

NATIONAL PIROGOV MEMORIAL MEDICAL UNIVERSITY, VINNYTSYA

«APPROVE»

Vice-rector of higher education institution
Research, Education and Clinical Work

Pohorilyi professor of HEI Vasyl

« 19 » 01 2024 y.

«AGREE»

Head of the Department of Therapeutical Dentistry

SHINKARUK-DYKOVYTSKA professor of HEI Mariia

« 18 » 01 2024 y.

SYLLABUS

OF THE EDUCATIONAL DISCIPLINE

PROFESSIONAL HYGIENE AND COMPLEX REHABILITATION IN THERAPEUTIC DENTISTRY

Specialty	221 Dentistry
Educational level	the second (Master's) level
Educational program	EPP Dentistry, 2021
Academic year	2023-2024
Department	Therapeutic Dentistry
Contact information	terstom@vnmua.edu.ua V.Stus Street, 2
Syllabus developer	Nataliia ALEKSYEYENKO, Assistant of Therapeutical Dentistry Department Nataliia GADZHULA, Candidate of Medical Sciences, Associate Professor

1. Status and structure of the discipline

Discipline status	Elective
Discipline code in EPP/ discipline place in EPP	BK 4.8 // discipline of professional training
Course / semester	IV course (VIII semester)
The amount of discipline (the total number of hours / number of credits ECTS)	60 hours / 2 credits ECTS
The structure of the discipline	Lectures – 10 hours Practical classes - 30 hours Independent work - 20 hours
Language of study	English
Form of study	Full-time, (or on-line <i>according to order</i>)

2. Description of the discipline

Short annotation of the course, relevance.

The main focus of the program is to gain knowledge in the discipline “Professional hygiene and complex rehabilitation in therapeutic dentistry”, the study of which is necessary for successful professional activity. The subject area of the program is the achievement of dental students’ knowledge, skills and abilities in maintaining the hygienic condition of the oral cavity in different conditions, the program focuses on gaining knowledge about a comprehensive examination of the hygienic condition and periodontal status of the dental patient, study of leading syndromes and symptoms in therapeutic diagnosis, analysis of examination results, complex rehabilitation, detection of complications, formation of skills of professional oral hygiene of the oral cavity.

Prerequisites Human anatomy, pathological human anatomy, histology, normal physiology - physiological changes and processes of the human dental and maxillofacial apparatus, pathological physiology, bioorganic chemistry, medical physics, clinical pharmacology, propaedeutics of therapeutic dentistry.

The purpose of the course and its significance for professional activity is to acquire theoretical and practical knowledge and skills of a dentist in the field of “Therapeutic Dentistry” and “Professional hygiene and complex rehabilitation in therapeutic dentistry”, manifested in the ability to diagnose, conduct maintenance therapy and prevent basic dentistry. disease by carrying out professional oral hygiene. Acquisition of professional competencies.

Postrequisites dental disciplines that will be studied during the subordination and internship

3. Learning outcomes.

- To know: clinic, diagnosis, treatment and prevention of dental diseases
- be able to: diagnose and conduct a professional hygienic and preparatory stage before the treatment of major dental diseases.
- able to demonstrate: knowledge and practical skills in the discipline
- have the skills: professional oral hygiene
- independently decide: the issue of creating a plan of examination and carrying out the necessary manipulations for patients in need of professional oral hygiene

4. Content and logistic of the discipline

Professional hygiene and complex rehabilitation in therapeutic dentistry	VIII semester 60 hours, 2 credits	Practical classes №1-15 Topics for self- study №1-6
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The course includes 15 topics.

List of the topics

Topic 1. Professional hygiene: definition, practical significance, modern concepts about the structure and composition. Safety techniques in the performance of professional hygiene.

Topic 2. Objective diagnostic indicators that reflect the state of periodontal tissues. Algorithm of examination of the patient at the initial and repeated visit. Practical introduction with the use of modern index assessment of periodontal tissue condition (PMA, SBI, BPE). Periodontal screening test PSR.

Topic 3. Indications for carrying out the professional oral hygiene. Assessment of the necessary volume of professional interventions in relation to oral hygiene. Modern ideas about the composition, structure, properties of biofilm as the main etiological factor in the occurrence of odonto- and periodontal pathologies.

Topic 4. Analgesia during professional hygiene: indications, means, technique. Innovative methods of pain relief.

Topic 5. Apparatus, equipment, tools for high-quality professional oral hygiene and rehabilitation. Medicines for professional hygiene and rehabilitation.

Topic 6. Air-abrasive method of dental deposits removing: indications, contraindications, devices, means, rules of care and processing of devices, rules of carrying out. Working out of practical skills.

Topic 7. Ultrasonic method of dental deposits removing: indications, contraindications, devices, tools, rules for care and processing of devices, rules of carrying out. Working out of practical skills.

Topic 8. Manual method of dental deposits removing: modern tools, technique, ergonomics during work, care of hand tools.

Topic 9. Clinical aspects of the structure of the dental-maxillary system. Peculiarities of the algorithm of professional oral hygiene and the volume of rehabilitation measures depending on the clinical condition of the teeth and periodontium. Peculiarities of carrying out the professional oral hygiene in patients undergoing orthodontic treatment. Peculiarities of individual hygiene: means and rules of care.

Topic 10. Peculiarities of carrying out the professional oral hygiene in patients with dental implants. Peculiarities of individual oral hygiene: means and rules of care. Peculiarities of carrying out the professional oral hygiene and individual oral hygiene in patients with orthopedic structures. Rules of care for fixed and removable structures.

Topic 11. Halitosis: the concept, its causes and consequences. Methods and means of treatment and prevention. Motivation to carry out professional and individual hygiene measures. Its role in the successful rehabilitation of the patient. Dialogue with the patient.

Topic 12. The importance of oral hygiene for the health of a pregnant woman. Peculiarities of professional and individual hygiene of pregnant women. The importance of oral hygiene for patients with endocrine pathologies, for patients who have undergone radiation therapy for oncology. The influence of bad habits on the condition of the oral cavity.

Topic 13. Peculiarities of professional oral hygiene during the Covid-19 pandemic.

Topic 14. Hyperesthesia as a result of professional and individual hygienic care. Causes of development and means of elimination. Remineralizing therapy as an important component of complex rehabilitation in therapeutic dentistry.

Topic 15. The role of functional diagnostics and physiotherapy in the structure of complex periodontal rehabilitation of patients. Innovative methods of diagnosis and treatment of periodontal diseases. Computer diagnostics of periodontal diseases. Laser technologies as a component of modern rehabilitation measures in therapeutic dentistry. Plasma-therapy in periodontology.

The topics of the lecture course are not provided by the program.

Thematic plan for independent work

Topic 1. Professional oral hygiene: indications, contraindications. Objective diagnostic signs that reflect the state of periodontal tissues. Algorithm of examination of the patient during the initial and repeated appointment. Assessment of the necessary volume of professional interventions in relation to oral hygiene. Analgesia during professional hygiene.

Topic 2. Hardware methods of dental deposits removing: indications, contraindications, equipment, tools. Peculiarities of carrying out apparatus methods of removing dental deposits. Ergonomics during work.

Topic3. Manual method of dental deposits removing: modern tools? Technique, ergonomics during work, care of hand tools.

Topic 4. Peculiarities of the algorithm of professional oral hygiene and the volume of rehabilitation measures depending on the clinical condition of the teeth and periodontium in patients with orthodontic treatment with implants and orthopedic structures.

Topic 5. Halitosis: concept, its causes and consequences. Methods and means of treatment and prevention. Motivation to carry out professional and individual hygiene measures. Its role in the successful rehabilitation of the patient.

Practical classes involve theoretical substantiation of the main issues of the topic and the acquisition of the following practical skills:

- 1) To determine the PMA index.
- 2) To determine the SBI index.
- 3) To determine the PP index.
- 4) To determine the BPE index.
- 5) To explain to the patient the importance of observing individual oral hygiene.
- 6) Preparation of the dentist's workplace for professional oral hygiene.
- 7) Technique of dental calculus removing with the use an ultrasonic device.
- 8) Manual removing of dental calculus.
- 9) The technique of professional oral hygiene using the Air Flow system.
- 10) The technique of professional oral hygiene using the Cavitron device.
- 11) Choose of individual hygiene products depending on the clinical situation.
- 12) To carry out analgesia, which precedes professional hygiene.
- 13) To teach the patient to perform individual hygiene.
- 14) To demonstrate the individual plaque control using dyes (solutions, tablets).
- 15) Carrying out professional hygiene in patients with dental implants.
- 16) Demonstration of interdental cleaning techniques using toothpicks, floss, and interdental brushes.
- 17) Antiseptic treatment of teeth after calculus removal.

The student's independent work provides preparation for practical classes and intermediate tests, study of topics for independent extracurricular work, writing essays, preparation of presentations, tables. The control of mastering the topics of independent extracurricular work is carried out at the intermediate control classes and the final control of the discipline.

Individual work includes the study of scientific literature, preparation of reviews on the topics provided for presentation at the meetings of the student scientific circle, the implementation of

scientific and practical researches, participation in specialized competitions, scientific and practical conferences and organization of students' research works.

Calendar plans of practical classes, thematic plan of independent extracurricular work, volume and directions of individual work are published on the website of the department.

The route for obtaining materials: Department Therapeutic dentistry / for students / Full-time education / dentistry / 5course / Educational materials / or through the link <https://www.vnmua.edu.ua/en/department/department/44#> . Access to the materials is carried out through the student's corporate account s000XXX@vnmua.edu.ua.

5. Forms and methods of monitoring academic performance

Current control in practical classes	Methods: oral examination; written survey; solving situational problems; structured according to the procedure control of practical skills and abilities in accordance with the list of practical skills for each lesson.
Final semester control (credit) at the end of the V semester	According to the regulations on the organization of the educational process in National Pirogov Memorial Medical University, Vinnytsya (link https://www.vnmua.edu.ua/General information / Basic documents)
Tools for diagnosing learning success	Theoretical questions, clinically-oriented situational tasks, practical tasks, demonstration of practical skills

6. Assessment criteria

Knowledge assessment is carried out in accordance with the Regulations of the Academic process in National Pirogov Memorial Medical University, Vinnytsya (link <https://www.vnmua.edu.ua/en/general-regulations>)

Current control	According to the four-point system of traditional grades: 5 "excellent", 4 "good", 3 "satisfactory", 2 "unsatisfactory"
Intermediate separation controls	According to the four-point system of traditional evaluations
Control of practical skills	According to the four-point system of traditional assessments
Discipline assessments:	On a 200-point scale (arithmetic mean for the semester is converted into points) Credited: from 122 to 200 points Not credited: less than 122 points (see Evaluation Scale).

Rating scale: national and ECTS

The sum of points for all types of educational activities	ECTS assessment	Score on a national scale	
		for exam, course project (work), practice	for credit
180-200	A	excellent	credited
170-179,99	B	good	
160-169,99	C		
141-159,99	D	satisfactory	
122-140,99	E	satisfactory	

0-121,99	FX	unsatisfactory with the possibility of reassembly	not credited with the possibility of re-assembly
	F	unsatisfactory with compulsory re-study of the discipline	not credited with compulsory re-study of the discipline

7. Discipline policy

The student has the right to receive quality educational services, access to modern scientific and educational information, qualified counseling during the study of the discipline and the acquisition of practical skills. The policy of the department during the provision of educational services is student-centered, based on the regulations of the Ministry of Education and the Ministry of Health of Ukraine, the university charter and the procedure for providing educational services, regulated by the main provisions of the educational process in National Pirogov Memorial Medical University and the principles of academic integrity.

Observance of National Pirogov Memorial Medical University regulations, safety measures at practical classes

Requirements for preparation for practical classes. The student must arrive on time for a practical lesson, theoretically prepared according to the topic. Form of clothing: medical gown, changeable shoes, mask, gloves. Adhere to ethical norms and tolerance when discussing the topic of the lesson. Follow the rules of safety and ergonomics when practicing practical skills.

Use of mobile phones and other electronic devices. The use of mobile phones during classes is prohibited (except for emergencies to call for help). It is allowed to use the following electronic devices: equipment for multimedia presentation of material, devices for practicing practical skills.

Academic integrity. During the study of the discipline the student must be guided by the Code of Academic Integrity of National Pirogov Memorial Medical University (<https://www.vnmu.edu.ua/general-information/Basic-documents/Code-of-Academic-Integrity>). In case of violation of academic integrity (write-off, use of mobile phone during knowledge assessment, etc.) during the current and final tests, the student receives a grade of "2" and must work it out to his teacher in the prescribed manner within two weeks after unsatisfactory grade.

Missed classes. Missed classes are practiced in the manner prescribed by the Regulations on the organization of the educational process in National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/General-information/Basic-documents>) at the time specified in the schedule of work (published on the website of the department <https://www.vnmu.edu.ua/кафедра-терапевтичної-стоматології> to duty teacher. In order to complete the missed lesson, the student must answer theoretical questions and perform practical tasks on the missed topic. To complete the lecture, the student must make a short summary of the missed topic, navigate the topic and be ready for discussion / answer to questions on the subject of the lecture.

The procedure for admission to the final control of the discipline is given in the Regulations on the organization of the educational process in National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/General-information/Basic-documents>). Students who have not missed unfinished practical classes and lectures and received an average traditional grade of at least "3" are admitted to the final control.

Additional individual points. Individual points in the discipline (from 6 to 12) the student can get for individual work, the amount of which is published on the website of the department in educational materials of the discipline, the number of points is determined by the results of IRS according to the (signature)

Regulations on the organization of educational process in National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/> General information / Basic documents).

Conflict resolution. In the event of misunderstandings and complaints to the teacher due to the quality of educational services, assessment of knowledge and other conflict situations, the student must first report their claims to the teacher. If the conflict issue is not resolved, the student has the right to submit an appeal to the head of the department in accordance with the Regulations on the consideration of appeals of applicants for higher education at National Pirogov Memorial Medical University (<https://www.vnmu.edu.ua/> General information / Basic documents).

Politics in terms of distance learning. The procedure for distance learning is regulated by the Regulations on the introduction of elements of distance learning in National Pirogov Memorial Medical University, Vinnytsya (<https://www.vnmu.edu.ua/> General information / Basic documents). The main training platforms for training are Microsoft Team, Google Meets. The procedure for performing practical classes and lectures, exercises and consultations during distance learning is published on the website of the department (<https://www.vnmu.edu.ua/> Department of Therapeutic Dentistry / Student or <https://www.vnmu.edu.ua/> Department of Therapeutic Dentistry / News).

Feedback from the teacher is via messengers (Viber, Telegram, WhatsApp) or e-mail (at the teacher's choice) during business hours.


1. Training resources

Educational and methodological support of the discipline is published on the website of the department (<https://www.vnmu.edu.ua/kafedra-terapevtychnoi-stomatologii/> Student). Consultations are held twice a week according to the consultation schedule.


2. The schedule and distribution of groups by teachers is published on the web page of the department (<https://www.vnmu.edu.ua/kafedra-terapevtychnoi-stomatologii/> Student).

3. Questions to the intermediate and final controls of the discipline are published on the web page of the department (<https://www.vnmu.edu.ua/kafedra-terapevtychnoi-stomatologii/> Student)

The syllabus on the subject "professional hygiene and complex rehabilitation in therapeutic dentistry" (4th course) was discussed and approved at the meeting of the department _____
(protocol № 7, from "18" "01" 2024 y.

Responsible for the course  Ass. of HEI Nataliia ALEKSYEYENKO
(signature)

Syllabus developer  Ass. Prof. of HEI Nataliia GADZHULA
(signature)

Head of the Department  Prof. of HEI Mariia SHINKARUK-DYKOVYTSKA
(signature)

