EDUCATIONAL AND PROFESSIONAL PROGRAM
“DENTISTRY”
for the second (Master) level of higher education
in specialty 221 “Dentistry”
field of knowledge 22 “Health Care”
Qualification: Dentist

Approved by the Academic Council of KyIU
Chairman of the Academic Council of KyIU
prof. Kh.V. Khachaturyan
(Minutes No 1 of 29 August 2019)

Educational program enters into force
from September 2, 2019

President of KyIU
prof. Kh.V. Khachaturyan
(order No 290 of 30 August 2019)

Kyiv – 2019
FOREWORD

Educational and professional program is a system of educational components at a certain level of higher education within the specialty, which determines the requirements for the educational level of persons who can start training under this program, the list of courses and logical sequence of their study, the number of ECTS credits required to fulfill this program, as well as expected learning outcomes (competencies) that a Master Degree applicant should obtain.

Educational and professional program "Dentistry" in the second (Master) level of higher education in specialty 221 "Dentistry" of the field of knowledge 22 "Health care" was developed by the project team of the Faculty of Dentistry of Kyiv International University consisting of:

**Rostyslav M. Stupnytskyi**, Professor of the Department of Surgical, Orthopedic Dentistry and Orthodontics of Kyiv International University, Doctor of Medical Sciences, Professor, Honored Doctor of Ukraine;

**Ihor S. Mashchenko**, Professor of the Department of Dentistry of Kyiv International University, Doctor of Medical Sciences, Professor;

**Ihor O. Molozhanov**, Associate Professor of the Department of Dentistry of Kyiv International University, Candidate of Medical Sciences, Associate Professor.

Reviewers:

**Oleksii V. Pavlenko**, Doctor of Medical Sciences, Professor, Academician of the Academy of Higher Education Sciences of Ukraine, Honored Worker of Science and Technology of Ukraine;

**Tetiana O. Slautynska**, Director of “Scientific and Practical Center of Dentistry and Medicine “ASKLEPIOS”, LLC.
### 1. Profile of the educational and professional program “Dentistry” in specialty 221 “Dentistry” field of knowledge 22 “Health care”

| Full name of the establishment of higher education and structural subdivision | Private Higher Education Institution “Kyiv International University”  
Faculty of Dentistry  
Department of Dentistry  
Department of Surgical, Orthopedic Dentistry and Orthodontics |
|---|
| Level of higher education and qualification in the language of the original | Level of higher education – second (Master)  
Educational Qualification – Master of Dentistry  
Qualification in diploma – Master of Dentistry, Dentist |
| Official name of the educational program | Educational and professional program of the second (Master) level of higher education "Dentistry" |
| Type of diploma and volume of educational program | Master Diploma, one-specialty program, 300 ECTS credits, education period is 4 years 10 months |
| Accreditation | Planned for obtaining in September 2020 |
| Cycle/Level | NQF of Ukraine – level 8 |
| Preconditions | Selective entry is carried out on the basis of entrance tests: in the case of admission to the first course - on the basis of complete general secondary education; in the case of admission to the second/third year – on the basis of the educational qualification level of a junior specialist and/or previously obtained higher education degree |
| Languages of teaching | Ukrainian, English |
| Education Period | 4 years 10 months |
| Internet address for the permanent description of the educational program | www.kymu.edu.ua |

### 2 – Purpose of the Educational Program

Formation of the ability to apply the acquired knowledge, skills, understanding the essence of general, professional and practical training in order to solve typical tasks during dentist’s professional activity in the field of health care when occupying the relevant post, the scope of which is provided by certain lists of syndromes and symptoms of diseases, dental diseases, physiological conditions and somatic diseases requiring special tactics for patient management, emergency conditions, laboratory and instrumental studies, medical and dental procedures. Features of educational and professional program “Dentistry”: the main components of the educational process within the educational program “Dentistry” are practical classes at the University Clinic, during which students are provided with the opportunity to master modern preventive, therapeutic and diagnostic dental technologies. Combination of modern material and technical resources of the clinical base and professional methodological approach to teaching main professional courses on the basis of evidence-based medicine makes it possible to carry out profound training of a qualified specialist in the specialty 221 "Dentistry" of the field of knowledge 22 "Health care".

### 3 – Educational Program Characteristics

| Subject area (Field of Knowledge, Specialty, Specialization (if any)) | Field of Knowledge 22 “Health care”  
Specialty 221 “Dentistry” |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Orientation of the educational program</td>
</tr>
<tr>
<td>Main focus of the educational program</td>
</tr>
</tbody>
</table>
| educational program and specialization | specialty 221 “Dentistry”  
Key words: health care, medicine, dentistry, dentist, orthodontics, orthopedics, surgery |
| Substantiation of the program | The current requirements for training a dentist in higher education institutions are time-bound and should be oriented towards integrating Ukrainian dentistry into the best international practices. The relevance of the issues of ensuring good quality training for dentists in Ukraine especially increases in the period of reforming the healthcare sector, when the requirements for the quality of medical services increase. Changes in health care sector require the formation of the latest international scientific and pedagogical approaches in the process of dentists’ training with the aim of free orientation in the global medical knowledge area, ability to pathogenetically substantiate the of patient’s treatment plan on the grounds of evidence-based medicine and own medical experience; motivation for continuous self-improvement and professional continuous development throughout the professional life; mastering modern perspective methods of dental diseases prevention and treatment. |
| Peculiarities of the program | **Object of activity:** preservation of health, dental in particular, prevention and treatment of human dental diseases  
**Learning Objectives:** formation of the ability to apply acquired knowledge, skills, abilities and understanding the humanities, fundamental and professionally oriented courses to solve typical tasks during dentist’s professional activity in the field of health care when occupying the relevant post, the scope of which is provided by certain lists of syndromes and symptoms of diseases, dental diseases, physiological conditions and somatic diseases requiring special tactics for patient management, emergency conditions, laboratory and instrumental studies, medical and dental procedures.  
**Theoretical content of the subject area:**  
educational normative and optional courses of general and professional training cycles, in-depth study of Ukrainian and foreign language as an optional subject in order to prepare for the unified state qualification exam.  
**Methods, techniques and technologies:** a graduate must have professional knowledge and be able to carry out a diagnostic process, to identify the principal symptoms and syndromes, to determine preliminary diagnosis, to conduct differential diagnosis, to formulate final clinical diagnosis of dental diseases under the supervision of the chief doctor, to know dental diseases treatment and prevention principles, to treat the main dental diseases by making a well-grounded decision based on existing algorithms  
**Tools and equipment (objects and devices that a student learns to use):** a graduate must use modern diagnostic, medical and other objects and devices for carrying out professional activity |
| 4 - Suitability of graduates for employment and further education | A specialist is prepared to work under the NACE SC [State Classifier] 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 training in an internship (residency) a specialist obtains qualification of a Dentist who is able to work as specified in SC 003: 2010 and may occupy the appropriate medical position: |
Upon completion of the internship (residency) and obtaining qualification of a Dentist, specialists can complete specialization and work as a professional Dentist of a certain specialty, which is currently specified in the National Classifier of Ukraine “Occupational qualifier”, to occupy an appropriate medical position. 

Further education

Having completed an educational and professional program “Dentistry” in the specialty “Dentistry”, a specialist is able to perform professional work as:
- a medical intern (OQ code - 3229)
- a trainee doctor (OQ code - 3221)

and should enroll in postgraduate programs (internship, residency), where training is provided according to the educational training programs of a dentist.

Upon completion of the internship (residency) in the specialty "Dentistry" a specialist has the right to:
- complete specialization;
- continue postgraduate studies in the doctoral degree program;
- acquire another specialty, which allows to occupy the relevant medical position, and to perform the relevant professional work

5 - Teaching and Evaluation

Teaching and learning

Lectures, seminars, practical classes in small groups, including on clinical bases, practice, consultations with professors. Student-centered learning, self-study, problem-oriented learning, nursing and medical training

Evaluation

Final module control, credits, differentiated credits, oral and written exams, certification in the form of a single standardized test examination (integrated licensing examination) and a combined structured clinical examination (OSKI)

6 - Program Competencies

Integral competence

Ability to solve complex problems and problems in the field of health care in the specialty "Dentistry" during professional activity or in the process of education, which involves conducting research and/or implementing innovations and is characterized by uncertain conditions and requirements

General Competencies (GC)

<p>| GC 1 | Ability to abstract thinking, analysis and synthesis; ability to learn and to be trained according to the up-to-date requirements |
| GC 2 | Knowledge and understanding of the essence of the subject industry and professional activity |
| GC 3 | Ability to apply knowledge in practical situations |
| GC 4 | Ability to communicate in the state language both verbally and in writing |
| GC 5 | Ability to communicate in English |
| GC 6 | Information and communication technology skills |
| GC 7 | Ability to search, process and analyze information from various sources |
| GC 8 | Ability to adapt and work in a new situation |
| GC 9 | Ability to identify, put and solve problems |
| GC 10 | Ability to be critical and self-critical |</p>
<table>
<thead>
<tr>
<th>GC 11</th>
<th>Ability to work in a team</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 12</td>
<td>Desire to save the environment</td>
</tr>
<tr>
<td>GC 13</td>
<td>Ability to act in a socially responsible and conscious manner</td>
</tr>
<tr>
<td>GC 14</td>
<td>Ability to implement rights and responsibilities as a member of society, to be aware of the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, human rights and freedoms in general and such of a Ukrainian citizen in particular.</td>
</tr>
<tr>
<td>GC 15</td>
<td>Ability to preserve and enhance moral, cultural, scientific values and achievements of the society on the basis of understanding history and subject area development patterns, its place in the general system of knowledge about nature and society and in the development of society and technology, to use different types and forms of motor activity for active rest and healthy living.</td>
</tr>
<tr>
<td>GC 16</td>
<td>Ability to choose a communication strategy</td>
</tr>
<tr>
<td>GC 17</td>
<td>Interpersonal skills</td>
</tr>
<tr>
<td>GC 18</td>
<td>Ability to act on the basis of ethical considerations (motives)</td>
</tr>
<tr>
<td>GC 19</td>
<td>Skills for safe practice</td>
</tr>
<tr>
<td>GC 20</td>
<td>Ability to assess and ensure the quality of work performed</td>
</tr>
</tbody>
</table>

**Professional competencies (PC)**

| PC 1 | Ability to collect medical information about a patient's condition and analyze clinical data |
| PC 2 | Ability to interpret the result of laboratory and instrumental research |
| PC 3 | Ability to make diagnosis: determine preliminary, clinical, definitive, concomitant diagnoses, urgent conditions |
| PC 4 | Ability to plan and carry out activities to prevent diseases of the oral and maxillofacial organs and tissues |
| PC 5 | Ability to design the process of providing medical care: determine the approaches, make a plan, specify types and principles of treatment of the oral cavity and maxillofacial organs and tissues diseases |
| PC 6 | Ability to determine the rational mode of work, rest, diet in patients when treating diseases of the oral cavity and maxillofacial organs and tissues on the basis of preliminary or final clinical diagnosis by making a reasonable decision according to existing algorithms and standard schemes |
| PC 7 | Ability to determine the tactics of managing patients with diseases of the oral cavity and maxillofacial organs and tissues with concomitant somatic diseases |
| PC 8 | Ability to perform medical and dental procedures |
| PC 9 | Ability to treat major dental diseases of the oral and maxillofacial organs and tissues |
| PC 10 | Ability to organize and carry out medical and evacuation measures among the population, military personnel, in conditions of emergency, including martial law, during the detailed stages of medical evacuation, taking into account the existing system of medical evacuation support |
| PC 11 | Ability to determine tactics, methods and provide emergency medical care in any circumstances based on a diagnosis of an urgent condition in a limited time period |
| PC 12 | Ability to organize and conduct screening examination in dentistry |
| PC 13 | Ability to evaluate the impact of the environment on the health of the population (individual, family, mass) |
| PC 14 | Ability to maintain regulatory medical records |
| PC 15 | Processing of state, social and medical information |
| PC 16 | Ability to organize and conduct rehabilitation activities and care of patients with diseases of the oral cavity organs and maxillofacial area |
| PC 17 | Ability to provide legal support for one's own professional activity |
| PC 18 | Ability to provide home-based care using tactical medicine protocols |
| PC 19 | Ability to diagnose urgent conditions in all circumstances (at home, on the street, in hospital), in cases of emergency, martial law, lack of information and limited time period |
| PC 20 | Ability to plan and implement dental disease preventive measures among the population to prevent the spread of dental disease |
| PC 21 | Ability to analyze epidemiological status and carry out measures of mass and individual, general and local drug and non-drug prevention of dental diseases |
| PC 22 | Ability to analyze and evaluate state, social and medical information using standardized approaches and computer information technology |

8 - Program Learning Outcomes (PLO)

| PLO 1 | Identify key clinical symptoms and syndromes (see list 1); using standard methods and taking into account preliminary data of the patient's anamnesis, data of the patient's examination, knowledge about the person, his/her organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of dental disease (see list 2) |
| PLO 2 | Collect information on the general condition of the patient, to evaluate the psychomotor and physical development of the patient, the state of the maxillofacial organs, based on the results of laboratory and instrumental studies, to evaluate information on the diagnosis (see list 5) |
| PLO 3 | Assign and analyze additional (compulsory and optional) examination methods (laboratory, x-ray, functional and/or instrumental) according to the list 5, patients with diseases of the oral and maxillofacial organs for differential diagnosis of diseases (see list 2) |
| PLO 4 | Determine the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasonable decision and logical analysis of the received subjective and objective data of the clinical, additional examination, differential diagnosis under the supervision of a chief doctor in a medical institution (see list 2.1) |
| PLO 5 | Diagnose urgent conditions in all circumstances (at home, on the street, in hospital), in cases of emergency, martial law, lack of information and limited time period (see list 4) |
| PLO 6 | Plan and implement dental disease preventive measures among the population to prevent the spread of dental disease |
| PLO 7 | Analyze epidemiological status and carry out measures of mass and individual, general and local drug and non-drug prevention of dental diseases |
| PLO 8 | Determine the nature of dental treatment (see list 2) by making a reasonable decision based on existing algorithms and standard schemes |
| PLO 9 | Determine the rational mode of work, rest, diet in patients when treating dental diseases (see list 2) on the basis of preliminary or final clinical diagnosis by making a reasonable decision according to existing algorithms and standard schemes |
| PLO 10 | Determine the tactics of managing a dental patient in somatic pathology (see list 3) by making a reasonable decision according to existing algorithms and standard schemes |
| PLO 11 | Conduct treatment of major dental diseases according to existing algorithms and standard schemes under the supervision of a chief doctor in a medical institution (see list 2.1) |
| PLO 12 | Organize and carry out medical and evacuation measures among the population, military personnel, in conditions of emergency, including martial law, during the detailed stages of medical evacuation, taking into account the existing system of medical evacuation support |
| PLO 13 | Determine tactics of providing emergency medical care using recommended algorithms in any circumstances based on a diagnosis of an urgent condition in a limited time period (see list 4) |
| PLO 14 | Analyze and evaluate state, social and medical information using standardized approaches and computer information technology |
| PLO 15 | Evaluate the impact of the environment on the health of the population within the medical establishment using standard methods |
| PLO 16 | Perform medical manipulations on the basis of preliminary and/or final clinical diagnosis (see lists 2, 2.1) for different segments of the population and under different conditions (see list 6) |
| PLO 17 | Perform medical dental manipulations on the basis of preliminary and/or final clinical diagnosis (see lists 2, 2.1) for different segments of the population and under different conditions (see list 7) |
| PLO 18 | Manage emergency care procedures using standard schemes in any circumstances based on a diagnosis of an urgent condition (see list 4) in a limited time period (see lists 6, 7) |
| PLO 19 | Formulate goals and determine the structure of personal activity based on the result of certain social and personal needs analysis |
| PLO 20 | Maintain a healthy lifestyle, use self-regulation and self-control techniques |
| PLO 21 | Be aware of and be guided in their activities by civil rights, freedoms and responsibilities, raise personal cultural awareness |
| PLO 22 | Adhere to the requirements of ethics, bioethics and deontology in his/her professional activity |
| PLO 23 | Organize the required level of individual security (his/her own and the people he/she care for) in case of typical dangerous situations in the individual field of activity |
| PLO 24 | Apply forms, methods of sanitary-educational work and use them for hygienic training taking into account region the peculiarities |
| PLO 25 | Use modern methods of prevention, diagnosis and treatment of the oral cavity and maxillofacial area organs and tissues diseases with patient-orientation |

### 8 - Resources for Program Implementation

**Staffing**

Compliance with licensing requirements:
- Private Higher Education Institution “Kyiv International University” has Faculty of Dentistry and the following Departments: Department of dentistry, Department of Surgical, Orthopedic Dentistry and Orthodontics, which are responsible for the preparation of higher education applicants; a working group (project group) of scientific and pedagogical staff, which is responsible for the preparation of higher education applicants of a certain specialty, consisting of three people with a scientific degree and academic title, one of them should be a doctor of science and/or professor;
- the head of the project team (guarantor of the educational program) has a scientific degree, as well as at least 10 years of scientific and pedagogical and/or scientific work;
- one of the members of the project team speaks English at the B2 level according to the pan-European language education guidelines;

- a group providing educational activity, the members of which belong to scientific and pedagogical or scientific staff for whom educational establishment is the main place of work and who are qualified according to their specialty and who do not (did not) belong to any group providing educational activity of the above mentioned or other establishment of higher education in the current semester;

- the amount of those who have a scientific degree and/or academic title is no less than 60%;

- the amount of those who have a Ph.D. degree and/or a rank of professor is no less than 20%.

Scientific and pedagogical and scientific staff who carry out the educational process have an experience of scientific and pedagogical activity for more than two years and the level of their scientific and professional activity, which is certified by the fulfillment of at least four types and results (subparagraphs 1-18 of paragraph 30 of the License Terms).

Employment contracts with all scientific and pedagogical staff as well as orders for their employment are available.

| Material and technical resources | Educational process takes place in bright rooms built according to the European standards, equipped with the latest technologies, video projectors, plasma TVs. Multimedia equipment for simultaneous use during lectures, seminars and practical classes is available in no less than 30% of the rooms. Computer workplaces, laboratories, specialized equipment, including premises of "University Clinic" necessary for the implementation of the educational and professional program “Dentistry” are also available. The University has social and household infrastructure: libraries, including reading hall, food outlets, assembly hall, sports hall, sports yard, medical center. Hostel is provided for those students who need it. The University has properly equipped specialized rooms, in particular, a phantom class for the propedeutics of therapeutic, pediatric and orthopedic dentistry; dental laboratory; polyclinic study room; dental clinic study room; therapeutic and pediatric study room in the dental clinic; surgical study room in the dental clinic; study room in orthopedic dentistry and orthodontics, sterilization room. The University Clinic with the most modern equipment of leading domestic and foreign companies is opened, it has the department of therapeutic dentistry, pediatric dentistry, orthodontics and orthopedic dentistry, surgical dentistry, x-ray cabinet, dental laboratory, which make it possible to ensure the individual practical activity of each student. |
| **Information, educational and methodological resources** | Legal support is provided by the Law of Ukraine “On Higher Education”, standards of higher education (state, sectoral and those of higher educational establishment), other normative acts of the Ministry of Education and Science of Ukraine and of higher educational establishment in particular. Educational activities are carried out according to the curriculum and explanatory note thereto. Each course of the curriculum is provided |
with a work program, a set of educational and methodological materials, syllabuses. Practical training programs have been developed to provide students with practical training. Availability of training materials for students in each course of the curriculum constitutes 100%. Methodological materials for final certification are available for applicants of higher education.

Information support is provided by training books (textbooks, manuals, etc.) and electronic resources. The presence of domestic and foreign professional periodicals of the corresponding or related sphere in the library of the educational institution, including those in electronic form is not less than 5 titles. Access to the databases of periodicals in English in the corresponding or related sphere is also provided for the higher education applicants.

The University has an official website, which contains basic information about its activities.

The University official website also has the page in English, which contains basic information about the activity, rules of admission of foreigners and stateless persons, study conditions and residence of foreigners and stateless persons, contact information.

<table>
<thead>
<tr>
<th>9 – Academic Mobility</th>
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<tbody>
<tr>
<td><strong>National credit mobility</strong></td>
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<tr>
<td><strong>International credit mobility</strong></td>
</tr>
<tr>
<td><strong>Training of foreign higher education applicants</strong></td>
</tr>
</tbody>
</table>
2. List of components of educational and professional program and their logical sequence

2.1. List of components of educational and professional program

<table>
<thead>
<tr>
<th>Code of the course</th>
<th>Components of the educational program (courses, term papers, practice, thesis)</th>
<th>Number of credits</th>
<th>Form of final control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compulsory components (CC) of an educational program (EP)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>I. General Training Cycle</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC.01</td>
<td>Foreign Language</td>
<td>3</td>
<td>FMC Final Module Control (FMC)</td>
</tr>
<tr>
<td>CC.02</td>
<td>Ukrainian Language (professionally oriented)</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.03</td>
<td>History of Ukraine and Ukrainian Culture</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.04</td>
<td>Philosophy</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.05</td>
<td>Latin and Medical Terminology</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.06</td>
<td>History of Medicine</td>
<td>3</td>
<td>Credit</td>
</tr>
<tr>
<td>CC.07</td>
<td>Medical Biology</td>
<td>5</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.08</td>
<td>Medical and Biological Physics</td>
<td>4</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.09</td>
<td>Medical Chemistry</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.10</td>
<td>Biological and Bioorganic Chemistry</td>
<td>8</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.11</td>
<td>Human Anatomy</td>
<td>11</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.12</td>
<td>Histology, Cytology and Embryology</td>
<td>7</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.13</td>
<td>Ukrainina as a Foreign Language</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.14</td>
<td>Physiology</td>
<td>6</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.15</td>
<td>Microbiology, Virology and Immunology</td>
<td>5</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.16</td>
<td>Medical informatics</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>73</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>II. Professional and Practical Training Cycle</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>CC.17</td>
<td>Life Safety: Basics of Bioethics and Biosecurity</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.18</td>
<td>Clinical Anatomy and Operative Surgery</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.19</td>
<td>Propaedeutics of Internal Medicine</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.20</td>
<td>Hygiene and Ecology</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.21</td>
<td>Propaedeutics of Therapeutic Dentistry</td>
<td>4</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.22</td>
<td>Propaedeutics of Orthopedic Dentistry</td>
<td>4</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.23</td>
<td>Propaedeutics of Pediatric Therapeutic Dentistry</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.24</td>
<td>Pathomorphology</td>
<td>6</td>
<td>FMC, exam</td>
</tr>
<tr>
<td>CC.25</td>
<td>Pathophysiology</td>
<td>6</td>
<td>FMC, exam</td>
</tr>
<tr>
<td>CC.26</td>
<td>Pharmacology</td>
<td>6</td>
<td>FMC, exam</td>
</tr>
<tr>
<td>CC.27</td>
<td>Internal Medicine (including infectious diseases and epidemiology, clinical pharmacology)</td>
<td>7</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.28</td>
<td>Surgery (including oncology and neurosurgery)</td>
<td>8</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.29</td>
<td>Social Medicine, Public Health and Basics of Evidence-based Medicine</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.30</td>
<td>Radiology</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.31</td>
<td>Forensic Medicine (Dentistry). Medical Law of Ukraine</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.32</td>
<td>Prevention of Dental Diseases</td>
<td>4</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.33</td>
<td>Therapeutic Dentistry</td>
<td>21</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.34</td>
<td>Surgical Dentistry</td>
<td>19.5</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.35</td>
<td>Orthopedic Dentistry</td>
<td>19.5</td>
<td>FMC, exam</td>
</tr>
<tr>
<td>CC.36</td>
<td>Orthodontics</td>
<td>10</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.37</td>
<td>Phthisiology</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.38</td>
<td>Pediatrics</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.39</td>
<td>Obstetrics</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>CC.40</td>
<td>Pediatric Therapeutic Dentistry</td>
<td>10</td>
<td>FMC, exam</td>
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<tr>
<td>CC.41</td>
<td>Pediatric Surgical Dentistry</td>
<td>6</td>
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<tr>
<td>CC.42</td>
<td>Social Medicine, Public Health</td>
<td>3</td>
<td>Exam</td>
</tr>
<tr>
<td>CC.43</td>
<td>Urgent and Emergency Medical Care</td>
<td>3</td>
<td>Exam</td>
</tr>
<tr>
<td>CC.44</td>
<td>Occupational Safety in the Field of Health Care</td>
<td>3</td>
<td>Credit</td>
</tr>
<tr>
<td>CC.45.1</td>
<td>General Medical Training: Ophthalmology</td>
<td>1.5</td>
<td>Exam</td>
</tr>
<tr>
<td>CC.45.2</td>
<td>General Medical Training: Neurology, including Neuromuscular Dentistry</td>
<td>1.5</td>
<td>Exam</td>
</tr>
<tr>
<td>CC.45.3</td>
<td>General Medical Training: Dermatology, Venereology</td>
<td>1</td>
<td>Exam</td>
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<tr>
<td>CC.45.4</td>
<td>General Medical Training: Psychiatry, Narcology</td>
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<td>FMC</td>
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<tr>
<td>CC.45.5</td>
<td>General Medical Training: Medical Psychology</td>
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<td>Exam</td>
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<tr>
<td>CC.45.6</td>
<td>General Medical Training: Physical Rehabilitation, Sports Medicine</td>
<td>1</td>
<td>FMC</td>
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<tr>
<td>CC.45.7</td>
<td>General Medical Training: Endocrinology</td>
<td>1</td>
<td>FMC</td>
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<tr>
<td>CC.46</td>
<td>Otorhinolaryngology</td>
<td>3</td>
<td>Exam</td>
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<tr>
<td>CC.47</td>
<td>Training of Reserve Officers in the field of knowledge “Health Care”, Specialty “Dentistry”</td>
<td>3</td>
<td>FMC</td>
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<tr>
<td>CC.48</td>
<td>Job-related Training: Patient Care/Nursing</td>
<td>6</td>
<td>Differentiated Credit</td>
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<td>CC.49</td>
<td>Job-related Medical Training</td>
<td>4</td>
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<tr>
<td>CC.50</td>
<td>Job-related Dental Training</td>
<td>11</td>
<td>Differentiated Credit</td>
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</tbody>
</table>

**Total:** 208

**The total amount of required components:** 281

### III. OPTIONAL COURSES CYCLE

#### Part 1

<p>| OC.01-1 | Psychology of Communication | 3 | FMC |
| OC.02-1 | Deontology in medicine | 3 | FMC |
| OC.03-1 | Side Effects of Medicines | 3 | FMC |
| OC.04-1 | Modern Diagnosis of Diseases of the TMJ and Salivary Glands | 3,5 | FMC |
| OC.05-1 | Endodontic Technique in Pediatric Dentistry | 3,5 | FMC |</p>
<table>
<thead>
<tr>
<th>OC.06-1</th>
<th>Modern Technologies of Application of Fixed Orthodontic Appliances</th>
<th>3</th>
<th>FMC</th>
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<tbody>
<tr>
<td><strong>Total:</strong></td>
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<td><strong>19</strong></td>
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### Part 2

<table>
<thead>
<tr>
<th>OC.01-2</th>
<th>Fundamentals of Economic Theories</th>
<th>3</th>
<th>FMC</th>
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<tbody>
<tr>
<td>OC.02-2</td>
<td>Current Problems with HIV Infection</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>OC.03-2</td>
<td>Modern Methods of Laboratory Diagnostics</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td>OC.04-2</td>
<td>Fundamentals of Technology for Dentures Manufacturing</td>
<td>3,5</td>
<td>FMC</td>
</tr>
<tr>
<td>OC.05-2</td>
<td>Basics of Aesthetic Teeth Restoration</td>
<td>3,5</td>
<td>FMC</td>
</tr>
<tr>
<td>OC.06-2</td>
<td>Modern Technologies of Solid-cast Prosthetics</td>
<td>3</td>
<td>FMC</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>19</strong></td>
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</table>

**Attestation**

**Total amount of optional components:** 19

**Total amount according to the educational program** 300

Total amount of the ECTS credits according to the educational and professional program is 300 ECTS credits. Normative part of the program constitutes 281 ECTS credits (93.7%). Optional part constitutes 19 ECTS credits (6.3%). Taking into account the peculiarities of the field of knowledge and the specific features of professional activity of specialists with professional qualification “Doctor”, the implementation of Article 62, paragraph 15 of the Law of Ukraine “On Higher Education” in full is impossible.

2.2. Structural and logical scheme of educational and professional program is presented in Annex 2.

The list of courses and their titles in the curriculum are designed to acquire by higher education applicants higher, integrated, general, and specific competencies in accordance with the Standard.

The curriculum covers two stages of undergraduate doctoral training: pre-clinical and clinical. The structure of the curriculum is course-integrated and oriented towards the logical sequence of teaching the courses that make up relevant cycles of preparation: general, professional and practical training.

Educational and Professional Program “Dentistry” is a systematic educational structure that establishes interdisciplinary connections at both theoretical and practical levels. Each particular course has a theoretical background and is oriented towards its obligatory practical application. All the courses of the program are connected conceptually and methodologically, they exist in a single system of holistic education when training students of the second (Master) level of higher education in the specialty “Dentistry”.

### 3. Form of attestation of higher education applicants

<table>
<thead>
<tr>
<th>Form of attestation of higher education applicant</th>
<th>Attestation of the educational and professional training program in the specialty “Dentistry” is carried out in the form of a unified state qualification exam and a combined structured clinical examination (OSKI).</th>
</tr>
</thead>
</table>
| Requirements for a unified state qualification exam | The unified state qualification examination is carried out according to the Procedure of carrying out the unified state qualification examination for the applicants of Master Degree in specialty "Dentistry" of the field of knowledge "Health Care" and consists of the following components:  
- integrated test exam "KROK", which assesses the conformity of the quality of specialists training with the standards of higher |
education and is conducted by the Test Center at the Ministry of Health of Ukraine;
- examination in the English language (professionally oriented), which assesses the competence of a student in English proficiency and is conducted by the Test Center at the Ministry of Health of Ukraine;
- an objective structured clinical exam that assesses the graduate's readiness to pursue professional activity in accordance with the requirements of the higher education standard by demonstrating practical (clinical) components of professional competence in a real facility or model and is conducted by an Examination Committee of a higher education institution.

4. Perspective directions of educational and professional program development
In modern world, the development of medical science requires physicians to study on a continuous basis, to improve themselves, to be able to analyze a growing body of knowledge and apply it in their medical practice. Medical education should provide high quality training for students and become an important component of health care reform and implementation of the state social priorities, since the quality of medical care provided to the population depends on the level of future dentists training. Reforms in the health care system create new requirements for the formation of a new type specialist, who must not only be perfectly aware of the specialty, but also have communication skills, be able to conduct business communication, as well as to adapt to new changes, to understand the issues of insurance, economy and jurisprudence.
Modern development of medical science and practice makes it necessary to add changes into the education process of those who are going to work in the sphere of Health Care as well as to their advanced training with making education process to be in conformity with the international standards.
The prospect of mastering the program is an in-depth study of the professionally oriented English language, which will meet the highest criteria for training dentists in Ukraine. Also, one of the perspective program component is the improvement of practical training in the University Clinic with a guarantee of matching the demand in the labor market and the realization of the acquired knowledge in new perspective areas of professional work.
Experience of the developed European countries and the USA confirms that the combination in one institution of educational, scientific and medical-diagnostic processes leads to indisputable indicators improvement of all components of such institution activity. Modern dentists should not only acquire knowledge, but must learn how to work with new equipment, get acquainted with the latest scientific and clinical achievements in dentistry.
Prospects for the development of educational and professional program for the next 5 years are as follows:
- harmonization of educational, scientific and medical-diagnostic processes within the framework of the University Clinic;
- in-depth study of the professionally oriented English language, which will meet the highest criteria for training dentists in Ukraine;
- creation of real conditions for practical training of a specialist.

5. Involvement of employers and/or professional associations in the development of an educational and professional program
Close cooperation of the Private Higher Education Institution “Kyiv International University” with the employer is an important factor in improving the quality of education and narrowing the gap between practical and theoretical training of a specialist.
Private Higher Education Institution “Kyiv International University” engages employers at the stage of defining the purpose of the educational program and the learning outcomes, as well as to further improve the technological content of the program.

Private institution of higher education "Kyiv International University" promotes intensive acquaintance of graduates with aspects of future activity, formation of meaningful attitude to the studied courses, to the basics of professional activity, formation of respect for the profession by concluding cooperation agreements with dental clinics where students shall have the opportunity to attend practical training, participate in scientific-practical conferences. Moreover, employers are involved in organizing and conducting the educational process, in particular: lecturing, conducting practical classes, trainings, workshops, on-line meetings with future specialists with the purpose of their further employment.

Guarantor of educational and professional program
Doctor of Medical Sciences, Professor [Signature] Stupnytskyi R.M.
APPENDICES

Appendix 1

List 1 ( Syndromes and Symptoms)

1. anemia
2. bite anomaly
3. asymmetry of the face
4. pain when moving the lower jaw
5. pain in the area of the heart
6. pain in the teeth
7. abdominal pain
8. pain in soft tissues of 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. hypersalivation
15. headache
16. rhinophonia (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 color of teeth
24. changed color of the skin, the mucous membrane of the cavity of the mouth
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. Plaque, tartar
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/disproportionately face
41. taste disturbance / breach of taste
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. pathological mobility of teethрешеція ясен
47. symptom of parchmentcrunch
48. dryness of the mucous membrane of the oral cavity
49. partial and complete loss of teeth
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 dental hard tissues
   5. wedge-shaped defect
   6. pathological abrasion of teeth
   7. necrosis of hard tooth tissues
   8. discolorite
   9. traumatic injuries of teeth

B) Caries and its complications:
   1. caries
   2. pulpitis
   3. periodontitis

C) Periodontal disease:
   1. papillitis
   2. gingivitis (localized, generalized)
   3. periodontitis (localized, generalized)
   4. idiopathic periodontal disease

D) Disease of the mucous membrane of the oral cavity:
   1. traumatic lesions of oral mucosa
   2. autoinfektsiyni mucous membrane disease (acute aphthous stomatitis, herpes, ulcer-necrotic, candidiasis oral mucosa lesions)
   3. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhea)
   4. mucous membrane disease with an autoimmune component of Medicine pathogenesis (pemphigus, red flat lichen, lupus erythematosus)
   5. changes in the oral mucosa of allergic lesions
   6. changes in the mucous membrane of intoxication with salts of heavymetals
   7. symptomatic viral diseases (AIDS, flu, foot and mouth disease, infectious mononucleosis)
   8. symptomatic manifestations in the mucous membrane of the gastrointestinal tract (peptic ulcer, gastritis, enteritis, colitis, chronic hepatitis)
   9. symptomatic manifestations in the oral mucosa diseases cardiovascular (circulatory failure, essential hypertension)
   10. symptomatic manifestations in the oral mucosa endocrine diseases (acromegaly syndrome, Ischenko-Cushing syndrome, diabetes, hyper- and hypothyroidism)
   11. symptomatic manifestations in the mucous membrane of blood disorders (anemia, trombostenichna purpura, leukemia)
   12. symptomatic manifestations in the oral mucosa hypo- and avitaminosis
   13. diseases and anomalies of the tongue (desquamative glossitis, rhombic glossitis, folded tongue, hairy tongue)
   14. neurogenic diseases of the tongue (glossalgia, stomalgia, ganglionitis)
   15. heilitites are independent and symptomatic (actinic, meteorological, contact allergic, glandular, exfoliative, eczematous, atopic)
E) Precancerous oral mucosa and lips red border:
   1. obligate precancer (Bowen's disease, warty precancer, limited precancerous hyperkeratosis, Manganotti's cheilitis)
   2. optional precancer

2. Pediatric Dentistry:

A) Pathology of teeth:
   1. enamel hypoplasia (systemic and local)
   2. endemic fluorosis
   3. congenital malformations of the development of solid teeth tissues in children
   4. caries and its complications in temporary and permanent teeth in children
   5. traumatic lesions of teeth / traumatic lesions of teeth

B) Periodontal pathology:
   1. gingivitis
   2. idiopathic periodontal disease
   3. periodontitis

C) Mucosal pathology of the oral cavity:
   1. allergic diseases of oral mucosa
   2. abnormalities and tongue disease
   3. fungal lesions of oral mucosa in children
   4. mucous membrane changes in systemic diseases
   5. changes in the mucous membrane of specific diseases
   6. manifestations of acute viral and infectious diseases in the oral mucosa (diphtheria, chicken pox, measles, infectious mononucleosis, scarlet fever).
   7. viral diseases of oral mucosa (acute herpetic stomatitis, recurrent herpetic stomatitis, herpes zoster)
   8. independent and symptomatic cheilitis, glossitis

D) Inflammatory diseases of the maxillofacial area:
   1. periosite
   2. diseases of the temporomandibular joint diseases of the temporomandibular joint
   3. salivary gland disease
   4. lymphadenitis
   5. neonotogenic inflammatory processes of soft tissues (furuncle, carbuncle, erysipelas)
   6. jaw osteomyelitis
   7. specific inflammatory processes (tuberculosis, syphilis, actinomycosis)
   8. phlegmons and abscesses

E) Injuries to the maxillofacial area:
   1. damage to soft tissues (wounds, burns) of teeth, jaws, facial bones

F) Tumors and tumor-shaped maxillo-facial areas:
   2. benign tumors and tumor-like tumors of soft tissues and bones of the face
   3. malignant tumors of soft tissues and bones of the face

G) Congenital malformations of the face:
   1. non-enlargement of the upper lip, alveolar appendix, solid and soft palate (isolated and transverse) non- enlargement of the upper lip, alveolar appendix, solid and soft palate (isolated and transverse)
   2. anomalies of attachment of soft tissues of the oral cavity (lip bridges, tongue, shallow mouth of the anuscule)
3. Surgical Dentistry:

A) **Inflammatory diseases of the maxillofacial area:**
   1. deep and superficial phlegmons, abscesses
   2. lymphadenitis
   3. neuritis of trigeminal nerve, facial nerve, neuralgia
   4. neodontogenic inflammatory processes
   5. odontogenic sinusitis
   6. parodontitis, periodontitis, alveolitis, periosteum, osteomyelitis; perikoronari
   7. inflammatory diseases of the salivary glands
   8. specific inflammatory processes (tuberculosis, syphilis, actinomycosis)

B) **Injuries in the maxillofacial area:**
   1. injuries of the teeth and bones of the facial skeleton
   2. traumas of soft tissues, tongue and mucous membrane of the mouth
   3. firearms and non-fatal lesions of the tissues of maxillofacial localization; cranio-maxilla-facial injuries
   4. thermal, chemical, electrical and radial damage of maxillofacial localization tissues; combined injury

C) **Diseases of the temporomandibular joint:**
   1. arthritis, arthrosis-arthritis, arthrosis
   2. ankylosis
   3. LV dysfunction, dislocation and contracture of the mandible

D) **Tumors and tumor-like formations of the maxillofacial area:**
   1. benign tumors and tumor formation oral mucosa, salivary glands, soft tissues of maxillofacial localization and neck bones of the facial skeleton
   2. precancerous diseases and malignant tumors of oral mucosa, salivary glands, soft tissues of maxillofacial localization and neck bones of the facial skeleton

E) **Congenital and acquired defects and deformities of the tissues of the head and neck**
   1. anomalies of teeth development, congenital jaw deformities, defects and deformation of the bones of the facial skeleton, combined anomalies and deformations of the cerebral and facial skeleton and tooth-jaw system
   2. congenital defects and deformities of the soft tissues of the head and neck
   3. acquired defects and deformation of soft tissues of maxillofacial localization and neck, bones of the facial skeleton
   4. age-related changes in soft tissues of the face and neck, vertical and horizontal atrophy of the alveolar processes of the jaw bones, adenityas, gingival recession
   5. cosmetic defects and deformation of the organs and tissues of the head and neck

F) **Dysplastic diseases of maxillofacial localization**
   1. dystrophic diseases of periodontal tissues сіалози / sialosi
   2. dysplasia of the soft tissues of the head and neck

G) **Neurostomatological diseases**
   1. неврити, невралгії трійчастого нерва / neuritis, neuralgia of the trigeminal nerve

4. Orthopedic Dentistry:

   1. partial loss of teeth
   a) distal limited dental defects
   b) distally unlimited dental defects
2. total loss of teeth
3. excessive abrasion of teeth
4. defects of the crown part of the teeth
5. complete destruction of the crown part of the tooth
6. secondary deformation of the tooth row
7. parafunction of chewing muscles
8. bruxism
9. injuries and defects of the jaw, nose, ears, orbits, combined defects
10. TMJ disease

5. Orthodontics
A) anomalies of individual teeth:
   1. sizes
   2. forms
   3. quantities
B) anomalies of the teeth position
   1. diastema and diaeresis
   2. crowding of teeth
   3. tartanoomalia
   4. vestibule-oral position of the teeth, dystopia, retention, supra-infra position
C) sagital anomalies of bite:
   1. progenia (mesial) (skeletal, dental alveolar)
   2. prenatiya (distal) (skeletal, dental alveolar)
D) vertical bite anomalies:
   1. open (skeletal, dental alveolar)
   2. deep (skeletal, dental alveolar)
E) transverse anomalies of bite:
   1. cross (one-way or two-sided, with displacement, or without displacement of the mandible) (skeletal, dental alveolar).

List 2.1 (Main dental diseases)
A. Pathology of teeth:
   2. non- carious lesions of the teeth
   3. caries of temporary and permanent teeth
   4. disease of the pulp of temporary and permanent teeth
   5. periodontitis of temporary and permanent teeth
B. Periodontal tissue pathology:
   1. papillitis
   2. gingivitis
   3. periodontitis
   4. periodontal disease
C. Mucosal pathology of the oral cavity:
   1. traumatic lesions
   2. autoinfektsiiyni mucous membrane disease (acute aphthous stomatitis, herpes, ulcer-necrotic, candidiasis oral mucosa lesions)
   3. allergic lesions
D. Inflammatory diseases of the maxillofacial area
1. alveolitis
2. perikoronaryt
3. periosite
4. lymphadenitis

E. Injuries to the maxillofacial area:
1. traumatic damage to soft facial tissues
2. acute and habitual dislocation of the mandible
3. uncomplicated fractures of the upper and lower jaws

F. Orthopedic Pathology:
1. defects of the crown part of the teeth
2. partial and complete absence of teeth

List 3 Physiological conditions and somatic diseases requiring special patient management tactics

A) Physiological conditions:
1. pregnancy

B) Diseases of the blood and hematopoietic organs:
1. anemia
2. hemophilia
3. leukemia
4. thrombocytopenic purpura

C) Cardiovascular disease:
1. arterial hypertension
5. rheumatism
6. infective endocarditis
7. heart defects
8. heart failure

D) Mental disorders:
1. acute psychosis, including alcohol delirium
2. epilepsy

E) Diseases of the respiratory system and mediastinum:
1. bronchial asthma

F) Endocrine System Diseases:
1. diabetes melitus
2. diseases of the thyroid gland

G) Pathology of the musculoskeletal system and connective tissue:
1. systemic vasculitis (hemorrhagic vasculitis)

H) Infectious and parasitic diseases:
1. HIV / AIDS
2. viral hepatitis
3. diphtheria
4. tetanus
5. anthrax
6. tuberculosis of different localization
7. cholera
8. plague
9. gonorrhea
10. syphilis
List 4 (Urgent states):

1. asphyxia (including newborns)
2. hypertensive crisis
3. acute respiratory failure
4. Acute heart failure
5. acute poisoning
6. "acute" abdomen
7. Electric trauma
8. fainting
9. external bleeding
10. collapse
11. coma
12. laryngeal edema
13. Queen's edema
14. burns and frostbite
15. convulsions
16. drowning
17. physiological childbirth
18. shock
19. trauma of bones

List 5 (Laboratory and instrumental studies):

1. analysis of punctata of tumors of soft tissues and bones
2. histomorphological study of biopsy of lymph nodes, salivary glands, mucous membranes, soft tissues
3. analysis of blood glucose content
4. study of control and diagnostic models of jaws
5. study of the functions of HDL (breathing, swallowing, speech, chewing and TMJ)
6. general blood test
7. general urine analysis
8. biochemical blood test
9. Immunological study in dental diseases
10. analysis of the coagulogram
11. interpretation of radial diagnostics of the skull, dental-maxillofacial apparatus, salivary glands
12. cytological examination of organs and tissues of the teeth-jaw apparatus
13. microbiological examination of the oral fluid swabs from the oral mucosa, periodontal
14. functional diagnostics of the oral cavity (luminescent, reopardontography, stomatology, 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 make a temporary stop of external bleeding;
5. to conduct primary surgical treatment of wounds;
6. to rinse the stomach, intestine;
7. to carry out transport immobilization;
8. Injecting medicinal substances (intramuscular, subcutaneous, intravenous, jet and drip);
9. to measure arterial pressure;
10. to carry out the primary toilet of the newborn;
11. to determine blood groups, Rh-affiliation

**List 7 (Dental manipulations)**

1. Alveolotomy
2. Amputation of the pulp of temporary and permanent teeth
3. teeth whitening
4. selective masking of the teeth, leveling the occlusal surface, occlusion
5. manufacture of temporary tires and treading for fractures of the teeth, alveolar sprouts and jaws
6. determining the acidity of the teeth enamel
7. adjustment of the dislocation of the mandible
8. sealing fissure
9. diagnostic use of dyes
10. diathermocoagulation
11. Extirpation of the pulp of temporary and permanent teeth
12. Electroodontodiagnoses
13. Instillation of drugs in periodontal pockets
14. Local anesthesia in the treatment of dental diseases by various methods (application, infiltration, conduction)
15. removal of artificial crowns
16. Stopping bleeding after tooth extraction
17. impregnation of hard tissues of temporary teeth
18. correction of partial and complete removable dentures
19. Curettage of the hole
20. curettage of periodontal pockets (open, closed)
21. drug treatment of the affected areas of the mucous membrane of the oral cavity and periodontal disease
22. overlaying and removing temporary seals and sealing bandages when treating caries, pulpitis, periodontitis
23. receiving anatomical and functional imprints with different imprints
24. receiving models of dental rows and prosthetic beds
25. receipt of control-diagnostic models
26. check the design of the prosthesis with partial and complete absence of teeth
27. filling of carious cavities of temporary and permanent teeth with different filling materials
28. filling of root canals of temporary and permanent teeth with different materials
29. covering teeth with therapeucitc and preventive varnishes, gels
30. Preparation of teeth under a metal stamped and plastic crow
31. Preparation and treatment of root canals of temporary and permanent teeth
32. Preparation of carious cavities of temporary and permanent teeth taking into account the type of sealing material.
33. Preparation and overlay of hardening and non-hardening periodontal bandages
34. fitting different kinds of artificial crowns
35. conduction of intradental electrophoresis
36. the professional oral hygiene
37. conduct of physiological separation
38. disclosure of the periodontal abscess
39. incision and excision with hood perikoronariti
40. periodostomy
41. Typical and atypical removal of temporary and permanent teeth
42. fixation of crowns and bridge- like prosthetics
46. Surgical treatment of wounds of soft facial tissues within anatomical area
47. Grinding and polishing of seals from all kinds of filling materials