



FUNDAMENTALS OF DENTISTRY

1. General information	
Name of the Faculty	Medical
Educational program (sphere of knowledge, specialty, level of higher education, form of education)	22 Healthcare, 222 Medicine, second level of higher education (master's degree), day form of education
Educational year	2020-2021
Name of the discipline, code (e-mail address on the website of LNMU named after Danylo Halysky)	Fundamentals of dentistry MC 26 e-mail: kaf_omfs@meduniv.lviv.ua

Department (<i>name, address, phone, e-mail</i>)	Surgical dentistry and maxillofacial surgery, 79010, Lviv, Nekrasova street, 6, Lviv Regional Clinical Hospital, Department of Maxillofacial Surgery, +38 (032) 278-62-67; 79000, Lviv, Mykolaychuka street, 9, Municipal City Clinical Hospital of Ambulance, +38 (032) 278-62-67; 79000, Lviv, Pekarska street, 69B, Dental Medical Center of LNMU, +38 (032) 278-62-67; e-mail: kaf_omfs@meduniv.lviv.ua
Chief of the department (<i>e-mail</i>)	Professor, DDS Yan Vares e-mail: kaf_omfs@meduniv.lviv.ua

Year of study (year in which the discipline is studied)	III
Semester (<i>semester</i> , in which the discipline is studied)	V, VI
Тип дисципліни/модулю (<i>обов'язкова/вибіркова</i>)	Mandatory
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	Ya.E. Vares, DDS, Professor Yu.O. Medvid, CMS, Associate Professor N.M.Krypnyk, CMS, Associate Professor H.R. Pogranichna, CMS, Associate Professor A.V. Filipyskyi, CMS, Associate Professor e-mail: kaf_omfs@meduniv.lviv.ua
Erasmus yes/no (availability of the discipline for students within the program <i>Erasmus+</i>)	no

The person responsible for the syllabus (the person to be commented on the syllabus, contact e-mail)	Head of the Department, Professor Yan Vares, DDS Deputy Head of the Department, Associate Professor Yu.O. Medvid, CMS e-mail: kaf_omfs@meduniv.lviv.ua
ECTS credits	0,5
Total hours (<i>lectures/ practical lessons/ student's independent work</i>)	Total hours -15 Lectures – 0 Practical lessons – 10 Independent work - 5 (0/10/5)
Language of education	Ukrainian, English
Information about consultations	Consultations are held according to the schedule of consultations, which is posted on the information stands of the department, the website of the department, the platform for distance learning misa
Address, telephone and regulations of the clinical base	79010, Lviv, Nekrasova street, 6, Lviv Regional Clinical Hospital, Department of Maxillofacial Surgery, +38 (032) 278-62-67; 79000, Lviv, Mykolaychuka street, 9, Municipal City Clinical Hospital of Ambulance, +38 (032) 278-62-67; 79000, Lviv, Pekarska street, 69B, Dental Medical Center of LNMU, +38 (032) 278-62-67; Working hours : 9.00-16.20 (on the days of repassing of the missed lessons according to the schedule: 9.00-19.00)

2. Short annotation of the course

Course description (abstract). The discipline involves the study of therapeutic, orthopedic, surgical and pediatric dentistry in its main sections, with emphasis placed on the study of etiology, pathogenesis, clinics, diagnostics, emergency treatment and prevention of major and most common diseases of maxillo-facial area (MFA).

Special attention is paid to the formation of the student's skills of collecting anamnesis, conducting examination and differential diagnosis of MFA diseases with various clinical course and their complications. It is envisaged to get acquainted with the treatment-and-prophylactic measures, which are most often used in dental practice.

Studying the discipline of "fundamentals of dentistry" contributes to the formation of a holistic view of the structure and functioning of the organs of the MFA; deepening of theoretical and practical preparation, acquisition of professional practical skills for independent medical activity.

Structure of the discipline	Number of credits, hours, including				Year of study/ semester	Test type
	Total	In class		Self-study		
		Lectures (hours)	Practical (hours)			

Name of the discipline: Fundamentals of Dentistry	0,5 credits / 15 hours.	-	10	5	III course (V/VI semesters)	Credit
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The subject of study of the discipline are the pathological processes of MFA, related to the competence of therapeutic, orthopedic, surgical and pediatric dentistry, features of their clinical course, the main diagnostic and therapeutic manipulations used in the practice of dentist.

3. Мета і цілі курсу

The purpose of teaching the discipline (Fundamentals of Dentistry) is to provide a comprehensive and highly-specialized training of a dentist, which involves mastering the theory and practice of all sections of dentistry and basics of maxillo-facial departments (MFD), from organization of surgical department of dental clinic and maxillofacial hospital to the ability of providing urgent care in extreme conditions and qualified surgical dental and reconstructive-restoration assistance in MFD.

The main tasks of studying the discipline of " Fundamentals of Dentistry " are the ability to carry out examination of a dental patient, to diagnose the main symptoms and syndromes of MFA pathologies, to justify and formulate a preliminary diagnosis; analyze the results of the examination and carry out differential diagnosis, formulate a clinical diagnosis of major diseases, identify and identify manifestations of somatic diseases in the oral cavity, determine the principles of complex treatment in the clinic of surgical dentistry, identify different clinical options and complications of the most common diseases and diseases, to know measures of primary and secondary prevention of the most common dental diseases.

Competence and course results.

In accordance with the requirements of the Standard of Higher Education, the discipline "Fundamentals of Dentistry" provides students with the acquisition of competences:

- Integral (the ability to solve complex problems in the field of health care in the specialty "Medicine" in professional activity or in the process of study, which involves research or innovation).

- General (ability to abstract thinking, analysis and synthesis; ability to learn and to be trained in accordance with the newest educational tools; ability to apply knowledge in practical situations; skills of using information and communication technologies; ability to search, process and analyze information from different sources; ability to identify, set and solve the problem; the ability to choose a communication strategy; the ability to work in a team; interpersonal skills; the ability to follow the labour safety regulations; the ability to evaluate and provide high quality results).

- Special (professional, subject) (collection of medical information about the patient (history); evaluation of results of laboratory and instrumental research; clinical diagnostics of a dental disease; diagnosis of urgent conditions; identification of the nature and treatment principles of dental diseases; tactics of dealing with dental patients with somatic pathology; performing the range of medical and dental manipulations; treatment of major dental diseases; dealing with medical documentation).

General competencies (GC):

1. Ability to abstract thinking, analysis and synthesis.
2. Ability to learn and master modern knowledge.
3. Ability to apply knowledge in practical situations.
4. Consideration and understanding of the subject area and understanding of professional activity.
5. Ability to adapt and act in a new situation.

6. Ability to make informed decisions.
7. Ability to work in a team.
8. Interpersonal skills.
9. Ability to communicate in the state language both orally and in writing.
10. Ability to communicate in a foreign language.
11. Information and communication technology skills.
12. Definiteness and perseverance in terms of tasks and responsibilities.
13. Ability to act socially responsibly and consciously.
14. The desire to preserve the environment.
15. Ability to act on the basis of ethical considerations (motives).

Special (professional, subject) competencies (SC):

1. Skills of interviewing and clinical examination of the patient.
2. Ability to determine the required list of laboratory and instrumental studies and evaluate their results.
3. Ability to establish a preliminary and clinical diagnosis of the disease.
4. Ability to determine the required mode of work and rest in the treatment of diseases.
5. Ability to determine the nature of nutrition in the treatment of diseases.
6. Ability to determine the principles and nature of treatment of diseases.
7. Ability to diagnose emergencies.
8. Ability to determine tactics for providing emergency medical care.
9. Emergency care skills.
10. Ability to carry out medical and evacuation measures.
11. Skills to perform medical manipulations.
12. Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counseling skills.
13. Ability to carry out sanitary and hygienic and preventive measures.
14. Ability to plan and carry out preventive and anti-epidemic measures against infectious diseases.
15. Ability to determine the tactics of management of persons subject to dispensary supervision.
16. Ability to conduct a performance examination.
17. Ability to keep medical records.
18. Ability to conduct epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information.
19. Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.
20. Ability to analyze the activities of a doctor, department, health care institution, take measures to ensure the quality of medical care and improve the efficiency of medical resources.
21. Ability to conduct activities for the organization and integration of medical care and marketing of medical services.

Program competencies	Fundamentals of Dentistry (MC 26)
General competencies	
GC 1 Ability to abstract thinking, analysis and synthesis.	+
GC 2 Ability to learn and master modern knowledge.	+
GC 3 Ability to apply knowledge in practical situations.	+
GC 4 Consideration and understanding of the subject area and understanding of professional activity.	+
GC 5 Ability to adapt and act in a new situation.	+
GC 6 Ability to make informed decisions.	+
GC 7 Ability to work in a team.	+
GC 8 Interpersonal skills.	+
GC 9 Ability to communicate in the state language both orally and in writing.	+
GC 10 Ability to communicate in a foreign language.	+
GC 11 Information and communication technology skills.	+
GC 12 Definiteness and perseverance in terms of tasks and responsibilities.	+
GC 13 Ability to act socially responsibly and consciously.	+
GC 14 The desire to preserve the environment.	+
GC 15 Ability to act on the basis of ethical considerations (motives).	+
Special (professional, subject) competencies	
FC 1 Skills of interviewing and clinical examination of the patient.	+
FC 2 Ability to determine the required list of laboratory and instrumental studies and evaluate their results.	+
FC 3 Ability to establish a preliminary and clinical diagnosis of the disease.	+
FC 4 Ability to determine the required mode of work and rest in the treatment of diseases.	+
FC 5 Ability to determine the nature of nutrition in the treatment of diseases.	+
FC 6 Ability to determine the principles and nature of treatment of diseases.	+
FC 7 Ability to diagnose emergencies.	+
FC 8 Ability to determine tactics for providing emergency medical care.	+
FC 9 Emergency care skills.	+
FC 10 Ability to carry out medical and evacuation measures.	+
FC 11 Skills to perform medical manipulations.	+
FC 12 Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counseling skills.	-
FC 13 Ability to carry out sanitary and hygienic and preventive measures.	+
FC 14 Ability to plan and carry out preventive and anti-epidemic measures against infectious diseases.	+
FC 15 Ability to determine the tactics of management of persons subject to dispensary supervision.	+
FC 16 Ability to conduct a performance examination.	-
FC 17 Ability to keep medical records.	+
FC 18 Ability to conduct epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information.	+
FC 19 Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.	+
FC 20 Ability to analyze the activities of a doctor, department, health care institution, take measures to ensure the quality of medical care and improve the efficiency of medical resources.	+
FC 21 Ability to conduct activities for the organization and integration of medical care and marketing of medical services.	-

As a result of studying the discipline, the student must

Know:

- Features of the examination of patients with MFA pathology, participation of related specialists in the examination.
- Principles of deontology and medicinal ethics in dentistry and maxillo-facial surgery.
- Principles of organization of dental care in Ukraine.
- Basic methods of general and local anesthesia, sedation in the practice of a dentist (demonstrations, contraindications, features of conducting).
- Carious dental lesions (classification, diagnosis, treatment).
- Non-carious dental lesions (classification, diagnosis, treatment).
- Timing of temporary and permanent teeth eruption. Types of bite.
- General and local complications in MFA. Abscesses, phlegmons, lymphadenitis, boils, carbuncles, erysipelas (diagnosis, treatment).
- Odontogenic sinusitis. Modern methods of diagnosis and treatment.
- Inflammatory and reactive dystrophic diseases of the salivary glands. Salivary stone disease (diagnosis and treatment).
- Specific inflammatory diseases of the MFA. Actinomycosis, tuberculosis, syphilis, diphtheria, HIV (diagnosis and treatment).
- Diseases of the oral mucosa (types, clinical symptoms, diagnosis, treatment).
- Periodontitis (classification, causes, methods of diagnosis, treatment).
- Precancerous diseases of MFA. Diagnostic methods, choice of treatment tactics.
- Traumatic injuries of teeth. Classification, dental preservation impressions. First aid for dental injuries in children and adults.
- Traumatic injuries of the soft tissues of the MFA. Types of surgical treatment of wounds, principles of aid in various types of wounds of MFA.
- Traumatic injuries of MFA bones. Types of fractures of jaw bones. Differential diagnostics, participation of related specialists in the treatment of patients. Types of conservative and surgical treatment.
- Traumatic disease (pathogenesis, clinical symptoms, assistance during the evacuation stages).
- Benign and malignant neoplasms of MFA (differential diagnosis, treatment).
- Factors for the development of congenital defects of MFA. Classification of defects, clinical symptoms, methods of treatment, timing of plastic surgery, principles of patient rehabilitation, participation of speech therapist.

To be able to:

- Collect anamnesis and to examine the patient for the specified pathology of MFA.
- Plan and conduct an examination of a patient with MFA pathology.
- Plan additional research methods and be able to interpret their results.
- Fill in appropriate medical records.
- Perform a diagnostic puncture of the MFA inflammatory disease.
- Take an inflammatory exudate sample to determine the antibiogram (study the species of microflora and its sensitivity to antibiotics).
- Take material from the wound surface for cytological examination (imprint, scraping) and smear on the glass slide.
- Assign an individualized premedication regimen, depending on the patient's psycho-somatic condition, nature and extent of surgery.
- Demonstrate techniques for preoperative cleaning of the surgeon's hands using modern techniques.
- Carry out on the phantom the technique of antiseptic cleaning of the operational field.
- Develop a plan for comprehensive examination and treatment of AIDS patients.

- Develop a plan for comprehensive treatment of patients with specified pathologies.
- Diagnose local and general complications in the practice of the dental surgeon.
- Conduct cardiopulmonary resuscitation (indirect heart massage and CPR) on the phantom.
- Provide aid in emergency situations in the practice of maxillo-facial surgery in accordance with appropriate algorithms.

To demonstrate:

- ability to abstract thinking, analysis and synthesis.
- ability to learn and be modernly educated
- consideration and understanding of the subject area and understanding of professional activity.
- ability to apply knowledge in practical situations.
- skills of use information and communication technologies.
- ability to search, process and analyze information from various sources.
- ability to identify, pose and solve problems.
- ability to choose communication strategies.
- ability to work in a team.
- interpersonal skills.
- ability to act on the basis of ethical considerations (motives), safety orientation.
- principles of a medical specialist and principles of professional subordination.
- ability to evaluate and ensure the quality of work performed.
- ability to act socially responsible and civic conscious.

4. Course details		
Discipline	Student must know	Student must be able to do
<p>Normal anatomy</p> <p>Hystology, cytology, embriology</p>	<p>Know the anatomical and physiological features of the maxillofacial area:</p> <p>a)structure of the upper and lower jaws, histostructure of bone tissue;</p> <p>b)innervation and vascularization of these areas;</p> <p>c)attachment points and muscles of the maxillofacial area;</p> <p>d)layered histological structure of the skin;</p> <p>e)the structure of the lymphatic system of the head and neck;</p> <p>e)features of lymph outflow from the teeth of the upper and lower jaws;</p> <p>f)localization of cellular spaces with definition of their borders;</p> <p>g)structure of deciduous and permanent teeth;</p> <p>h)anatomical and histological structure of periodontal tissues;</p> <p>i)anatomical and histological structure of the oral mucosa;</p> <p>j)the structure of the organs of the</p>	<p>Be able to explain the structure of organs and systems of the maxillofacial area.</p> <p>Be able to explain the mechanical interaction of muscle groups.</p> <p>Be able to explain the localization of the pathological process in the maxillofacial area. Be able to explain the genesis of congenital malformations of the tissues of the maxillofacial area.</p>

	head and neck; k)embryogenesis of the maxillofacial organs.	
Physiology	Know the physiology of the act of swallowing, the act of breathing	Be able to explain which organs take part in these acts and what their role is.
Pathomorphology Pathophysiology	Know the mechanism of inflammation and its morphological manifestation. Phases of development of inflammatory process. Know the concepts of hyperplasia, metaplasia, atrophy. Know the mechanism of soft and hard tissue regeneration. Phases of reparative osteogenesis. Soft tissue healing phases.	Be able to explain the mechanism of development of the inflammatory process, its phase. Describe the pathomorphological and clinical signs of inflammation. Be able to explain the morphological changes in the tissues that occur. Be able to explain the mechanism of development of allergic reactions, to characterize the morphological changes in the tissues that occur. Be able to explain the mechanism of reparative regeneration, its phases. Describe the pathomorphological and clinical signs of callus formation; healing by primary and secondary tension. Be able to explain disorders of swallowing, breathing and speech disorders in congenital malformations of the MFA.
Topographical and clinical anatomy	Know the topography of the cellular spaces, the location of the salivary glands, muscles, bones of the maxillofacial area. Blood supply, innervation and layered structure of individual organs of the oral cavity.	Be able to explain the topography of the organs of the maxillofacial area. Be able to explain the localization of the pathological process in the maxillofacial area. Be able to explain the layered structure of the organs of the maxillofacial area.
Pharmacology	Знати фармакологічні особливості препаратів, що застосовуються для лікування в клініці хірургічної стоматології.	Вміти охарактеризувати механізм дії препаратів. Вміти призначати та розраховувати дози основних медичних препаратів, що застосовуються.
Microbiology, virology and immunology	Know the species identification of oral microorganisms; what are opportunistic and pathogenic	Be able to characterize the features of the microflora of the oral cavity and

	microorganisms, their role in the development of inflammatory processes of the maxillofacial area.	microorganisms that cause the development of purulent-inflammatory and specific processes. Be able to explain the essence of the bacteriological examination.
Propaedeutics of internal medicine	Know the procedure for examining the patient. Know the structure and methodology of filling in the medical card.	Be able to collect complaints, medical history, conduct a systematic examination of the patient and properly perform the medical records.
Foreign language (for professional purposes)	Know a foreign language, foreign medical terminology.	Be able to communicate in a foreign language, use foreign sources for professional purposes.
Latin language and medical terminology	To know international medical terminology.	To be able to use international medical latin terminology.
Radiology	To know additional methods of inspection which are applied to diagnosis of pathologies of MFA. General principles of diagnostic criteria.	Be able to explain the principles on which certain methods are based (X-ray, CT, MRI, ultrasound).
Internal diseases	Know the main clinical symptoms, principles of diagnosis and treatment of somatic diseases (hypertension, myocardial infarction, stroke, epilepsy, bronchial asthma).	Be able to explain the main clinical symptoms, principles of diagnosis and treatment of somatic diseases (hypertension, myocardial infarction, stroke, epilepsy, bronchial asthma).
Social medicine, public health	Know the levels of medical care in the state. Statistical and analytical methods in medical practice. Know the basic principles of analysis of the activities of a doctor, department, health care institution, measures to ensure the quality of medical care and improve the efficiency of medical resources.	Be able to form an annual report on personal production activities; keep medical records of the patient and the population. Investigate the scope and effectiveness of the doctor, department, health care institution; identify defects in activities and the reasons for their formation. Carry out quality control of medical care; identify factors that hinder the improvement of the quality and safety of medical care. Organize the work of medical staff; to form rational medical routes of patients; organize interaction with colleagues.
General surgery	Know the techniques of applying the main types of bandages to wounds.	To perform temporary stopping of the bleeding.

5. Program results of education		
List of the results of education		
Code of the result of education	Content of the result of education	Reference to the competency matrix code
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Collect data on patient complaints, medical history, life history, conduct and evaluate the results of physical examination.	<i>PRE1</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Evaluate diagnosis information using a standard procedure based on the results of laboratory and instrumental studies.	<i>PRE2</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Highlight the leading clinical symptom or syndrome. Establish the most probable or syndromic diagnosis of the disease. Assign laboratory and / or instrumental examination of the patient. Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.	<i>PRE3</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Determine the necessary mode of work and rest in the treatment of the disease.	<i>PRE4</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Determine the necessary medical nutrition in the treatment of the disease.	<i>PRE5</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Determine the principles and nature of treatment (conservative, surgical) disease.	<i>PRE6</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Determine the tactics of emergency medical care based on the diagnosis of emergency.	<i>PRE7</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Provide emergency medical care based on an emergency diagnosis.	<i>PRE8</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Organize medical and evacuation measures among the population and servicemen, taking into account the existing system of medical and evacuation support.	<i>PRE9</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Perform medical manipulations.	<i>PRE11</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	To form dispensary groups of patients among the fixed contingent of the population; groups of healthy people subject to dispensary supervision. Implement a system of anti-epidemic and preventive measures within the primary health care. Implement a system of primary prevention measures within the primary health care. Organize secondary and tertiary prevention measures among the assigned contingent of the population.	<i>PRE12</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	To determine the tactics of examination and secondary prevention of patients subject to dispensary supervision; tactics of examination and primary	<i>PRE14</i>

	prevention of healthy persons subject to dispensary supervision; calculate and prescribe the necessary food for children in the first year of life.	
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Determine the presence and degree of restrictions on life, type, degree and duration of disability with the execution of relevant documents.	<i>PRE15</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Prepare an annual report on personal production activities; keep medical records of the patient and the population.	<i>PRE16</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Conduct screening for major non-communicable diseases; evaluate morbidity indicators, integrated health indicators; identify risk factors for the occurrence and course of diseases; to form risk groups of the population. Determine the source and / or location of the required information depending on its type; receive the necessary information from a specific source; process and analyze the received information.	<i>PRE17</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Identify negative environmental factors; analyze the state of health of a certain contingent; determine the relationship between the state of the environment and the state of health of a particular contingent; develop preventive measures based on data on the relationship between the state of the environment and the state of health of a particular contingent. Carry out analysis of morbidity of the population, identifying risk groups, risk areas, time of risk, risk factors. Assess the impact of socio-economic and biological determinants on the health of the individual, family, population.	<i>PRE18</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Form goals and determine the structure of personal activities.	<i>PRE21</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.	<i>PRE22</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	To consider and use during performance of the professional activities the civil rights, freedoms and responsibilities, to raise the general educational and cultural level.	<i>PRE23</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2</i>	Adhere to the requirements of ethics, bioethics and deontology during performance of the professional activities.	<i>PRE24</i>
<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i>	Organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.	<i>PRE25</i>

*** Knowledge**

Kn 1 Specialized conceptual knowledge acquired in the process of learning and / or professional activity at the level of the latest achievements, which are the basis for original thinking and innovation, in particular in the context of research work

Kn 2 Critical understanding of problems in teaching and / or professional activities and at the border of subject are

Skills

Skl 1 Solving complex problems and issues that require updating and integrating knowledge, often in conditions of incomplete / insufficient information and conflicting requirements

Skl 2 Conducting research and / or innovation activities

Communication

Com 1 Clear and unambiguous communication of one's own conclusions, as well as the knowledge and explanations that substantiate them, to specialists and non-specialists, in particular to students

Com 2 Use of foreign languages in professional activities

Autonomy and responsibility

Aut 1 Making decisions in difficult and unpredictable conditions, which requires the application of new approaches and forecasting

Aut 2 Responsibility for the development of professional knowledge and practices, assessment of strategic development of the team

Aut 3 Ability to further study, which is largely autonomous and independent

6. Form and volume of the course		
Form of the course	Full-time course	
Type of the lessons	Quantity of hours	Quantity of the groups
practical	10	According to the schedule
Independent study	5	According to the schedule

7. Topics and content of the course				
Code of the type of the lesson	Topic	Content of the lesson	Code of the result of education	Teacher
P-1	Organization of dental care in Ukraine. Principles and methods of dental patients examination. Temporary and permanent teeth, terms and features of their physiological eruption. Non-carious lesions of the teeth. Caries, pulpitis, periodontitis, general principles of treatment and prevention.	Organization of work and equipment of the dental clinic, maxillofacial department of the hospital, operating, dressing. Special equipment, equipment, and tools for examination of patients and performing dental interventions. Medical documentation in the surgical department (office) of the dental clinic and in the maxillofacial department of the hospital. Indicators of the work of the surgeon-dentist. Indications for hospitalization of patients with pathology of maxillofacial area, peculiarities of their examination and rehabilitation. Peculiarities of examination of patients with diseases of the dentoalveolar system, injuries, inflammatory processes, benign, malignant and tumor-like formations, congenital and acquired defects, deformities of the maxillofacial area. Collection of subjective data of the patient. Objective examination: general condition, consciousness. Examination of organs and	<i>Kn1, Kn2, Sk11, Sk12, Com1, Com2, Aut1, Aut2, Aut3</i> <i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 7, PRE 8, PRE 11, PRE 12, PRE 14, PRE 16, PRE 17, PRE 18, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i>	According to the schedule

		<p>systems in the hospital.</p> <p>Examination of the maxillofacial area. Face overview. Palpation.</p> <p>Review of organs and soft tissues of the oral cavity, examination of teeth. General clinical, laboratory and special research methods.</p> <p>Objective methods of research with the use of modern diagnostic equipment. Computed tomography and magnetic resonance imaging, radioisotope, ultrasound diagnostics, remote and contact thermography.</p> <p>Morphological methods: a cytological examination of prints, scissors, puncture material, histological examination of biopsy material. Methods of functional diagnostics: rheography, polarography and electromyography, electroodont diagnostics. Application of computers in diagnostics: decoding of X-rays, planning of operations, results of treatment.</p> <p>Types of bite. Terms of the eruption of deciduous and permanent teeth.</p> <p>Stages of caries, classification of pulpitis and periodontitis. Clinical manifestations, methods of treatment.</p> <p>Classification of non-carious lesions, causes, methods of treatment.</p>		
P-2	<p>Inflammatory diseases of the maxilla-facial area: periostitis, lymphadenitis, osteomyelitis, maxillary sinusitis, sialoadenitis, abscesses and phlegmons of the maxilla-facial area - etiology, pathogenesis, clinical manifestations,</p>	<p>Etiology and pathogenesis of purulent inflammatory diseases of the maxillofacial area.</p> <p>Classification. The role of dental caries and dental damage in the development and spread of inflammation. Definition of the concept of "odontogenic infection" and contemporary ideas about its importance in the development of local general-somatic pathology.</p> <p>Periostitis of jaws. Classification. Acute purulent periostitis of the jaw. Pathogenetic connection with periodontitis. Pathological anatomy. Clinical picture. Differential diagnostics.</p>	<p><i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i></p> <p><i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 7, PRE 8, PRE 11, PRE 21, PRE 22, PRE 23,</i></p>	<p>According to the schedule</p>

	diagnosis, treatment.	<p>Treatment. Indications for tooth extraction in case of acute odontogenic jaw infiltration. Chronic periostitis. Clinical picture, treatment. Osteomyelitis of jaws. Classification. Odontogenic, contact, hematogenous. The role of microflora, nonspecific resistance, the immunological status of the patient, anatomical structure of the jaws in the development of the disease. Clinical picture and differential diagnostics of acute odontogenic osteomyelitis. Complex pathogenetic treatment: surgical, medical therapy, application of physiotherapeutic methods. Consequences and possible complications.</p> <p>Odontogenic sinusitis: classification, clinical picture, diagnosis, differential diagnosis, methods of surgical and conservative treatment. Methods of surgical interventions. Surgical anatomy of interfascial and intermuscular cellular spaces of the head and neck. Definition of the concepts of abscess and phlegmon. Etiology and pathogenesis of the abscess and phlegmon of the maxillofacial area and neck. Ways and mechanisms for spreading the infectious process. Classification of superficial and deep processes. General and local clinical characteristics of the abscess and phlegmons of the pharyngeal and adjacent areas. Etiological and pathogenetic principles of general and local treatment of inflammatory processes. Surgical treatment, its goals. The value of the choice and techniques of the performing of surgical approach. Anesthesia during surgical interventions in case of abscess or phlegmon of different MFA localizations. The use of medications, immunotherapy and</p>	<p><i>PRE 24,</i> <i>PRE 25</i></p>	
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		physiotherapy procedures. Osteophlegmon and adenophlegmon.		
P-3	Diseases of the oral mucosa and periodontal tissues - etiology, pathogenesis, clinical manifestations, diagnosis, treatment. Manifestations of somatic diseases in the maxillofacial area. Tumors and precancerous lesions of the lips red border and oral mucosa.	Recurrent aphthous stomatitis. Clinical manifestations, etiological factors, principles of treatment of patients taking into account somatic pathology. Acute herpetic stomatitis. The main symptoms in children and adults, methods of differential diagnosis. Principles of drug treatment. Manifestations of diseases of the gastrointestinal tract, blood system, cardiovascular and endocrine system in the oral cavity. Facultative precancerous diseases, classification, causes and choice of method Definition of "obligate precancers". Types of these pathologies. Manifestations in the oral cavity. Comprehensive treatment of precancerous diseases.	<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i> <i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 11, PRE 12, PRE 14, PRE 18, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i>	According to the schedule
P-4	Traumatic injuries of hard and soft tissues of the maxilla-facial area. Peculiarities of surgical treatment, general principles of treatment, prevention of early and late complications.	Types of soft tissue damage. Methods of treatment of abrasions and lacerations of SHLD. Principles of surgical treatment of wounds, stages of manipulation, depending on the duration of the intervention. Types of anesthesia and sutures. Drug therapy and postoperative wound care. Classification of traumatic tooth injuries. Dislocations and fractures. Clinical symptoms and methods of treatment. Types of mandibular fractures, the role of masticatory muscles in the displacement of fragments and the main clinical symptoms of violation of the integrity of the jaw bones. Fractures of the upper jaw. Types and clinical manifestations. The role of related specialists in the diagnosis and treatment plan for patients with maxillary fractures. Methods of temporary and permanent immobilization of jaw	<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i> <i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 7, PRE 8, PRE 9, PRE 11, PRE 15, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i>	According to the schedule

		<p>fragments. Types of surgery and indications for local and general anesthesia.</p> <p>Drug therapy in the postoperative period. Principles of rehabilitation of patients.</p> <p>Types of complications and methods of their treatment in the postoperative period.</p>		
P-5	<p>Congenital malformations of the face. Clinical manifestations, diagnosis, principles of treatment and care. Summary lesson.</p>	<p>Factors in the development of congenital facial defects.</p> <p>Pathogenesis of pathology development in utero.</p> <p>Types of congenital malformations</p> <p>Differential diagnosis of nonunion of the upper lip and palate.</p> <p>Clinical picture of overt and covert nonunions.</p> <p>Types of surgical interventions, terms of plastic closure of defects.</p> <p>The role of orthodontist and speech therapist in postoperative rehabilitation of patients</p> <p>Features of medical management of pediatric patients.</p>	<p><i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i></p> <p><i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 11, PRE 14, PRE 15, PRE 17, PRE 18, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i></p>	According to the schedule
SIW -1	<p>Anaesthesia in dentistry. Local, general, potentiated. General complications of local anesthesia, clinical features and urgent care.</p>	<p>General anesthesia for operations in the maxillofacial area.</p> <p>Anesthesia, its types. Indications and contraindications to its implementation.</p> <p>Advantages and disadvantages of anesthesia. Modern classifications of anesthesia risks.</p> <p>Potentiation of local anesthesia.</p> <p>Neuroleptanalgesia.</p> <p>Features of anesthesia in dentistry, maxillofacial surgery.</p> <p>General complications of local anesthesia, treatment and prevention.</p> <p>Emergencies that occur during local anesthesia.</p> <p>Basic principles of emergency resuscitation.</p>	<p><i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i></p> <p><i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 7, PRE 8, PRE 11, PRE 16, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i></p>	According to the schedule
SIW -2	<p>Manifestations of specific</p>	<p>Manifestations of infectious diseases in adults and children.</p>	<p><i>Kn1, Kn2, Skl1, Skl2,</i></p>	According to the

	inflammatory diseases and HIV/AIDS in the oral cavity. Reliable and unreliable signs of AIDS.	<p>The main symptoms.</p> <p>Changes of oral mucosa in diseases of the digestive, cardiovascular, endocrine and hematopoietic systems. The main symptoms.</p> <p>Tuberculosis, syphilis and HIV infection. Their manifestations in the oral cavity, diagnosis, ways and prevention of infection.</p> <p>Tactics of the doctor at detection of changes of oral mucosa.</p> <p>Differential diagnosis of oral mucosa ulcers.</p> <p>Relationship of periodontal lesions, oral mucosa with the general condition of the body.</p> <p>Prevention of diseases of oral mucosa and periodontal tissues.</p>	<p><i>Com1, Com2, Aut1, Aut2, Aut3</i></p> <p><i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 11, PRE 12, PRE 14, PRE 17, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i></p>	schcedule
SIW -3	Benign and malignant tumors of the maxilla-facial area.	<p>Classification of tumors of the maxillofacial area. Theories of carcinogenesis.</p> <p>Examination of patients for the purpose of diagnosing tumors, the role of modern methods of examination (X-ray, radioisotope diagnostics, cytological and histological verification of tumors). Stages of defeat according to the TNM system.</p> <p>Tumor-like formations of the maxillary cyst. Etiology, pathogenesis. Clinic, diagnosis, treatment.</p> <p>Organ-specific benign tumors (odontoma, ameloblastoma, cementoma, epulis): clinic, diagnosis, treatment.</p> <p>Organospecific benign tumors of the thyroid gland (angioma, osteoma, osteoblastoclastoma, fibroma, papilloma): clinical flow, treatment.</p> <p>Malignant tumors of the soft tissues of the maxillofacial area. Lip and tongue cancer - clinic, diagnosis and treatment.</p> <p>Malignant tumors of the salivary glands.</p> <p>Malignant tumors of the lower and upper jaws.</p> <p>Metastases of malignant tumors in the neck. The main methods of</p>	<p><i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i></p> <p><i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 11, PRE 12, PRE 14, PRE 15, PRE 17, PRE 18, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i></p>	According to the schcedule

		treatment of malignant tumors of the maxillofacial area.		
SIW -4	Traumatic injuries of the maxillofacial area, traumatic disease. Classification, pathogenesis, clinical flow, prognosis, peculiarities of treatment, effects of the disease.	Traumatic disease: pathogenesis, clinic, principles of treatment, complications. Complications of injuries of the maxillofacial area (shock, asphyxia, bleeding, etc.). Nutrition and care of patients with trauma. Characteristic features of MFA injuries. Classification of MFA injuries. First aid for facial bone injuries. Pre-medical, first-aid, qualified and specialized care. Clinical interpretation and diagnostic value of laboratory test results.	<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i> <i>PRE 1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 7, PRE 8, PRE 9, PRE 11, PRE 15, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i>	According to the schedule
SIW-5	Factors that influence on the occurrence of congenital malformations of the teeth and face.	Congenital nonunion of the upper lip. Etiology, pathogenesis, classification, clinic, terms and basic principles of treatment. Features of care and nutrition of children with this pathology in the pre- and postoperative period. Congenital nonunion of the hard and soft palate. Etiology, pathogenesis, classification, clinic, terms and basic principles of treatment. Features of care and nutrition of children with this pathology in the pre- and postoperative period. Macro- and micrognathia. Etiology, pathogenesis, classification, clinic, basic principles of treatment. Macro- and microgenia. Etiology, pathogenesis, classification, clinic, basic principles of treatment. Bite abnormalities in children. Classification. Orthodontic equipment, classification of devices, terms of treatment. Prevention.	<i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i> <i>PRE 1, PRE 2, PRE 12, PRE 14, PRE 17, PRE 18, PRE 21, PRE 22, PRE 23, PRE 24,</i>	According to the schedule

System of organization of practical lesson

Duration of practical lesson 2 academic hours - 1 hour 30 minutes, including 10 minutes for a break.

1. Preparatory stage - 20 min.

1.1 Organizational measures - 5 min.

1.2 Setting learning goals and motivation - 5 minutes. Substantiation by the teacher of the importance of the topic of the lesson for further study of the discipline and professional activity of the doctor in order to form motivation and purposeful educational activity. Introducing students to specific goals and lesson plan.

1.3 Control of the initial level of knowledge (standardized control methods) - 10 minutes. Conducting standardized control of the initial level of student training, discussion and answering students' questions.

Educational technologies, materials of methodical support: questions for individual oral and written interrogation, typical situational tasks and tests; tables, models, collapsible models of jaws, textbooks, manuals, reference books, atlas, methodical recommendations according to the subject of the lesson, videos.

2. Main stage – 30 min.

Formation of professional skills and abilities. Collection of anamnesis by students and examination of the thematic patient. Students make a plan of examination of the patient, a plan of additional research methods, fill in the relevant medical documentation, practice the technique of diagnostic manipulations, treatment measures.

Educational technologies, materials of methodical support: patients of dental polyclinic, case histories, selection of results of additional methods of inspection of thematic patients, situational tasks, algorithms of performance of practical skills, models, tools, thematic video materials.

3. Final stage – 30 min.

3.1 Control and correction of the level of professional skills

3.2 Summarizing the lesson.

3.3 Homework. Informing students about the topic of the next lesson. Recommended literature.

Students' independent work includes:

- abstracts of theoretical material, solution of situational problems, control questions on relevant topics of independent work, etc. ;
- creation of multimedia presentations on selected topics of independent work;
- creation of poster presentations on selected topics of independent work;
- writing a medical history according to selected nosologies;
- preparation for practical lessons (lectures, practical, etc.);
- performing tasks on academic discipline during the semester;
- work on certain topics of academic disciplines, which in accordance with the working curriculum of the discipline are submitted for independent study of students;
- preparation for all types of tests;
- performance of tasks provided by the internship program;
- work in student research groups and centers, etc. ;
- participation in "round tables", etc. ;
- participation in scientific and scientific-methodical work of departments, faculties;
- participation in scientific and scientific-practical conferences, Olympiads, etc. ;
- preparation for the final state certification and licensing exam "Step".

In order to organize independent work at the Department of Surgical Dentistry and Maxillofacial Surgery, teachers conduct the following activities:

- group and individual consultations;
- interviews with students;
- systematic control over performance by students of tasks recommended for self-study;
- providing students with means for self-control (tests, packages of control questions and situational tasks);

- analysis and evaluation of student work.

Innovative methods and technologies used in the educational process

Discipline	Names of pedagogical technologies and innovative teaching methods
Manufacturing medical practice from surgical dentistry	<ul style="list-style-type: none"> - Involvement of students in working with well-known electronic databases of medical information (ScienceDirect, PubMed, Panteleimon, etc.) via the Internet; - Use in the pedagogical process of an interdisciplinary approach to the study of dentistry - constant emphasis of students on the connection of the subject with the basic disciplines and related medical specialties; - Involvement of students in assisting in performing surgical interventions, online broadcasting of operations in the methodical office due to the available modern video equipment with simultaneous discussion of the performed manipulations; - Systematic examinations with students of thematic patients and discussion of clinical cases, motivation of students to compile algorithms of diagnostic and therapeutic measures under the conditions of one or another dental pathology.

All necessary materials (methodical support, normative documents, list of questions for current and final control, list of algorithms for practical skills) are presented on the information platform of LNMU named after Danylo Halytsky MISA.

8. Verification of learning outcomes

Current control

Control measures in the study of the discipline "Fundamentals of Dentistry" include current control, final control - semester test credit.

At the start of a new course an initial test is conducted in order to check students' knowledge in disciplines making up the course. The initial test is conducted during first class using the tasks corresponding to the syllabus of previous discipline. Test results are analyzed during department (inter-department) meetings and sessions of methodological committees with participation of academic staff who teach the discipline. Initial test results are used for development of student individual assistance means and academic process correction.

Current control is carried out at each practical lesson in accordance with the specific objectives of each topic. Current control is carried out on the basis of a comprehensive assessment of student activities, including control of the input level of knowledge, the quality of practical work, the level of theoretical training, independent work according to the thematic plan and the results of initial control of knowledge.

Current evaluation is conducted on the basis of comprehensive evaluation of student's activities, including assessment of initial level of knowledge, quality of practical work done, level of theoretical training and final level of knowledge. Forms of routine assessment – tests tasks, situational problems, recitation, structured written task and practical skills assessment under conditions approximating real. Forms of assessment of current learning activities are standardized and meet the standards of answers.

Evaluation of current educational activities. During the evaluation of the mastering of each topic for the current educational activity of the student, marks are set on a 4-point scale (national). This takes into account all types of work provided by the curriculum of discipline. The student must receive a mark from each topic for further conversion of marks into points on a multi-point (200-point) scale.

Evaluation of current student performance is carried out at each practical lesson and is recorded in the journal of academic performance.

Students' knowledge is evaluated from both theoretical and practical training according to the criteria given in the table.

Code of the result of education	Code of the type of the lesson	Method of verifying learning outcomes	Enrollment criteria
<p><i>Kn1, Kn2, Skl1, Skl2, Com1, Com2, Aut1, Aut2, Aut3</i></p> <p><i>PRE1, PRE 2, PRE 3, PRE 4, PRE 5, PRE 6, PRE 7, PRE 8, PRE 9, PRE 11, PRE 12, PRE 14, PRE 15, PRE 16, PRE 17, PRE 18, PRE 21, PRE 22, PRE 23, PRE 24, PRE 25</i></p>	<p>P-1 P-2 P-3 P-4 P-5</p> <p>SIW-1 SIW-2 SIW-3 SIW-4 SIW-5</p>	<p>package of test tasks; open questions, practical skills</p>	<p>- "excellent" – a student has perfectly mastered the theoretical material, demonstrates profound and comprehensive knowledge of a relevant topic or discipline as well as the main ideas of scientific sources and recommended literature; thinks logically and gives a logically built answer; freely uses theoretical knowledge gained during analysis of practical material; expresses attitude towards various problems; demonstrates a high level of practical skills;</p> <p>- "good" – a student has mastered theoretical material well, is aware of the main theoretical principles discussed in scientific sources and recommended literature and is capable of substantiating them; has practical skills and expresses opinion on this or that issue yet may be inaccurate and erroneous when presenting theoretical material or analyzing the practical material;</p> <p>- "satisfactory" – a student has generally mastered theoretical material on the topic or discipline, is aware of the scientific sources and recommended literature, yet is uncertain when answering and additional questions cause him/her to give an unclear answer or no answer at all; when answering practical questions a student demonstrate inaccuracies, is not capable of evaluating facts and phenomena and linking them to future activities;</p> <p>- "unsatisfactory" – a student has not mastered the material of the topic (discipline); has no knowledge of scientific facts and definition; is hardly aware of the scientific sources and recommended literature; he/she lacks academic thinking, practical skills have not been formed.</p> <p>The evaluation criteria by type of</p>

Criteria for evaluating the test task

"Excellent" - the student solved 95-100% of the proposed set of test tasks;

"Good" - the student solved 80-94% of the proposed set of test tasks;

"Satisfactory" - the student solved 60.5-79% of the proposed set of test tasks;

"Unsatisfactory" - the student solved less than 60.5% of the proposed set of test tasks.

Criteria for evaluating the package of open questions

The task includes 5 open questions on the topic of practical lesson. The cost of each question is 1 point, or 20%. The results of the answers are summarized and rated on a five-point scale:

5 "excellent" - 4.5-5 points;

4 "good" - 3.5-4 points;

3 "satisfactory" - 3 points;

2 "unsatisfactory" - 2 or less points.

Each of the questions is evaluated according to the following criteria:

1 point - the student perfectly mastered the theoretical material of the topic of the lesson; independently, competently and consistently with exhaustive completeness answered questions; demonstrates deep and comprehensive knowledge, logically builds the answer, expresses his attitude to certain problems; is able to establish causal relationships, logically and reasonably draw conclusions; unmistakably answers questions using materials submitted for independent work.

0.75 points - the student has mastered the theoretical material of the topic of the lesson, teaches it; reveals the main content of educational material, gives incomplete definitions, allows minor violations in the sequence of presentation of material and inaccuracies in the use of scientific terms, vaguely formulates conclusions, expresses its views on certain issues, but assumes certain errors in the logic of theoretical content.

0.5 points - the student has mainly mastered the theoretical material of the lesson, fragmentarily reveals the content of educational material, shows the initial idea of the subject of study, when reproducing the basic educational material makes significant mistakes, gives simple examples, unconvincing answers, confuses concepts.

0 points - the student has not mastered the educational material of the topic, does not know the basic definitions, concepts; gives the wrong answer to the questions.

Criteria for evaluation of the practical skills

"Excellent" - the student has full practical skills, is able to connect theory with practice.

"Good" - the student partially has a practical skill, correctly applies the theoretical provisions in solving practical problems.

"Satisfactory" - the student has only a mandatory minimum of practical tasks, familiar with the technique of performing.

"Unsatisfactory" - the student does not have practical skills.

Evaluation of the students' independent work

The material for independent work of students, which is foreseen in the topic of practical lessons at the same time as classroom work, is evaluated during the current control of the topic of the relevant lesson. Evaluation of topics that are submitted for independent work and are not included in the topics of practical lessons, are controlled during the final control.

In the process of control measures the teacher evaluates:

- the level of assimilation by the student of the educational material submitted for independent processing;
- ability to use theoretical knowledge in performing practical tasks;
- validity and logic of presentation of independently studied material;
- completeness of disclosure of the research topic;

- registration of materials according to the requirements.

Marks on the performance or non-performance of various types of independent work of students are placed in the teacher's Journal of attendance and performance of students.

Possible forms of independent work of students, forms of control and reporting

Types and forms of independent work of students	Forms of conduction, control and reporting
<i>1. Preparation for current practical lessons</i>	
1.1. Study of required and additional literature, texts of the lectures etc.	1.1. Active participation in various types of practical lessons and lectures
1.2. Performing of hometasks	1.2. Checking the correctness of the tasks
1.3. Preparation for practical lessons	1.3. Active participation in practical lessons
1.4. Preparation for control works and to another forms of current control	1.4. Writing of control work etc.
<i>2. Research-analytic work</i>	
2.1. Search (selection) and review of literature sources on a given issue	2.1. Consideration of prepared materials during practical lessons
2.2. Writing of the referate on a given issue	2.2. Discussion (defense) of the materials of the referate during practical lessons or checking of the work by the teacher
2.3. Analytical review of a scientific publication	2.3. Discussion of the results of the work done during practical lessons
2.4. Analysis of a specific clinical situation	2.4. Examination of patients, acquaintance with results of examination, filling in of the documentation
2.5. Workshop on the educational discipline using software	2.5. Checking the correctness of performing of the tasks
<i>3. Scientific work</i>	
3.1. Participation in scientific student conferences and seminars	3.1. Approbation of research results at scientific student conferences and seminars
3.2. Preparation of scientific publications	3.2. Discussion with the teacher of the prepared materials, submission to the press the results of scientific researches
3.3. Execution of tasks within the research projects of the department (faculty)	3.3. Use of research results in the SRW report, preparation of work papers for the competition of student research papers

Final control

Final control - semester test credit - is a form of final control, which consists in assessing the student's mastery of educational material solely on the basis of the results of his performance of certain types of work on practical lessons. It is conducted in accordance with the curriculum within the timeframe set by the schedule of the educational process and in the amount of educational material determined by the curriculum of the discipline.

Semester test credit of the discipline is conducted after the end of its study, before the examination session.

To the final control are admitted the students who have attended all practical lessons foreseen by the curriculum in the discipline and scored at least the minimum number of points for the current evaluation. For students who have missed 3 or more practical lessons, these lessons can be repassed with the permission of the dean's office to eliminate academic debt by a certain deadline within the semester.

Final controls are held by lecturers who had practical classes in the academic group. Students are admitted to the semester final control if they perform all types of assignments foreseen by syllabus and curriculum.

Evaluation of the student's work during semester must be recorded (in academic journal, grade report sheet, student credit book). Tests and individual assignments performed by students during the term are kept at the department for a year.		
General system of evaluation	Participation in the work during the semester - 100% on a 200-point scale	
Scales of evaluation	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of admission to the final control	The student attended all practical lessons, met the requirements of the curriculum and received at least 120 points for current evaluation.	
Type of the final control	Method of performing of final control	Enrollment criteria
Semester test credit	Assessment of the discipline is based solely on the results of current educational activities and is expressed on a two-point national scale: "credited" or "not credited". All topics submitted for current control must be included. Marks from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of students' learning activities."	<i>Maximum number of points</i> is 200 points. <i>Minimum number of points</i> is 120 points. To be enrolled, a student must receive at least 60% of the maximum amount of points of the discipline (120 points) for the current educational activity. Points of the discipline are ranked on the ECTS scale.
<p>Calculation of the number of points is conducted on the basis of grades under traditional grade scale received by the student during the term by determining arithmetic average (AA) rounded off to the nearest hundred. The resulting value is then converted into points according to the multipoint grade scale using the following procedure:</p> $x = \frac{AA \times 200}{5}$		

9. Policy of the course

During studying the discipline, the policy of academic integrity is ensured in accordance with the **Law of Ukraine "On Education". Article 42 "Academic Integrity". URL: <http://zakon0.rada.gov.ua/laws/show/2145-19/page3>,**

Adherence to academic integrity by students involves:

- independent performance of educational tasks, tasks of current and final control of learning outcomes;
- links to sources of information in the case of ideas, developments, statements, information;
- personal presence at all lectures and practical classes, except for cases caused by good reasons;
- providing reliable information about the results of their own educational (scientific, creative) activities, used research methods and sources of information.

Adherence to academic integrity by teachers involves:

- providing quality educational services;
- objective evaluation of learning outcomes.
- monitoring the observance of academic integrity by students;

- systematic and continuous professional development through self-development and self-improvement;
- compliance with internal regulations, work discipline, corporate ethics;
- informing students about typical violations of academic integrity and responsibilities.

Teachers, researchers and educators may be held academically liable for violations of academic integrity.

10. Literature

Basic:

1. Oral and maxillofacial surgery= Хірургічна стоматологія та щелепно-лицева хірургія. Part1: textbook for the students of stomatological faculties of higher medical education establishments of the IV level of accreditation / V. O. Malanchuk [et al.] ; ed. V. Malanchuk. – Вінниця: Нова книга, 2011
2. Oral and maxillofacial surgery= Хірургічна стоматологія та щелепно-лицева хірургія. Part2: textbook for the students of stomatological faculties of higher medical education establishments of the IV level of accreditation / V. O. Malanchuk [et al.] ; ed. V. Malanchuk. – Вінниця: Нова книга, 2011.

Additional:

1. Atlas of Human Anatomy / F. Netter – 2nd ed. – New Jersey: ICON Learning Systems. – 592 p.
 2. Bauml, Philips R.W., Lund M.R. Textbook of Operative Dentistry = Підручник з хірургічної стоматології.- 3-rd ed.- Philadelphia: Saunders, 1995.- 661p.
 3. Kharkov L. V. Pediatric oral and maxillofacial surgery : a textbook for students of higher medical educational institutions of the III-IV levels of accreditation / L. V. Kharkov, L. M. Yakovenko, N. V. Kiselyova ; ed. by L. V. Kharkov. - Kyiv : AUS Medicine Publishing, 2015. - 103 с.
 4. PETERSON'S PRINCIPLES OF ORAL AND MAXILLOFACIAL SURGERY Third Edition, Vol. 1, 2012. - 2000 p.
 5. PETERSON'S PRINCIPLES OF ORAL AND MAXILLOFACIAL SURGERY Third Edition, Vol. 2, 2012. - 1772 p.
 6. Pohranychna, Ch. R. Infections of the maxillofacial area : guide of lectures on oral and maxillofacial surgery for the english-medium students of the 3rd year education at dentistry faculty (spring semester) [Текст] : methodological guide / Ch. R. Pohranychna, R. Z. Ogonovsky. - Lviv, 2011.
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11. Equipment and software of the discipline / course

In order to introduce new educational technologies, implement the concept of visualization of the educational process and mastering by students the manual skills of basic dental surgical manipulations by the staff of the department during 2013-2019, the following organizational and methodological activities were carried out.

With the help of sponsorship, the use of a local computer network and modern video

equipment was created and established, which provides online broadcasting of surgical interventions in classrooms, which allows students to "virtually" be in the operating room, discuss with teachers and surgeons the operation. or other surgical manipulations, etc. Based on the video footage of surgical interventions, a video library was created for demonstration during the relevant thematic classes. The video library of the department also contains advertising films with the products of the companies "Septodont" (France), "Kolapan" (Russia), "Conmet" (Russia), "Geistlich" (Switzerland), "Synthes" (Switzerland), "Ihde Dental" (Switzerland), "BTI" (Spain), etc., the demonstration of which expands students' imagination about modern technologies in surgical dental practice. Thanks to the cooperation with the Center for Medical 3D Diagnostics (Lviv), the use of the program for decoding radiographs and computer tomograms "Point Nix" (Korea) was introduced into the educational process, which will allow students to better navigate the issues of radiological diagnostics of various surgical dental pathologies. Employees of the department created and implemented in the educational process author's computer programs for diagnostics and planning of cystectomy operations and atypical removal of lower third molars "RTG ruler" and "Xray analyzer" for which received patents of Ukraine for inventions and acts of implementation in practical medicine.

A phantom class of the Department of Surgical Dentistry and the Department of Surgical Dentistry has been created, which is equipped with modern computer and video equipment for demonstration of operations and thematic films. For demonstration and practical mastering by students of skills of carrying out local anesthetics in a maxillofacial area and operation of tooth extraction the phantom class is provided with phantoms of the head with replaceable modules of jaws (4 pieces), collapsible models of a skull and jaws (6 pieces), sets of tools for tooth extraction, performing surgical interventions in the maxillofacial area.

To demonstrate and practice practical skills in providing care for traumatic injuries of the MFA, the phantom class is equipped with equipment and models for testing the technique of mono- and intermaxillary splinting, osteosynthesis of facial bones (3 models of the skull with imitation fractures of the upper jaw and chin-orbital complex, 55 models with imitation of mandibular angle fractures, 45 models with imitation of mandibular symphysis fractures, 40 models with imitation of mandibular fractures of the mandible, 3 holders for fixing models to the work surface, Synbone, Switzerland).

In 2018, the department received a full-fledged resuscitation simulator with a control device (ONICO) for visualization and practice of emergency care skills.

Practical lessons from "Manufacturing medical practice from surgical dentistry" are provided with methodological and illustrative material, respectively. Visualization of algorithms of performance of practical skills by video presentations is provided.

12. Additional information

- responsible person at the department for practice: professor Vares Ya.E., associate professor Medvid Yu.O., associate professor Pogranichna H.R., associate professor Krypnyk N.M., associate professor Filipyskyi A.V.
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- practical lessons are held on clinical bases of practice in accordance with the distribution and referral of students for manufacturing medical practice from surgical dentistry.
- final control is carried out on the clinical bases of the Department of Surgical Dentistry and Maxillofacial Surgery:
 - Lviv, Nekrasova street, 6, Lviv Regional Clinical Hospital, Department of Maxillofacial Surgery,
 - Lviv, Mykolaychuka street, 9, Municipal City Clinical Hospital of Ambulance, Department of Maxillofacial Surgery,
 - Lviv, Pekarska street, 69B, Dental Medical Center of LNMU.

all necessary materials (methodical support, normative documents, list of questions for current and final control, list of algorithms of practical skills, criteria for discipline assessment, schedule of consultations, etc.) are presented on the website of the department and information platform of

Syllabus creator

Yan Vares, DDS, Professor

Yu.O. Medvid, CMS, Associate Professor

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Head of the Department

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