

Odessa National Medical University  
Faculty of Dentistry  
Department of Surgical Dentistry

Syllabus of discipline  
Clinical anatomy and operative surgery of the maxillofacial area

Amount	90 hours \ 3 credits
Semester, year of study	5th year, 9th semester.
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	Pasechnyk Alla Mykhailivna, associate professor
Contact phone	0503164980
E-mail	pasechnykalla@gmail.com
Workplace	Department of Surgical Dentistry (15 Torgova Street), 51 office
Consultations	Eye consultations: Thursday from 2.30 pm to 6.00 pm every week

**Communications with students** - face-to-face meetings, E-mail, zoom, Microsoft teams

**SUMMARY DISCIPLINE**

*The subject of study of the discipline .*

The subject of the discipline is to determine the topographic anatomy of the upper and lower jaws, muscles and fascia of the maxillofacial area (including masticatory muscles, facial and neck muscles), blood circulation of the face and oral organs; innervation of the maxillofacial area.

The study of this material is extremely necessary in the practice of dentists, in particular dental surgeons.

*Prerequisites and postrequisites of the course:*

<i>Semester</i>	<i>Subjects</i>	<i>Title of sections</i>	<i>Se- me-p</i>	<i>Surgical dentistry Section and topics</i>
1-2	Normal anatomy	12 pairs of cranial nerves. Skull. Upper and lower jaws, teeth Muscles of the head and neck	5	Clinical anatomy and operative surgery of the maxillofacial area.
3-4	Normal physiology	Blood pressure Clinical and physiological methods of blood tests. Physiological mechanisms of pain and analgesia	5	Anatomy and topography of the maxillofacial area
1-2	Histology, embryology and cytology	Vessels and nerves of the maxillofacial area. Anatomy and histology.	5	Cellular composition of vessels, muscles, fascia and nerves of the maxillofacial area.
5	Operative surgery and top anatomy	Topographic anatomy of the trigeminal and facial nerves and vessels, muscles and fascia of the maxillofacial area.	5	Mutual location of blood vessels, nerves, muscles and fascia in different regions of the maxillofacial area.

3-4	Microbiology, virology and immunology	Morphology and physiology of microorganisms Immunology. Virology	5	Distribution of bacteria into saprophytes and parasites. Virology. Introduction to COVID-19.
3-4	Medical chemistry	Biochemistry of blood and liver	5	Methods of examination of patients
5-6 8	General and clinical pharmacology	General pharmacology Clinical pharmacology	5	Medicinal effect on muscles, blood vessels and nerves
4-8	Hospital surgery and dental surgery	Asepsis and antiseptics. Desmurgia.	5	Carrying out surgical interventions in the maxillofacial area
4	Propaedeutics inside diseases	Methods of examination of muscles, vessels and nerves in the patient.	5	Methods of examination of muscles, vessels and nerves in the maxillofacial area. At inspection and treatment of patients
7	Social medicine, health management and economics	Problems of medical deontology and medical ethics. Organization of the dental clinic Analysis of the performance of the dental clinic. Insurance medicine	5 5	Organization of a surgical dental department (office, dental clinic, hospital). Maintaining the necessary documentation
3-4	Department of General Hygiene	Sanitary education and hygienic education of the population	5	Prevention of dental diseases
8	Phthisiopulmonology	Tuberculosis	6	Specific inflammatory processes of the maxillofacial area.
7	Otorhinolaryngology	Acute and chronic sinusitis	6	Acute and chronic odontogenic sinusitis
8	Skin and venereal diseases	Tuberculosis of the skin and mucous membranes . Red erythematous . General pathology and course of syphilis.	6	Specific inflammatory processes of the maxillofacial area: syphilis and tuberculosis, their manifestations.
7	Infectious diseases with a course of epidemiology	To spend. Beshiha, noma. Sepsis. Staphylococcal infection. Parotitis	6 6 6	Features of manifestation of specific infectious diseases in the maxillofacial area.
3 7	Therapeutic dentistry	Anatomy and histology of teeth and mucous membranes of the oral cavity.	5	Surgical methods of examination of diseases of the teeth and mucous membranes and mouth.
5-6	Orthopedic dentistry	Topographic and functional anatomy of the maxillofacial area. The main groups of teeth and their anatomical and functional characteristics.	5	Topographic anatomy of the maxillofacial area.

		Anatomical and functional structure of the periodontium. Anatomy and function of the muscles of the maxillofacial area.	
6	Orthodontics	Physiological and pathological bite.	6 Mutual location of the upper and lower jaws in the maxillofacial area.

Post-requisites of the *discipline*

For example, cosmetic surgery of the maxillofacial area requires from the doctor a thorough knowledge of the anatomy and topography of the tissues of the maxillofacial area.

3 d modeling of plastic surgery of the maxillofacial area.

*The purpose of the discipline .*

Training of a doctor who has mastered the issues of clinical anatomy and operative surgery of the maxillofacial area, which will be directly used in the practice of dentistry and dentist-surgeon.

*Tasks of discipline .*

The objectives of the discipline "surgical dentistry" are: the ability to use knowledge of clinical anatomy and operative surgery of the maxillofacial area in the examination and treatment of patients with dental diseases.

*Expected results:*

To form the responsibility of the student, as a future specialist, for the level of his training and its improvement during his studies and professional activity. The student must master the principles of examination of patients: to know the clinical anatomy and surgical surgery of the maxillofacial area. Be able to use this knowledge for examination, differential diagnosis and treatment of dental diseases.

## **9. DESCRIPTION OF THE COURSE:**

### ***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).

During the teaching of the discipline the following methods are used: theoretical questioning, testing, solving situational problems with the help of interactive and multimedia technologies.

***Course content:***

## THEMATIC PLAN OF LECTURES

№	Topic	Number of hours
1	K linichna anatomy and operative surgery maxillofacial	2
2	Topographic anatomy of SHLD muscles	2
3	Topographic anatomy of SHLD nerves	2
4	Topographic anatomy of SHLD vessels	2
5	Topographic anatomy of the cellular spaces of the thyroid gland	2
<b>Together for hours</b>		<b>10</b>

## THEMATIC PLAN OF SEMINAR CLASSES

№	Topic	Number of hours
1	K linichna anatomy and operative surgery maxillofacial	2
2	Topographic anatomy of SHLD muscles	2
3	Topographic anatomy of SHLD nerves	2
4	Topographic anatomy of SHLD vessels	2
5	Topographic anatomy of the cellular spaces of the thyroid gland	2
6	Submandibular tissue space	2
7	Topographic pterygopalatine cell space	2
8	Topographic subaltern cell space	2
9	Parapharyngeal space	2
10	Topographic cellular space of the bottom of the mouth	2
<b>Together for hours</b>		<b>20</b>

## Themes of independent works

1	Muscles and fascia of the maxillofacial area that raise the lower jaw;	8
2	Circulation of the face and organs of the oral cavity	8
3	Cysts of the upper and lower jaw	6
4	Innervation of the upper and lower jaws	8
5	Large goose foot (pes anserinus major) - facial nerve (nervus facialis)	8
6	Submandibular tissue space;	6
7	Infraorbital tissue space;	8
8	The fibrous space of the buccal area	8
<b>Together for hours</b>		<b>60</b>

## EVALUATION

*Methods of current control*

Current control is based on daily control of theoretical knowledge and practical skills according to specific goals of each topic by verbal control, computer control test using a test database and situational problems that are at the department, on each class for 5 - t and point traditional scale . At the end of the discipline, the current performance is calculated as the average current score.

#### *Forms and methods of final control*

At the end of the 10th semester, students take a standardized state test exam (licensed integrated exam Step-2 "Dentistry") and OSKI - an objectively structured clinical exam. The method is used to assess clinical competencies. The method is based on a comprehensive assessment by final multiplication (10-20) of assessment stations that simulate various aspects of clinical competencies. Various simulators and stimulators, standardized patients, as well as additional diagnostic elements are used for the exam. The essence is to create reproductive clinical situations for the student, which allow to demonstrate the acquired technical, deductive (diagnostic, cognitive) and communication skills. OSKI simulates the process of examination and treatment of patients, so the practical tests at the OSKI station are tasks for the interpretation of the study, assessment of communication skills (history taking, etc.). OSKI stations allow to check the clinical competence connected with independent clinical activity.

#### *Independent work of students*

Independent work of students (VTS) is one of the organizational forms of learning, which is regulated by the working curriculum and is performed by students independently outside the classroom. The following types of independent work of students are possible: preparation for practical classes and study of topics that are considered only in terms of independent student work, search and study of additional literature, writing essays, reports for presentations 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 teacher on duty (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.

Unacceptable in the educational activities of participants in the educational process is the use of family or business ties to obtain a positive and higher assessment in the implementation of any form

of control of learning outcomes, the use of prohibited aids or technical means (cheat sheets, headphones, telephones, smartphones, etc.); 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 a lecture or practical lesson 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 not use technical means (phones, smartphones, tablets) when compiling a test computer control using a database of test and situational tasks that are on the website of the department.

#### *Behavior in the audience.*

Study subjects honestly and do not disturb the teacher and other students during classes.

#### ***List of recommended reading***

1. Стоматологія : підручник : У 2 кн. — Кн. 1. / М.М. Рожко, З.Б. Попович, В.Д. Курєдова 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; Elsevier 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.- Implantology Quintessence 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.
  24. Горішний Б.М., Рибалов О.В., Саяпіна Л.М. Щелепно-лицьова хірургія екстремальних ситуацій. - Полтава, 2000. - 221 с.
  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.
  28. Стоматология: Учебник / Под ред.Т.Г. Робустовой. - М.: Медицина, 2008. - 816 с.
  29. Тимофеев А.А. Руководство по челюстно-лицевой хирургии и хирургической стоматологии. - К.: Червона Рута-Турс, 2004. - 1061 с.
  30. Тимофеев А.А. Челюстно-лицевая хирургия . - Киев.: ВСИ „Медицина”, 2010. - 574 с.
  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.

34. Хирургическая стоматология. Учебник./Под ред. Робустовой Т.Г. — М.: Медицина, 2015.