9. traumatic damage to the teeth

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

10. caries
11. pulpitis
12. periodontitis

#### **B) Periodontal disease:**

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

#### **D) Disease of the mucous membrane of the oral cavity:**

18. traumatic lesions of SOR
19. autoinfectious diseases SOPR (acute aphthous stomatitis, herpetic, ulcerative-necrotic, candidiasis lesions of SOPR)
20. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhoea)

21. SOPR disease in dermatosis with an autoimmune component of pathogenesis (pustular, red scaly lichen, red lupus erythematosus)
22. changes of SOPR with allergic lesions
23. changes in SOPR with intoxication with salts of heavy metals
24. symptomatic viral diseases (AIDS, flu, foot and mouth disease, infectious mononucleosis)
25. symptomatic manifestations of SOPR diseases of the gastrointestinal tract (peptic ulcer disease, gastritis, enteritis, colitis, chronic hepatitis)
26. symptomatic manifestations of SOPR diseases of the cardiovascular system (circulatory failure, essential hypertension)
27. Symptomatic manifestations of SOD diseases of the endocrine system (acromegaly, Itsenko-Cushing's syndrome, diabetes mellitus, hyperthyroidism and hypothyroidism)
28. Symptomatic manifestations of SIDS in blood diseases (anemia, thrombocytopenic purpura, leukemia)
29. symptomatic manifestations of hypothyroidism and avitaminosis in SOPR
30. diseases and abnormalities of the tongue (desquamative glossitis, rhombic glossitis, folded tongue, hairy tongue)
31. neurogenic diseases of the tongue (glossalgia, stomalgia, ganglionitis)
32. kellytes independent and symptomatic (actinic, meteorological, contact allergic, glandular, exfoliative, eczematous, atopic)

**E) Peregruk SORR and red lip of the lips:**

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

**2. Dentistry of childhood:**

**A) Pathology of teeth:**

35. enamel hypoplasia (systemic and local)
36. endemic fluorosis
37. Congenital malformations in the development of solid teeth tissues in children
38. Caries and its complications in temporary and permanent teeth in children
39. traumatic tooth defeat

**B) Periodontal pathology:**

40. gingivitis
41. idiopathic periodontal diseases
42. Periodontitis

**B) Mucosal pathology of the oral cavity:**

43. Allergic diseases of SOR
44. anomalies and diseases of the tongue
45. fungal lesions of SORR in children

- 46. changes of SOPs in systemic diseases
- 47. changes in SOPs with specific illnesses
- 48. manifestations of acute viral and infectious diseases in SOD (diphtheria, chicken pox, measles, infectious mononucleosis, scarlet fever).
- 49. SIDS virus diseases (acute herpetic stomatitis, recurrent herpetic stomatitis, scapular lichen)
- 50. independent and symptomatic cheilitis, glossitis

**D) Inflammatory diseases of maxillofacial area:**

- 51. periostitis
- 52. diseases of temporomandibular joint
- 53. diseases of salivary glands
- 54. lymphadenitis
- 55. neodontogenic inflammatory processes of soft tissues (boils, carbuncles, bashiha)
- 56. osteomyelitis of jaws
- 57. specific inflammatory processes (tuberculosis, syphilis, actinomycosis)
- 58. phlegmons and abscesses

**E) Injuries of maxillofacial area:**

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

**F) Tumors and swellings of maxillofacial area:**

- 60. benign tumors and swellings of soft tissues and bones of the face
- 61. malignant tumors of soft tissues and bones of the face

**G) Congenital facial malformations:**

- 62. non-adhesions of upper lip, alveolar appendix, solid and soft palates (isolated and transverse)
- 63. abnormalities of soft tissues attachment of the oral cavity (lip bridges, tongue of shallow prunes of the oral cavity)

**3. Surgical dentistry:**

**A) Inflammatory diseases of maxillofacial area:**

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

**B) Injuries of maxillofacial area:**

- 72. injuries of the teeth and facial bones
- 73. injuries of soft tissues, tongue and mucous membrane of the oral cavity
- 74. fire and non-fire injuries to the tissues of maxillofacial localization; cranio-maxillofacial injuries
- 75. thermal, chemical, electrical and radial damages of tissues of maxillofacial localization; combined trauma

### **C) Diseases of temporomandibular joint:**

- 76. arthritis, arthrosis
- 77. ankylosis
- 78. CNS dysfunction, dislocation and contracture of the mandible

### **D) Tumors and swellings of maxillofacial area:**

- 79. benign tumors and swellings of oral mucosa, salivary glands, soft tissues of maxillofacial localization and neck, facial bones
- 80. precancerous diseases and malignant tumors of oral mucosa, salivary glands, soft tissues of maxillofacial localization and neck, facial bones

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

- 81. abnormalities of teeth development, congenital jaw deformations, defects and deformations of the bones of the facial skeleton, combined anomalies and deformations of the cerebral and facial skeleton and tooth-jaw system
- 82. birth defects and deformations of the soft tissues of the head and neck
- 83. acquired defects and deformations of soft tissues of maxillofacial localization and neck, bones of the facial skeleton
- 84. age-related changes in soft tissues of the face and neck, vertical and horizontal atrophy of the alveolar processes of the jaw bones, adentia, gingival recession
- 85. cosmetic defects and deformations of the organs and tissues of the head and neck

### **E) Dysplastic diseases of maxillofacial localization**

- 86. dystrophic diseases of periodontal tissues
- 87. sialosis
- 88. dysplastic diseases of the soft tissues of the head and neck

### **E) Neurostomatological diseases**

- 89. Neuritis, neuralgia of trigeminal nerve

## **4. Orthopedic dentistry:**

- 90. partial teeth loss
  - a) distally limited defects of dentition
  - b) distally unlimited defects of dentition
- 91. complete teeth loss
- 92. excessive teeth abrasion
- 93. defects of the tooth crown
- 94. complete destruction of the tooth crown
- 95. secondary deformation of dentition
- 96. parafunctional activity of chewing muscles
- 97. bruxism
- 98. injuries and defects of the jaw, nose, ears, orbits, combined defects
- 99. STD disease

## **5. Orthodontics**

### **A) anomalies of individual teeth:**

- 100. size
- 101. shape



102. quantity

**B) anomalies of the teeth position:**

103. diastema and trema

104. crowding of teeth

105. tortoanomaly

106. vestibule-oral position of the teeth, dystopia, retention, supra-infraposition

**B) sagittal bite anomalies:**

107. progeny (mesial) (skeletal, dental alveolar)

108. prognathia (distal) (skeletal, dental alveolar)

**D) vertical bite anomalies:**

109. open (skeletal, dental alveolar)

110. deep (skeletal, dental alveolar)

**E) transverse bite anomalies:**

111. cross-sectional (one-or two-sided, with displacement, or without displacement of the mandible) (skeletal, dental alveolar).

**List 2.1 (main dental diseases)**

**A. Teeth Pathology:**

1. noncarious teeth lesions

2. caries of temporary and permanent teeth

3. diseases of the pulp of temporary and permanent teeth

4. periodontitis of temporary and permanent teeth

**B. Periodontal tissue pathology:**

5. papillitis

6. gingivitis

7. periodontitis

8. periodontal disease

**C. Pathology of oral cavity mucosa:**

9. traumatic lesions

10. autoinfectious diseases of oral mucosa (acute aphthous stomatitis, herpetic, ulcerative-necrotic, candidiasis lesions of oral mucosa)

11. allergic lesions

**D. Inflammatory diseases of maxillofacial area:**

12. alveolitis

13. pericoronitis

14. periositis

15. lymphadenitis

**E. Injuries of maxillofacial area:**

16. traumatic damage to soft facial tissues

17. acute and usual dislocation of the lower jaw

18. uncomplicated fractures of the upper and lower jaws

**F. Orthopedic Pathology:**

19. defects of the tooth crown

20. partial and complete absence of teeth

### **3. Physiological conditions and somatic diseases requiring special tactics of patient management**

#### **A) Physiological conditions:**

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. rheumatism

8. infective endocarditis

9. heart defects

10. heart failure

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

11. acute psychosis, including alcohol delirium

12. epilepsy

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

13. bronchial asthma

#### **F) Diseases of the endocrine system:**

14. diabetes mellitus

15. diseases of the thyroid gland

#### **G) Pathology of the musculoskeletal system and connective tissue:**

16. systemic vasculitis (hemorrhagic vasculitis)

#### **H) Infectious and parasitic diseases:**

17. HIV / AIDS

18. viral hepatitis

19. diphtheria

20. catalepsy

21. anthrax

22. tuberculosis of different localization

23. cholera

24. plague

25. gonorrhoea

26. syphilis

#### **List 4 (urgent conditions):**

1. asphyxia (including newborns)

2. hypertensive crisis

3. acute respiratory insufficiency

4. acute cardiac insufficiency

5. acute poisoning

6. "sharp" stomach
7. electric trauma
8. fainting
9. external bleeding
10. collapse
11. coma
12. edema of the larynx
13. Quincke's edema
14. burns and frostbite
15. cramps
16. drowning
17. physiological childbirth
18. shock
19. bone injury

**List 5 (laboratory and instrumental studies):**

1. analysis of tumors puncture of soft tissues and bones
2. histomorphological study of biopsy of lymph nodes, salivary glands, mucous membranes, soft tissues
3. analysis of the blood glucose content
4. study of control-diagnostic models of jaws
5. study of the functions of COPD (breathing, swallowing, speech, chewing and SNCH)
6. general blood test
7. general urine analysis
8. biochemical blood test
9. immunological study of dental diseases
10. coagulogram analysis
11. interpretation of radiological diagnostics of the skull, dental and maxillofacial apparatus, salivary glands
12. cytological examination of organs and tissues of the dental and maxillofacial apparatus
13. microbiological study of oral fluid, smears of oral mucosa, periodontal disease
14. functional diagnostics of the oral cavity (luminescent, reoparodontography, stomatoscopy, capillaroscopy, vacuum test, etc.).

**List 6 (medical manipulations)**

1. to perform artificial respiration;
2. to carry out an indirect heart massage;
3. to fix the tongue;
4. to control temporary external bleeding;
5. to conduct primary surgical treatment of wounds;
6. to rinse the stomach, intestine;
7. to perform transport immobilization;

8. to inject medicinal substances (intramuscular, subcutaneous, jet and drip intravenous);
9. to measure blood pressure;
10. to carry out primary toilet of the newborn;
11. to determine blood group, Rh

#### **List 7 (dental manipulations)**

1. alveolotomy
2. amputation of the pulp of temporary and permanent teeth
3. teeth whitening
4. selective teeth polishing, equalization of occlusal surface, osteochondritis
5. manufacture of temporary tires and treading for teeth fractures, alveolar sprouts and jaws
6. determining the acidity of the teeth enamel
7. determination and fixation of the central ratio
8. fitting of the mandible dislocation
9. fissure sealing
10. diagnostic use of dyes
11. diathermocoagulation
12. extirpation of the pulp of temporary and permanent teeth
13. electrodentodiagnostics
14. instillation of medications in periodontal pockets
15. local anesthesia in the treatment of dental diseases by various methods (application, infiltration, conductivity)
16. removal of artificial crowns
17. bleeding control after tooth extraction
18. impregnation of hard tissues of temporary teeth
19. correction of partial and complete removable dentures
20. curettage of the hole
21. curettage of periodontal pockets (open, closed)
22. drug treatment of the affected areas of the mucous membrane of the oral cavity and periodontal disease
23. applying and removing of temporary seals and sealing bandages when treating caries, pulpitis, periodontitis
24. receiving of anatomical and functional imprints with different imprint material
25. receiving of models of dentitions and prosthetic beds
26. receiving of control-diagnostic models
27. control of the design of prosthesis with partial and complete absence of teeth
28. fillings of carious cavities of temporary and permanent teeth with different filling materials
29. fillings of root canals of temporary and permanent teeth with different materials
30. teeth covering with therapeutic and preventive varnishes, gels
31. preparation of teeth for metal stamped and plastic crown
32. preparation and treatment of root canals of temporary and permanent teeth









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GC – general competences of the specialty, PC – professional competence, PEO – program educational outcomes; • - acquired competence

<p align="center"><b>Requirements for availability of the system of internal quality assurance in higher education</b></p> <p align="center">(Determined in accordance with European Standards and Recommendations for Quality Assurance in Higher Education (ESG) and the Article 16 of the Law of Ukraine "On Higher Education")</p>		
1	<p><i>Principles and procedures for ensuring the quality of education</i></p>	<p>Defined and legitimized in the documents: the Law of Ukraine "On Higher Education" dated 01.07.2014 № 1556-VII, "Standards and Recommendations for Quality Assurance in European Higher Education Area" of the European Association for the Quality Assurance of Higher Education, the National Standard of Ukraine "Systems of quality management" DSTU ISO 9001:2015.</p> <p>Principles of education quality assurance:</p> <ul style="list-style-type: none"> <li>- compliance with European and national standards of higher education;</li> <li>- autonomy of a higher educational institution, which is responsible for ensuring the quality of educational</li> </ul>

		<p>activities and the quality of higher education;</p> <ul style="list-style-type: none"> <li>- monitoring of quality;</li> <li>- a systematic approach that involves quality management at all stages of the educational process;</li> <li>- continuous improvement of the quality of educational process;</li> <li>- publicity of information at all stages of quality assurance.</li> </ul> <p>Education quality assurance procedures:</p> <ul style="list-style-type: none"> <li>- providing of research and educational environment;</li> <li>- improvement of planning of educational activities: monitoring and periodic updating of the educational program;</li> <li>- qualitative screening of students of master's degree level;</li> <li>- qualitative screening of teaching staff;</li> <li>- improvement of the facilities and resources, scientific and methodological bases for the implementation of the educational program;</li> <li>- provision of necessary resources for financing of training of students of master's degree level;</li> <li>- development of information systems in order to improve the management of the educational process;</li> <li>- ensuring the publicity of information about the activities of universities;</li> <li>- establishing an effective system of prevention and detection of academic plagiarism in scientific and methodological works of university staff and students of master's degree level;</li> <li>- creation of an effective system of corruption and bribery prevention in the educational process of universities.</li> </ul>
2	<p><i>Monitoring and review of educational programs</i></p>	<p>The educational process at bachelor's degree level is carried out in accordance with the standard of higher education and the educational-professional program developed on its basis.</p> <p>The monitoring and review of the educational program is conducted in accordance with the provisions developed by the university.</p> <p>The criteria for revision of the educational program are formulated as a result of feedback from scientific and pedagogical workers, students, employers, and as a result of forecasting the development of the domain, the needs</p>

		<p>of society and the labor market.</p> <p>The indicators of modernity of the educational program are:</p> <ul style="list-style-type: none"> <li>- - updating according to the current state of a health care system;</li> <li>- - participation of employers in the development and implementation of changes in the educational program;</li> <li>- - positive opinions of reviewers about the educational program;</li> <li>- - the level of satisfaction of students with the content of the educational program;</li> <li>- - positive feedback from employers on the level of graduates' training.</li> </ul>
3	<i>Prevention and Detection of Academic Plagiarism</i>	<ul style="list-style-type: none"> <li>- team building at higher educational institutions that does not accept and does not allow academic dishonesty;</li> <li>- creating conditions for intolerance to cases of academic plagiarism;</li> <li>- creation of expert commissions for the discovery of academic plagiarism in scientific articles, monographs, textbooks, educational and methodical publications, dissertations, etc.;</li> <li>- identifying and prosecuting those responsible for academic plagiarism.</li> </ul>

**Guarantor of the syllabus, project team manager:**

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