

**PRIVATE HIGHER EDUCATIONAL INSTITUTION
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"
Department of Dentistry**

"APPROVED"

Acting Head of the Department
_____ Oleksandr BIDA

WORKING PROGRAM OF EDUCATIONAL DISCIPLINE

"Therapeutic dentistry"

LEVEL OF HIGHER EDUCATION Second (master's) level

DEGREE OF HIGHER EDUCATION Master's degree

BRANCH OF KNOWLEDGE 22 Healthcare

SPECIALTY 221 Dentistry

COURSE 5

Reviewed and approved
at the meeting of the Department of Dentistry
Protocol No. 1 of "31". 08. 2022

Kyiv 2022

Working program of educational discipline "Therapeutic dentistry" for the preparation of students of higher education of the second (master's) level of higher education in the specialty 221 Dentistry.

Developers: Doctor of Medicine, Professor Kuts V.P. assistants Shabranska V.V., Koloskova K.Yu.

Approved by the Central Methodical Council of the Academy Protocol No. 1 of 31.08 2022

Agreed

First Vice-Rector



Oleksandra SOROKA

INTRODUCTION

The working study program was compiled in accordance with the following normative documents :

the Law of Ukraine "On Higher Education" dated 07.1.2014 No. 1556-VII; by the order of the Ministry of Education and Culture of Ukraine of June 24, 2019 No. 879 "On approval of the standard of higher education in specialty 221 "Dentistry" for the second (master's) level of higher education"; the educational and professional program (OPP) of specialist training in specialty 221 "Dentistry" for the second (master's) level of higher education; educational program of the educational discipline " Therapeutic dentistry ".

Description of the academic discipline (abstract)

Therapeutic dentistry is a discipline whose methods are aimed at preserving the health of teeth, organs and tissues of the oral cavity, restoring their anatomical form and physiological function, and preventing dental diseases by therapeutic methods. According to the sample curriculum of the undergraduate training of specialists of the second (master's) level of higher education in the specialty 221 "Dentistry", the study of the academic discipline " T Dentists I » is carried out by students in the 3rd , 4th and 5th years of study in V - X semesters

The subject of study of the educational discipline is the question of etiology, pathogenesis, clinical manifestations of diseases of the teeth, periodontium and mucous membrane of the oral cavity, methods of their treatment, as well as national and individual preventive measures to prevent the most common diseases such as caries and its complications, periodontal disease.

Interdisciplinary connections : the study of "Therapeutic Dentistry" is based on the knowledge previously acquired by students in human anatomy, histology, cytology and embryology, pathological anatomy, biological chemistry, microbiology, virology and immunology, clinical pharmacology, pathomorphology, pathophysiology, internal medicine, dermatology , venereology, social medicine and propaedeutics of therapeutic dentistry and integrates with these disciplines.

1. The purpose and tasks of the educational discipline

1.1. The goal of teaching the academic discipline "Therapeutic Dentistry" is to train a dentist who is able to diagnose, prevent and treat diseases of the teeth, periodontium and the mucous membrane of the oral cavity.

1.2. The main tasks of study disciplines "Therapeutic dentistry" have the ability to conduct an examination of a dental patient, identify leading syndromes and symptoms, justify and formulate a preliminary diagnosis; analyze the results of the examination of a dental patient and carry out differential diagnosis, formulate the final diagnosis of the main diseases, detect and identify the manifestations of somatic and infectious diseases in the oral cavity, determine the nature and principles of treatment of patients in the clinic of therapeutic dentistry, identify different clinical variants of the course and complications of the most common dental diseases , to carry out their primary and secondary prevention.

1.3 Competencies and learning outcomes, the formation of which contributes to the discipline (interrelationship with the normative content of the training of higher education applicants, formulated in terms of learning outcomes in the Standard).

According to the requirements of the "Standard of Higher Education of Ukraine", the discipline "Therapeutic Dentistry" ensures that students acquire the following *competencies* .

Integral: the ability to solve complex tasks and problems in the field of health care in the specialty " C tomatology " in the process of education and future professional activity.

General:

- 1) ability to abstract thinking, analysis and synthesis; the ability to be modernly trained, constantly learn and deepen one's knowledge based on the achievements of modern medicine and, in particular, dentistry;
- 2) knowledge and understanding of the subject area and understanding of the profession;
- 3) the ability to apply acquired knowledge in practical situations;
- 4) the ability to communicate in the state language both orally and in writing; the ability to communicate in a second language;
- 5) skills in using information and communication technologies;
- 6) the ability to search, process and analyze information from various sources;
- 7) ability to adapt and act in a new situation; ability to work autonomously;
- 8) ability to identify and solve problems;
- 9) the ability to choose a communication strategy;
- 10) ability to work in a team;
- 11) interpersonal skills;
- 12) the ability to act on the basis of ethical considerations (motives);
- 13) skills in performing safe activities;
- 14) the ability to evaluate and ensure the quality of performed works;
- 15) desire to preserve the environment;
- 16) the ability to act socially responsibly and civically .

Special:

- 1) collection of medical information about the patient's condition;
- 2) evaluation of the results of laboratory and instrumental research methods;
- 3) establishing a clinical diagnosis of a dental disease;
- 4) diagnosis of emergency conditions;
- 5) planning and carrying out measures for the prevention of dental diseases;
- 6) determination of the nature and principles of treatment of dental diseases;
- 7) determination of the necessary regime of work and rest, diet in the treatment of dental diseases;
- 8) determination of the tactics of managing a dental patient with somatic pathology;
- 9) performing medical and dental manipulations;
- 10) treatment of basic dental diseases;
- 11) organization of medical evacuation measures;
- 12) determination of tactics and provision of emergency medical assistance;
- 13) organization and conduct of dental dispensation of persons subject to dispensary supervision;
- 14) assessment of the impact of the environment on the state of health of the population (individual, family, population);
- 15) maintaining medical documentation;
- 16) processing of state, social and medical information.

Detailing of competences in accordance with the descriptors of the NRC in the form of "Matrix of competences ".

Matrix of competences

N o s/p	Competence	Knowledge	Skill	Communication	Autonomy and responsibility
1	2	3	4	5	6
<p align="center">Integral competence:</p> <p align="center">the ability to solve complex tasks and problems in the field of health care in the specialty " C tomatology " in the process of education and professional activity</p> <p align="center">Special competences:</p>					
1.	Collection of medical information about the patient's condition	Principles and sequence of examination of a dental patient with odontopathology , periodontal diseases , oral mucosa .	Assess the general, psychomotor, and physical development of the patient, the state of the maxillofacial organs . To analyze the necessity of prescribing certain methods of examining a dental patient, their informativeness and significance in the diagnosis of odontopathology , diseases periodontium and oral mucosa. Assess the state of the teeth, periodontium , oral mucosa and changes in them. Interpret the results of the main clinical and additional examination methods for various odontological diseases, diseases of the periodontium and the mucous membrane of the oral cavity.	Demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination in a therapeutic clinic stomatology when communicating with the patient, the patient's relatives, colleagues.	Be responsible for observing the principles of examination of the dental patient
2.	Evaluation of laboratory and instrument results _ _ mental studies (for _	Biochemical composition of saliva, oral fluid, their biophysical properties (pH , remineralizing potential), structural and functional acid resistance of enamel. Indications for conducting and interpretation of results	Evaluate and interpret results biochemical, biophysical, microbiological studies of saliva and oral fluid. Carry out and evaluate the structural and functional acid resistance of enamel, electroodontology , reoperiodontography , vacuum test, hardware determination of the length of the root canal.	Be able to reasonably explain changes in the condition of the teeth, periodontium , and mucous membrane of the oral cavity , saliva, oral fluid, blood, urine , general	To be responsible for the correctness and accuracy of assessment of laboratory and instrumental examination methods.

1	2	3	4	5	6
	list 5 of the Standard)	functional examination of a dental patient with diseases of the teeth, periodontium , oral mucosa. Normal values of basic human constants (clinical, biochemical analysis of blood, urine, etc.) and changes in them during pathological processes in the oral cavity, somatic and infectious diseases. Cytological, microbiological examination of organs and tissues of the oral cavity, oral fluid.	Prescribe according to indications and evaluate the results of X-ray diagnostics , functional examination, clinical, immunological, biochemical tests of blood, urine, cytological, histological, microbiological studies in various pathological conditions of the teeth, periodontium and mucous membrane of the oral cavity.	patient 's condition , the patient's relatives , when discussing with colleagues.	
3.	Installation clinical diagnosis of stomatological disease (according to list 2.1 of the Standard) _	Clinical manifestations (complaints, history of illness and life, results of objective examination) of various forms of major odontological diseases, diseases periodontium , mucous membrane of the oral cavity	Classify carious and non-carious lesions, endodontic (pulp and periodontal) diseases, periodontal diseases , oral mucosa. Identify and identify leading clinical symptoms and syndromes (according to list 1 of the Standard). According to standard methods, using a logical analysis of previously obtained data of subjective and objective examination , additional methods, carried out differential diagnosis, establish a clinical diagnosis of dental disease.	To be able to substantiate the clinical diagnosis of dental disease for the patient, when discussing with colleagues.	To be responsible for the reliability and accuracy of the formulation of the diagnosis

1	2	3	4	5	6
4.	Diagnosis of non-urgent conditions and determination of tactics and provision of emergency medical assistance	Know the clinical manifestations of emergency conditions at a dental therapeutic appointment and under any circumstances (at home, on the street, in a medical institution); tactics, algorithms for providing emergency medical care	Identify and identify leading clinical symptoms of emergency conditions (according to list 4 of the Standard). To perform medical manipulations for the provision of emergency medical aid, using standard schemes under any circumstances and under limited time (according to list 6 of the Standard).	Analyze the causes of the patient's emergency condition at the dental appointment and under any circumstances	To be responsible for the timely diagnosis of emergency conditions and the correctness of providing emergency medical care
5.	Planning and carrying out measures for the prevention of dental diseases	Schemes of mass and individual prevention of odontological diseases and illnesses periodontium and oral mucosa	Analyze the epidemiological situation in relation to dental morbidity and carry out measures of social, medicinal and individual , medicinal and non-medicinal prevention of dental diseases	The ability to organize measures for social, medical and individual prevention of dental diseases	To be responsible for the timeliness and effectiveness of preventive measures regarding dental diseases
6.	Determination of the nature and principles of basic dental treatment diseases (according to list 2.1 of the Standard)	Principles of treatment of various forms of non-carious lesions, caries and its complications, patients with pathological changes of the periodontium , mucous membrane of the oral cavity.	In accordance with the principles of treatment, draw up curation schemes for patients with basic dental diseases (caries and non-carious lesions of the teeth, pulpitis, periodontitis , periodontal and oral mucosa diseases) according to existing algorithms and treatment standards in accordance with the list of dental manipulations (according to list 7 of the Standard).	To be able to justify the choice of treatment scheme for the main dental diseases for the patient and when discussing with the patient's colleagues and relatives.	Be responsible for the treatment regimens of patients with major dental diseases

1	2	3	4	5	6
7.	Determination of the necessary regime of work and rest, diet in the treatment of dental diseases	Peculiarities of the regime of work, rest, and diet in the treatment of various forms of non-carious lesions, caries and its complications, patients with pathological changes in the periodontium, the mucous membrane of the oral cavity.	Provide recommendations on the organization of the work regime, rest, diet in the treatment of various forms of non-carious lesions, caries and its complications, patients with pathological changes in the periodontium, oral mucosa.	Complex interaction, if necessary, with internists, relatives of patients with non-carious lesions, caries and its complications, pathological changes in the periodontium, oral mucosa.	To be responsible for the obligation to inform patients and their relatives about the organization of the regime of work, rest, and diet during the treatment of the main stomatological diseases. _
8.	Determination of the tactics of management of a dental patient with somatic pathology	Peculiarities of the course and treatment of the main dental diseases with physiological conditions and somatic diseases that require special patient management tactics. Peculiarities of analgesia in patients with somatic pathology.	Assess the patient's condition during pregnancy, diseases of the blood and blood-forming organs, cardiovascular diseases, neuropsychiatric disorders, diseases of the respiratory, digestive, endocrine, skeletal-muscular systems and connective tissue, infectious and parasitic diseases; allergic and immunodeficiency conditions. Make a reasoned decision regarding the tactics of treatment and implement it in the treatment of patients with pathological changes in the dental status during pregnancy, diseases of the blood and hematopoietic organs, cardiovascular diseases, mental disorders, diseases of the respiratory, endocrine, skeletal and muscular systems and connective tissue, infectious and parasitic diseases.	Be able to justify the choice of the scheme of dental treatment of patients with special physiological conditions, somatic and infectious pathology when discussing with colleagues, relatives of the patient.	To be responsible for the safety of performed dental manipulations in the treatment of patients in a special physiological state and in case of somatic, infectious pathology

1	2	3	4	5	6
9.	Performing medical and dental manipulations	Algorithm for performing medical and dental manipulations according to the lists in Appendix 6 and 7 of the Standard.	Perform medical and dental manipulations according to the lists in Annexes 6 and 7 of the Standard.		To be responsible for the quality of medical and dental manipulations
10	Treatment of basic dental diseases	<p>Schemes of treatment of various forms of non-carious lesions, caries and its complications, patients with pathological changes of the periodontium , mucous membrane of the oral cavity.</p> <p>Composition, properties, indications for the use of filling materials for permanent and temporary fillings, medical pads, filling of root canals (sealers and fillers) and methods of their application.</p> <p>Pharmacodynamics and pharmacokinetics, indications and contraindications for the use of medicinal and physiotherapeutic agents used in the clinic of therapeutic dentistry.</p>	Treat patients with various forms of non-carious lesions, caries and its complications, patients with pathological changes in the periodontium , oral mucosa.	Be able to justify the effectiveness and quality of the treatment of patients with major dental diseases.	To be responsible for the completeness and quality of the treatment of patients with major dental diseases

1	2	3	4	5	6
11	Organization and conduct stomatologic al dispensation of persons subject to dispensary supervision.	Basics of dispensation (types, stages, evaluation of effectiveness) of persons with dental diseases in accordance with the protocols for providing medical care in the specialty "therapeutic dentistry"	Perform dispensary work in accordance with the basics of dispensation of persons with major dental diseases in accordance with protocols for providing medical care in the specialty "therapeutic dentistry"	Organize dispensary work in close interaction with patients and their relatives.	To be responsible for the high-quality organization and implementation of dispensation for persons with major dental diseases
12	environmental factors - of snow environment on the state of the dental and jaw apparatus of a person and health in general	Features of climate -geographic, social, economic characteristics of the region of residence of the dental patient. The impact of environmental, social, and occupational hazards on the state of the jaw and teeth and the human body in general.	To assess the impact of exogenous factors on the health of patients in general and the state of the dental and jaw apparatus, in particular. To determine the nature of disease-causing factors, pathogenetic links of pathological changes in dental status in persons exposed to pathogenic environmental factors.	To be able to explain to the patient the impact of environmental, social , professional hazards on the state of the jaw and jaw apparatus and the human body in general.	Bear responsibility for the lack of knowledge and their application regarding the climate - geographical, social, economic characteristics of the region of residence of the dental patient
13	Maintenance of medical documentation	The list of necessary medical documentation of a dentist to be filled out at a therapeutic dental appointment (according to the order of the Ministry of Health No. 110 of 02/14/2012)	Fill out the necessary medical documentation when conducting a therapeutic appointment: form No. 043/o "Medical card of a dental patient; No. 037/o "Dentist's daily record sheet" ; No. 039-2/o "Dentist's work accounting diary. Be able to issue referrals for consultations of other specialists, X-ray, functional and laboratory examination	Be able to cooperate, exchange the necessary information about the patient's condition with specialized specialists	To be responsible for the timeliness and correctness of medical documentation

Learning outcomes.

Therapeutic dentistry, as an educational discipline, lays the foundation for the further formation of integrative final program learning results in accordance with the Standard of Higher Education of Ukraine for undergraduate training of specialists of the second (master's) level of the "Dentistry" specialty, which are indicated below.

1. Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using previous data of complaints, anamnesis, examination and assessment of local status, knowledge about a person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2).
2. Collect information about the patient's general condition, evaluate the patient's psychomotor and physical development, the condition of the maxillofacial organs based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 5).
3. Prescribe and analyze a laboratory, functional and/or instrumental examination (according to list 5) of a patient with a dental disease for differential diagnosis of diseases (according to list 2).
4. Formulate the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision and logical analysis of the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis under the control of the head physician in the conditions of a medical institution (according to the list 2.1).
5. To establish the diagnosis of urgent conditions under any circumstances (at home, on the street, in a medical institution), in conditions of emergency, martial law, lack of information and limited time (according to list 4).
6. Plan and implement dental disease prevention measures among the population to prevent the spread of dental diseases.
7. Analyze the epidemiological situation and carry out measures of mass and individual, general and local drug and non-drug prevention of dental diseases.
8. Determine the nature of dental disease treatment (according to the list of m 2) by making a reasoned decision according to existing algorithms and standard schemes.
9. To determine the nature, principles of the regime of work, rest and necessary diet in the treatment of dental diseases (according to list 2) on the basis of a preliminary or final clinical diagnosis by making a reasoned decision according to existing algorithms and standard schemes.
10. Determine the tactics of managing a dental patient with somatic pathology (according to list 3) by making a reasoned decision according to existing algorithms and standard schemes.
11. Carry out treatment of basic dental diseases according to existing algorithms and standard schemes under the control of the head physician in the conditions of a medical institution (according to list 2.1).
12. To organize medical evacuation measures among the population, military personnel, in emergency situations, including martial law, during the expanded stages of medical evacuation, taking into account the existing system of medical evacuation support.
13. Determine the tactics of providing emergency medical care, using the recommended algorithms, under any circumstances based on the diagnosis of an emergency condition in limited time (according to list 4).
14. Analyze and evaluate state, social and medical information using standard approaches and computer information technologies.
15. Assess the impact of the environment on the state of health of the population

in the conditions of a medical institution according to standard methods

After completing the study of the discipline "Therapeutic Dentistry", students should **know** :

- clinical features of the anatomical and histological structure of the teeth, periodontium, mucous membrane and organs of the oral cavity;
- classification of dental diseases (caries and its complications, non-caries lesions of the hard tissues of the tooth), periodontium, oral mucosa;
- basic methods of examination of dental patients;
- clinical signs of dental diseases;
- basic clinical and biochemical indicators of the norm of biological fluids of the human body;
- principles of differential diagnosis of dental diseases;
- principles and stages of treatment of dental patients;
- types, levels and measures of prevention of diseases of the teeth, periodontium and mucous membrane of the oral cavity;
- the main signs of emergency conditions at a dental appointment and under any circumstances (at home, on the street, in a medical institution);
- tactics, algorithms for providing emergency medical assistance at a dental appointment and under any circumstances under limited time conditions;

be able to :

- conduct an examination of a dental patient;
- to analyze changes in the structure of hard tissues of the tooth, pulp, periodontium, mucous membrane of the oral cavity, related to age and pathological conditions;
- substantiate and formulate a preliminary diagnosis;
- carry out differential diagnosis;
- analyze the results of examination of a dental patient;
- determine the clinical diagnosis of the main diseases of the teeth, periodontium, mucous membrane of the oral cavity;
- detect and identify manifestations of somatic, infectious diseases in the oral cavity;
- determine the nature and principles of treatment of patients in the clinic of therapeutic dentistry;
- identify various clinical variants and complications of the most common dental diseases;
- carry out primary and secondary prevention of the most common diseases in the clinic of therapeutic dentistry.
- to determine the necessary work and diet regime in the treatment of dental diseases in the clinic of therapeutic dentistry;
- determine the diagnosis of an emergency;
- determine the tactics and provision of emergency medical assistance;
- organize medical evacuation measures.

2. Information volume academic discipline

630 hours - 21 are allocated to the study of the academic discipline ECTS credit.

According to the sample curriculum for training specialists of the second (master's) level of higher education in the field of knowledge 22 "Health care" in

higher educational institutions of the Ministry of Health of Ukraine by specialty 221 "Dentistry" educational qualification "Master of Dentistry", professional qualification "Dentist" (2016) study hours are distributed as follows:

Subjects, year of study	Credit ECTS	Hours				
		In total	Aud	Lecture s	Practical	S.S.
Therapeutic dentistry						
5th year of study	10	300	200	40	160	100

The program of the academic discipline "Therapeutic Dentistry" is structured on **modules**, which include **blocks of meaningful modules**:

Module 4. Diseases of the mucous membrane of the oral cavity.

Content module 8. Primary (independent) lesions of the mucous membrane of the oral cavity.

Content module 9. Infectious diseases. Etiology, pathogenesis of manifestations on the mucous membrane of the oral cavity, their clinic, diagnosis. Tactics of a dentist.

Content module 10. Changes in the mucous membrane of the oral cavity in somatic diseases, allergic lesions and exogenous intoxications. Tactics of a dentist.

Content module 11. Diseases of the tongue and lips. Precancerous diseases of the mucous membrane of the oral cavity and the red border of the lips. Stomatogenic chronic intoxication.

Module 5. Deepening of students' clinical thinking. Modern methods of diagnosis, treatment and prevention of major dental diseases. Examination of patients by a dental therapist.

Content module 12. Peculiarities of clinical and laboratory examination of patients, differential diagnosis of diseases of hard tissues of teeth and endodontics. Modern methods of treatment and prevention.

Content module 13. Peculiarities of clinical and laboratory examination of patients, differential diagnosis of periodontal and oral mucosa diseases. Modern methods of treatment and prevention. Examination of patients in the clinic of therapeutic stomatology.

3. The structure of the academic discipline

Names of meaningful modules and topics	Number of hours			
	In total	Lectures	Practice .	S.S.
1	2	3	4	5
Module 4. Diseases of the mucous membrane of the oral cavity - 5 credits (150 hours).				
Content module No. 8.				
Primary lesions of the mucous membrane of the oral cavity				
1. Anatomical-physiological, histological features of the mucous membrane of the oral cavity (SOPR) and the red rim of the lips. Protective factors. Saliva, its composition and physiological role.	5	1	3	1

2 Classification of diseases of the mucous membrane of the oral cavity (M.F. Danylevskyi, P.T. Maksimenko, MKH-10). Peculiarities of the examination of patients with ENT diseases. Primary and secondary elements of the lesion.	5	1	3	1
3 Traumatic lesions of the mucous membrane of the oral cavity. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	5	1	3	1
4 Autoinfectious stomatitis. Primary acute catarrhal stomatitis. Acute herpetic stomatitis. Acute aphthous stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment, prevention.	5	1	3	1
5 Ulcerative stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment, prevention.	5	1	3	1
6 Fungal lesions of the mucous membrane of the oral cavity. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	5	1	3	1
<p align="center">Content module No. 9</p> <p align="center">Infectious diseases. Etiology, pathogenesis of manifestations on the mucous membrane of the oral cavity, their clinic, diagnosis. Tactics of a dentist.</p>				
7 Influenza, infectious mononucleosis, foot and mouth disease. Etiology, pathogenesis, clinical manifestations on SOPR, diagnosis, treatment and prevention.	6	2	3	1
8 HIV infection. Etiology, pathogenesis. Manifestations in the oral cavity, diagnosis. Treatment and prevention. Tactics of a dentist.	6	2	3	1
9 Tuberculosis. Etiology, pathogenesis, clinical manifestations on SOPR, diagnosis. Treatment and prevention. Tactics of a dentist.	6	2	3	1
10 Syphilis. Gonorrhea. Etiology, pathogenesis, clinical manifestations on SOPR, diagnosis. Treatment and prevention. Tactics of a dentist.	6	2	3	1
<p align="center">Content module No. 10.</p> <p align="center">Changes in the mucous membrane of the oral cavity in somatic diseases, allergic lesions and exogenous intoxications. Tactics of a dentist.</p>				
11 Changes in the SOPR in diseases of the alimentary canal (ulcer disease, gastritis, enteritis, colitis, chronic hepatitis). Tactics of a dentist.	6	2	3	1
12 Changes in the SOPR in diseases of the cardiovascular system (circulatory insufficiency, arterial hypertension). Tactics of a dentist.	6	2	3	1
13 Changes in the SOPR in diseases of the endocrine system (acromegaly, Itsenko-Cushing's disease, diabetes). Xerostomia. Tactics of a dentist.	6	2	3	1
14 Changes in the SOPR in diseases of the blood and hematopoietic organs. Leukemia. Agranulocytosis. Tactics of a dentist.	6	2	3	1
15 Changes in the SOPR in diseases of the blood and hematopoietic organs. Anemia. Waquer's disease. Werlhof's disease, hemophilia. Tactics of a dentist.	6	2	3	1

16 Changes of SOPR in hypo - and vitaminosis A, C, group B and RR. Tactics of a dentist.	6	2	3	1
17 Changes of SOPR in dermatoses with an autoimmune component. Pemphigus Etiology, pathogenesis, clinic, diagnosis. Tactics of a dentist.	6	2	3	1
18 Changes in the SOPR in dermatoses with an autoimmune component. Red lichen planus. Etiology, pathogenesis, clinic, diagnosis. Tactics of a dentist.	6	2	3	1
19 Anaphylactic shock. Quincke's edema. Causes, clinical manifestations, emergency care. Allergic medicinal stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	6	2	3	1
20 Multiform exudative erythema. Stevens -Johnson syndrome . Etiology, pathogenesis , clinical manifestations, diagnosis, treatment and prevention.	6	2	3	1
21 Chronic recurrent aphthous stomatitis. Behçet's syndrome. Pathogenesis, clinic, diagnosis, treatment and prevention.	5	1	3	1
22 Changes in the SOPR during exogenous intoxications. Diagnostics. Tactics of a dentist.	5	1	3	1

Content module No. 11				
Diseases of the tongue and lips. Precancerous diseases of the mucous membrane of the oral cavity and the red border of the lips. Stomatogenic chronic intoxication.				
23 Primary glossitis . Desquamative and diamond-shaped glossitis. Folded and hairy tongue. Clinic, diagnosis, treatment and prevention. Neurogenic diseases of the tongue. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	5	1	3	1
24 Heylites. Etiology, clinic, diagnosis, treatment and prevention	5	1	3	1
25 Precancerous diseases. Classification of precancers of the mucous membrane of the oral cavity and the red border of the lips. Prognosis and prevention of precancerous diseases. Obligate precancers of the mucous membrane of the oral cavity and the red border of the lips. Facultative precancers of the mucous membrane of the oral cavity and the red border of the lips. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	5	1	3	1
26 Stomatogenic chronic intoxication. Etiology. Pathogenesis. Clinic, diagnosis, treatment and prevention of stomatogenic chronic intoxication . Protection of academic medical history	5	1	3	1
27 Summary of practical skills. Diff. exam	6		2	4
In total	150	40	80	30
Module 5. Deepening of students' clinical thinking. Modern methods of diagnosis, treatment and prevention of major dental diseases. Examination of patients by a dental therapist. - 5 credits (150 hours)				
Content module No. 12				
Peculiarities of clinical and laboratory examination, differential diagnosis of diseases of hard tissues of teeth and endodontics . Modern methods of treatment and prevention.				

1 Differential diagnosis of non-carious lesions of hard tissues of teeth. Modern methods of whitening and restoration of teeth with non-carious lesions. Physical factors in the diagnosis and treatment of non-carious dental lesions.	5		3	2
2 Differential diagnosis of carious lesions of hard tissues of teeth. Modern methods of treatment and prevention of dental caries. Physical factors in the diagnosis and treatment of carious dental lesions.	5		3	2
3 Differential diagnosis of pulpitis. Dystrophic changes in the pulp in general diseases of the body. Modern technologies for the treatment of pulp pits . Physical factors in the treatment of complicated caries.	5		3	2

4 Differential diagnosis of periodontitis. X-ray diagnostics . Errors and complications in the diagnosis of pulpitis and periodontitis. Modern technologies of treatment of periodontitis. Physical factors in the treatment of complicated caries.	5		3	2
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Content module 13.

Peculiarities of clinical and laboratory examination of patients with changes in periodontal tissues and oral mucosa. Differential diagnosis of periodontal and oral mucosa diseases. Modern methods of their treatment, dispensation and prevention.

5 Differential diagnosis of catarrhal, hypertrophic, ulcerative-necrotic gingivitis and localized periodontitis. Treatment and prevention, use of physical factors in the diagnosis and treatment of inflammatory periodontal diseases.	5		3	2
6 Differential diagnosis of periodontitis and periodontosis. Modern methods of treatment and prevention. The use of physical factors in the diagnosis and treatment of dystrophic-inflammatory and dystrophic periodontal diseases. Control session.	5		3	2
7 Differential diagnosis of traumatic injuries of the mucous membrane of the oral cavity. Modern methods of treatment and prevention. The use of physical factors in the diagnosis and treatment of traumatic lesions of the SOPR.	5		3	2
8 Differential diagnosis of primary (autoinfectious) lesions of the mucous membrane of the oral cavity. Acute herpetic stomatitis. Acute aphthous stomatitis. Acute ulcerative-necrotic stomatitis.	5		3	2
9 Modern methods of treatment and prevention of primary stomatitis.	5		3	2
10 Differential diagnosis of manifestations of viral diseases on the mucous membrane of the oral cavity. AIDS, influenza, foot and mouth disease, infectious mononucleosis.	5		3	2
11 Tactics of a dentist in the treatment of manifestations of viral diseases on the mucous membrane of the oral cavity.	5		3	2
12 Differential diagnosis of manifestations of bacterial diseases on the mucous membrane of the oral cavity. Diphtheria, tuberculosis, syphilis, gonorrhea.	5		3	2
13 Tactics of a dentist in the treatment of manifestations of bacterial diseases on the mucous membrane of the oral cavity.	5		3	2

14 Differential diagnosis of lesions of the mucous membrane of the oral cavity in diseases of the alimentary canal, cardiovascular, endocrine and nervous systems.	6		3	3
15 Modern methods of treatment and prevention of lesions of the mucous membrane of the oral cavity in diseases of the digestive tract, cardiovascular, endocrine and nervous systems.	6		3	3
16 Differential diagnosis of manifestations of diseases of the blood and hematopoietic organs on the mucous membrane of the oral cavity. Leukemia, agranulocytosis, anemia and thrombocytopenic purpura.	6		3	3
17 Leukemia, agranulocytosis, anemia and thrombocytopenic purpura. Tactics of a dentist.	6		3	3
18 Differential diagnosis of drug therapy complications associated with allergies, dysbacteriosis and intoxications. Tactics of a dentist. Providing emergency care.	6		3	3
19 Differential diagnosis of manifestations on the mucous membrane of the oral cavity of dermatoses with an autoimmune component. Pemphigus, lichen planus red. Clinic, diagnostics, tactics of a dentist.	6		3	3
20 Differential diagnosis of tongue diseases. Modern methods of treatment and prevention.	6		3	3
21 Differential diagnosis of lip diseases. Modern methods of treatment and prevention.	6		3	3
22 Differential diagnosis of precancerous conditions of the mucous membrane of the oral cavity and the red border of the lips. Optional pre-treatments. Modern methods of treatment and prevention	6		3	3
23 Differential diagnosis of precancerous conditions of the mucous membrane of the oral cavity and the red border of the lips. Obligatory predictions. Modern methods of treatment and prevention	6		3	3
24 Laboratory methods of diagnosis of basic dental diseases. Methods of taking material for cytological and bacteriological examination of patients.	6		3	3
25 Providing emergency care to patients with acute dental conditions. Algorithm of actions. Providing first aid to patients in emergency situations (anaphylactic shock, fainting, collapse, hypertensive crisis, acute heart failure). Algorithm of actions.	6		3	3
26 Analysis of the quantitative and qualitative work of a dental therapist. Summary of theoretical knowledge and practical skills.	5		3	2
27 Diff test.	12		2	10
In total	150	-	80	70
Total hours for modules 4 and 5 (for the 5th year of study)	300	40	160	100

Topics of lectures on therapeutic dentistry For students of the 5th year of 2022-2023

No	The topic of the lecture	Number
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		hours
1	2	3
Module 4. Diseases of the mucous membrane of the oral cavity .		
1	Mucous membrane of the oral cavity (SOPR). Structure and functions. Pathological processes occurring at the SOPR. Primary and secondary elements of the lesion.	2
2	Systematics of SOPR diseases. Peculiarities of the examination of patients with ENT diseases.	2
3	Etiology, pathogenesis, clinic, diagnosis, treatment and prevention of traumatic lesions of the SOPR.	2
4	Etiology, pathogenesis, clinic, diagnosis, treatment, and prevention of autoinfectious diseases.	2
5	Etiology, pathogenesis, clinic, diagnosis, treatment, prevention of viral diseases manifested in the maxillofacial region (influenza, foot and mouth disease, infectious mononucleosis)	2
6	Etiology, pathogenesis, clinic, diagnosis, treatment, prevention of HIV/AIDS, manifestation in the maxillofacial area. Tactics of a dentist.	2
7	Etiology, pathogenesis, clinic, diagnosis of diphtheria and tuberculosis, their manifestation in the maxillofacial area. Tactics of a dentist.	2
8	Etiology, pathogenesis, clinic, diagnosis of syphilis, gonorrhea, manifestation in the maxillofacial region. Tactics of a dentist.	2
9	Etiology, pathogenesis, clinic, diagnosis, treatment, prevention of mycotic lesions of the mucous membrane of the oral cavity.	2
10	Manifestations of diseases of the alimentary canal, cardiovascular, endocrine, and nervous systems in the oral cavity, their diagnosis. Tactics of a dentist.	2
11	Hypovitaminosis , their manifestations in the maxillofacial area, prevention, tactics of the dentist	2
12	Manifestations of diseases of the blood and hematopoietic organs in the maxillofacial area, diagnosis, tactics of the dentist.	2
13	Etiology, pathogenesis, clinic, diagnosis, treatment and prevention of allergic diseases and reactions with manifestation in the maxillofacial region	2
14	Etiology, pathogenesis, clinic, diagnosis, treatment of dermatoses with pathological changes in the maxillofacial area.	2
15	Manifestations in the oral cavity of exogenous intoxications, diagnosis, tactics of the dentist	2
16	Etiology, pathogenesis, clinic, diagnosis, treatment and prevention of lip diseases	2
17	Etiology, pathogenesis, clinic, diagnosis, treatment and prevention of tongue diseases	2
18	Etiology, pathogenesis, classification, clinic, diagnosis, treatment, dispensation, and prevention of precancerous diseases of the red border of the lips and SOPR.	2
19	The use of physical factors in the diagnosis and treatment of diseases of the mucous membrane of the oral cavity.	2
20	Etiology, pathogenesis, clinic, diagnosis, treatment and prevention of stomatogenic chronic intoxication	2
	Together	40

Topics of practical classes in therapeutic dentistry

For students of the 5th year of 2022-2023

Module 4. Diseases of the mucous membrane of the oral cavity		
Content module No. 8. "Primary lesions of the mucous membrane of the oral cavity"		
1	Anatomical-physiological, histological features of the mucous membrane of the oral cavity (SOPR) and the red border of the lips. Protective factors. Saliva, its composition and physiological role.	3
2	Classification of diseases of the mucous membrane of the oral cavity (M.F. Danylevsky, P.T. Maksimenko, MKH-10). Peculiarities of the examination of patients with ENT diseases. Primary and secondary elements of the lesion.	3
3	Traumatic lesions of the mucous membrane of the oral cavity. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
4	Autoinfectious stomatitis. Primary acute catarrhal stomatitis. Acute herpetic stomatitis. Acute aphthous stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment, prevention.	3
5	Ulcerative stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment, prevention.	3
6	Fungal lesions of the mucous membrane of the oral cavity. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
Content module No. 9. " Infectious diseases. " Etiology, pathogenesis of manifestations on the mucous membrane of the oral cavity, their clinic, diagnosis. Tactics of a dentist"		
7	Influenza, infectious mononucleosis, foot and mouth disease. Etiology, pathogenesis, clinical manifestations on SOPR, diagnosis, treatment and prevention.	3
8	HIV infection. Etiology, pathogenesis. Manifestations in the oral cavity, diagnosis. Treatment and prevention. Tactics of a dentist.	3
9	Tuberculosis. Etiology, pathogenesis, clinical manifestations on SOPR, diagnosis. Treatment and prevention. Tactics of a dentist.	3
10	Syphilis. Gonorrhea. Etiology, pathogenesis, clinical manifestations on SOPR, diagnosis. Treatment and prevention. Tactics of a dentist.	3
Content module No. 10. " Changes in the mucous membrane of the oral cavity in somatic diseases, allergic lesions and exogenous intoxications." Tactics of a dentist"		
11	Changes of SOPR in diseases of the alimentary canal (ulcer disease, gastritis, enteritis , colitis, chronic hepatitis). Tactics of a dentist.	3
12	Changes in the SOPR in diseases of the cardiovascular system (circulatory insufficiency, arterial hypertension). Tactics of a dentist.	3
13	Changes in the SOPR in diseases of the endocrine system (acromegaly, Itsenko-Cushing's disease , diabetes). Xerostomia. Tactics of a dentist.	3
14	Changes in the SOPR in diseases of the blood and hematopoietic organs. Leukemia. Agranulocytosis. Tactics of a dentist.	3
15	Changes in the SOPR in diseases of the blood and hematopoietic organs. Anemia. Waquez's disease . Werlhof's disease , hemophilia. Tactics of a dentist.	3
16	Changes of SOPR in hypo - and vitaminosis A, C, group B and RR. Tactics of a dentist.	3
17	Changes in the SOPR in dermatoses with an autoimmune component. Pemphigus Etiology, pathogenesis, clinic, diagnosis. Tactics of a dentist.	3
18	Changes in the SOPR in dermatoses with an autoimmune component. Red	3

	lichen planus. Etiology, pathogenesis, clinic, diagnosis. Tactics of a dentist.	
19	Anaphylactic shock. Quincke's edema. Causes, clinical manifestations, emergency care. Allergic medicinal stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
20	Multiform exudative erythema. Stevens -Johnson syndrome . Etiology, pathogenesis , clinical manifestations, diagnosis, treatment and prevention.	3
21	Chronic recurrent aphthous stomatitis. Behçet's syndrome. Pathogenesis, clinic, diagnosis, treatment and prevention.	3
22	Changes in the SOPR during exogenous intoxications. Diagnostics. Tactics of a dentist.	3
Content module No. 11. Diseases of the tongue and lips. Precancerous diseases of the mucous membrane of the oral cavity and the red border of the lips. Stomatogenic chronointoxication"		
23	Primary glossitis . Desquamative and diamond-shaped glossitis. Folded and hairy tongue. Clinic, diagnosis, treatment and prevention. Neurogenic diseases of the tongue. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
24	Heilites. Etiology, clinic, diagnosis, treatment and prevention	3
25	Precancerous diseases. Classification of precancers of the mucous membrane of the oral cavity and the red border of the lips. Prognosis and prevention of precancerous diseases. Obligate precancers of the mucous membrane of the oral cavity and the red border of the lips. Facultative precancers of the mucous membrane of the oral cavity and the red border of the lips. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
26	Stomatogenic chronic intoxication. Etiology. Pathogenesis. Clinic, diagnosis, treatment and prevention of stomatogenic chronic intoxication . Protection of academic medical history	3
27	Summary of practical skills.	2
	In total	80

**THEMATIC PLAN OF PRACTICAL LESSONS
OF THERAPEUTIC DENTISTRY
FOR STUDENTS OF THE V COURSE OF THE 10TH SEMESTER OF
2022-2023**

No	Topic	Hours
1	Differential diagnosis of non-carious lesions of hard tissues of teeth. Modern methods of whitening and restoration of teeth with non-carious lesions. Physical factors in the diagnosis and treatment of non-carious dental lesions.	3
2	Differential diagnosis of carious lesions of hard tissues of teeth. Modern methods of treatment and prevention of dental caries. Physical factors in the diagnosis and treatment of carious dental lesions.	3
3	Differential diagnosis of pulpitis. Dystrophic changes in the pulp in general diseases of the body. Modern technologies for the treatment of pulp pits . Physical factors in the treatment of complicated caries.	3

4	Differential diagnosis of periodontitis. X-ray diagnostics . Errors and complications in the diagnosis of pulpitis and periodontitis. Modern technologies of treatment of periodontitis. Physical factors in the treatment of complicated caries.	3
5	Differential diagnosis of catarrhal, hypertrophic, ulcerative-necrotic gingivitis and localized periodontitis. Treatment and prevention, use of physical factors in the diagnosis and treatment of inflammatory periodontal diseases.	3
6	Differential diagnosis of periodontitis and periodontosis. Modern methods of treatment and prevention. The use of physical factors in the diagnosis and treatment of dystrophic-inflammatory and dystrophic periodontal diseases. Control session.	3
7	Differential diagnosis of traumatic injuries of the mucous membrane of the oral cavity. Modern methods of treatment and prevention. The use of physical factors in the diagnosis and treatment of traumatic lesions of the SOPR.	3
8	Differential diagnosis of primary (autoinfectious) lesions of the mucous membrane of the oral cavity. Acute herpetic stomatitis. Acute aphthous stomatitis. Acute ulcerative-necrotic stomatitis.	3
9	Modern methods of treatment and prevention of primary stomatitis.	3
10	Differential diagnosis of manifestations of viral diseases on the mucous membrane of the oral cavity. AIDS, influenza, foot and mouth disease, infectious mononucleosis.	3
11	Tactics of a dentist in the treatment of manifestations of viral diseases on the mucous membrane of the oral cavity.	3
12	Differential diagnosis of manifestations of bacterial diseases on the mucous membrane of the oral cavity. Diphtheria, tuberculosis, syphilis, gonorrhea.	3
13	Tactics of a dentist in the treatment of manifestations of bacterial diseases on the mucous membrane of the oral cavity.	3
14	Differential diagnosis of lesions of the mucous membrane of the oral cavity in diseases of the alimentary canal, cardiovascular, endocrine and nervous systems.	3
15	Modern methods of treatment and prevention of lesions of the mucous membrane of the oral cavity in diseases of the alimentary canal, cardiovascular, endocrine and nervous systems.	3
16	Differential diagnosis of manifestations of diseases of the blood and hematopoietic organs on the mucous membrane of the oral cavity. Leukemia, agranulocytosis, anemia and thrombocytopenic purpura.	3
17	Leukemia, agranulocytosis, anemia and thrombocytopenic purpura. Tactics of a dentist.	3

18	Differential diagnosis of complications of drug therapy associated with allergies, dysbacteriosis and intoxications. Tactics of a dentist. Providing emergency care.	3
19	Differential diagnosis of manifestations on the mucous membrane of the oral cavity of dermatoses with an autoimmune component. Pemphigus, lichen planus red. Clinic, diagnostics, tactics of a dentist.	3
20	Differential diagnosis of tongue diseases. Modern methods of treatment and prevention.	3
21	Differential diagnosis of lip diseases. Modern methods of treatment and prevention.	3
22	Differential diagnosis of precancerous conditions of the mucous membrane of the oral cavity and the red border of the lips. Optional pre-treatments. Modern methods of treatment and prevention	3
23	Differential diagnosis of precancerous conditions of the mucous membrane of the oral cavity and the red border of the lips. Obligatory predictions. Modern methods of treatment and prevention	3
24	Laboratory methods of diagnosis of basic dental diseases. Methods of taking material for cytological and bacteriological examination of patients.	3
25	Providing emergency care to patients with acute dental conditions. Algorithm of actions. Providing first aid to patients in emergency situations (anaphylactic shock, fainting, collapse, hypertensive crisis, acute heart failure). Algorithm of actions.	3
26	Analysis of the quantitative and qualitative work of a therapist-dentist. Summary of theoretical knowledge and practical skills.	3
27	Diff . exam.	2
	In total	80

**Thematic plan of the independent outside the auditorium
work students
from the discipline of pediatric therapeutic dentistry age
For students of the Dentistry department of IAEM 2022 -
23**

**TYPES OF STUDENTS' INDEPENDENT WORK
V COURSE – MODULE № 4 , 9th semester**

	Topic	№	Control
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		hours	
1.	Preparation for practical classes – theoretical preparation and development of practical skills, writing an academic case history.	4	Current control in practical classes
2.	Independent study of topics that are not part of the classroom lesson plan:		
2.1.	Chronic recurrent herpes. Causes, pathogenesis, clinic, diagnosis, treatment, prevention.	2	Final modular control
2.2.	Chronic ulcerative stomatitis. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	2	
2.3.	AIDS. Etiology, pathogenesis. Clinical picture, course of the disease.	2	
2.4.	Diphtheria. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	2	
2.5.	Changes in the mucous membrane of the oral cavity in dermatoses with an autoimmune component. Lupus erythematosus. Tactics of a dentist.	2	
2.6.	Changes in the mucous membrane of the oral cavity in dermatoses with an autoimmune component. Pemphigoids.	2	
2.7.	Damage to the mucous membrane of the oral cavity during radiation sickness.	2	
2.8.	Precancerous diseases. Prognosis and prevention of precancerous diseases.	2	
3.	Individual SRS - review of scientific literature, writing abstracts, conducting scientific research.	4	Final modular control
4.	Preparation for the final control of the assimilation of module No. 4	6	Final modular control
	Total 30	30	

Thematic plan of the independent outside the auditorium work students from the discipline of therapeutic stomatology For students of the dentistry faculty of IAEM 2022 -23			
1.	Preparation for practical classes – theoretical preparation and development of practical skills	4	
2.1	Independent study of topics that are not part of the classroom lesson plan:		
2.2	Modern sealing materials for performing artistic restorations.	4	Abstracts, presentations
2.3	Methods of treatment of discolored teeth with non-carious lesions.	4	Abstracts, presentations, conducting scientific research
2.4	X-ray characteristics of changes in the periodontium according to S.A. by Windruh .	4	Abstracts, presentations
2.5	Computed tomography. Modern methods of periodontal tissue research .	4	Abstracts, presentations
2.6	Tactics of treatment of various forms of periodontitis and pulpitis using optical systems. Endodontic office equipment.	4	Abstracts, presentations
2.7	Modern endodontic tools for cleaning, expanding and sealing root canals. ISO standards. Method of use. Organization of reception of endodontic patients	4	Abstracts, presentations
2.8	Instrumental processing of root canals with the " Step-back " " Crown-down " technique. Basic methods of obturation of root canals with hot gutta-percha	4	Abstracts, presentations
2.9.	The latest methods of processing root canals with the help of rotary instruments of various companies. (Mallifer , Soco , Endostar)	4	Abstracts, presentations
2.10.	Basics of aesthetic restoration of teeth.	4	Abstracts, presentations
2.11.	Theoretical foundations of prevention, levels, types and methods of prevention. Massage in the treatment of dental patients. Types, mechanisms of action, methods of application	4	Review of scientific literature, abstract Messages, presentations.
2.12	Medical examination of dental patients.	4	Review of scientific literature, abstract message

2.13	Tactics of treatment of periodontal patients by the Vector system. Modern physiotherapeutic methods of treatment of periodontitis	4	Abstracts, presentations
2.14	Modern methods of treatment of patients with pathological attrition of teeth. Application of darsonvalization methods in the treatment of dental patients.	4	Review of scientific literature, abstract Messages, presentations.
2.15	Clinical and laboratory tests of malignancy in patients with precancers .	4	Review of scientific literature, abstract message
3.	Preparation for the Difzalik	6	Final modular control
	Together	70	

Independent work of students involves:

- development of topics that are not included in the topics of classroom classes;
- preparation for practical classes;
- preparation for control of mastering content modules and final modular control

9. Individual tasks

1. Creation of educational videos on:
 - diagnosis and treatment of diseases of hard tooth tissues of carious and non-carious origin, endodontic diseases;
 - on the methods of examination of the dental patient, diagnosis and treatment of periodontal diseases;
 - on the methods of examination of the dental patient, diagnosis and treatment of diseases of the mucous membrane of the oral cavity;
 - on differential diagnosis of dental diseases in the clinic of therapeutic dentistry.
2. Production of tools for visualizing learning (educational stands, models, preparations, etc.).
3. Preparation of scientific student papers and reports at scientific student conferences.
4. Participation in professional student Olympiads in the discipline.
5. Participation in competitions of professional skills.

10. Tasks for independent work of students

**A list of theoretical questions to the substantive one module I 8
"Primary (independent) lesions of the mucous membrane of the oral cavity".**

1. Diseases of the mucous membrane of the oral cavity. Classification. The role of external and internal factors in etiology and pathogenesis.
2. The influence of alcoholic beverages and smoking on the occurrence, development, course of diseases of the mucous membrane of the oral cavity.

3. Primary stomatitis caused by mechanical, chemical and physical factors. Causes, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
4. Leukoplakia. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
5. Changes in the mucous membrane of the oral cavity during radiation therapy of neoplasms of the maxillofacial area. Treatment, prevention.
6. Catarrhal stomatitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
7. Herpetic lesions of the red border of the lips and the mucous membrane of the oral cavity in adults. Clinic, diagnosis, differential diagnosis, treatment.
8. Acute aphthous stomatitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
9. Ulcerative stomatitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
10. Candidiasis of the mucous membrane of the oral cavity. Reasons. Clinic, diagnosis, differential diagnosis, treatment, prevention.

List of practical tasks for content module 8

"Primary (independent) lesions of the mucous membrane of the oral cavity".

1. Conduct a clinical examination of a patient with pathology of the mucous membrane of the oral cavity; correctly draw up the medical history, draw up a plan for examination and treatment of the patient.
2. Take material for cytological and bacteriological research.
3. Analyze the results of cytological, histological, bacteriological examination of the patient, clinical analysis of blood, urine, biochemical analysis of blood for glucose content.
4. Perform application, infiltration, conductor anesthesia and electroanesthesia .
5. Carry out irrigation, instillation and application of medicines.

A list of theoretical questions to the substantive one module I 9

"Infectious diseases. Etiology, pathogenesis of manifestations on the mucous membrane of the oral cavity, their clinic, diagnosis. Tactics of a dentist".

1. Damage to the mucous membrane of the oral cavity in HIV infection and AIDS. Clinic, diagnosis, treatment, prevention.
2. Damage to the mucous membrane of the oral cavity during influenza, infectious mononucleosis, foot-and-mouth disease, shingles. Clinic, diagnosis, treatment, prevention.
3. Manifestations of syphilis in the oral cavity. Diagnosis, differential diagnosis. Tactics of a dentist.
4. Manifestations of tuberculosis in the oral cavity. Diagnosis, differential diagnosis. Tactics of a dentist.
5. Gonorrhea. Etiology, pathogenesis, manifestations on the mucous membrane of the oral cavity. Diagnosis, differential diagnosis. Tactics of a dentist.

A list of practical tasks to a meaningful one module I 9

"Infectious diseases. Etiology, pathogenesis of manifestations on the mucous membrane of the oral cavity, their clinic, diagnosis. Tactics of a dentist".

1. Conduct a clinical examination of a patient with pathology of the mucous membrane of the oral cavity; correctly draw up the medical history, draw up a plan for examination and treatment of the patient.
2. Take material for cytological and bacteriological research.
3. Analyze the results of cytological, histological, bacteriological examination of the patient, clinical analysis of blood, urine, biochemical analysis of blood for glucose content.
4. Perform application, infiltration, conductor anesthesia and electroanesthesia .
5. Carry out irrigation, instillation and application of medicines.

A list of theoretical questions to the substantive one module i is 10
"Changes in the mucous membrane of the oral cavity in somatic diseases, allergic lesions and exogenous intoxications. Tactics of a dentist".

1. Damage to the mucous membrane of the oral cavity in the pathology of the cardiovascular system. Clinic, diagnosis, differential diagnosis, treatment.
2. Lesions of the mucous membrane of the oral cavity in the pathology of the alimentary canal. Clinic, diagnosis, differential diagnosis, treatment.
3. Lesions of the mucous membrane of the oral cavity in pathology of the endocrine system. Clinic, diagnosis, treatment.
4. Lesions of the mucous membrane of the oral cavity in cases of hypo- and vitamin deficiency. Reasons. Clinical manifestations, treatment, prevention.
5. Damage to the mucous membrane of the oral cavity in leukemia, agranulocytosis. Diagnosis, differential diagnosis. Tactics of a dentist.
6. Manifestations of pernicious anemia in the oral cavity. Diagnosis, differential diagnosis. Tactics of a dentist.
7. Pemphigus Its manifestations are in the oral cavity. Clinic, diagnosis, differential diagnosis, treatment.
8. Red lichen planus. Clinic, diagnosis, differential diagnosis, treatment.
9. Lupus erythematosus. Clinic, diagnosis, differential diagnosis, treatment.
10. Allergic stomatitis. Diagnosis, differential diagnosis, treatment, prevention.
11. The method of setting and evaluating allergy tests (ordinary and rotary prick test), their significance for the diagnosis of drug allergy.
12. Chronic recurrent aphthous stomatitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment.
13. Multiform exudative erythema. Clinic, diagnosis, differential diagnosis, treatment
14. Manifestations of intoxication with salts of heavy metals in the oral cavity. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
15. Anaphylactic shock. Diagnostics. Providing emergency care for anaphylactic shock.
16. Quinke's edema. Clinical manifestations. Providing emergency care.

A list of practical tasks to a meaningful one module i is 10
"Changes in the mucous membrane of the oral cavity in somatic diseases, allergic lesions and exogenous intoxications. Tactics of a dentist".

1. Work with dental equipment and tools, be able to sterilize them.

2. Prepare reporting and accounting documentation of the dentist, analyze the quantitative and qualitative indicators of the dentist's work at the therapeutic appointment.
3. Conduct a clinical examination of a patient with pathology of the mucous membrane of the oral cavity; correctly draw up the medical history, draw up a plan for examination and treatment of the patient.
4. Determine and evaluate oral hygiene indices and evaluate them.
5. Take material for cytological and bacteriological research.
6. Analyze the results of cytological, histological, bacteriological examination of the patient, clinical and biochemical analysis of blood and urine.
7. Carry out irrigation and application of medicines.
8. Prescribe medication and prescribe physiotherapy treatment.
9. Give recommendations on oral hygiene.

**A list of theoretical questions to the substantive one module I 11
Diseases of the tongue and lips. Precancerous diseases of the mucous
membrane of the oral cavity and the red border of the lips. Stomatogenic
chronointoxication".**

1. Primary glossitis. Desquamative and diamond-shaped glossitis. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment.
2. Folded and hairy tongue. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment.
3. Glossalgia, glossodynia. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
4. Exfoliative cheilitis. Etiology, clinic, diagnosis, differential diagnosis, treatment.
5. Glandular cheilitis. Etiology, clinic, diagnosis, differential diagnosis, treatment.
6. Actinic cheilitis. Etiology, pathogenesis, clinic, diagnosis, treatment.
7. Eczematous cheilitis. Etiology, clinic, diagnosis, treatment.
8. Precancerous diseases of the mucous membrane of the oral cavity and the red border of the lips. Classification.
9. Abrasive precancerous cheilitis Manganotti. Etiology, pathogenesis, clinic, diagnosis, treatment.
10. Stomatogenic chrointoxication . Concept. Theories of occurrence, pathogenesis.
11. Diagnosis of stomatogenic chronic infections and chronic intoxications .
12. Stomatogenic clinic chronic infections and chronic intoxications .
13. Treatment and prevention of stomatogenic chronic infections and chronic intoxications .

**A list of practical tasks to a meaningful one module I 11
Diseases of the tongue and lips. Precancerous diseases of the mucous
membrane of the oral cavity and the red border of the lips. Stomatogenic
chronointoxication".**

1. Draw up the reporting and accounting documentation of the dentist, analyze the quantitative and qualitative indicators of the doctor's work at the therapeutic appointment.

2. Conduct a clinical examination of a patient with pathology of the mucous membrane of the oral cavity; correctly draw up the medical history, draw up a plan for examination and treatment of the patient.
3. Take material for cytological and bacteriological research.
4. Analyze the results of cytological, histological, bacteriological examination of the patient, clinical analysis of blood, urine, biochemical analysis of blood for glucose content.
5. Perform application, infiltration, conductor anesthesia and electroanesthesia .
6. Carry out irrigation, instillation and application of medicines.
7. Prescribe medication and prescribe physiotherapy treatment.
8. Perform professional oral hygiene.

A list of theoretical questions to the substantive one module I 12
" Features of clinical and laboratory examination of patients, differential diagnosis of diseases of hard tissues of teeth and endodontics . Modern methods of treatment and prevention".

1. Classification of non-carious lesions of teeth (V.K. Patrikeeva , MKH-10).
2. Current state of etiology, pathogenesis, clinic, diagnosis of non-carious lesions of teeth that occur during the formation of tooth buds: hypoplasia and fluorosis of teeth.
3. Current state of etiology, pathogenesis, clinic, diagnosis of non-carious dental lesions occurring after teeth eruption: wedge-shaped defect, erosion of hard dental tissues, necrosis of hard dental tissues.
4. Hyperesthesia of hard tissues of the tooth. Clinic, diagnostics, modern methods of treatment.
5. Dental injuries: etiology, pathogenesis, clinic, diagnosis, treatment.
6. Dental plaque. Formation mechanism, structure, physical properties, chemical composition. Plaque microorganisms. Methods of plaque removal.
7. Dental fluorosis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
8. Methods of whitening teeth affected by fluorosis (I.O. Novik , 1951; V.K. Patrikeev , 1958; G.D. Ovrutskyi, 1962; A.K. Nikolishin , 1977, 1989; N.M. Ilenko , 1991, etc.).
9. Modern methods of teeth whitening (using hydrogen peroxide and carbamide peroxide). Influence of physical factors.
10. Caries: definition of the concept, indicators of dental caries damage, their importance in the organization of dental care for the population to assess the effectiveness of treatment.
11. Miller's theory of dental caries. Advantages and disadvantages. Contribution of D.A. Entina, I.H. Lukomsky in solving the problem of etiology and pathogenesis of caries.
12. Experimental caries. The contribution of domestic scientists to the development of the caries problem (N.S. Nikitin, M.G. Bugayova, I.A. Begelman , A.E. Sharpenak).
13. Modern ideas about the etiology and pathogenesis of caries. Contribution of A.I. Rybakova, E.V. Borovsky, P.A. Leusa , V.K. Leontieva, V.R. Okushko in solving the problem.

14. Classification of caries. Differential diagnosis of carious lesions of teeth.
15. Modern methods of treatment and restoration of teeth with carious lesions.
16. Caries prevention: types, methods of application. Oral hygiene. Assessment of effectiveness, its role in the prevention and treatment of caries.
17. Pulpitis. Etiology. The role of microflora and ways of infection. Pathogenesis of pulpitis. The role of sensitization of the body.
18. Classification of pulpitis Yu.M. Gofunga , working classification of the department of propaedeutics of therapeutic dentistry of VDNZU "UMSA", their positive and negative sides.
19. Differential diagnosis of pulpitis. Dystrophic changes in the pulp in general diseases of the body.
20. Conservative method of treatment of pulpitis: essence, rationale and indications for use, therapeutic agents, mechanism of action on the pulp, method of treatment.
21. Surgical methods of treatment of pulpitis. Analgesia Types, indications for use, positive and negative aspects.
22. Etiology and pathogenesis of periodontitis. Classification of periodontitis I.H. Lukomsky , S.A. Vaindrukh .
23. Differential diagnosis of periodontitis. X-ray diagnostics . X-ray characteristics of changes in the periodontium according to S.A. by Windruh .
24. Features and main stages of periodontitis treatment. Modern technologies of instrumental and drug treatment of root canals.
25. Treatment of periodontitis with difficult and impassable root canals. Medicines and methods of expanding root canals.
26. Physical methods in the complex treatment of pulpitis and periodontitis.

A list of practical tasks to a meaningful one module I 12

" Features of clinical and laboratory examination of patients, differential diagnosis of diseases of hard tissues of teeth and endodontics . Modern methods of treatment and prevention".

1. Equip the dental office and ensure its functioning in compliance with the basics of ergonomics in dentistry.
2. Work with dental equipment and tools, be able to sterilize them.
3. Prepare reporting and accounting documentation of the dentist, analyze the quantitative and qualitative indicators of the dentist's work at the therapeutic appointment.
4. Conduct a clinical examination of a patient with pathology of teeth, periodontal tissues, oral mucosa; correctly draw up the medical history, draw up a plan for examination and treatment of the patient.
5. Define indexes oral hygiene and evaluate them.
6. Carry out such additional methods of patient examination as EOD TER and be able to evaluate them.
7. Be able to analyze radiographs of teeth, periodontium.
8. Analyze the results of functional, cytological, histological, bacteriological examination of the patient, clinical and biochemical blood and urine tests.
9. Perform application, infiltration, conductive analgesia.
10. Carry out teeth whitening.
11. Carry out remineralization of the hard tissues of the teeth.

12. Cover the teeth with therapeutic and preventive varnishes, gels.
13. Seal the fissures.
14. Prepare carious cavities for various filling materials.
15. Open the cavities of the teeth.
16. Perform amputation and extirpation of the pulp.
17. Apply devitalizing agents in the treatment of pulpitis.
18. To treat inflammation and damage to the pulp by preserving its vital activity.
19. Carry out medicinal and instrumental treatment of root canals.
20. Perform impregnation, depophoresis, seal root canals (with pastes, cements, pins).
21. Close the perforation of the bottom, walls of the carious cavity and the cavity of the tooth.
22. Apply temporary fillings and hermetic bandages in the treatment of caries, pulpitis, periodontitis.
23. Seal prepared carious tooth cavities with cements, amalgams, composite materials.
24. Grinding and polishing seals made of all types of sealing materials.

**A list of theoretical questions to the substantive one module I 13
"Features of clinical and laboratory examination of patients, differential diagnosis of periodontal and oral mucosa diseases. Modern methods of treatment and prevention. Examination of patients in the clinic of therapeutic stomatology".**

1. Classification of periodontal diseases (M.F. Danylevsky, MKH-10). Positive qualities and disadvantages.
2. Modern ideas about the etiology and pathogenesis of periodontal diseases. The role of local and general factors.
3. Criteria for assessing periodontal condition. Hygienic and periodontal indices (Fedorova- Volodkinoi , Green-Vermillion, interdental index, PI, RMA, KPI, CPITN).
4. Differential diagnosis of periodontal diseases.
5. Local interventions in the treatment of periodontal diseases. Methods of removing dental deposits. Curettage of periodontal pockets. Conducting method. Use of medicinal substances.
6. General treatment of periodontitis. Indication. Selection of medicines.
7. Physical methods of treatment of periodontal diseases. Indications, contraindications, methods (balneotherapy, massage, electrotherapy; magneto- and laser therapy).
8. Prevention of periodontal diseases.
9. Diseases of the mucous membrane of the oral cavity. Classification.
10. Primary stomatitis caused by mechanical, chemical and physical trauma. Causes, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
11. Infectious (autoinfectious) stomatitis. Causes, pathogenesis, clinic, diagnosis, treatment, prevention.
12. Candidiasis of the mucous membrane of the oral cavity. Reasons. Clinic, diagnosis, differential diagnosis, treatment, prevention.
13. Damage to the mucous membrane of the oral cavity in the pathology of the digestive tract, cardiovascular, endocrine, and nervous systems. Clinic, diagnosis, differential diagnosis, treatment.

14. Damage to the mucous membrane of the oral cavity in leukemia, agranulocytosis. Diagnosis, differential diagnosis. Tactics of a dentist.
15. Manifestations of pernicious anemia in the oral cavity. Diagnosis, differential diagnosis. Tactics of a dentist.
16. Allergic stomatitis. Diagnosis, differential diagnosis, treatment, prevention.
17. Manifestations of intoxication with salts of heavy metals in the oral cavity. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
18. Glossalgia, glossodynia. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
19. Pemphigus Its manifestations are in the oral cavity. Clinic, diagnosis, differential diagnosis, treatment.
20. Red lichen planus. Clinic, diagnosis, differential diagnosis, treatment.
21. Manifestations of syphilis in the oral cavity. Diagnosis, differential diagnosis. Tactics of a dentist.
22. Manifestation of tuberculosis in the oral cavity. Diagnosis, differential diagnosis, treatment.
23. Primary glossitis. Glandular , exfoliative cheilitis. Etiology, clinic, diagnosis, differential diagnosis, treatment.
24. Actinic cheilitis. Eczematous cheilitis. Etiology, pathogenesis, clinic, diagnosis, treatment.
25. Precancerous diseases of the mucous membrane of the oral cavity and the red border of the lips. Classification, etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.
26. Desquamative and diamond-shaped glossitis. Folded and hairy tongue. Etiology, clinic, diagnosis, differential diagnosis, treatment.
27. Damage to the mucous membrane of the oral cavity in HIV infection and AIDS. Clinic, diagnosis, treatment, prevention.
28. First aid for patients with acute pulpitis, periodontitis, periodontitis.
29. Providing emergency care for anaphylactic shock, Quincke's edema, hypertensive crisis, fainting.

A list of practical tasks to a meaningful one module I 13
"Features of clinical and laboratory examination of patients, differential diagnosis of periodontal and oral mucosa diseases. Modern methods of treatment and prevention. Examination of patients in the clinic of therapeutic stomatology".

1. Equip the dental office and ensure its functioning in compliance with the basics of ergonomics in dentistry.
2. Draw up the reporting and accounting documentation of the dentist, analyze the quantitative and qualitative indicators of the doctor's work at the therapeutic appointment.
3. Conduct a clinical examination of a patient with pathology of teeth, periodontal tissues, oral mucosa; correctly draw up the medical history, draw up a plan for examination and treatment of the patient.
4. Determine oral hygiene indices and evaluate them.
5. Determine the indices of PMA, PI, KPI, CPITN, the Schiller-Pysarev test, the bleeding index and be able to analyze them.
6. Carry out the indicated additional methods of patient examination and be able to evaluate them: EOD; sample of V.I. Kulazhenka ; allergy tests in vivo .

7. Take material for cytological and bacteriological research.
8. Be able to analyze radiographs of teeth, periodontium; functional examination.
9. Analyze the results of cytological, histological, bacteriological examination of the patient, clinical and biochemical tests of blood and urine.
10. Perform application, infiltration, conductor anesthesia and electroanesthesia .
11. Carry out the removal of dental deposits.
12. Carry out selective grinding and leveling of the occlusal surface of the teeth.
13. Carry out irrigation, instillation and application of medicines.
14. Apply non-hardening and hardening bandages in the treatment of periodontal diseases.
15. Perform diathermocoagulation in the treatment of pulpitis, periodontitis, periodontal diseases and oral mucosa.
16. Carry out intradental electrophoresis, vacuum massage.
17. Perform an autopsy of a periodontal abscess.
18. Carry out curettage of periodontal pockets.
19. Provide emergency assistance to the patient in case of fainting, collapse, shock.
20. Provide emergency aid to a patient with Quinke's edema, anaphylactic shock.
21. Be able to perform artificial respiration and indirect heart massage.
22. Prescribe medication and prescribe physiotherapy treatment.
23. Perform professional oral hygiene.
24. Give recommendations on oral hygiene.
25. To have the forms and methods of sanitary and educational work.

11. Teaching methods

Teaching methods are proven and systematically functioning methods of interconnected activities of those who teach (teaching methods) and those who study (learning methods), aimed at solving certain educational, educational and developmental tasks in the educational process.

When studying the educational discipline "Therapeutic dentistry", the following teaching methods are used:

- **verbal** (lecture, explanation, story, conversation, instruction);
- **visual** (observation, illustration, demonstration);
- **practical** (various types of exercises, performing graphic works, conducting experiments, practices).
- **explanatory-illustrative** or **information-receptive** , which involve the presentation of ready-made information by the teacher and its assimilation by students;
- **reproductive** , which is based on the performance of various tasks according to the model;
- **method of problem presentation**, which is because the teacher poses a problem and solves it himself, demonstrating the contradictions that characterize the learning process, while the students' task is to control the sequence of presentation of the material, the significance of the evidence, predicting the teacher's next steps; this MN is implemented by training students in problem situations with the aim of successful preliminary preparation for future work in real conditions of practical medical institutions;

- **partially search** or **heuristic** , aimed at mastering individual elements of search activity, for example: the teacher formulates a problem, students - a hypothesis;
- **research** , the essence of which is the teacher's organization of creative research activities of students by posing new problems and problematic tasks.

Teaching methods can also be divided into:

- methods that ensure **perception and assimilation** of knowledge by students (lectures, independent work, instruction, consultation);
- **methods of applying knowledge and acquiring and consolidating abilities and skills** (practical classes, control tasks, working in a clinic, conducting practice);
- **methods of checking and evaluating knowledge, abilities and skills;**
- **methods of encouragement and punishment .**

It should be remembered that the maximum effectiveness of training can be achieved only under the condition of a rational (systemic) combination of various methods.

12. Control methods

The general purpose of control is subordinated to the main task of ensuring high theoretical and scientific equal educational and educational work and, therefore , of high quality preparation personnel _ The specific purpose of control is to determine quality assimilation _ _ educational material , degree compliance formed by x competencies, goals and tasks teaching educationally _ disciplines .

Principles of control : comprehensive nature, systematicity , purposefulness , objectivity , effectiveness , unity requirements , permanent improve everyone its forms and methods .

Effective functioning systems needs pedagogical control compliance certain conditions:

- teachers and students , evaluating the state of education works , act according to the unified in with agreed criteria , justification whose to all known from far away ;
- o prices obtained as a result of control are considered non- violent , do not succumb doubt both from the side of those who controls , as well as from those who are controlled , since are built on objective known criteria _ both side m;
- control _ and him the results require glasnost to _ anyone _ had be able to closely to study them , make on the basis this substantiated conclusions which _ set to active positive work aimed at the necessary adjustment educational process .

The following are nominated for control of knowledge , abilities and skills requirements :

- **objectivity** — creation of conditions under which the knowledge , abilities and skills of students would be maximally accurately manifested , putting forward uniform requirements, fair treatment of each student, the inadmissibility of the presence of elements of bias, the desire to find negative facts or impose purely personal views of the supervisor on certain theoretical problems, methodological techniques, etc .; at the same time, it should be remembered that the objectivity of control is incompatible with a liberal attitude to shortcomings and mistakes, superficiality and narrowness in the analysis and assessment of the work being checked;

- **about g runtness evaluations** — their argumentation ; _ _

- **systematicity** — an important psychological factor that contributes to the formation of such qualities as organization and discipline , forms perseverance and focus on goal achievement;

- **an individual and differentiated approach to the assessment of knowledge , abilities and skills** involves the use of such didactic conditions under which psychological tension is reduced, the peculiarities of the student 's nervous system , his character, potential opportunities, abilities, etc. are taken into account, thanks to which the teacher becomes capable as fully as possible , more correctly and objectively in identifying and evaluating the knowledge of each student ;

- **comprehensiveness and optimality** implies : firstly , adequacy __control goals training , that is informative the control side has to control what taught students and take into account amount material which _ need to learn ; secondly , the validity of the control , he has cover the entire volume knowledge , abilities and skills that controlled ; Third, reliability — stability results , obtain them by repeated control after a certain time, as well as closeness of re with ultates during control , different _ teachers ;

- **the professional orientation** of control, which is determined by the target training of a specialist and thereby contributes to increasing the motivation of the cognitive activity of students — future specialists.

Forms of control:

- according to the coverage of students: frontal, individual, paired, group;
- by method of implementation : oral, written;
- according to the method of organization : control by the teacher, mutual control, self-control;
- by the use of teaching aids : control using printed aids, volume aids (models, dummies, simulators, devices), technical aids, computer systems, including those with support for multimedia files;
- by level of standardization : standardized, non-standardized.

Each of the forms of control has features and is determined by the goal , content , and method and the character of Ohm training _

Oral poll gives it is possible to control not only knowledge , but also verbal abilities , helps correction like lazy people , their mistake . Playback material helps to the best its memorization , active use scientific concepts that could not do without enough application them in the language .

Pysmov e poll it helps find out level assimilation material , but should exclude possibility write-off and carefully monitor students during this survey. Written works in need quite a large amount of the teacher's time for checking .

Integral an element systems educational process at the higher medical educational institutions III and IV levels accreditation schools are **testing** as a standardized assessment method which responds new goals and objectives higher medical education and promotes individualization and manageability educational process and called to provide quality preparation of the future doctor _

All of them forms of control, if skillful their implemented , are accompanied instructions , advice and recommendations teacher to student. Everyone has control cases gives enable the auditee to learn lessons from the audit him work and do correct conclusions for the future .

Rating and mark _

Practical the application of any form of pedagogical control is completed assessments and marks _ _

Assessment is a method and result of establishing the fact of conformity or non-conformity of acquired knowledge and formed abilities and skills learning goals and objectives. The assessment also predicts identification of reasons that hindered learning and means of organizing educational activities to eliminate gaps in knowledge .

Mark - numerical and analogue of assessment and has sprat ranks values .

Basically in assessment quality knowledge , abilities and skills students requirements have been set programs in academic disciplines , but independently from the specifics of the subject are general the requirements are as follows :

- understanding and degree assimilation question , completeness , which is measured quantity software knowledge about the object that is being studied ;
- depth , which characterizes set of connections between we know that _ are realized by students;
- methodological planning _ _ knowledge ;
- familiarization with the main literature on the academic discipline , and - each from modern periodic domestic and foreign literature by specialty ;
- skill apply theory in practice , solve situational tasks , etc.; operability , that is number situations in which the student can to apply your knowledge in practice ;
- familiarization with the history and current state of science and its perspectives development ;
- logic , structure, response style and the student's ability to defend scientific and theoretical provision that _ put forward , awareness , generalization , concreteness ;
- flexibility , that is student's ability to independently find situations in which are applied knowledge ; _
- strength knowledge _

In the process of pedagogical control, it should be taken into account that :

- impractical control what _ must be learned student at the level the identity of the primary representation or recognition ;
- control should not be used if the teacher is sure that all students will cope with the task 100%, at the same time , sometimes it is appropriate to give such tasks that most students can cope with, because in this way students' faith in their own abilities is stimulated;
- well organized gradual control reduces the need in the final or in general does last unnecessary ;
- it is necessary to vary means of control;
- creation calm benevolent atmosphere in the process of control contributes better work students and has a positive effect on its results .

the student's **current educational activity is carried out** when mastering each topic of the module by assigning a rating on a 4-point traditional scale, at the end of the module the average rating is calculated, which is converted into points.

The maximum number of points for the student's current educational activity is **120 points**.

Assessment of students' independent work, which is provided for in the topic together with classroom work, is carried out during the ongoing control of the topic in the corresponding classroom lesson. The evaluation of topics that are submitted only for independent work and are not included in the topics of classroom training sessions is controlled during the defense of the essay and during the final module control.

13. Form of final control of study success

The final module control is carried out upon completion of the study of all topics of the module (content modules) in the last session of the module. Students who have completed all types of work provided for in the curriculum and who have studied the module and scored at least the minimum number of points are admitted to the final examination.

The final module control is standardized and includes control of theoretical and practical training. The theoretical part of the PMK consists of 25 test tasks (2 points each - a total of 50 points) and 1 theoretical question and 2 practical tasks, which are evaluated for 10 points. Practical training is evaluated based on the student's ability to perform a patient examination, differential diagnosis of diseases, establish a diagnosis, reasonably choose a treatment method, perform basic dental manipulations on phantoms (80 points in total). **The final module control** is credited to the student if he scored at least **50** points out of a possible 80. The **total** number of points for each module is 200.

Final semester certification

Compilation of semester final certifications (SPA, exams).

Students who have fulfilled all the requirements of the curriculum are allowed to take the final certification, and in the individual curriculum (report book) there is a note about admission to the SPA.

The last final module control of the academic discipline subject to SPA is conducted in the form of an exam. For students with a normative (shortened) term of study, the semester final certification is not conducted in the 2nd year of study.

The exam is taken by a commission approved by the order of the rector, consisting of: an examiner, members of the commission - representatives of the dean's office and specialized departments, in the presence of the teacher who last taught in this student group.

The grade for the exam corresponds to the scale:

- Grade "5" - 80-71 points;
- Grade "4" - 70-61 points;
- Grade "3" - 60-50 points;
- Grade "2" - less than 50 points.

The results of the student's completion of the SPA (exam) are recorded in the "Students' Performance Information in the Discipline" and sealed with the signatures of the examiner and members of the commission, after which the results of the SPA are announced to the students.

14. Scheme of accrual and distribution of points received by students

Conversion of a traditional 4-point scale into a multi-point (maximum 120 points) – conversion of the total current success rate for the module – is carried out only after the current class, which precedes the final module control. The conversion is carried out according to the following algorithm:

- the student's average grade on a traditional 4-point scale obtained during current classes belonging to this module is calculated (to the nearest hundredth of a point);
- in order to obtain a converted multi-point total assessment of current success for the module, the average assessment obtained on a traditional 4-point scale must be multiplied by a factor of 24. The exception is the case when the average assessment on a traditional 4-point scale is 2 points. In this case, the student receives 0 points on a multi-point scale;
- the current grade point average is calculated based on the total number of classes in the module, not on the number actually attended by the student.

**Correspondence of the average score of the current academic
performance according to the traditional one
4-point scale to the total evaluation of the current success rate for the
module**

The minimum converted sum of current success points for all modules of the discipline is **72 points**.

The average score of the current academic performance on a traditional 4-point scale	Points for current performance after GPA conversion
2.00	0
2.05	49
2.10	50
2.15	52
2.20	53
2.25	54
2.30	55
2.35	56
2.40	58
2.45	59
2.50	60
2.55	61
2.60	62
2.65	64
2.70	65
2.75	66
2.80	67
2.85	69
2.90	70
2.95	71
3.00	72
3.05	73
3.10	74
3.15	75
3.20	77
3.25	78
3.30	79
3.35	80
3.40	82
3.45	83
3.50	84
3.55	85
3.60	86
3.65	87
3.70	89
3.75	90
3.80	92

3.85	93
3.90	94
3.95	95
4.00	96
4.05	97
4.10	98
4.15	99
4.20	101
4.25	102
4.30	103
4.35	104
4.40	106
4.45	107
4.50	108
4.55	109
4.60	110
4.65	111
4.70	113
4.75	114
4.80	115
4.85	116
4.90	118
4.95	119
5.00	120

The result of the final module control is evaluated in points (the traditional 4-point evaluation is not assigned). The maximum number of points of the final modular control is 80 points. The minimum number of points of the final module control, at which the control is considered passed, is 50 points.

The maximum number of points per module is 200 points. The PMK assessment criteria are determined by the department, approved by the cyclic methodical commission on the implementation of the credit-module system of education and brought to the attention of students at the beginning of the study of the discipline (the first lecture and practical session).

Discipline assessment

The evaluation of the discipline "Therapeutic Dentistry" is given only to students who have passed all the modules of the discipline. According to the decision of the Academic Council, incentive points can be added to the number of points in the discipline for students who have scientific publications or won prizes for participation in Olympiads in the discipline among universities of Ukraine, student conferences, etc. The objectivity of evaluating the educational activity of students must be checked by statistical methods (by the correlation coefficient between the current success rate and the results of the final module control).

The grade for the discipline is issued by the department on a traditional (national) 4-point scale based on the average number of points for all modules provided by the discipline program.

The scale for converting the average number of points for all modules provided by the discipline program into a traditional assessment on the 4-point scale of disciplines and for all departments is the same (according to the table).

**Transferring the average number of points for all modules provided
by the discipline program into a traditional grade for
4-point scale**

The average number of points for all modules provided by the discipline program	Traditional assessment for 4-point scale
122 - 149.99	"3"
150 - 179.99	"4"
180 - 200	"5"

The grade from the discipline is not converted from the ECTS grade.

The grade for the discipline is issued to the student no later than on the next working day after the last final module control.

If the student does not retake at least one final module test before the beginning of the new semester, he receives a traditional grade of "2" and an ECTS grade of "F" for the discipline, which is the basis for expelling the student.

15. Methodological support

1. Working curriculum of the discipline;
2. Handbooks for students studying the discipline;
3. Plans of lectures, practical classes and independent work of students;
4. Methodological developments, theses, texts, multimedia presentations of lectures on the discipline;
5. Methodical guidelines for independent work of students in practical classes, including material for theoretical preparation and indicative maps for mastering professional skills and abilities, tests for self-control in accordance with the topics of practical classes.
6. Instructional materials for extracurricular independent work on topics assigned for independent study.
7. Theoretical questions and practical tasks to control the assimilation of content modules;
8. Materials for final module tests (examination tickets including 25 test tasks, 1st theoretical and 2nd practical tasks and evaluation criteria).
9. Examination tickets for SPA and state integrated examination
10. Methodological recommendations for teachers for practical classes according to the thematic plan.

16. Recommended literature

Basic (basic)

1. Therapeutic stomatology: Textbook for students of the stomatological faculty of higher medical educational institutions of IV level of accreditation / Ed. Anatoliy Nikolishina - Ed. 2nd, corrected and supplemented. – Vinnytsia: Nova Kniga, 2012. – 680 p.
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Auxiliary

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2. Belikova N.I., Petrushanko T.O., Belikov O.B. Principles of biomechanics of splinting of rhombic teeth. - K.: NVP " Interservice" LLC , 2016. - 186 p.

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11. Danylevskiy M.F. Disease of the mucous membrane of the oral cavity / M.F. Danylevskiy , O.F. Nesyn , Z.I. Rich _ - K., 1998. - 408 p.

12. Dermatostomatitis / G.S. Chuchmai , L.O. Tsvih , S.S. Riznyk , B.S. Hrynyk _ - Lviv , 1998. - 136 p.

13. Additional methods examination in dentistry: educational manual / Hasyuk N.V., Chernyak V.V., Klitynska V.V., Borodach V.O. etc. __ – Ternopil , 2017. – 120 p.

14. Zabolotnyi T.D., Borysenko A.V., Markov A.V., Shilivskiy I.V. Generalized periodontitis. - Lviv: GalDent , 2011. - 240 p.

15. Zabolotny T.D., Borysenko A.V., Pupin T.I. Inflammatory periodontal diseases. - Lviv: GalDent , 2013. - 206 p.

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17. Information resources

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4. Electronic resource [<http://www.mosdental.ru/Pages/Page28.1.html>]
5. Electronic resource [<http://mirknig.com/knigi/nauka/ucheba/1181309066-terapevticheskaya-stomatologiya-uchebnik.html>]