

Odessa National Medical University
Faculty of Dentistry
Department of Surgical Dentistry

Syllabus of discipline

Topical issues of minimally invasive surgical technologies in the treatment of dental diseases

Amount	3 credits, 90 hours
Semester, year of study	9th semester , 5th year of study
Days, time, place	9th semester - classes (2 hours) according to the schedule twice on week, 8.30-16.00; Department of Surgical Dentistry (15 Torgova Street)
Teachers	Acting Associate Professor Alexander Vladislavovich Pasechnik
Contact phone	+380662285668
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Workplace	Department of Surgical Dentistry (15 Torgova Street), 51 office
Consultations	

Communications with students - face-to-face meetings, on-line (E-mail, google meet, zoom, Microsoft teams)

ABSTRACT Disciplines

The subject of study of the discipline.

The subject of study of the discipline is topical issues of minimally invasive surgical technologies in the treatment of dental diseases, which is important in the practice of the doctor-surgeon-dentist.

Prerequisites of the discipline:

1. Normal anatomy
2. Normal physiology
3. Histology, embryology and cytology
4. Pathological anatomy
5. Pathological physiology
6. Operative surgery and topographic anatomy
7. Microbiology, virology and immunology

8. Medical chemistry
9. General and clinical pharmacology
10. Hospital surgery and dental surgery
11. Propaedeutics of internal diseases
12. Social medicine, health management and economics
13. Department of General Hygiene
14. Phthisiopulmonology
15. Otorhinolaryngology
16. Skin and venereal diseases
17. Infectious diseases with a course of epidemiology
18. Therapeutic dentistry
19. Orthopedic dentistry
20. Orthodontics

The purpose of the discipline .

Mastering the theoretical and practical sections of surgical dentistry and maxillofacial surgery, topical issues of minimally invasive surgical technologies in the treatment of dental diseases.

Tasks of discipline.

- to examine the patient, study the leading syndromes and symptoms in surgical dentistry, substantiation and formulation of the preliminary diagnosis;
- ability to analyze the results of the examination and make a differential diagnosis, make a final diagnosis of major diseases, detect and identify manifestations of somatic diseases in the oral cavity, determine the principles of comprehensive treatment in the clinic of surgical dentistry,
- identify different clinical variants and complications of root pathology.
- training of students of minimally invasive surgical technologies in the treatment of dental diseases.

Expected results:

As a result of studying the discipline, applicants for higher education should know:

- the importance of special and auxiliary methods of examination for the differential diagnosis of dental diseases,
- etiology and pathogenesis of major surgical dental diseases, their impact on organs and systems of the human body,

- clinical manifestations of dental pathology of the oral cavity and indications for the use of various treatments in surgical dentistry;
- prevention, clinic and treatment of inflammatory processes of the roots of the teeth;
- the main stages and methods of dental operations,
- principles and methods of anesthesiology, general and local anesthesia,
- to analyze the review, panoramic, targeted dental and control radiographs, tomograms,
- develop a plan and tactics of treatment, establish the initial (preliminary) diagnosis based on the analysis of the results and determine the indications for dental interventions

9. DESCRIPTION OF THE DISCIPLINE:

Forms and methods of teaching:

The course will be presented in the form of lectures (hours) and practical classes (hours), organization of independent work of students (hours).

The following teaching methods are used during the teaching of the discipline: lectures, explanations, multimedia presentations, photo tasks, situational training, simulation training, oral examination, testing, individual tasks, independent work with the textbook.

Course content:

3.2 CONTENT OF THE DISCIPLINE

THEMATIC PLAN OF LECTURES

№	Topic	Number of hours
1	Resection of the apex of the tooth root.	2
2	Root amputation.	2
3	Remisection.	2
4	Coronary-radicular separation.	2
5	Retrograde filling of tooth roots with artificial bone grafting	2
Total		10

THEMATIC PLAN OF SEMINAR CLASSES

№	Topic	Number of hours
1 .	Resection of the apex of the tooth root.	2
2	Tooth root amputation.	2
3	Hemisection.	2
4	Coronary-radicular separation.	2
5	Retrograde filling of tooth roots with artificial bone grafting	2
6	Replantation of teeth of the upper and lower jaw	2
7	Treatment of granulomatous periodontitis with artificial bone	2
8	Treatment of periodontal cysts with artificial membranes	2
9	Demisection using artificial bone and membranes	2
10	Atypical tooth extraction using artificial bone and membranes	2
Total		20

THEMATIC PLAN OF INDEPENDENT WORK

№	Topic	Number of hours
1	Resection of the apex of the tooth root.	8
2	Tooth root amputation.	8
3	Hemisection.	6
4	Coronary-radicular separation.	8
5	Cystectomy with retrograde filling with glass ionomer.	8
6	Artificial bone grafting in the treatment of interradicular resorption.	6
7	Artificial bone grafting after tooth root removal.	8
8	Transplantation of membranes and artificial bone after removal of a retained, dystopian tooth on the lower jaw.	8
Total		60

EVALUATION

Methods of current control

Current control is carried out on the basis of daily control of theoretical knowledge, practical skills through oral interviews , computer testing . At the end of the discipline, the current performance is calculated as the average current score.

Forms and methods of final control

The form under bag control is an oral exam. At the end of the 3rd year, students take a differential test (final control), which includes answers to questions in the ticket, solving a practical problem or solving test problems (30), reading radiographs, selection and explanation of surgical instruments for surgery (top resection) tooth root, tooth root amputation, hemisection , coronary-radicular separation.).

In the 5th year students take an exam and a differential test.

Independent work of students

Types of independent work of students: preparation for practical classes and study of topics that are considered only in terms of independent work of students , search and study of additional literature, writing essays, reports for presentations with messages in practical classes.

DISCIPLINE POLICY ("GAME RULES")

The student must acquire knowledge, perform all types of educational tasks, pass all types of educational control, attend all types and forms of classes provided for in the curriculum, avoiding omissions and delays.

Deadline and recompilation policy.

The student completes the missed lecture in the form of writing an abstract on the topic of the lecture. The student completes the missed practical lesson either in the form of writing an essay on the topic of the lesson, or by interviewing the regular teacher (twice a week on Thursday and Saturday).

Academic Integrity Policy

Adherence to academic integrity by students involves independent performance of educational tasks, tasks of current and final control of learning outcomes.

The use of prohibited auxiliary materials or technical means (cheat sheets, headphones, telephones, smartphones, etc.) during control activities is unacceptable

in the educational activities of participants in the educational process; passing of procedures of control of results of training by fictitious persons.

For violation of academic integrity, the applicant may be held subject to the following academic liability:

- reduction of assessment results (exam, test, etc.),
- re-assessment (exam, test, etc.),
- appointment of additional control measures (additional individual tasks, tests, etc.),
- re-passing the relevant educational component of the educational program,
- deprivation of the right to participate in competitions for scholarships,
- deprivation of tuition benefits provided by the University,
- deductions from the university.

Attendance and lateness policy.

Absence of a student at lectures or practical classes is noted in the journal of visits in the form of a mark "nb", delay - "op". The student must work off the practical classes for 2 weeks.

Mobile devices

The student can use technical means (phones, smartphones, tablets) when compiling a test computer control.

Behavior in the audience.

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all faculty and staff, and are not fundamentally different from the generally accepted norms.

During classes
allowed:

- leave the audience for a short time if necessary and with the permission of the teacher;
- drink soft drinks;
- take photos of presentation slides;
- take an active part in the lesson).
 - forbidden:
- eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);
- smoking, drinking alcohol and even low-alcohol beverages or drugs
- use obscene language or use words that offend the honor and dignity of colleagues and faculty;
- gambling;
- damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);

- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

MAIN AND ADDITIONAL LITERATURE

1. Стоматологія : підручник : У 2 кн. — Кн. 1. / М.М. Рожко, З.Б. Попович, В.Д. Куроєдова та ін.; за ред. проф. М.М. Рожка. — К. : ВСВ «Медицина», 2013. — 872 с.
2. Стоматологія : у 2 кн. : підручник. Кн. 2 / М.М. Рожко, І.І. Кириленко, О.Г. Денисенко та ін. ; за ред. М.М. Рожка. — 2-е вид. — К. : ВСВ «Медицина», 2018. — 992 с.
3. Челюстно-лицевая хирургия и хирургическая стоматология : учебник : в 2 кн. Кн. 1 / А. А. Тимофеев. — К. : ВСИ «Медицина», 2020. — 992 с.
4. Пропедевтика ортопедичної стоматології : підручник / П.С. Фліс, Г.П. Леоненко, І.А. Шинчуковський та ін. ; за ред. П.С. Фліса. — 2-е вид. — К. : ВСВ «Медицина», 2020. — 328 с.
5. Моделювання анатомічної форми зубів: підручник / П.С. Фліс, Т.М. Банних, А.М. Бібік, С.Б. Костенко. - К.: ВСВ "Медицина", 2019. -352 с.
6. Військова ортопедична стоматологія : підручник / П.В. Іщенко, В.А. Кльомін, Р.Х. Камалов, А.М. Лихота. - К.: ВСВ "Медицина", 2013. -328 с.
7. Хірургічна стоматологія та щелепно-лицева хірургія дитячого віку =Pediatric Oral and Maxillofacial Surgery : підручник / Л.В. Харьков, Л.М. Яковенко, Н.В. Кисельова ; за ред. Л.В. Харькова. — 2-е вид. — К. :ВСВ «Медицина», 2020. — 104 с
8. Odell's Clinical Problem Solving in Dentistry / A. Banerjee, S. Thavaraj; Elsevir Limited, fourth edition, 2020.-448 p.
9. A Dictionary of Dentistry / R. Ireland. Oxford University Press, 2010. - 416 p.
10. Advanced Operative Dentistry: A Practical Approach / D. Ricketts, D. Barlett.- Churchill Livingstone Elsevir, 2011. -276 p.
11. Surgical Manual of Implant Dentistry: Step-by-Step Procedures / D. Buser.- Quintessence Publishing Co, 2020. - 297 p.
12. Misch's Contemporary Implant Dentistry / R. R. Resnik. - Elsevir, Mosby, fourth edition. -1264 p.
13. Atlas of Implant Dentistry and Tooth-Preserving Surgery: Prevention and Management of Complications / Z. Stajcic. - Springer, 2019.-352 p.
14. Color Atlas of Dental Implant Surgery / M.S. Block.- Elsevir, 2010.-480 p.
15. Surgical and Radiologic Anatomy of Oral / L. Al-Faraje.- ImplantologyQuintessence Publishing Co,2019.-401 p.
16. Atlas of Oral Implantology /A. N. Cranin.- Thieme-Stratton Corp, 1993. -352 p.
17. Color Atlas of Dental Medicine - Oral Pathology / P. Reichart.-Thieme-Stratton Corp, 2000. - 285 p.
18. Practical Procedures in Aesthetic Dentistry / S. Banerji, S.B. Mehta. -Willey Blackwell,2017.- 376 p.
19. Restorative Dentistry / Italian Academy of Restor. -Elsevir, 2011.-688 p.

20. Minimally Invasive Esthetics: Essentials in Esthetic Dentistry Series/ A. Banerjee. -Elsevir,2015. - 344 p.
21. Essentials of Human Disease in Dentistry / M. Greenwood. -Willey Blackwell,2018.- 376 p.
22. Basic Guide to Dental Instruments / C. Scheller-Sheridan.-Willey Blackwell,2011.- 304 p.
23. Бернадський Ю.Й. Основи щелепно-лицевої хірургії і хірургічної стоматології. К. Спалах, 2003.- 512 с.
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25. Ломницький І.Я. Пропедевтика хірургічної стоматології. - Львів, - 2005. - 108 с.
26. Основи стоматології / Под ред. В.О.Маланчука. – К.: Медицина, 2009. – 591 с.
27. Руководство по хирургической стоматологии и челюстно-лицевой хирургии: В 2-х томах. / Под ред. В.М.Безрукова, Т.Г.Робустовой. - Изд. 2-е, перераб. и доп. - М.: Медицина, 2000. – 776с.
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31. Хирургическая стоматология: Учебник/ Под ред.Т.Г. Робустовой. - М.: Медицина, 1999. - 576 с.
32. Хирургическая стоматология в схемах и таблицах: Учеб. пособие для студентов и врачей-интернов/ Г.П.Рузин, А.А. Дмитриева - Харьков: ХГМУ, 2001. - 108 с.
33. Хірургічна стоматологія та щелепно-лицьова хірургія: підручник;у двох томах. – Маланчук В.О. та ін.. - Київ, „Логос”, 2011. - т.1 – 672 с., т.2 – 606 с.
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35. Маланчук В.О., Копчак А.В. Доброякісні пухлини та пухлиноподібні ураження щелепно-лицевої ділянки та шиї / Навчальний посібник. – К.: Видавничий дім «Асканія», 2008. – 320 с.
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