

MINISTRY OF HEALTH PROTECTION OF UKRAINE

ODESSA NATIONAL MEDICAL UNIVERSITY

Department of therapeutic dentistry

Acting vice-rector for scientific and pedagogical work
Eduard BURIACHUKIVSKYI
September 1, 2024

APPROVED"



WORKING PROGRAM

«INDUSTRIAL DENTAL PRACTICE»

Level of higher education: second (master's)

Field of knowledge: 22 "Health care"

Specialty: 221 "Dentistry"

Educational and professional program: "Dentistry"

2024

The work program is based on the educational and professional program "Dentistry" of training specialists of the second (master's) level of higher education in the specialty 221 "Dentistry" of the field of knowledge 22 "Health care", approved by the Academic Council of ONMedU (protocol No.10 dated June, 27 2024).

Developers:

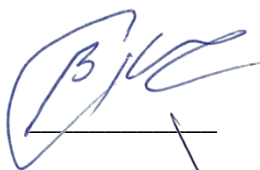
Doctor of medicine, prof. Skyba V.Ya.

Head of the department, Doctor of Psychology, Assoc. S.M. Koval

PhD, Assoc. prof. O.V. Honcharenko

The program was discussed at the meeting of the department of therapeutic dentistry, protocol No 1 from 27.08. 2024

Chief department:



Vasyl SKYBA

Agreed with the guarantor of the OPP

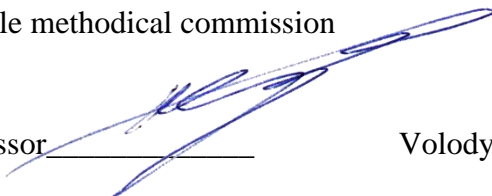


Anatoliy GULYUK

The program was approved at the meeting of the subject cyclic methodical commission for dental disciplines Protocol No. 1 from 30.08. 2024

Head of the subject cycle methodical commission

Ph.D., associate professor



Volodymyr KRYKLYAS

Reviewed and approved at the meeting of the department of

Therapeutic and pediatric dentistry

Protocol No. 1 of "2" september 2024

Head of Department



Oksana Dienha

1. DESCRIPTION OF PRACTICE

Name of indicators	Field of knowledge, specialty, specialization, level of higher education	Characteristics of practice
The total number of: Credits: 1,3 Hours: 39	Branch of knowledge 22 "Health care" Specialty 221 "Dentistry" Level of higher education second (master's)	Full-time education
		Mandatory discipline
		Year of training: 4
		Semester VI, VIII – 1 credits
		Lectures (0 hours)
		Seminars (0 hours)
		Practical (18 hours)
		Laboratory (0 hours)
		Independent self work (21 hours)
		including individual taCGs (0 hours)
		The final control form is CPE

2. PURPOSE AND OBJECTIVES OF PRACTICE, COMPETENCES, PROGRAM LEARNING OUTCOMES

The purpose of studying the discipline "Industrial dental practice" is the formation of acquirers of theoretical knowledge, practical skills and abilities regarding diagnosis, treatment, prevention of basic dental diseases in the clinic of therapeutic dentistry.

Tasks of the discipline: To provide students with modern professional knowledge and skills in the treatment of diseases of hard dental tissues, complications of dental caries, and diseases of periodontal tissues.

Competences 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 "Industrial Dental Practice" ensures that students acquire the following competencies:

Integral competence

The ability to solve typical and complex specialized tasks and problems in the field of health care / in the specialty "Dentistry", in professional activity or in the learning process, which involves conducting research and/or implementing innovations and is characterized by the complexity and uncertainty of conditions and requirements.

General competences (GC):

GC 3. Ability to apply knowledge in practical activities.

GC 6. Skills in using information and communication technologies.

GC 8. Ability to adapt and act in a new situation.

GC 9. The ability to identify, pose and solve problems.

GC 10. The ability to be critical and self-critical.

GC 11. Ability to work in a team.

Special competences (SC):

- SC 1. Ability to collect medical information about the patient and analyze clinical data.
- SC 2. Ability to interpret the results of laboratory and instrumental research.
- SC3. Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.
- SC4. The ability to determine the necessary regime of work and rest in the treatment and prevention of diseases.
- SC6. The ability to determine a rational regimen of work, rest, and diet in patients in the treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.
- SC7. The ability to determine the management tactics of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with accompanying somatic diseases.
- SC8. Ability to perform medical and dental manipulations.
- SC9. The ability to treat the main diseases of the organs and tissues of the oral cavity and maxillofacial area.
- SC 14. Ability to maintain regulatory medical documentation.

Program learning outcomes (PLO):

- PLO 1. Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using the previous data of the patient's history, the data of the patient's examination, knowledge about the person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2)
- PLO 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).
- PLO 3. Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems.
- PLO 4. Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).
- PLO 6. To establish the final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis, observing the relevant ethical and legal norms, under the control of the head physician in the conditions of a health care institution (according to list 2).
- PLO 7. Prescribe and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4) of patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
- PLO 8. Determine the main clinical syndrome or symptom that determines the severity of the condition of the victim/injured (according to list 3) by making a reasoned decision about the person's condition under any circumstances (in the conditions of a health care institution, outside its borders) including . in conditions of emergency and hostilities, in field conditions, in conditions of lack of information and limited time.
- PLO 10. Determine the necessary regime of work, rest and nutrition based on the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.
- PLO 11. To 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).
- PLO 14. Determine tactics and provide emergency medical care in emergency situations (according to list 3) in limited time in accordance with existing clinical protocols and standards of treatment.
- PLO 16. To form goals and determine the structure of personal activity based on the result of the analysis of certain social and personal needs.
- PLO 17. To perform medical manipulations (according to list 5) in the conditions of a medical institution, at home or at work based on a previous clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, observing the relevant ethical and legal norms.

PLO 19. To plan and implement a system of anti-epidemic and preventive measures regarding the occurrence and spread of diseases among the population.

PLO 20. To organize the necessary level of individual safety (own and the persons they care about) in case of typical dangerous situations in the individual field of activity

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

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

As a result of studying the academic discipline, the student of higher education must:

Know:

- Organization of dental office work. Functions and duties of medical personnel.
- Issues of ethics and deontology. Issues of ergonomics and safety technology.
- Dental instruments for examination and treatment of teeth, their purpose.
- Classifications of the main dental diseases.
- Clinical methods of diagnosis of the main dental diseases.
- Additional methods of diagnosis of the main dental diseases.
- Etiology and pathogenesis of the main dental diseases.
- Innervation and blood supply of jaws and individual groups of teeth.
- Methods of treatment of the main dental diseases.
- Methods of prevention of major dental diseases.
- Norms of working hours, qualitative and quantitative indicators of the work of a dentist.
- Rules for filling out medical documentation.

The student should **be able to:**

- Analyze the results of clinical examinations of patients with major dental diseases.
- Analyze the results of additional examinations of patients with major dental diseases.
- Identify leading syndromes and symptoms in the therapeutic dental clinic
 - Carry out dental caries treatment.
- Treat complications of dental caries.
- Treat non-carious lesions of the hard tissues of the teeth.
- Treat periodontal tissue diseases.
- Carry out differential diagnosis of diseases in the clinic of therapeutic stomatology.
- Formulate a preliminary clinical diagnosis in the clinic of therapeutic stomatology.
- To substantiate the final diagnosis in the clinic of therapeutic stomatology.
- Identify somatic diseases that require special patient management tactics at a therapeutic appointment.
- Prescribe physiotherapeutic methods of treatment of basic dental diseases.
- Diagnose emergency conditions and provide emergency care in the clinic of therapeutic dentistry.
- Conduct primary and secondary prevention of major dental diseases.
- Demonstrate the skills of filling out a package of medical documentation at a therapeutic appointment.
- Demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination at a therapeutic appointment.

3. CONTENT OF PRACTICE

Topic 1. Practicing the skills of diagnosis and differential diagnosis of non-carious lesions and dental caries.

Topic 2. Practicing the skills of diagnosis and differential diagnosis of caries complications (pulpitis, periodontitis).

Topic 3. Practicing the skills of treatment and prevention of the initial stages of dental caries and non-carious lesions.

Topic 4. Practicing the skills of using modern filling materials for filling carious cavities.

Topic 5. Practicing the skills of treatment and prevention of caries complications (pulpitis, periodontitis).

Topic 6. Interpretation of data from clinical methods of examination of patients with periodontal tissue diseases (with the help of video materials, typical and situational tasks, test tasks, etc.). Drawing up a diagnostic plan. Practicing the skills of index assessment of periodontal condition, radiological and additional research methods. Formulation of the preliminary and justification of the final diagnosis.

Topic 7. Determination of the general treatment and prevention plan for patients with gingivitis, periodontitis, and periodontitis.

Topic 8. Determination of the local treatment plan for patients with gingivitis, periodontitis, periodontitis. Removal of dental deposits

Topic 9. . Practice of physical methods of treatment of diseases of periodontal tissues.

4. STRUCTURE OF PRACTICE

Topics	Hours					
	Total	Including				
		lectures	seminars	practic e	laboratory	self made
Topic 1. Practicing the skills of diagnosis and differential diagnosis of non-cariou lesions and dental caries.	7			2		5
Topic 2. Practicing the skills of diagnosis and differential diagnosis of caries complications (pulpitis, periodontitis).	2			2		
Topic 3. Practicing the skills of treatment and prevention of the initial stages of dental caries and non-cariou lesions.	6			2		4
Topic 4. Practicing the skills of using modern filling materials for filling cariou cavities.	2			2		
Topic 5. Practicing the skills of treatment and prevention of caries complications (pulpitis, periodontitis).	6			2		4
Topic 6. Interpretation of data from clinical methods of examination of patients with periodontal tissue diseases (with the help of video materials, typical and situational tasks, test tasks, etc.). Drawing up a diagnostic plan. Practicing the skills of index assessment of periodontal condition, radiological and additional research methods. Formulation of the preliminary and justification of the final diagnosis.	6			2		4
Topic 7. Determination of the general treatment and prevention plan for patients with gingivitis, periodontitis, and periodontitis.	2			2		
Topic 8. Determination of the local treatment plan for patients with gingivitis, periodontitis, periodontitis. Removal of dental deposits.	6			2		4
Topic 9. Practice of physical methods of treatment of diseases of periodontal tissues.	2			2		
Total	39	0	0	18	0	21

5. TOPICS OF LECTURE / SEMINAR / PRACTICAL / LABORATORY LESSONS

5.1. Topics of lectures

Lectures are not provided.

5.2. Topics of seminar classes

Seminar classes are not provided.

5.3. Topics of practical classes:

№	Topic name	Hours
1.	Topic 1. Practicing the skills of diagnosis and differential diagnosis of non-carious lesions and dental caries.	2
2.	Topic 2. Practicing the skills of diagnosis and differential diagnosis of caries complications (pulpitis, periodontitis).	2
3.	Topic 3. Practicing the skills of treatment and prevention of the initial stages of dental caries and non-carious lesions.	2
4.	Topic 4. Practicing the skills of using modern filling materials for filling carious cavities.	2
5.	Topic 5. Practicing the skills of treatment and prevention of caries complications (pulpitis, periodontitis).	2
6.	Topic 6. Interpretation of data from clinical methods of examination of patients with periodontal tissue diseases (with the help of video materials, typical and situational tasks, test tasks, etc.). Drawing up a diagnostic plan. Practicing the skills of index assessment of periodontal condition, radiological and additional research methods. Formulation of the preliminary and justification of the final diagnosis.	2
7.	Topic 7. Determination of the general treatment and prevention plan for patients with gingivitis, periodontitis, and periodontitis.	2
8.	Topic 8. Determination of the local treatment plan for patients with gingivitis, periodontitis, periodontitis. Removal of dental deposits.	2
9.	Topic 9. Practice of physical methods of treatment of diseases of periodontal tissues.	2
	Total	18

5.4. Topics of laboratory classes

Laboratory classes are not provided.

6. INDEPENDENT WORK OF A HIGHER EDUCATION ACQUIRENT

6.1. Thematic plan of independent work of students

№	Topic name /types of tasks	Hours
1.	Preparation for practical classes 1-2. Diagnosis and differential diagnosis of non-carious lesions and dental caries. Diagnosis and differential diagnosis of caries complications (pulpitis, periodontitis).	5
2.	Preparation for practical classes 3-4. Treatment and prevention of initial stages of dental caries and non-carious lesions. Preparation of carious cavities, use of modern filling materials for filling carious cavities.	4
3.	Preparation for practical classes 5. Treatment and prevention of caries complications (pulpitis, periodontitis).	4
4.	Preparation for practical classes 6-7. Examination of patients with periodontal tissue diseases. Drawing up a diagnostic plan. Practicing the skills of index assessment of periodontal condition, radiological and additional research methods. Formulation of the preliminary and justification of the final diagnosis.	4

	Determination of the general treatment and prevention plan for patients with gingivitis, periodontitis, periodontitis.	
5.	Preparation for practical classes 8-9. Determination of the local treatment plan for patients with gingivitis, periodontitis, periodontitis. Removal of dental deposits. Development of physical methods of treatment of diseases of teeth and periodontal tissues.	4
	Total	21

7. TEACHING METHODS

Practical classes: conversation, role-playing, solving clinical situational problems, practicing patient examination skills, practicing manipulation skills, instruction and practicing skills on phantoms, training exercises on differential diagnosis of the most common dental diseases.

Independent work: independent work with the recommended basic and additional literature, with electronic information resources, independent work with the bank of test tasks Step-2, independent mastering of the technique of pre-sterilization preparation, sterilization of dental instruments by various methods, preparation of the dentist's workplace, storage of filling materials, medicines, etc.

8. FORMS OF CONTROL AND ASSESSMENT METHODS (INCLUDING CRITERIA FOR ASSESSMENT OF PRACTICE RESULTS)

Current control:

1. Evaluation of theoretical knowledge on the subject of the lesson:

methods: survey, solving a situational clinical problem;

the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2.

2. Evaluation of practical skills and manipulations on the subject of the lesson:

methods: assessment of the correctness of the performance of practical skills, role play.

the maximum score is 5, the minimum score is 3, the unsatisfactory score is 2.

The grade for one practical session is the arithmetic average of all components and can only have a whole value (5, 4, 3, 2), which is rounded according to the statistical method.

Mark	Current evaluation
«5»	The applicant is fluent in the material, takes an active part in discussing and solving a situational clinical problem, confidently demonstrates practical skills during the when working on a phantom and interpreting clinical, laboratory and instrumental research data, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
«4»	The applicant has a good command of the material, participates in the discussion and solution of a situational clinical problem, demonstrates practical skills during the when working on a phantom and interpreting clinical, laboratory and instrumental research data with some errors, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
«3»	The acquirer does not have sufficient knowledge of the material, is unsure of participating in the discussion and solution of a situational clinical problem, demonstrates practical skills during the when working on a phantom and interpreting clinical, laboratory and instrumental research data with significant errors.
«2»	The acquirer does not possess the material, does not participate in the discussion and solution of the situational clinical problem, does not demonstrate practical skills during the when working on a phantom and interpreting clinical, laboratory and instrumental research data.

Final control: CPE.

The applicant is admitted to the CPE on the condition that he meets the requirements of the end-to-end work program of practice and if he received at least 3.00 points for the current activity.

Evaluation of the results of the students' practice during the final control - comprehensive practical exam (CPE).

The methodology of final control in the form of CPE is unified and involves the use of standardized forms. The number of practical skills taught at CPE corresponds to the number of production practice profiles on the corresponding course under the corresponding OPP.

Evaluation of the winner is carried out according to a checklist. During the CPE, the applicant receives a ticket, and the examiners use a checklist for the corresponding ticket with reference answers and determine which mandatory components of the answer were fulfilled or not fulfilled by the applicant.

Each point of the algorithm, depending on the complexity, is assigned a certain number of points. The specific weight (number of points) of each item may be different - depending on the number of items and the difficulty of performing a particular item. Some scenarios may have critical points, failing which the task is considered failed. Ambiguity of understanding should be excluded when forming checklist items.

When the applicant performs certain actions, he can receive "minus points", namely:

Evaluation of learning results during the final control

No.	Evaluation criterion	Bal
1.	Unregulated action or attempt to communicate with the examiner, not provided for in the task	- 5
2.	The second unregulated action or attempt to communicate with the examiner, not provided for in the task	- 5
3.	The third unregulated action or attempt to communicate with the examiner, not provided for in task	-5
4.	The fourth unregulated action or attempt to communicate with the examiner, not provided for in the task	- 5
5.	More than 4 unregulated actions	- 20
6.	Dangerous action (which will inevitably lead to deterioration of the patient's condition)	- 20
7.	Inadmissible behavior	- 20
8.	Damage to simulation equipment or inventory	- 20

The maximum score for completing a task at one station is 100 points. The KPI is considered completed if the applicant has scored at least 60% of the maximum number of points at each station. The overall KPI score is calculated as the arithmetic average of all received scores for all profiles. KPI is held in the Educational and Production Complex of Innovative Technologies of Learning, Informatization and Internal Monitoring of Education Quality of the University during the examination sessions at the end of the semester (autumn and spring) according to the schedule.

9. Distribution of points received by students of higher education

The grade for the discipline consists of 50% of the grade for the current academic performance and 50% of the grade for the differentiated assessment.

The average score for the discipline is translated into a national score and converted into points on a multi-point scale (200-point scale).

The conversion of a traditional grade into a 200-point grade is performed by the information and technical department of the University using the "Contingent" program according to the formula:

Average success score (current success in the discipline) x 40

Table of conversion of traditional assessment to multi-point assessment

National assessment for discipline	Sum of balls for discipline
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Well («5»)	185 – 200
Good («4»)	151 – 184
Satisfactorily («3»)	120 – 150
Unsatisfactorily («2»)	Low 120

According to the ECTS rating scale, the achievements of students in the educational component who study in the same course of the same specialty are evaluated, according to the points they received, by ranking, namely:

Evaluation on the ECTS scale	Statistical indicator
A	Top 10% achievers
B	The next 25% of achievers
C	The next 30% of achievers
D	The next 25% of achievers
E	The next 10% of achievers

10. Methodological support

- Working program of the academic discipline
- Syllabus
- Methodical developments for practical classes
- Methodical recommendations for independent work of higher education applicants
- Multimedia presentations
- Situational clinical tasks
- Scenarios of role-playing games (if necessary)
- Electronic bank of test tasks by subdivisions of the discipline

11. LIST PRACTICAL SKILLS FOR CPE

1. To analyze the results of clinical examinations of patients with major dental diseases.
2. Analyze the results of additional examinations of patients with major dental diseases.
3. To determine the leading syndromes and symptoms in the therapeutic dental clinic
4. Treat dental caries.
5. Treat complications of dental caries.
6. Carry out treatment of non-carious lesions of hard tissues of teeth.
7. Treat periodontal tissue diseases.
8. Carry out differential diagnosis of diseases in the clinic of therapeutic stomatology.
9. Formulate a preliminary clinical diagnosis in the clinic of therapeutic dentistry.
10. Justify the final diagnosis in the clinic of therapeutic stomatology.
11. Identify somatic diseases that require special patient management tactics at a therapeutic appointment.
12. Prescribe physiotherapeutic methods of treatment of the main dental diseases.
13. Diagnose emergency conditions and provide emergency care in the clinic of therapeutic dentistry.
14. Carry out primary and secondary prevention of major dental diseases.
15. Demonstrate the skills of filling out a package of medical documentation at a therapeutic appointment.
16. Demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination at a therapeutic appointment.
17. Analyze the results of clinical examinations of patients with major dental diseases.
18. Analyze the results of additional examinations of patients with major dental diseases.
19. Determine the leading syndromes and symptoms in the clinic of therapeutic stomatology
20. Measure the depth of the gingival pocket
21. Measure the depth of the pathological pocket
22. Assess the state of the gums according to periodontal indices
23. Assess the state of tooth mobility

24. Measure the depth of the bone pocket
25. Read and describe orthopantomograms
26. Apply periodontal bandages
27. Carry out temporary splinting
28. Carry out closed curettage
29. Carry out professional hygiene

12. Recommended literature

Main:

1. Therapeutic dentistry: In 4 vols. — Vol. 2. Caries. Pulpit. Periodontitis. Oral sepsis: Textbook for students. stomatal f-tiv honey. ZVO — 3rd edition. Recommended by the Ministry of Health / Ed. A.V. Borysenko — K., 2020. — 592 p.
2. Dental diseases: therapeutic dentistry, edited by prof. Borysenko A.V. - K.: Medicine, 2017. - 664 p.
3. Pharmacotherapy of diseases of the mucous membrane of the oral cavity and periodontal tissues. edited by Prof. Borysenko A.V. - K.: Medicine, 2018. - 504 p.
4. Bidenko N.V., Borysenko A.V., Vasylychuk O.V. etc.. Algorithms for performing dental and medical manipulations for preparation for the State certification of students of the 5th year in the specialty "Dentistry". - Kyiv: Kniga-plus, 2017. - 455 p.

Auxiliary:

1. Pavlenko O.V., Belychenko Yu.M., Volosovets T.M., Al-Alavny S.V. – Handbook of endodontics: a textbook for medical universities/ Ed. Prof. O.V. Pavlenko. Simferopol: N. Orianda, 2010. – 326p.
2. Therapeutic stomatology: equipment and tools: training manual / V.I. Gerelyuk, N.V. Neiko, V.V. Materynskyi, O.P. Kobrin. – Ivano-Frankivsk, 2012. – 95 p.
3. Modern filling materials and methods of their use in therapeutic dentistry: [teaching manual] / G.F. Biloklytska, O.V. Asharenkova, O.V. Kopchak - K.: Publishing House "Askania", 2013. - 143 p.
4. Clinical pharmacology and pharmacotherapy in dentistry: Education. manual for honey universities, institutes, acad. — 2nd edition. Recommended by the Academic Council of the NMAPO named after P.L. Shupyka / Mazur I.P., Haytovych M.V., Golopyho L.I. — K., 2019. — 376 p.
5. Petrushanko T.O., Ostrovska L.Y., Ilenko N.M. Clinical practice in therapeutic stomatology: Study guide / T.O. Petrushanko, L.Y. Ostrovska, N.M. Ilenko. - Kyiv: "Center for Educational Literature", 2019. - 259 p.
6. Borysenko A.V., Antonenko M.Yu., Sidelnikova L.F., Melnychuk T.A. Essays on practical periodontology. - K.: LLC "Library "Health of Ukraine" - Kyiv: "Library "Health of Ukraine", 2017. — 348 p.
7. Industrial practice in therapeutic dentistry for students of the IV year: Study guide / T.O. Petrushanko, A.K. Nikolishin, N.M. Ilenko, E.V. Nikolishina, I.O. Ivanytskyi - Kyiv: Center for Educational Literature, 2018. – 288 p.;
8. Ivanytskyi I.O. Hypersensitivity of teeth: a study guide for students of stomatological faculties of higher medical educational institutions of the IV level of accreditation / I.O. Ivanytskyi, O.S. Ivanytska, T.O. Petrushanko. – Poltava: Dyvosvit, 2019. – 108 p.
10. Clinical pharmacology and pharmacotherapy in dentistry: Education. manual for honey universities, institutes, acad. — 2nd edition. Recommended by the Academic Council of the NMAPO named after P.L. Shupyka / Mazur I.P., Haytovych M.V., Golopyho L.I. — K., 2019. — 376 p.

13. Electronic information resources

1. <http://moz.gov.ua> – Ministry of Health of Ukraine
2. www.ama-assn.org – American Medical Association
3. www.dec.gov.ua/mtd/home/ - State Expert Center of the Ministry of Health of Ukraine
4. <http://bma.org.uk> - British Medical Association
5. www.gmc-uk.org - General Medical Council (GMC)