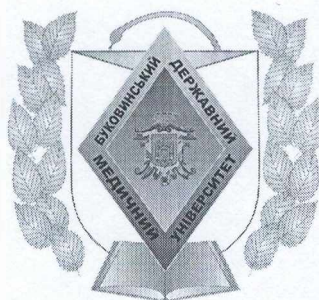


MINISTRY OF HEALTH OF UKRAINE
BUKOVINIAN STATE MEDICAL UNIVERSITY

«APPROVED»

Vice-rector of the higher education institution
for scientific and pedagogical work
and international relations

«30» June 2025 Oksana GODOVANETS



STUDENT'S GUIDE
(SYLLABUS)
for studying the academic discipline

«THERAPEUTIC DENTISTRY»

Field of knowledge	22 Healthcare
Specialty	221 Dentistry
Degree of higher education	Doctor of Philosophy (PhD)
Academic year	I, II, III
Form of education	full-time (daytime, evening), part-time
Department	Therapeutic Dentistry

Approved at a meeting of the Department of Therapeutic Dentistry
on «20» June 2025 (Protocol № 13).

Head of Department

(signature)

Viktor BATIG

Approved by the subject methodology commission for dental disciplines of
Bukovinian State Medical University

on «26» June 2025 (Protocol № 6).

Chair of the Subject Methodological Commission

(signature)

Nataliia KUZNIAK

Chernivtsi, 2025

1. GENERAL INFORMATION ABOUT SCIENTIFIC AND PEDAGOGICAL STAFF TEACHING THE ACADEMIC DISCIPLINE

Department	Therapeutic Dentistry
Surname, first name, patronymic of scientific and pedagogical workers, position, academic degree, academic title, e-mail	Batig Viktor Markianovich - Doctor of Medical Sciences, Professor, Head of the Department of Therapeutic Dentistry batig.viktor@gmail.com Ostafiichuk Marianna Oleksandrivna - Candidate of Medical Sciences, Associate Professor of the Department of Therapeutic Dentistry ostafijchuk.marianna@bsmu.edu.ua
Department webpage on the official university website	https://sites.google.com/bsmu.edu.ua/therapeutic-stomatology
Department website	https://www.bsmu.edu.ua/terapevtichnoyi-stomatologiyi/
E-mail	dentistry_ther@bsmu.edu.ua
Address	Marka Vovchka str.2, Chernivtsi
Contact number	+38 (0372) 52-46-64

2. GENERAL INFORMATION ABOUT THE ACADEMIC DISCIPLINE

Status of the discipline	elective
Number of credits	12
Total number of hours	360
Lectures	20
Practical classes	80
Self-study work	260
Type of final assessment:	final exam

3. DESCRIPTION OF THE ACADEMIC DISCIPLINE (ABSTRACT)

The academic discipline «Therapeutic Dentistry» is designed to train students of the third (educational and scientific) level of higher education in the specialty 221 'Dentistry' and is aimed at forming in-depth theoretical knowledge, clinical thinking and scientific competencies in the field of diagnosis, treatment and prevention of diseases of hard tooth tissues, pulp and periapical tissues.

The discipline covers modern concepts of therapeutic dentistry, principles of minimally invasive treatment, the use of innovative dental materials and technologies, as well as the integration of evidence-based medicine into clinical practice. Considerable attention is paid to the analysis of modern international clinical recommendations, critical evaluation of scientific research and the implementation of scientific results in healthcare practice.

Studying this discipline helps develop postgraduate students' ability to conduct independent research, plan and conduct clinical and experimental studies, prepare scientific publications, and participate in academic teaching. The knowledge and competencies acquired form the basis for interdisciplinary interaction, further specialisation and the completion of a dissertation in the field of dentistry.

The subject of study is: acquiring and deepening a complex of knowledge, practical skills and abilities, forming professional competencies sufficient for generating new ideas, solving complex tasks necessary for independent medical practice, the formation of a dentist as an organiser and coordinator of therapeutic, diagnostic and preventive work, the mastery of the methodology of scientific and pedagogical activity, as well as the conduct of one's own scientific research that solves the current scientific problem of therapeutic dentistry, the results of which have scientific novelty, theoretical and practical significance.

4. ACADEMIC DISCIPLINE POLICY

4.1. List of regulatory documents:

- Regulations on the organisation of the educational process – <https://cutt.ly/ArUqCMFh>;
- Instructions for assessing the academic performance of PhD students at BSMU in the context of the implementation of the European Credit Transfer System for the organisation of the educational process – <https://surl.li/acuduy>;
- Regulations on the procedure for making up missed and uncredited classes – <https://cutt.ly/jrUqBS36>;
- Regulations on appealing the results of final knowledge assessment of higher education applicants – <https://cutt.ly/3rUqMAbV>;
- Code of Academic Integrity – <https://cutt.ly/FrUq1ljK>;
- Regulations on the prevention of academic plagiarism – <https://cutt.ly/MrUq6QAt>;
- Regulations on the procedure and conditions for the selection of elective disciplines by students – <https://cutt.ly/srUwo6Ci>;
- Regulations on the Procedure for Recognising Learning Outcomes Achieved through Non-Formal and/or Informal Education – <https://cutt.ly/SrUwpl1e>;
- Rules of Conduct for Students – <https://cutt.ly/ErUq72rZ>;
- Internal labour regulations – <https://cutt.ly/UrUwiACe>;
- Regulations on the training of students pursuing a Doctor of Philosophy or Doctor of Science degree – <https://surl.li/aygfsk>;
- Regulations on the procedure for awarding the degree of Doctor of Philosophy and revoking the decision of a one-time specialised academic council at Bukovinian State Medical University – <https://surl.li/zoclfj>;
- Regulations on the Commission on Biomedical Ethics <https://surl.lt/hcmnln>;
- Regulations on primary documentation and the commission for verification of primary documentation <https://surl.lt/hcmnln>.

4.2. Policy on compliance with the principles of academic integrity by students:

- independent completion of individual assignments and correct citation of sources of information when borrowing ideas, statements, or information;
- creation of an effective system for preventing and detecting academic plagiarism in scientific works.

4.3. Policy on compliance with the principles and norms of ethics and deontology by students:

- acting in professional and educational situations from the standpoint of academic integrity and professional ethics and deontology;
- compliance with the university's internal regulations and rules of conduct for students, being tolerant, friendly and thoughtful in communication with students and staff of departments, healthcare institutions, etc.;
- recognising the importance of examples of human behaviour in accordance with the norms of academic integrity and medical ethics.

4.4. Policy on attendance of classes by students:

- Attendance at all classes (lectures, practical classes) is mandatory for the purposes of ongoing and final assessment of knowledge (except in cases of valid reasons).

4.5. Policy on deadlines and making up for missed or uncredited classes by higher education students:

- Missed classes are reworked according to the schedule for reworks of missed or uncredited classes and consultations.

5. PREREQUISITES AND POSTREQUISITES OF THE ACADEMIC DISCIPLINE (INTERDISCIPLINARY CONNECTIONS)

List of academic disciplines on which based the study of the academic discipline	List of academic disciplines for which the foundation is laid as a result of studying the academic discipline
Social medicine, public health and the fundamentals of evidence-based medicine	
Therapeutic dentistry	
Radiology	
Internal medicine	

6. GOAL AND OBJECTIVES OF THE COURSE:

1. **The aim** of studying the academic discipline ‘Therapeutic Dentistry’ is to acquire and deepen a complex of knowledge with which a candidate for the degree of Doctor of Philosophy (hereinafter referred to as a postgraduate student) conducts research, in particular, mastering the basic concepts, understanding the theoretical and practical problems, the history of development and the current state of scientific knowledge in the chosen speciality, and mastering the terminology of the scientific field under study. Therapeutic dentistry studies the causes, pathogenesis and diagnosis of diseases of the teeth, periodontium and oral mucosa, and develops methods of treatment aimed at preserving their structure and function. It also studies methods of preventing major dental diseases and most of their complications.

2. The main objectives of studying the discipline are:

- Identify new scientific directions in the field of therapeutic dentistry, theoretical and practical problems of medicine in this field;
- Master the terminology of the scientific field under study;
- Study the latest methods of research and treatment in the practice of a dentist-therapist;
- Identify the aetiological and pathogenetic factors of the most common diseases of hard and soft tissues in the oral cavity;
- Analyse typical and atypical clinical pictures of common diseases in the oral cavity, identify their complications;
- Develop a plan for examining patients and analyse laboratory and instrumental examination data for the most common diseases of the oral cavity and their complications, assess the prognosis for the life and working capacity of patients;
- Conduct differential diagnosis, justify and formulate a diagnosis of the most common diseases of the oral cavity in the practice of a dentist-therapist;
- Diagnose and provide medical assistance in emergency situations.
- Conduct primary and secondary prevention in patients with the most common diseases of the oral cavity in the practice of a dentist-therapist.

7. COMPETENCIES THAT THE ACADEMIC DISCIPLINE HELPS TO DEVELOP:

1. **Integral competence:** the ability to generate new ideas, solve complex problems in dentistry

and related interdisciplinary problems, apply scientific and pedagogical methodologies, and conduct independent scientific research whose results are scientifically novel and have theoretical and practical significance.

2. *General competencies:*

GC01. Ability to solve complex problems based on a systematic scientific worldview and general cultural outlook, while adhering to professional ethics and academic integrity.

GC02. Ability to search for, process and analyse information from various sources.

GC03. Ability to think abstractly, analyse and synthesise.

GC04. Ability to work in an international context.

3. *Professional (special) competencies:*

SC01. Ability to conduct original research, achieve scientific results that create new knowledge in dentistry and related fields of medicine, and can be published in leading international scientific journals.

SC02. Ability to initiate, develop and implement comprehensive innovative projects in the field of dentistry and related interdisciplinary projects.

SC03. Ability to present and discuss the results of scientific research and innovative projects in the field of dentistry orally and in writing in the state language and one of the official languages of the European Union, to publish research results in leading international scientific publications.

SC04. Ability to carry out scientific and pedagogical activities in the specialty 'Dentistry' in higher education institutions.

SC05. Ability to generate new ideas for the development of dental theory and practice, identify problems, pose and solve research problems in the field of healthcare, evaluate and ensure the quality of research conducted in dentistry.

SC06. Ability to apply modern digital technologies, databases and other electronic resources, specialised software in scientific and educational activities.

SC07. Ability to critically analyse, evaluate and synthesise new and complex ideas in the field of dentistry and related interdisciplinary issues.

SC08. Ability to continuously develop and improve oneself.

8. LEARNING OUTCOMES.

The academic discipline ensures the formation of the following programme learning outcomes (LOs):

LO01. To have conceptual and methodological knowledge in dentistry and related subject areas, as well as research skills sufficient to conduct scientific and applied research at the level of the latest global achievements in the relevant field, to acquire new knowledge and/or implement innovations.

LO02. Have a deep understanding of the general principles and methods of human health sciences, the main trends in their development, as well as the methodology of scientific research, and apply them in their own scientific research in the field of dentistry and in teaching practice.

LO03. Freely present and discuss with specialists and non-specialists the results of research and applied problems of dentistry in the state and foreign languages, publish research results in scientific publications in leading international scientific journals.

LO04. Formulate and test hypotheses; use appropriate evidence to substantiate conclusions, in particular the results of theoretical analysis, experimental research, statistical data analysis, and available literature data.

LO05. Apply modern tools and technologies for searching, processing and analysing medical and biological information, in particular statistical methods for analysing large volumes and/or complex structures of data, specialised databases and information systems.

LO06. Apply general principles and methods of research in the field of healthcare, as well as modern methods and tools, digital technologies and specialised software for conducting research in the field of dentistry.

LO07. Develop and implement scientific and/or innovative medical projects that enable the rethinking of existing knowledge and the creation of new holistic knowledge and/or professional practice, and solve significant problems in the field of medicine.

LO08. Organise and implement the educational process in the field of dentistry, its scientific, educational, methodological and regulatory support, develop and apply innovative teaching technologies, develop and teach special academic disciplines in higher education institutions.

LO09. Plan and conduct research in dentistry and related interdisciplinary fields using modern tools and adhering to the norms of professional and academic ethics, bioethics, good clinical practice (GMP), critically analyse the results of one's own research and the results of other researchers in the context of the entire body of modern knowledge.

LO10. Develop and research models of processes and systems, effectively use them to obtain new knowledge and/or create innovative products in the field of dentistry and related interdisciplinary areas.

Following completion of this course, students should:

1. Know:

- modern concepts, principles and directions of development of therapeutic dentistry;
- aetiology, pathogenesis, clinical manifestations and classification of diseases of hard tooth tissues, pulp and periapical tissues;
- modern methods of clinical, instrumental and radiological diagnostics in therapeutic dentistry;
- properties, indications and limitations of modern dental materials;
- principles of minimally invasive treatment and biological approach;
- modern protocols for the treatment of caries and its complications, endodontic diseases;
- international clinical recommendations and guidelines (ESE, AAE, etc.);
- principles of evidence-based medicine and clinical research methodology in dentistry;
- requirements for academic integrity in scientific and educational activities.

2. Be able to:

- conduct comprehensive diagnostics of hard tissue and endodontic diseases;
- justify the choice of treatment methods from the perspective of evidence-based medicine;
- apply modern and innovative treatment methods in clinical practice;
- use modern dental materials in accordance with the clinical situation;
- interpret the results of X-ray and digital examination methods;
- analyse and critically evaluate scientific publications;
- plan and implement scientific research in the field of therapeutic dentistry;
- formulate scientific conclusions and recommendations;
- integrate the results of scientific research into clinical and teaching activities.

3. Demonstrate:

- ability to think clinically and make informed professional decisions;
- knowledge of modern clinical treatment protocols;
- skills in interdisciplinary collaboration in complex clinical cases;
- ability to conduct independent research;
- skills in presenting the results of scientific activity;
- adherence to the principles of evidence-based medicine and academic integrity;

- readiness for teaching at higher medical education institutions.

9. INFORMATION CONTENT OF THE ACADEMIC DISCIPLINE

The course is credited with 12 ECTS credits, 360 hours, including: lectures – 20 hours, practical classes – 80 hours, self-study work – 260 hours.

Description of each module of the discipline:

Module 1. Management of dental patients in the practice of a dentist-therapist in accordance with modern standards and recommendations

Content module 1. Modern standards, protocols and principles of dental patient management.

Specific objectives:

- To learn modern international and national standards for the provision of dental care in the practice of a dentist-therapist.
- To master the algorithms for clinical examination of dental patients in accordance with current recommendations.
- Develop an understanding of the principles of evidence-based medicine and their application in therapeutic dentistry.
- Learn to use clinical protocols (ESE, AAE, etc.) in diagnosis and treatment planning.
- Develop skills in assessing individual risk factors and stratifying patients.
- Develop the ability to justify the choice of diagnostic and treatment methods based on current standards.
- Master the principles of minimally invasive and biologically oriented treatment.
- Develop skills in maintaining medical records in accordance with current requirements.
- Ensure compliance with the principles of patient safety, infection control and professional ethics.
- Prepare applicants for critical analysis and implementation of new clinical recommendations in practice and teaching activities.

Topic 1. Dental caries. Current understanding of aetiology and pathogenesis. Clinical presentation, diagnosis and modern methods of treating dental caries. Non-invasive treatment methods.

Lecture. Dental caries: diagnosis, differential diagnosis; modern methods of treatment, prevention and complications. (2 hours)

Practical class (4 hours)

Control questions:

- Modern concepts of the aetiology and pathogenesis of caries;
- Examination methods;
- Clinical presentation, differential diagnosis and treatment of caries;
- Errors and complications in the diagnosis and treatment of caries.

Self-study work (10 hours)

Control questions:

- Therapeutic and isolating liners in the treatment of caries;
- Instruments used in the treatment of caries;
- Cements used in the treatment of caries;
- Composite materials used in the treatment of caries;
- Examination methods;
- Errors and complications in the diagnosis and treatment of caries;
- Modern concepts of the aetiology and pathogenesis of caries;
- Examination methods;
- Clinical presentation, differential diagnosis and treatment of caries;
- Errors and complications in the diagnosis and treatment of caries.

Topic 2. Pulpitis. Clinical presentation, diagnosis and modern methods of treatment of various forms of pulpitis.

Lecture. Diseases of the dental pulp: diagnostic criteria, differential diagnosis; principles of treatment, prevention and complications (2 hours).

Practical class (4 hours)*Control questions:*

- Etiology, pathogenesis of dental pulp inflammation;
- Classification, clinical presentation, differential diagnosis of various forms of pulpitis in adults;
- Methods of pulpitis treatment;
- Physical methods of pulpitis treatment;
- Errors and complications in the diagnosis and treatment of pulpitis, prevention and elimination.

Self-study work (10 hours)*Control questions:*

- Instruments for mechanical root canal treatment;
- Means for irrigating root canals in pulpitis;
- Methods of anaesthesia in the treatment of various forms of pulpitis;
- CT method for the diagnosis of pulpitis and its complications;
- X-ray methods for the diagnosis of pulpitis and its complications.

Topic 3. Periodontitis. Clinical presentation, diagnosis and modern methods of treatment of various forms of periodontitis. The effectiveness of physiotherapy methods in the treatment of periodontitis.

Lecture. Periodontal inflammation: diagnosis, differential diagnosis; modern methods of treatment, prevention and complications. Modern methods of treating apical foci of infection (2 hours).

Practical class (4 hours)*Control questions:*

- Aetiology and pathogenesis of periodontitis. Clinical presentation, differential diagnosis of acute and chronic forms of periodontitis.
- Methods of treating periodontitis.
- Conservative and surgical methods of periodontitis treatment. Errors, complications and their elimination.
- Errors and complications in the diagnosis and treatment of periodontitis, prevention and elimination.
- Effectiveness of physical procedures in the treatment of periodontitis.
- Complications of periodontitis. Methods of their prevention.

Self-study work (10 hours)*Control questions:*

- Radiological characteristics of changes in the periodontium according to S.A. Vaindrukh;
- Features and main stages of periodontitis treatment in intact filled teeth and teeth with carious cavities;
- Treatment of periodontitis with difficult-to-access and impassable root canals;
- Medicines and methods for widening root canals;
- Accelerated methods of periodontitis treatment: indications, medicinal substances, methodology;
- Physical methods in the complex treatment of periodontitis;
- Complications in the treatment of periodontitis, their causes, prevention, elimination and treatment measures;
- Methods for removing pulp and putrid masses in various forms of pulpitis and periodontitis; medicinal substances;
- Treatment of chronic periodontitis complicated by root cysts; main stages of treatment;
- Use of modern technologies in the treatment of apical forms of periodontitis.

Topic 4. Periodontal disease. Current understanding of the aetiology and pathogenesis of periodontal disease. Terminology. Classifications. Diagnosis, differential diagnosis and modern methods of treatment.

Lecture. Modern views on the aetiology and pathogenesis of periodontal tissue pathology. Idiopathic diseases: clinical presentation, differential diagnosis, treatment, prevention (2 hours).

Lecture. Treatment of patients with periodontal tissue pathology: general principles, drugs used in the complex therapy of patients with periodontal tissue pathology (2 hours).

Practical class (2 hours)

Control questions:

- Current understanding of the aetiology and pathogenesis of periodontal diseases
- Clinical presentation, diagnosis, differential diagnosis of periodontal diseases
- Methods of complex treatment of periodontal diseases
- Oral hygiene in periodontal diseases
- Physical methods of treating periodontal diseases
- Errors and complications in the diagnosis and treatment of periodontal diseases

Self-study work (10 hours)

Control questions:

- The significance of immune disorders in the pathogenesis of periodontal diseases.
- The mechanism of clinical pocket formation.
- Method for determining the functional state of periodontal vessels.
- Blood test. Clinical significance.
- Periodontal tumours. Differential diagnosis with hypertrophic gingivitis.
- X-ray picture of periodontitis.
- Principles and treatment plan for patients with periodontitis.

Topic 5. Diseases of the oral mucosa in adults. Traumatic and ulcerative-necrotic lesions.

Lecture. Changes in the oral mucosa in various concomitant general somatic pathologies (2 hours).

Practical class (4 hours)

Control questions:

- Traumatic and ulcerative-necrotic lesions of the oral mucosa.
- Viral diseases. HIV infection. AIDS.
- Mycoses of the oral mucosa.
- Allergic diseases.
- Multiform exudative erythema.
- Anomalies and diseases of the tongue.
- Chronic recurrent aphthous stomatitis.
- Diseases of the lips.
- Changes in the mucous membrane in dermatoses with an autoimmune component.
- Physical methods in the complex treatment of diseases of the oral mucosa.

Self-study work (10 hours)

Control questions:

- Primary glossitis. Desquamative and rhombic glossitis. Folded and hairy tongue, black 'hairy' tongue. Clinical presentation, diagnosis, treatment and prevention.
- Neurogenic diseases of the tongue. Etiology, pathogenesis, clinical presentation, diagnosis, treatment, prevention.
- Primary cheilitis. Actinic cheilitis. Meteorological cheilitis. Contact allergic cheilitis. Chronic lip cracks. Etiology, clinical presentation, diagnosis, treatment and prevention.
- Glandular, exfoliative cheilitis. Etiology, clinical presentation, diagnosis, treatment, prevention.
- Eczematous, atopic cheilitis. Etiology, pathogenesis, clinical presentation, diagnosis, treatment, prevention.
- Stomatogenic chronic intoxication. Etiology. Pathogenesis.
- Clinic, diagnosis, treatment and prevention of odontogenic chronic intoxication.
- Differential diagnosis of primary (autoinfectious) lesions of the oral mucosa. Acute herpetic stomatitis. Acute aphthous stomatitis. Acute ulcerative-necrotic stomatitis.
- Modern methods of treatment and prevention of primary stomatitis.
- Differential diagnosis of manifestations of viral diseases on the oral mucosa. AIDS, influenza, foot-and-mouth disease, infectious mononucleosis. Tactics of the dentist.
- Differential diagnosis of manifestations of bacterial diseases on the oral mucosa. Diphtheria, tuberculosis, syphilis, gonorrhoea. Tactics of the dentist.
- Differential diagnosis of lesions of the oral mucosa in diseases of the digestive tract.
- Differential diagnosis of lesions of the oral mucosa in diseases of the cardiovascular, endocrine and nervous systems.

- Differential diagnosis of manifestations of blood and blood-forming organ diseases on the oral mucosa. Leukaemia, agranulocytosis. Tactics of the dentist.
- Differential diagnosis of manifestations of blood diseases and blood-forming organs on the oral mucosa. Anaemia and thrombocytopenic purpura. Tactics of the dentist.
- Differential diagnosis of complications of drug therapy associated with dysbacteriosis and intoxication. Dentist's tactics. Provision of emergency care.
- Delayed-type allergic reactions, their manifestations in the oral cavity. Contact and toxic-allergic stomatitis. Multiform exudative erythema. Clinic, diagnosis, treatment.
- Delayed-type allergic reactions, their manifestations in the oral cavity. Chronic recurrent aphthous stomatitis. Clinical presentation, diagnosis, treatment.
- Differential diagnosis of manifestations on the oral mucosa of dermatoses with an autoimmune component. Pemphigus. Clinical presentation, diagnosis, dentist's approach.
- Differential diagnosis of manifestations on the oral mucosa of dermatoses with an autoimmune component. Lichen planus. Clinical presentation, diagnosis, dentist's approach.
- Differential diagnosis of independent diseases of the tongue. Desquamative glossitis. Modern methods of treatment and prevention.
- Differential diagnosis of independent diseases of the tongue. Black hairy tongue. Modern methods of treatment and prevention.

Topic 6. Precancerous diseases of the oral mucosa and red border of the lips.

Practical class (4 hours)

Control questions:

- Precancerous diseases of the oral mucosa and red border of the lips.
- Physical methods in the complex treatment of diseases of the oral mucosa.

Self-study work (10 hours)

Control questions:

- Classification of precancerous conditions of the oral mucosa and red border of the lips. Obligate precancerous conditions of the oral mucosa and red border of the lips. Etiology, pathogenesis, clinical presentation, diagnosis, treatment, prevention.
- Optional precancerous lesions of the oral mucosa and red border of the lips. Etiology, pathogenesis, clinical presentation, diagnosis, treatment, prevention.

Content module 2. Comprehensive management of dental patients based on current clinical guidelines

Specific objectives:

- Develop the ability to comprehensively assess a patient's dental status, taking into account their general physical condition.
- Master the principles of individualized treatment planning in accordance with current clinical guidelines.
- Learn to apply a multidisciplinary approach to the management of dental patients.
- Develop skills in selecting optimal treatment methods based on the clinical situation and level of evidence.
- Develop the ability to manage patients with concomitant somatic pathology.
- Learn the principles of complication prevention and post-treatment follow-up.
- Develop skills in analyzing and discussing complex clinical cases.
- Master approaches to quality control in dental care.
- Ensure compliance with patient safety standards and clinical protocols.
- Promote the integration of modern clinical recommendations into practical, scientific, and teaching activities.

Topic 7. Management and marketing principles necessary for the work of a dentist in public and private healthcare institutions in Ukraine.

Practical class (4 hours)

Control questions:

- Main divisions of dental services in Ukraine.

- Job responsibilities of administrative and medical staff in dental departments and offices.
- Key dental and statistical indicators of dental offices and departments.
- Criteria for the medical and economic evaluation of dental care provision.
- Classification of procedures in dentistry.
- Accounting and reporting documentation in dentistry.
- Planning dental care.
- Organization of dental clinics, departments, and offices for the adult population.
- Types and structure of dental clinics.
- Functions of a dental clinic.
- Key performance indicators for a dentist-therapist.
- Decentralized form of dental care for the population.

Self-study work (10 hours)

Control questions:

- Organization of dental care in Ukraine.
- Structure of a dental clinic and its therapeutic department.
- Dental departments of hospital and clinic facilities and medical and sanitary units.
- Key performance indicators for dentists in outpatient and clinic services.
- Quality indicators for a dentist-therapist.
- Staff of a dental clinic.
- Duties of a dentist-therapist.
- Safety rules for dentists.
- Dental care for rural populations.

Topic 8. Features of the structure of modern combat trauma in patients with combat trauma.

Practical class (2 hours)

Control questions:

- Definition and classification of combat surgical trauma;
- How does a microbially contaminated wound differ from an infected one?
- General principles of treatment of combat surgical trauma.
- What are primary, repeat, and secondary surgical wound treatment, and what are their objectives?
- What are the types of sutures, indications, and contraindications for their application?
- What is compression-crush injury?
- Intra-fascial pressure syndrome, emergency care.
- Types of wound infection.
- Features of treating patients with anaerobic infection.
- Sepsis, modern views on the problem.
- Determining the area and depth of the burn surface.
- Assessment of the severity of burns and the prognosis for burn injuries.
- Emergency care for burns.

Self-study work (10 hours)

Control questions:

- The system of medical evacuation support for the Armed Forces of Ukraine. What is medical triage, its principles and types.
- Characteristics of the level of medical care.
- Definition and classification of combat surgical trauma;
- How does a microbially contaminated wound differ from an infected one?
- General principles of treatment of combat surgical trauma.
- What are primary, repeat, and secondary surgical wound treatment, and what are their objectives?
- What are the types of sutures, indications, and contraindications for their application?
- What is compression-crush injury?
- Intra-fascial pressure syndrome, emergency care.
- Types of wound infection.

- Features of treating patients with anaerobic infection.
- Sepsis, modern views on the problem.
- Determining the area and depth of the burn surface.
- Assessment of the severity of burns and prognosis of burn injuries.
- Emergency care for burns.

Module 2. Algorithms for providing emergency care in the practice of a dentist-therapist

Content module 1. *Emergency conditions of a general somatic nature in dental practice*
Specific objectives:

- To learn the principles of organizing emergency care in a dental office.
- To master the algorithms of basic and advanced cardiopulmonary resuscitation in accordance with current recommendations.
- Learn to recognize the main general somatic emergency conditions that may arise during a dental appointment.
- Develop the ability to quickly assess the patient's condition and make informed clinical decisions.
- Master the algorithms for providing care for anaphylactic and allergic reactions.
- Develop skills in providing emergency care for hypertensive crises, acute coronary and cerebrovascular conditions.
- Learn the principles of managing patients with carbohydrate metabolism disorders (hypo- and hyperglycemic conditions).
- Master algorithms for action in convulsive syndrome and other acute conditions.
- Develop skills for the safe use of emergency medications.
- Ensure readiness for effective interaction with emergency medical services.

Topic 1. Dental trauma. Emergency care for dental trauma.

Lecture. Providing emergency care to patients with acute dental conditions. Algorithm of actions.

Practical training (4 hours)

Control questions:

- What is trauma?
- Statistics on traumatic injuries in peacetime.
- Basic methods of examining victims in outpatient settings.
- Additional methods of examining victims.

Topic 2. Air emphysema of soft tissues during dental treatment. Clinical presentation, diagnosis, emergency care.

Lecture. Allergic diseases (immediate and delayed reactions). Clinical presentation, diagnosis, differential diagnosis (2 hours).

Practical class (4 hours)

Control questions:

- Definition of the term “air emphysema”;
- Etiology and pathogenesis of air emphysema;
- Clinical symptoms and diagnostic methods;
- Emergency care for air emphysema;
- Possible complications.

Self-study work (10 hours)

Control questions:

- Classification of allergic reactions.
- Etiology and pathogenesis of CO diseases in allergic lesions.
- Name the elements of damage in BE, immediate and delayed reactions.
- Clinical presentation of CO diseases in allergic lesions.
- Perform differential diagnosis with similar diseases.

Topic 3. Anaphylactic conditions (laryngeal edema, Quincke's edema, anaphylactic shock): emergency care at the dentist's office.

Lecture. Providing first aid to patients in emergency situations (anaphylactic shock, fainting, collapse, hypertensive crisis, acute heart failure). Algorithm of actions (2 hours).

Practical training (4 hours)

Control questions:

- Define the term “allergy” and describe the types of allergic reactions that occur in the maxillofacial region.
- Describe the clinical manifestations of anaphylactic shock.
- Describe the clinical signs of Quincke's edema.
- Describe the features of emergency care for allergic reactions that manifest in the maxillofacial region.
- Describe laboratory methods for diagnosing allergic reactions that manifest in the maxillofacial region.
- Describe the clinical signs of drug-induced and contact allergic stomatitis.
- Describe the principles of treatment of allergic diseases in the maxillofacial region.
- Indicate measures for the prevention of allergic reactions manifested in the maxillofacial region.
- First aid for anaphylactic shock.
- First aid for Quincke's edema and asphyxia

Self-study work (10 hours)

Control questions:

- Immunological and allergic reactions. Pathophysiological types of allergic reactions.
- Mediators of allergic reactions.
- Clinical manifestations of allergic reactions.
- Anaphylaxis: causes, emergency care.
- Classification of H1-histamine blockers depending on their chemical structure and selectivity.
- Pharmacodynamic effects of H1-histamine blockers, indications for their use.
- Features of the pharmacokinetics of H1-histamine blockers (bioavailability, binding to blood plasma proteins, metabolism) and their effect on the efficacy and toxicity of these drugs.
- Adverse reactions to H1-histamine blockers, contraindications to their use, taking into account adverse reactions.
- Dosage forms of H1-histamine blockers, features of their selection.
- Features of the interaction of H1-histamine blockers with drugs of other groups. Undesirable interactions.
- Criteria for evaluating the efficacy and safety of H1-histamine blockers.

Topic 4. Providing emergency care to pregnant women with acute dental conditions.

Lecture. Providing emergency care for neurostomatological diseases, respiratory diseases, and endocrine gland diseases (2 hours).

Practical training (4 hours).

Control questions:

- What are the main changes in a pregnant woman's body that affect the condition of her teeth and gums?
- What are the possible causes of dental problems in pregnant women?
- What dental procedures can be dangerous for a pregnant woman, and why?
- What safety and precautionary measures are considered when performing dental procedures on pregnant women?
- How should one respond to an exacerbation of dental problems in a pregnant woman, in particular, pain and inflammation?
- What medications can be safely used to improve the comfort of pregnant patients during dental procedures?

- What dental problems in pregnant women can affect the health of the baby?
- What postoperative and post-dental recommendations are given to pregnant patients?
- What preventive measures can help a pregnant woman maintain healthy teeth and gums during pregnancy?
- What factors should be considered when prescribing dental treatment for a pregnant woman?

Self-study work (10 hours)

Control questions:

- What are acute dental conditions?
- What are the typical symptoms of acute dental conditions, including pain, swelling, bleeding, and other manifestations?
- What are the most common causes of acute dental conditions?
- How can you determine when a situation requires emergency dental care?
- What steps should be taken in case of acute toothache to provide emergency care?
- How to treat swelling in the face or gums in acute dental conditions?
- What to do in case of bleeding after tooth extraction or other dental procedures?
- How to behave in case of irritation or damage to the oral mucosa?
- What anti-inflammatory or antibiotic drugs can be used to treat acute dental conditions?
- What postoperative recommendations should be given to patients after providing emergency dental care?

Topic 5. Emergency care, treatment, and prevention of adverse drug reactions during dental appointments.

Practical training (4 hours)

Control questions:

- Define the term “allergy” and describe the types of allergic reactions that occur in the maxillofacial region.
- Describe the clinical manifestations of anaphylactic shock.
- Describe the clinical signs of Quincke's edema.
- Describe the features of emergency care for allergic reactions that manifest in the maxillofacial region.
- Describe the laboratory methods for diagnosing allergic reactions that manifest in the maxillofacial region.
- Describe the clinical signs of drug-induced and contact allergic stomatitis.
- Describe the principles of treatment of allergic diseases in the maxillofacial region.
- Indicate measures for the prevention of allergic reactions manifested in the maxillofacial region.
- First aid for anaphylactic shock.
- First aid for Quincke's edema and asphyxia.

Topic 6. Features of providing emergency care for complications of drug therapy associated with allergies, dysbacteriosis, and intoxication.

Practical training (4 hours)

Control questions:

- What symptoms may indicate an allergic reaction to medications?
- What emergency measures will you take in case of an allergic reaction to medication?
- What factors can lead to the development of dysbacteriosis during treatment?
- What methods of treating dysbacteriosis in cases of complications of drug therapy are considered most effective?
- How can you detect signs of intoxication associated with medication?
- What measures and treatments should be used to reduce intoxication in such situations?
- What are the main steps in providing emergency care to a patient who has developed complications due to treatment?
- What are the principles of providing first aid in such situations?

- What strategies can be used to prevent complications during treatment related to allergies, dysbacteriosis, and intoxication?
- How important is it to cooperate with your doctor to avoid such complications?

Self-study work (10 hours)

Control questions:

- Immunological and allergic reactions. Pathophysiological types of allergic reactions.
- Mediators of allergic reactions.
- Clinical manifestations of allergic reactions.
- Anaphylaxis: causes, emergency care.
- Classification of H1-histamine blockers depending on their chemical structure and selectivity.
- Pharmacodynamic effects of H1-histamine blockers, indications for their use.
- Features of the pharmacokinetics of H1-histamine blockers (bioavailability, binding to blood plasma proteins, metabolism) and their effect on the efficacy and toxicity of these drugs.
- Adverse reactions to H1 histamine blockers, contraindications to their use, taking into account adverse reactions.
- Dosage forms of H1 histamine blockers, features of their selection.
- Features of the interaction of H1-histamine blockers with drugs of other groups. Undesirable interactions.
- Criteria for evaluating the efficacy and safety of H1-histamine blockers.

Topic 7. Providing emergency care for acute cardiac and vascular failure (cardiac asthma and pulmonary edema, cardiogenic shock, collapse, loss of consciousness) during a visit to the dentist.

Practical training (4 hours)

Control questions:

- What are the clinical signs of acute heart failure, such as cardiac asthma, pulmonary edema, cardiogenic shock, collapse, and loss of consciousness?
- How can these conditions manifest themselves during a dental appointment?
- What protocols should a dentist follow if signs of acute cardiac and vascular failure are detected in a patient?
- What emergency measures should be taken before calling an ambulance?
- What dental procedures can be dangerous for patients with acute cardiac and vascular failure?
- What immediate safety measures should be taken to reduce the risk of complications in such patients during dental procedures?
- What steps should be taken to quickly contact emergency medical services during acute conditions in dental practice?
- What information should be provided to medical services for the provision of emergency medical care?
- What skills and personal response tools should a dentist have to provide assistance in emergency situations?
- What are the basic steps to take to ensure the safety and stabilization of the patient before the arrival of emergency medical services?

Self-study work (20 hours)

Control questions:

- What are the main changes in a pregnant woman's body that affect the condition of her teeth and gums?
- What are the possible causes of dental problems in pregnant women?
- What dental procedures can be dangerous for a pregnant woman, and why?
- What safety and precautionary measures are considered when performing dental procedures on pregnant women?
- How should one respond to an exacerbation of dental problems in a pregnant woman, in particular, pain and inflammation?
- What medications can be safely used to improve the comfort of pregnant patients during dental procedures?
- What dental problems in pregnant women can affect the health of the baby?

- What postoperative and post-dental recommendations are given to pregnant patients?
- What preventive measures can help a pregnant woman maintain healthy teeth and gums during pregnancy?
- What factors should be considered when prescribing dental treatment for a pregnant woman?

Content module 2. *Emergency conditions associated with dental intervention.*

Specific objectives:

- Develop the ability to promptly recognize emergency conditions that arise during dental procedures.
- Master algorithms for providing assistance in acute pain syndromes in therapeutic dentistry.
- Learn modern approaches to the management of acute inflammatory processes of the pulp and periapical tissues.
- Learn to provide emergency care for bleeding in dental practice.
- Master algorithms for action in case of complications of local anesthesia.
- Develop skills for managing patients with toxic reactions to medications.
- Develop the ability to act in case of complications of endodontic treatment.
- Learn the principles of prevention of emergency conditions in dental practice.
- Develop skills in analyzing clinical situations from the perspective of patient safety.
- Ensure the integration of modern clinical recommendations into practical and teaching activities.

Topic 8. Providing emergency care in the event of a hypochlorite accident.

Practical training (4 hours)

Control questions:

- What situations in dental practice can lead to a hypochlorite accident?
- What are the main symptoms or signs of chlorine in a dental office environment?
- What initial measures should be taken to protect staff and patients during a hypochlorite accident in a dental facility?
- What safety measures should be taken to prevent the spread of chlorine in the room?
- What medical measures should be taken to assist patients who have been affected by a hypochlorite accident in dentistry?
- What are the main treatment options or first steps for patients who have been exposed to chlorine?
- What procedures should be in place in a dental facility for the evacuation of patients and staff during a hypochlorite accident?
- How important is it to communicate with emergency medical services and provide them with information for emergency medical care?
- What measures can be taken to prepare dental facility staff for chlorine emergencies?
- How often should training and refresher courses be conducted on providing emergency care in such emergencies?

Self-study work (20 hours)

Control questions:

- What situations in dental practice can lead to a hypochlorite accident?
- What are the main symptoms or signs of chlorine in a dental office environment?
- What initial measures should be taken to protect staff and patients during a hypochlorite accident in a dental facility?
- What safety measures should be taken to prevent the spread of chlorine in the room?
- What medical measures should be taken to assist patients who have been affected by a hypochlorite accident in dentistry?
- What are the main treatment options or first steps for patients who have been exposed to chlorine?
- What procedures should be in place in a dental facility for the evacuation of patients and staff during a hypochlorite accident?
- How important is it to communicate with emergency medical services and provide them with information for emergency medical care?
- What measures can be taken to prepare dental facility staff for chlorine emergencies?

- How often should training and refresher courses be conducted on providing emergency care in such emergencies?

Module 3. Prevention of major dental diseases in the practice of a dentist-therapist.

Content module 1. *Modern concepts and methods of dental disease prevention.*

Specific objectives:

- To learn modern concepts of dental disease prevention from the perspective of evidence-based medicine.
- Master the classification and levels of prevention of major dental diseases.
- Develop an understanding of the etiological and pathogenetic factors in the development of caries and other dental diseases.
- Learn to assess individual risk of developing dental diseases.
- Master modern methods of remineralization therapy and fluoride prophylaxis.
- Develop skills in the rational use of bioactive materials in prevention.
- Develop the ability to critically evaluate the effectiveness of preventive methods.
- Understand the role of evidence-based medicine in the formation of preventive strategies.
- Prepare applicants for the implementation of modern preventive approaches in clinical practice.
- Ensure the integration of preventive knowledge into scientific and teaching activities.

Topic 1. The relationship between dental caries and somatic health. Social and health education aspects.

Practical class (5 hours)

Control questions:

- What are the consequences of poor dental care and the development of caries for overall human health?
- How does dental caries affect the body's systems and can lead to the development of other diseases?
- How do social factors such as economic status, education, and access to medical care affect the prevalence of caries among the population?
- What are the social consequences of caries for individuals and society as a whole?
- What are some effective programs and methods for teaching oral hygiene and caries prevention?
- How important is it to conduct health education among the population to prevent caries and improve health?
- What new technologies and methods for treating caries have emerged in recent years?
- What innovations are there in the field of caries prevention and healthy teeth preservation?
- What are the overall costs to society of treating and preventing caries?
- What are the economic and social benefits to society as a whole of preventing the spread of caries?

Self-study work (10 hours)

Control questions:

- What are the main methods of dental hygiene that you consider most effective for preventing oral diseases?
- What steps should be taken to maintain good oral health?
- What dental disease prevention programs do you consider most effective for different age groups?
- How can the success of preventive programs in dentistry be evaluated?
- What methods can be used to evaluate the effectiveness of preventive measures in dentistry?
- How important is it to take into account the individual characteristics of the patient when evaluating the effectiveness of preventive measures?
- What are the potential benefits of implementing large-scale preventive programs for the general public?
- How important is it to carry out educational work on prevention in the environment surrounding patients?
- What new technologies or approaches could be used to improve preventive measures in dentistry?
- How important is it to introduce new methods of prevention into dental practice?

Content module 2. *Individualized prevention and dispensary observation of dental patients.*

Specific objectives:

- Develop the ability to develop individualized prevention programs for dental patients.
- Master modern approaches to professional oral hygiene.
- Learn how to motivate patients to undergo preventive treatment.
- Develop skills for assessing and improving compliance.
- Learn the principles of dispensary observation of patients in different risk groups.
- Master approaches to the prevention of complications and recurrence of dental diseases.
- Develop the ability to engage in interdisciplinary collaboration in preventive work.
- Learn to evaluate the effectiveness of individual preventive measures.
- Develop skills for long-term clinical follow-up of patients.
- Ensure the implementation of modern preventive strategies in practical, scientific, and educational activities.

Topic 2. Oral hygiene and its importance in the comprehensive prevention of diseases of the oral cavity and the body as a whole.

Practical class (5 hours)

Control questions:

- How does oral hygiene affect the overall health of the body?
- What complications can occur in the body if oral hygiene is inadequate?
- How is the prevention of oral diseases related to the general prevention of diseases of the body?
- What methods of prevention through oral hygiene can be used to avoid systemic diseases?
- How important is it to educate the population about oral hygiene?
- What are the most effective methods for promoting healthy oral hygiene among different population groups?
- What new technologies or approaches can be used to improve oral hygiene?
- How important is it to implement new methods of oral hygiene in practice and in everyday life?
- What are the main oral hygiene procedures included in comprehensive hygiene?
- What are the most effective means and methods to ensure oral cleanliness?

Self-study work (10 hours)

Control questions:

- What tasks are included in sanitary and educational work among the population?
- How important is it to promote health preservation and improvement through sanitary and educational work?
- What are the main aspects of personal hygiene that can be promoted through health education?
- How important is it to include healthy lifestyle issues in educational programs?
- How does health education influence disease prevention and safe lifestyles?
- How important is it to consider cultural aspects and individual characteristics when organizing health education?
- What modern technologies and communication strategies can be used to conduct health education?
- How important is it to use the media and other communication channels to improve health awareness?
- How is the effectiveness of health education among the population assessed?
- How can successes and shortcomings in the organization and implementation of health education activities be identified?

Topic 3. Stages, methods, and measures of prevention in dental patients. Their significance and effectiveness.

Practical class (5 hours)

Control questions:

- What stages does the prevention of dental diseases include?
- What steps should be taken to prevent dental problems?

- What are the main methods of dental disease prevention?
- How important is it to use preventive methods to prevent oral diseases?
- What are the means of oral hygiene and their impact on disease prevention?
- How important is it to include proper nutrition and diet in preventive measures?
- How important is prevention in maintaining oral health?
- How can the effectiveness of preventive measures be assessed?
- What innovations and new approaches are there in the prevention of dental diseases?
- How important is it to introduce new methods and technologies to improve prevention in dentistry?

Self-study work (10 hours)

Control questions:

- What are the main objectives of the national program in the field of dentistry in Ukraine?
- What tasks are envisaged to achieve these objectives?
- What is the structure and scope of national programs in dentistry in Ukraine?
- Which areas of dentistry are included in these programs?
- How are national programs for the prevention, diagnosis, and treatment of dental diseases financed?
- How are the programs implemented in practice in medical institutions?
- What successes have already been achieved through the implementation of national programs in dentistry?
- How is the impact of these programs on the dental health of the population measured?
- What are the future plans for the development of national programs in dentistry?
- How important is it to adapt programs to the changing needs of the population?

Topic 4. Individual measures for the prevention of periodontal disease in pregnant women.

Practical class (5 hours)

Control questions:

- What changes in the periodontium can occur during pregnancy?
- What factors lead to the deterioration of the periodontium in pregnant women?
- What hormonal changes affect the condition of the periodontium during pregnancy?
- How can these changes affect the risk of developing periodontal disease?
- What oral hygiene measures are recommended for pregnant women to prevent periodontal disease?
- How important is it to consider the individual characteristics of each pregnant woman when choosing preventive methods?
- Why are regular visits to the dentist important for pregnant women in preventing periodontal disease?
- How often should pregnant women visit the dentist for preventive appointments?
- What procedures and treatments are safe for pregnant women with periodontal disease?
- How important is it to consider the possible risks and benefits of treating pregnant women for periodontal disease?

Self-study work (10 hours)

Control questions:

- Which documents are considered essential in the medical documentation system in Ukrainian healthcare institutions?
- What information is included in essential medical documents?
- What important functions does medical documentation perform in the Ukrainian healthcare system?
- What are the responsibilities of medical workers with regard to maintaining and recording medical documentation?
- What are the requirements for the correct preparation of medical documentation in healthcare institutions in Ukraine?
- What standards are followed in the process of maintaining and storing medical data?
- What opportunities and advantages does the introduction of electronic medical documentation provide?
- How important is it to ensure the confidentiality and security of electronic medical records?
- How is the quality and accuracy of medical documentation in healthcare institutions controlled?
- How is medical documentation audited to ensure compliance with standards and requirements?

Topic 5. Prevention of pulp and periodontal diseases.

Practical class (5 hours)

Control questions:

- What factors can contribute to pulp diseases?
- What are the main risk factors associated with periodontal diseases?
- What hygiene measures are important for the prevention of pulp diseases?
- What oral hygiene methods and procedures are important for the prevention of periodontal diseases?
- How does nutrition affect the condition of the pulp and periodontium?
- What foods can be beneficial or harmful to oral health?
- Why is it important to visit the dentist regularly for preventive checkups to prevent pulp and periodontal diseases?
- How often should you see a doctor to prevent disease?
- How does smoking affect the condition of the pulp and periodontium?
- How does stress affect overall oral health and can contribute to disease?

Topic 6. Medical examination of persons with periodontal diseases. Stages, documentation, evaluation of the effectiveness of medical examination.

Practical training (5 hours)

Control questions:

- What stages does the medical examination program for persons with periodontal diseases include?
- What procedures and examinations are performed at each stage of medical examination?
- What documents must be completed during the medical examination of persons with periodontal disease?
- What is included in the medical report after the medical examination?
- What criteria are used to evaluate the effectiveness of the medical examination program in patients with periodontal disease?
- How are the results of the medical examination regarding periodontal status and general health evaluated?
- What are the recommendations for treatment and health maintenance after a medical examination for patients with periodontal disease?
- What treatment plans can be developed based on the results of the medical examination to improve periodontal status?

Topic 7. Prevention of diseases of the oral mucosa.

Practical class (5 hours)

Control questions:

- How important is oral hygiene for the prevention of diseases of the mucous membrane?
- What are the basic steps of oral hygiene for disease prevention?
- What environmental factors can affect the condition of the oral mucosa?
- How can the negative impact of these factors on the health of the mucous membrane be prevented?
- How does proper nutrition affect the condition of the oral mucosa?
- Which foods can be beneficial or harmful to the health of the mucous membrane?
- Why is it important to visit the dentist regularly to prevent diseases of the oral mucosa?
- How often should you see a doctor to prevent disease?
- How do smoking and other harmful habits affect the condition of the oral mucosa?
- How important is it to avoid these habits to maintain the health of the mucous membrane?

Self-study work (20 hours)

Control questions:

- How important is oral hygiene for preventing diseases of the mucous membrane?
- What are the basic steps of oral hygiene for disease prevention?
- What environmental factors can affect the condition of the oral mucosa?
- How can the negative impact of these factors on the health of the mucous membrane be prevented?

- How does proper nutrition affect the condition of the oral mucosa?
- Which foods can be beneficial or harmful to the health of the mucous membrane?
- Why is it important to visit the dentist regularly to prevent diseases of the oral mucosa?
- How often should you see a doctor to prevent disease?
- How do smoking and other harmful habits affect the condition of the oral mucosa?
- How important is it to avoid these habits to maintain the health of the mucous membrane?

Topic 8. Analysis of quantitative and qualitative indicators of the work of a dentist-therapist. Theoretical foundations of prevention, levels, types, and methods of prevention.

Practical class (5 hours)

Control questions:

- What do quantitative and qualitative indicators mean in the medical practice of a dentist?
- What quantitative indicators can be included in the analysis of a dentist's work?
- What theoretical principles form the basis of oral disease prevention?
- What key aspects should be considered when choosing preventive methods in dentistry?
- What are the levels of prevention in dentistry and what are their specifics?
- What are the main types and methods of prevention used in dentistry to prevent oral diseases?
- How is the effectiveness of preventive measures in dentistry determined?
- What criteria are used to assess the quality and effectiveness of preventive measures?
- How does preventive work affect the effectiveness of a dentist in their own practice?
- What opportunities for improving the work of a dentist does the use of preventive methods provide?

Self-study work (20 hours)

Control questions:

- What do quantitative and qualitative indicators mean in the medical practice of a dentist?
- What quantitative indicators can be included in the analysis of a dentist's work?
- What theoretical principles form the basis of oral disease prevention?
- What key aspects should be considered when choosing preventive methods in dentistry?
- What are the levels of prevention in dentistry and what are their specifics?
- What are the main types and methods of prevention used in dentistry to prevent oral diseases?
- How is the effectiveness of preventive measures in dentistry determined?
- What criteria are used to evaluate the quality and effectiveness of preventive measures?
- How does preventive work affect the effectiveness of a dentist in their own practice?
- What opportunities for improving the work of a dentist does the use of preventive methods provide?

10. STRUCTURE OF THE ACADEMIC DISCIPLINE

10. STRUCTURE OF THE ACADEMIC DISCIPLINE					
№	Titles of modules and topics	Number of hours			
		Total	L	P	SW
Module 1. Management of dental patients in the practice of a dentist-therapist in accordance with modern standards and recommendations					
Content module 1. <i>Modern standards, protocols and principles of dental patient management</i>					
1	Lecture topic 1. Dental caries: diagnosis, differential diagnosis; modern methods of treatment, prevention and complications. Practical class topic 1. Dental caries. Modern concepts of aetiology and pathogenesis. Clinical presentation, diagnosis and modern methods of treatment of dental caries. Non-invasive treatment methods. Self-study work 1. Clinical, laboratory and instrumental methods of examination of patients with diseases of hard and soft dental tissues.	16	2	4	10

2	<p>Lecture topic 2. Dental pulp diseases: diagnostic criteria, differential diagnosis; treatment principles, prevention and complications.</p> <p>Practical class topic 2. Pulpitis. Clinical presentation, diagnosis and modern methods of treatment of various forms of pulpitis.</p> <p>Self-study work 2. Acute forms and exacerbations of chronic forms of pulpitis and periodontitis: diagnosis and emergency care. Methods and pharmacological agents used to provide emergency care.</p>	16	2	4	10
3	<p>Lecture topic 3. Periodontal inflammation: diagnosis, differential diagnosis; modern methods of treatment, prevention and complications. Modern methods of treating apical foci of infection.</p> <p>Practical class topic 3. Periodontitis. Clinical presentation, diagnosis and treatment of various forms of periodontitis. Effectiveness of physiotherapy methods in the treatment of periodontitis.</p> <p>Self-study work 3. Modern methods of treating various forms of periodontitis.</p>	16	2	4	10
4	<p>Lecture topic 4.1. Modern views on the aetiology and pathogenesis of periodontal tissue pathology. Idiopathic diseases: clinical presentation, differential diagnosis, treatment, prevention.</p> <p>Lecture topic 4.2. Treatment of patients with periodontal tissue pathology: general principles, drugs used in complex therapy of patients with periodontal tissue pathology.</p> <p>Practical class topic 4. Periodontal diseases. Modern views on the aetiology and pathogenesis of periodontal diseases. Terminology. Classification. Diagnosis, differential diagnosis and modern methods of treatment.</p> <p>Self-study work 4. Clinical, laboratory and instrumental methods of examination of dental patients with periodontal tissue diseases.</p>	16	4	2	10
5	<p>Lecture topic 5. Changes in the oral mucosa in various concomitant general somatic pathologies.</p> <p>Practical class topic 5. Diseases of the oral mucosa in adults. Traumatic and ulcerative-necrotic lesions.</p> <p>Self-study work 5. Clinical, laboratory and instrumental methods of examination of dental patients with diseases of the oral mucosa and red border of the lips.</p>	16	2	4	10
6	<p>Practical class topic 6. Precancerous diseases of the oral mucosa and red border of the lips.</p> <p>Self-study work 6. Application of physiotherapeutic methods of treatment in dental patients. Types. Indications and contraindications for use. Methods of implementation. Effectiveness of physical methods of diagnosis and treatment in dentistry.</p>	14	-	4	10
<p>Content module 2. <i>Comprehensive management of dental patients taking into account current clinical recommendations</i></p>					
7	<p>Practical class topic 7. Principles of marketing management necessary for the work of a dentist in public and private healthcare institutions in Ukraine.</p> <p>Self-study work 7. Principles of organising the provision of modern dental care to the population..</p>	14	-	4	10

8	Practical class topic 8. Features of the structure of modern combat trauma in patients with combat trauma. Self-study work 8. Organisation of emergency care for the population in combat conditions.	12	-	2	10
Total		120	12	28	80
Module 2. Algorithms for providing emergency care in the practice of a dentist-therapist					
Content module 1. <i>Emergency conditions of a general somatic nature in dental practice</i>					
1	Lecture topic 1. Providing emergency care to patients with acute dental conditions. Algorithm of actions. Practical lesson topic 1. Tooth trauma. Emergency care for tooth trauma.	6	2	4	-
2	Lecture topic 2. Allergic diseases (immediate and delayed reactions). Clinical presentation, diagnosis, differential diagnosis. Practical lesson topic 2. Air emphysema of soft tissues during dental treatment. Clinical presentation, diagnosis, emergency care. Self-study work 1. Algorithm for providing emergency care for allergic reactions during dental treatment.	16	2	4	10
3	Lecture topic 3. Providing first aid to patients in emergency situations (anaphylactic shock, fainting, collapse, hypertensive crisis, acute heart failure). Algorithm of actions. Practical class topic 3. Anaphylactic conditions (laryngeal oedema, Quincke's oedema, anaphylactic shock): emergency care in a dental office. Self-study work 2. Clinical pharmacology of the main drugs used to provide emergency care for acute dental conditions.	16	2	4	10
4	Lecture topic 4. Providing emergency care for neurostomatological diseases, respiratory diseases and endocrine gland diseases. Practical class topic 4. Providing emergency care to pregnant women with acute dental conditions. Self-study work 2. Features of providing emergency care for acute dental conditions.	16	2	4	10
5	Practical class topic 5. Emergency care, treatment and prevention of adverse reactions to medicines used during dental treatment.	4	-	4	-
6	Practical class topic 6. Features of providing emergency care for complications of drug therapy associated with allergies, dysbacteriosis, and intoxications. Self-study work 4. Clinical pharmacology of the main groups of drugs used in the provision of emergency care to patients in various emergency situations.	14	-	4	10
7	Practical class topic 7. Providing emergency care for acute cardiac and vascular failure (cardiac asthma and pulmonary oedema, cardiogenic shock, collapse, unconsciousness) at a dentist's appointment. Self-study work 5. Features of emergency care for pregnant women.	24	-	4	20
Content module 2. <i>Emergency conditions associated with dental intervention</i>					

8	Practical class topic 8. Providing emergency assistance in the event of a hypochlorite accident. Self-study work 6. Providing emergency assistance in the event of a hypochlorite accident.	24	-	4	20
Total		120	8	32	80
Module 3. Prevention of major dental diseases in the practice of a dentist-therapist					
Content module 1. Modern concepts and methods of dental disease prevention					
1	Practical class topic 1. The relationship between dental caries and somatic health. Social and health education aspects. Self-study work 1. System of preventive measures. Assessment of the effectiveness of preventive measures in dental patients.	15	-	5	10
Content module 2. Modern concepts and methods of dental disease prevention					
2	Practical lesson topic 2. Oral hygiene and its importance in the comprehensive prevention of diseases of the oral cavity and the body as a whole. Self-study work 2. Organisation of sanitary and educational work among the population.	15	-	5	10
3	Practical lesson topic 3. Stages, methods and measures of prevention in dental patients. Their significance and effectiveness. Self-study work 3. National programmes for the prevention, diagnosis and treatment of dental diseases in Ukraine.	15	-	5	10
4	Practical lesson topic 4. Individual measures for the prevention of periodontal disease in pregnant women. Self-study work 4. Basic medical records in healthcare facilities.	15	-	5	10
5	Practical lesson topic 5. Prevention of pulp and periodontal diseases.	5	-	5	-
6	Practical lesson topic 6. Medical examination of persons with periodontal diseases. Stages, documentation, evaluation of the effectiveness of medical examination.	5	-	5	-
7	Practical lesson topic 7. Prevention of diseases of the oral mucosa. Self-study work 5. Prevention of diseases of the oral mucosa.	25	-	5	20
8	Practical lesson topic 8. Analysis of quantitative and qualitative indicators of the work of a dentist-therapist. Theoretical foundations of prevention, levels, types and methods of prevention. Self-study work 5. Analysis of quantitative and qualitative indicators of the work of a dentist-therapist. Theoretical foundations of prevention, levels, types and methods of prevention.	25	-	5	20
Total		120	0	40	80

11. THEMATIC PLAN

MODULE 1. Management of dental patients in the practice of a dentist-therapist in accordance with current standards and recommendations (*120 hours*)

Lecture topics (12 hours)

№	Title	Number of hours
1	Dental caries: diagnosis, differential diagnosis; modern methods of treatment, prevention and complications.	2
2	Diseases of the dental pulp: diagnostic criteria, differential diagnosis; principles of treatment, prevention and complications.	2
3	Periodontal inflammation: diagnosis, differential diagnosis; modern methods of treatment, prevention and complications. Modern methods of influencing the apical focus of infection.	2
4	Modern views on the aetiology and pathogenesis of periodontal tissue pathology. Idiopathic diseases: clinical presentation, differential diagnosis, treatment, prevention.	2
5	Treatment of patients with periodontal tissue pathology: general principles, medicines used in complex therapy of patients with periodontal tissue pathology.	2
6	Changes in the oral mucosa in various concomitant general somatic pathologies.	2
Total		12

Practical class topics (28 hours)

№ 3/II	Title	Number of hours
1	Dental caries. Modern concepts of aetiology and pathogenesis. Clinical presentation, diagnosis and modern methods of treating dental caries. Non-invasive treatment methods.	4
2	Pulpitis. Clinical presentation, diagnosis and modern methods of treatment of various forms of pulpitis.	4
3	Periodontitis. Clinical presentation, diagnosis and modern methods of treatment of various forms of periodontitis. Effectiveness of physiotherapy methods in the treatment of periodontitis.	4
4	Periodontal disease. Modern concepts of the aetiology and pathogenesis of periodontal disease. Terminology. Classifications. Diagnosis, differential diagnosis and modern treatment methods.	2
5	Diseases of the oral mucosa in adults. Traumatic and ulcerative-necrotic lesions.	4
6	Precancerous diseases of the oral mucosa and red border of the lips.	4
7	Principles of marketing management necessary for the work of a dentist in public and private healthcare institutions in Ukraine.	4
8	Features of the structure and course of modern combat trauma. Management of patients with combat trauma.	2
Total		28

Self-study work (80 hours)

№	Title	Number of hours
1	Clinical laboratory and instrumental methods of examination of dental patients with diseases of hard and soft tissues of teeth.	10
2	Acute forms and exacerbations of chronic forms of pulpitis and periodontitis: diagnosis and emergency care. Methods and pharmacological agents used to provide emergency care.	10
3	Modern methods of treating various forms of periodontitis.	10
4	Clinical laboratory and instrumental methods of examining dental patients with periodontal tissue diseases.	10
5	Clinical laboratory and instrumental methods of examination of dental patients with diseases of the mucous membrane of the oral cavity and red border of the lips.	10
6	The use of physiotherapeutic methods of treatment in dental patients. Types. Indications and contraindications for use. Methods of implementation. The effectiveness of physical methods of diagnosis and treatment in dentistry.	10
7	Principles of organising the provision of modern dental care to the population.	10
8	Organisation of emergency care for the population in combat conditions.	10
Total		80

MODULE 2. Algorithms for providing emergency care in the practice of a dentist-therapist (120 hours)**Lecture topics (8 hours)**

№	Titles	Number of hours
1	Providing emergency care to patients with acute dental conditions. Algorithm of actions.	2
2	Allergic diseases (immediate and delayed reactions). Clinical presentation, diagnosis, differential diagnosis.	2
3	Providing first aid to patients in emergency conditions (anaphylactic shock, fainting, collapse, hypertensive crisis, acute heart failure). Algorithm of actions.	2
4	Providing emergency care for neurostomatological diseases, diseases of the respiratory system and endocrine glands.	2
Total		8

Practical class topics (32 hours)

№	Title	Number of hours
1	Emergency care for dental injuries.	4
2	Air emphysema of soft tissues during dental treatment. Clinic, diagnosis, emergency care.	4

3	Anaphylactic conditions (laryngeal oedema, Quincke's oedema, anaphylactic shock): emergency care at the dentist's office.	4
4	Provision of emergency dental care. Emergency care for pregnant women with acute dental conditions.	4
5	Emergency care, treatment and prevention of adverse reactions to medications used during dental appointments.	4
6	Features of providing emergency care for complications of drug therapy associated with allergies, dysbacteriosis and intoxications.	4
7	Provision of emergency care for acute cardiac and vascular failure (cardiac asthma and pulmonary oedema, cardiogenic shock, collapse, loss of consciousness) during a visit to the dentist.	4
8	Providing emergency assistance in the event of a hypochlorite accident.	4
Total		32

Self-study work (80 hours)

№	Title	Number of hours
1	Algorithm for providing emergency care for allergic reactions during dental appointments.	10
2	Clinical pharmacology of the main drugs used to provide emergency care for acute dental conditions.	10
3	Features of providing emergency care for acute dental conditions.	10
4	Clinical pharmacology of the main groups of drugs used in providing emergency care to patients with various emergency conditions.	10
5	Features of emergency care for pregnant women.	20
6	Provision of emergency care in case of a hypochlorite accident.	20
Total		80

MODULE 3. Prevention of major dental diseases in the practice of a dentist-therapist (120 hours)

Lecture topics: none

Practical class topics (40 hours)

№	Titles	Number of hours
1	The relationship between dental caries and somatic health. Social and sanitary-educational aspects.	5
2	Oral hygiene and its importance in the comprehensive prevention of diseases of the oral cavity and the body as a whole.	5
3	Stages, methods and measures of prevention in dental patients. Their importance and effectiveness.	5
4	Individual measures for the prevention of periodontal disease in pregnant women.	5
5	Prevention of pulp and periodontal diseases.	5

6	Medical examination of persons with periodontal diseases. Stages, documentation, evaluation of the effectiveness of medical examinations.	5
7	Prevention of diseases of the oral mucosa.	5
8	Analysis of quantitative and qualitative indicators of the work of a therapist-dentist. Theoretical foundations of prevention, levels, types and methods of prevention.	5
Total		40

Self-study work (80 hours)

№	Title	Number of hours
1	System of preventive measures. Assessment of the effectiveness of preventive measures in dental patients.	10
2	Organisation of sanitary and educational work among the population.	10
3	National programmes for the prevention, diagnosis and treatment of dental diseases in Ukraine.	10
4	Basic medical records in healthcare institutions.	10
5	Prevention of diseases of the oral mucosa	20
6	Theoretical foundations of prevention, levels, types and methods of prevention. Prevention of dental diseases in children and adolescents.	20
Total		80

12. LIST OF INDIVIDUAL TASKS

Not provided for by the programme.

13. TASKS FOR INDEPENDENT WORK

Determined by the lecturer individually for each applicant in accordance with the topic and purpose of their scientific research.

14. METHODS AND FORMS OF CONTROL

Knowledge assessment is aimed at systematically checking the level of assimilation of theoretical provisions and practical skills of applicants. It is carried out in the form of ongoing assessment, which is conducted at each practical class and allows determining the level of assimilation of individual components of the training material.

14.1. Form, procedure, methodology and criteria for assessing current academic performance.

Current assessment includes oral questioning, analysis of clinical cases, completion of practical tasks and work in a clinical setting under the supervision of a research supervisor.

Methods of current assessment:

- traditional questioning — the teacher asks the applicants questions orally, which allows assessing their level of knowledge and communication skills;
- the ‘chain questioning’ method — one applicant answers, the next one adds to the answer.

Criteria for assessing the current control of applicants' knowledge and skills during the study of the module:

25 points (excellent) The applicant demonstrates in-depth, systematic knowledge, complete mastery of the material, modern research methods and scientific approaches. Responds

confidently and reasonably, demonstrates a high level of competence and independence, is able to apply knowledge in new conditions, has their own scientific ideas.

20 points (good). The applicant has sufficient knowledge to understand and apply the material, although minor inaccuracies are possible. Practical skills are at an average level, answers are generally correct but not always complete, independence in practical situations is limited.

15 points (satisfactory). Knowledge is fragmentary, with significant gaps in theory or methods. Practical tasks are performed with prompts, the applicant demonstrates a superficial understanding, requires constant supervision and correction.

0 points (unsatisfactory). Knowledge is insufficient; the applicant does not possess basic concepts and skills. Practical tasks are performed incorrectly or not performed at all. The minimum level of competence is lacking; re-study of the material and additional control are necessary.

Monitoring of self-study work. Independent work involves performing various types of tasks aimed at acquiring new knowledge, systematising and generalising it, developing practical skills and abilities, and monitoring the applicant's readiness for practical classes and tests.

14.2. Form, procedure, methodology and criteria for assessing individual independent work.

Not provided for in the programme.

14.3. Conditions for admission to the final assessment.

The final assessment (test) is conducted upon completion of all topics of the module during the last class of the module.

Applicants who have completed all types of work specified in the curriculum and have scored at least the minimum number of points (120 points) are admitted to the test.

14.4. Form, procedure, methodology and criteria for assessment during final assessment.

At the last thematic training session on the subject, after completing the analysis of the topic of the session, the teacher of the training group announces the number of points that the applicant has earned based on the results of the current assessment.

The results of the test are assessed on a two-point scale: 'pass' or 'fail'.

The student receives a 'pass' grade if he or she has completed all types of work specified in the working curriculum for the discipline, attended all training sessions (lectures, practical classes) specified in the thematic plan for the discipline (if there are any absences, they have been made up in a timely manner), and has earned a total of at least 120 points in the study of the academic discipline.

A student receives a 'fail' grade if they have unexcused absences from classes (seminars and lectures) and the number of points for current control is less than the minimum.

15. LIST OF QUESTIONS FOR THE FINAL EXAM

15.1 List of theoretical questions for the final module exam.

Not provided for in the programme

15.2 List of practical tasks and assignments for the final module exam.

Not provided for in the programme.

16. SCORE CALCULATION AND DISTRIBUTION SCHEME

The grade for an academic discipline is determined as the sum of the grades for current academic activity (in points) awarded at each seminar session for the relevant topic and the number of points for the completion of individual assignments by the higher education student.

The maximum number of points that a student can earn while studying a discipline is 200 points, including:

- for current academic activity – 200 points;

The minimum number of points that a student can earn while studying a discipline is 120 points, including:

- for current academic activity – 120 points;

For current assessment, the following system of conversion of the traditional assessment system into points is used:

Module number, number of teaching hours/ number of ECTS credits	Number of content modules, their numbers	Number of practical classes	Conversion of traditional grades into points					Minimum number of points
			Traditional grades				Points for completing an individual task	
			«5»	«4»	«3»	«2»		
Module 1, 120/4	2, №№1-2	8	25	20	15	0	0	120
Module 2, 120/4	2 №№ 1-2	8	25	20	15	0	0	120
Module 3, 120/4	2 №№ 1-2	8	25	20	15	0	0	120

The maximum number of points that a student can earn while studying the module is 200.

It is calculated by multiplying the number of points corresponding to a grade of '5' by the number of topics in the module: $25 \times 8 = 200$

The minimum number of points that a candidate can earn when studying the module is calculated by multiplying the number of points corresponding to a grade of '3' by the number of topics in the module: $15 \times 8 = 120$.

When assessing the mastery of each topic, applicants are graded on a four-point (traditional) scale and on a 200-point scale using the accepted and approved assessment criteria for the academic discipline.

Grading on a 200-point scale	Grading on a four-point scale
From 180 to 200 points	«5»
From 150 to 179 points	«4»
From 149 to the minimum number of points that a postgraduate student must score	«3»
Below the minimum number of points that a postgraduate student must score	«2»

17. RECOMMENDED REFERENCES

17.1 Main (basic)

1. Terapevtychna stomatolohiia : u 4 t. T. 2 : Kariies. Pulpit. Periodontyt. Rotovyi sepsys : pidruchnyk / M. F. Danylevskyi, A. V. Borysenko, L. F. Sidelnikova ta in. ; za red. A. V. Borysenka. 3-ie vyd., pererobl. i dopov. Kyiv : Medytsyna, 2020. 592 s.
2. Honcharuk-Khomyn M.Yu., Nesterenko M.L. «Terapevtychna stomatolohiia: Zakhvoriuvannia endodonta – pulpit, periodontyt», navchalno-metodychnyi posibnyk, 2024 (UzhNU) dspace.uzhnu.edu.ua+1
3. Iton K., Over F. Praktychna parodontolohiia : navch. posib. / K. Iton, F. Over ; per. z anhl. - 2-he vyd. - Kyiv : Medytsyna, 2023. - 335 s.

4. Petrushanko T, Ilenko N, Ostrovska L. Klinichniy praktykum iz terapevtychnoi stomatolohii. Kyiv: Tsentr navchalnoi literatury; 2019. 260 s.
5. Rozhko MM, redaktor. Stomatolohiia. V 2-kh knyakh. Kyiv: Medytsyna; 2018. Knyha 2; 992 s.

17.2. Additional:

1. Ministerstvo okhorony zdorov'ia Ukrainy. Klinichni rekomendatsii z terapevtychnoi stomatolohii: Alhorytmy diahnostyky ta likuvannia stomatolohichnykh zakhvoriuvan – Kyiv : MOZ, 2025. – 85 s.
2. Skrypnykov P. M., Udaltsova-Hrodzyska K. O., ta in. Terapevtychna stomatolohiia dlia likariv-interniv. Chastyna 1. Kariies ta yoho uskladnennia – Poltava : UKRNOIVI, 2023. – 190 s.
3. Eden, E. Evidence-Based Caries Prevention / E. Eden (eds.) – Cham : Springer Nature, 2025. – 223 c.
4. Endodontic Advances and Evidence-Based Clinical Guidelines / ed. A. Smith – Hoboken : Wiley-Blackwell, 2024. – 430 c.
5. Rosen, E., Nemcovsky, C. E., Tsesis, I. Evidence-Based Decision Making in Dentistry: Multidisciplinary Management of the Natural Dentition / E. Rosen, C. E. Nemcovsky, I. Tsesis (eds.) – Cham : Springer Nature, 2025. – 174 c.
6. American Dental Association. ADA Practical Guide to Dental Radiography and Imaging / Angela G. Geron, Audrey R. Brooks (eds.) – Chicago : ADA, 2023. – 512 c.
7. Malamed, S.F. Medical Emergencies in the Dental Office: A Practical Guide / Stanley F. Malamed – St. Louis : Elsevier, 2022. – 360 c.
8. ADA Council on Scientific Affairs; American Dental Association. Evidence-Based Dentistry: Integrating Clinical Expertise with Systematic Research / eds. J. M. Flanagan et al. – Chicago : ADA, 2021. – 298 c.
9. Fontana, M., Zero, D. T., Wolff, M. S. Contemporary Approach to Dental Caries / editors Deborah A. Niessen, Manuela Fontana – Cham : Springer, 2022. – 415 c.
10. Fejerskov, O., & Kidd, E. Dental Caries: The Disease and its Clinical Management / O. Fejerskov, E. Kidd – 4-th ed. – Oxford : Wiley-Blackwell, 2025. – 448 c.
11. Craig, R. G., Ferracane, J. L., & Sakaguchi, R. L. Craig's Restorative Dental Materials / R. G. Craig, J. L. Ferracane, R. L. Sakaguchi – 15-th ed. – St. Louis : Elsevier, 2025. – 528 c.
12. ADA Science & Research Institute. American Dental Association Clinical Practice Guidelines – 2024 Update – Chicago : ADA, 2024. – 220 c.
13. American Dental Association. ADA Practical Guide to Dental Radiography and Imaging / A. G. Geron, A. R. Brooks (eds.) – Chicago : ADA, 2023. – 512 c.
14. Malamed, S. F. Medical Emergencies in the Dental Office: A Practical Guide / S. F. Malamed – 8-th ed. – St. Louis : Elsevier, 2022. – 360 c.
15. Newman, M. G., Klokkevold, P. R., Elangovan, S., & Kapila, Y. Carranza's Clinical Periodontology and Implant Dentistry / M. G. Newman et al. – 14-th ed. – St. Louis : Elsevier, 2023. – 1200 c.
16. Operative Dentistry and Endodontics: Evidence-Based Clinical Practice / авторський колектив – London : Elsevier, 2023. – 550 c.
17. Hargreaves, K. M., & Berman, L. H. Cohen's Pathways of the Pulp / K. M. Hargreaves, L. H. Berman – 13-th ed. – St. Louis : Elsevier, 2021. – 1280 c.
18. Standards in Dentistry: A Practical Manual of Clinical Standards for Dental Practice – 3-rd ed. – London : College of General Dentistry, 2025. – 320 c.
19. Hiremath, S. S. Textbook of Public Health Dentistry / S. S. Hiremath – 3-rd ed. – New Delhi : Elsevier, 2023. – 400 c.
20. Clinical Decision Support in Dentistry: Integrating Evidence and Practice / eds. L. Smith, J. Green – New York : Springer, 2024. – 280 c.
21. Dental Practice Management and Risk Assessment / eds. T. Patel, M. Adams – Chicago : Quintessence Publishing, 2022. – 320 c.

17.3 Information resources

Ukrainian resources:

1. State Expert Centre of the Ministry of Health of Ukraine. Industry standards and clinical guidelines - https://www.dec.gov.ua/cat_mtd/galuzevi-standarti-ta-klinichni-nastanovi/.
2. Public Health Centre of the Ministry of Health of Ukraine - <https://phc.org.ua>.
3. National Scientific Medical Library of Ukraine - full-text medical publications <https://library.gov.ua>.
4. NAMN Ukraine (National Academy of Medical Sciences of Ukraine) - scientific publications, research <https://amnu.gov.ua>.
5. Association of Dentistry of Ukraine (ASU) - clinical recommendations, professional standards <https://www.udenta.org.ua/>.
6. Scientific journal 'Modern Dentistry' - <https://www.dentalexpert.com.ua/>.
7. Scientific journal 'Ukrainian Dental Almanac' - <https://dental-almanac.org/>.
8. Scientific journal 'Bulletin of Dentistry' - <https://visnyk.od.ua/>.
9. Scientific Periodicals of Ukraine (Vernadsky National Library) - <https://www.nbu.gov.ua>.
10. Ukrainian Association of Periodontology and Osseointegration (UAPO) - <https://uaperio.org>.

International resources:

1. European Federation of Periodontology (EFP) - <https://www.efp.org>.
2. American Academy of Periodontology (AAP) - <https://www.perio.org>.
3. Cochrane Library - <https://www.cochranelibrary.com>.
4. PubMed / MEDLINE - <https://pubmed.ncbi.nlm.nih.gov>.
5. Scopus - <https://www.scopus.com>.
6. ScienceDirect - <https://www.sciencedirect.com>.
7. Wiley Online Library - <https://onlinelibrary.wiley.com>.
8. SpringerLink - <https://link.springer.com>.
9. International Association for Dental Research (IADR) - <https://www.iadr.org>.

Digital and educational resources:

10. Coursera (Dental & Biomedical Sciences) - <https://www.coursera.org>.
11. Khan Academy Medicine - <https://www.khanacademy.org/science/health-and-medicine>.
12. ResearchGate - <https://www.researchgate.net>.
13. Google Scholar - <https://scholar.google.com>.

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