

**Ministry of Health of Ukraine**  
**Danylo Halytsky Lviv National Medical University**

CONFIRMED

At the meeting of the Central Methodology  
Commission of the Danylo Halytsky  
Lviv National Medical University  
Protocol № \_ «\_» \_\_\_\_\_ 2015.  
Chief of the Central Methodology Commission  
Professor M. R. Gzhehotsky \_\_\_\_\_

Dentistry Faculty  
Speciality 7.12010005 „Dentistry”  
Department – Surgical Dentistry and Maxillofacial Surgery  
Subject – Surgical dentistry  
Major - yes  
Pekarska Str., 69a

**CURRICULUM**

**«Medical Practice of Dental Surgery»**

for the 4-th –year students of Dentistry faculty

CONFIRMED

Methodology Meeting of the Department of  
Surgical dentistry and Maxillofacial Surgery

«\_» \_\_\_\_\_ 2015

Protocol \_\_\_\_\_

Head of the Department

Prof. Ya. E.Vares \_\_\_\_\_

CONFIRMED

Methodology Meeting of Dentistry  
Faculty

«\_» \_\_\_\_\_ 2015

Protocol \_\_\_\_\_

Head of the Methodical Commission  
of Dentistry Faculty

Prof. R.Z. Ogonovsky \_\_\_\_\_

Curriculum is made by the Head of the Department of Surgical Dentistry and Maxillofacial Surgery Professor Ya. E. Vares and Associate professor Yu. Medvid.

Index: 7.12010005

Curriculum was confirmed at the meeting of the Department of Surgical Dentistry and Maxillofacial Surgery

Protocol \_\_\_\_\_ «\_\_\_\_\_» \_\_\_\_\_ 2015.

Confirmed by the Methodology Commission of Dentistry faculty of Danylo Halytsky Lviv National Medical University

Protocol \_\_\_\_\_ «\_\_\_\_\_» \_\_\_\_\_ 2015.

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## EXPLANATORY NOTE

Curriculum of Surgical Dentistry for the students of educational establishments of the III-IV levels of accreditation made according to the Law of Ukraine "About Higher Education" from July, 1, 2014 № 1556-VII, taking into account implementation of order of Ministry of Health of Ukraine from January, 26, 2015 № 47 "About the features of formation of curriculums on 2015-2016 ed. year"; order of Ministry of Health of Ukraine from December, 07, 2009 № 929 with changes of order of Ministry of Health of Ukraine from July, 08, 2010 № 541 "About a statement and introduction of new curriculum of preparation of specialists of educationally-qualifying level "specialist" of qualification "dentist" in higher educational establishments of IV level of accreditation in speciality 7.110106 "Dentistry".

By the main task of the Department of Surgical Dentistry and Maxillofacial surgery of higher educational establishments of the III-IV levels of accreditation is to train a doctor who learned problems in the theory and practice of all sections of Operative Dentistry and bases maxillofacial surgery, since the organization of the surgical department dental clinic and maxillofacial hospital in providing skilled surgical emergency dental care and oral and maxillofacial surgery.

### **Curriculum is made in accordance with the following:**

- educationally-qualifying descriptions (EQD) and educationally-professional programs (EPP) of study of specialists, ratified by an order of Ministry of Education of Ukraine from April, 16, 2003 №239 "About claim of component industry standards of higher education at direction of 1101 "Medicine";

- the order of Ministry of Health of Ukraine from January, 26, 2015 № 47 "About the features of formation of curriculums on 2015-2016 ed. year";

- recommendations of Ministry of Health of Ukraine from January, 20, 2015 № 1/9-19 "About organization of certification of candidates of higher education and organization of the educational process"; from March, 13, 2015 № 1/9-126 "About the features of organization of the educational process and formation of curriculums on 2015-2016 ed. year";

- recommendations of Ministry of Health of Ukraine from March, 24, 2015 № 08.01-47/8986 and from April 16, 2015 № 08.01-47/12037 "About approving of corrected curriculums for undergraduate training specialists of Branch of knowledge 1201 "Medicine" and 1202 "Pharmacy";

- instructions about organization of the educational process in Danylo Halytsky Lviv National Medical University, approved by Academic Council of Lviv National Medical University from February, 18, 2015 Proceeding № 1-AC;

- recommendations in relation to educational program of educational disciplines development, by the order of Ministry of Health of Ukraine from March, 24, 2004 № 152 "About claim of recommendations in relation to educational program of educational disciplines" with changes and additions, by the order of Ministry of Health of Ukraine from October, 12, 2004 № 492 "About making alteration and adding to recommendations in relation to educational program of educational disciplines";

- the order of Ministry of Health of Ukraine from January, 31, 2005 № 52 "About a statement and introduction of new curriculum of preparation of specialists of educationally-qualifying level "specialist" of qualification "physition" in the educational establishments of the III - IV levels of accreditation of Ukraine by specialities "dentist", "pediatric", "general medicine",

- the order of Ministry of Health of Ukraine from 2007 №414 "About changes to the order of Ministry of Health of Ukraine from January, 31, 2005 № 52 ";

- Law of Ukraine "On education" from 01.07.2014 № 1556-VII;

- Provision for the practice of university students Ukraine Approved by the Ministry of Education of Ukraine of 8 April 1993 №93;

- Ministry of Health № 179 of 03.10.1995. "On approval of Instruction on practical training of medical students, pediatric, medical-preventive, dental and pharmaceutical faculties of higher educational institutions of III - IV accreditation levels, taking into account the standards higher medical and pharmaceutical education;

- "Regulations on practice at Lviv National Medical University named Danylo Galician", approved by decision of the Scientific Council LNMU Danylo Galician (minutes №8-BP dated 09.16.2015);

With the introduction of methodology of teaching dentistry disciplines educational qualification characteristics (EQC) and educationally-professional programs (EPP) of study of specialists, level education (Resolution of Cabinet of Ministers of Ukraine from 20.01.1998 № 65) the grade criteria of studies of divisions of propedeutics of surgical dentistry, Faculty of Dentistry Surgical and Maxillofacial surgery and hospital maxillofacial surgery were clearly determined.

According to the curriculum of medical practice passing of 4th year provided when students acquire basic knowledge of clinical disciplines (therapeutic dentistry, prosthetic dentistry, surgical dentistry, pharmacology), which integrates program practice. Practice generates principles to further extension study of clinical subjects - dentistry, prosthodontics, dental surgery, which involves the integration of these disciplines "vertical" and formation of skills to apply knowledge in further education and in professional activities.

Medical practice for dental surgeon is 2 weeks in the surgical department of hospital or outpatient dental clinic.

Medical practice of dental surgery is performed in winter. The practice provides independent mastering practical skills of students by educational and vocational training program (EPP) and the educational qualification characteristics (EQC), which is controlled from the Head of the University, the direct and general managers from the base practices. Current activity of students is assessed by supervisor of base practices.

Summing up the medical practice is the last day of practice after its completion. Control is carried out by the Head of University Practice.

#### **Approximate structure of credit**

Discipline	Weeks	Credits/hours	Year/ semester	Control
Medical Practice of Surgical Dentistry	2	3/90	4/VII	Test Credit

## **2. PURPOSE AND OBJECTIVES OF PRACTICE**

**The purpose** of medical practice dental surgery is to consolidate knowledge and practical skills obtained in the discipline, the formation and development of students' professional ability to make independent decisions in the field of dental surgery. To achieve the goal formulated final objectives practices, and on their basis - specific tasks in the form of certain abilities (actions).

### **Final Goals of Medical Practice of Dental Surgery:**

- apply the basic principles of asepsis, antisepsis and anaesthesia;
- analyze test results of a patient in the dental surgery clinic;
- identify syndrome diagnosis of the maxillofacial oncologic diseases;
- determine the character of disease treatment in the dental surgery clinic;
- identify the main syndromes and symptoms in dental surgery clinic;
- identify the previous clinical diagnosis of the maxillofacial oncologic diseases;
- identify congenital and acquired defects of the maxillofacial area in dental surgery the clinic;
- identify different clinical variants of the most prevalent, complications of diseases clinic dental surgery;
- to demonstrate the principles of oncologic awareness in everyday practice of the oral surgeon;
- to demonstrate the moral and ethical principles of medical specialist;
- to diagnose emergency conditions in the dental surgery clinic;

- interpret the impact of environmental factors on overall and dental health;
- provide necessary emergency care in the dental surgery clinic;
- justify and formulate preliminary clinical diagnosis in the dental surgery clinic;
- justify and formulate syndrome diagnosis in the dental surgery clinic;
- conduct a differential diagnosis in the dental surgery clinic;
- examination of the patient in the dental surgery clinic;
- to carry out surgical treatment of major dental diseases;
- set a final clinical diagnosis of major diseases in the dental surgery clinic;
- interpret etiology, pathogenesis and morphological changes at different stages of the disease, the structural basis of recovery, complications and consequences of diseases of maxillofacial area;

- interpret the general principles of treatment of patients with various defects of hard tissue, dentition and other pathology of dental - jaw system.

***Specific goals:***

- be able to collect and analyze patient complaints and history of inflammatory diseases, injuries and tumors of the maxillofacial area;
  - conduct the patient's examination;
  - describe radiographs of teeth and bones of the maxillofacial area;
  - set a preliminary diagnosis;
  - conduct differential diagnosis;
  - appoint additional methods of examination;
  - send a patient to consult doctors from other specialties;
  - set the final diagnosis;
  - lodging outpatients list, certificate of disability, official medical report, extract from a medical card;
  - appoint the treatment of complications after the tooth extraction (alveolitis, alveoloneuritis, neuritis and others)
  - appoint the treatment of anesthesia complications (hematoma post injective infiltrates, contractures, etc.)
  - render the immergency aid when fainting, collapse, epileptic seizures, anaphylactic shock;
  - perform surgery for tumors and tumor-like formations of the soft tissues (papilloma, fibroma, atheroma, retention cyst, etc)
  - perform postoperative treatment of tumors and tumor-like formations of the soft tissues;

- perform surgery for tumors and tumor-like formations of the jaws (cyst, epulis, etc.)
- appoint the postoperative treatment to patients with tumors and tumor-like formations of the jaws;
- conduct surgical treatment of chronic periodontitis (resection of the root apex, hemyseccion, amputation, crown-radicular separation, replantation).

### 3. PRACTICE CONTENTS

№	Topic
1.	The structure and organization of surgical dental aid to population of Ukraine. Introducing the work of dental-surgeon. Identifying risk factors for major dental diseases depending on anatomical and physiological characteristics of the maxillofacial area.
2.	Methods of patient examination. Algorithm of dental examination in patients with surgical dental pathology. Subjective and objective methods of diagnosis.
3.	Dental instruments recommended to perform surgical procedures in the oral cavity. Sanitary-epidemiological requirements of dental- surgeon.
4.	Methods of local anesthesia in an outpatient surgical procedures on the upper and lower jaws.
5.	Methods of typical and atypical tooth removal on the upper and lower jaws.
6.	Indications and contraindications for surgery in an outpatient surgical dental practice. Methods of surgical interventions: periostotomy at subperiostal abscess, alveolotomy, resection of the root apex, hemyseccion, crown-radicular separation, extraction.
7.	Methods of examination of patients with tumors and tumor-like formations of the soft tissues.
8.	Methods of surgical interventions in patients with tumors and tumor-like formations of soft tissues.
9.	Postoperative treatment after the removal of tumors and tumor-like lesions of the soft tissues.
10.	Complications of teeth extraction (bleeding, alveolitis, alveoloneuritis). Their treatment and prevention and traumatic injuries of the maxillo-facial area (scars, traumatic ostemiyelitis, traumatic maxillary sinusitis, etc.). The algorithm of dental surgeon actions at the outpatient reception.

№	Abilities and Practical Skills	Points (3-5)
1.	Demonstrate the ability to apply the principles of medical ethics in surgical dental practice.	
2.	Demonstrate possession of advanced techniques and principles of health education work.	
3.	Identify the basic units of dental surgical care to the population of Ukraine.	
4.	Demonstrate the ability to collect the patient's history to fill outpatients dental card.	
5.	To conduct palpation of inflammatory diseases, injuries of the soft and bone tissues of the maxillofacial area, tumors and tumor-like formations, demonstrate the ability to collect the patient's history.	



6.	Be able to fill outpatients dental card.	
7.	To take a swab and print for cytology at a patient.	
8.	Perform local anaesthesia in the maxillofacial area (application, infiltration).	
9.	Perform local conductive anaesthesia on the upper jaw.	
10.	Perform local conductive anaesthesia on the lower jaw.	
11.	Conduct typical teeth extractions.	
12.	Conduct atypical teeth extractions.	
13.	Conduct extraction of the impacted teeth.	
14.	Open subperiosteal abscesses and soft tissue abscesses and phlegmons.	
15.	Demonstrate dissection and excision of the mucosa at pericoronitis.	
16.	Master the technique of removing sequestration with limited osteomyelitis.	
17.	Conduct stop bleeding after tooth extraction.	
18.	Tamponing or suturing the perforation of the maxillary sinus.	
19.	To be able to conduct a needle biopsy for tumors of the maxillofacial area.	
20.	To be able to conduct incised biopsy for tumors of the maxillofacial area.	
21.	To be able to perform surgery for tumors and tumor-like formations of the soft oral tissues (fibroma, retention cyst, epulis).	
22.	To be able to perform surgical treatment of chronic periodontitis (resection of the root apex, hemisection, amputation, crown-radicular separation, replantation).	
23.	Conduct fistula sensing, salivary gland ducts probing, removal of calculus from the ducts.	
24.	Demonstrate methods of providing emergency - artificial respiration, closed cardiac massage.	

#### 4. METHODS OF CONTROL

Forms of control and evaluation system are carried out according to the requirements of the production program of medical practice for students of the 4th year dental faculties.

Score from practice is the sum of scores for performance of student practical skills and points for final control. Daily checks of practical skills performs a supervisor from the base and vises their implementation in practice diary of a student. Practice Leader from the University systematically monitors keeping diaries students.

Current control is carried out according to specific objectives. One of the activities of students and its control of the head from the base practice is keeping a diary manufacturing practice (see. Annex 1). Diary is the main document for the period of practical training, including its protection. Students are required during the period of practice every day to record everything that was done for the day in a diary. There are a total sequence shown socially useful work (sanitary issues papers, writing essays, interviews in organized groups, etc.).

The student must submit daily blog for review and signature to supervisor of base practices (dentists from the hospital).

After completion of the practice student has to fill in the final report on its work. After medical practice, preparation of digital and reports characterization and review of the diary is given signed by the superior of manufacturing practices and general manager of base practices (see. Annex 1).

In characteristics and reviews the following indicators are necessary to display: the level of theoretical training, mastery of practical skills, knowledge of recipes, compliance and ethical foundations of ethics, the attitude of the student to master practical skills. Characteristics is to be stamped hospital where practice was conducted. Having filled in the appropriate form and signed by the supervisor of the basis of practice diary and the final report is required for admission to the student's final class.

In the program has been applied such evaluation system.

**Current assessment.** The head of the practice base daily analyzes and monitors students' work in the offices (the student must not have gaps), the quality of keeping a diary, quality mastering practical skills defined list, application principles of ethics and deontology in practice physician.

Before the demonstration of abilities or practical skills the student describes in details the methodology and justifies its to supervisor of base practices. After describing the manipulation and informing the patient, the student can be admitted to its implementation in the clinic under the control of supervisor. Current assessment of abilities and practical skills is managed as follows:

№	Abilities and Practical Skills	Points (3-5)
1.	Demonstrate the ability to apply the principles of medical ethics in surgical dental practice.	
2.	Demonstrate possession of advanced techniques and principles of health education work.	
3.	Identify the basic units of dental surgical care to the population of Ukraine.	
4.	Demonstrate the ability to collect the patient's history to fill outpatients dental card.	
5.	To conduct palpation of inflammatory diseases, injuries of the soft and bone tissues of the maxillofacial area, tumors and tumor-like formations, demonstrate the ability to collect the patient's history.	
6.	Be able to fill outpatients dental card.	
7.	To take a swab and print for cytology at a patient.	
8.	Perform local anaesthesia in the maxillofacial area (application, infiltration).	
9.	Perform local conductive anaesthesia on the upper jaw.	
10.	Perform local conductive anaesthesia on the lower jaw.	
11.	Conduct typical teeth extractions.	
12.	Conduct atypical teeth extractions.	

13.	Conduct extraction of the impacted teeth.	
14.	Open subperiosteal abscesses and soft tissue abscesses and phlegmons.	
15.	Demonstrate dissection and excision of the mucosa at pericoronitis.	
16.	Master the technique of removing sequestration with limited osteomyelitis.	
17.	Conduct stop bleeding after tooth extraction.	
18.	Tamponing or suturing the perforation of the maxillary sinus.	
19.	To be able to conduct a needle biopsy for tumors of the maxillofacial area.	
20.	To be able to conduct incised biopsy for tumors of the maxillofacial area.	
21.	To be able to perform surgery for tumors and tumor-like formations of the soft oral tissues (fibroma, retention cyst, epulis).	
22.	To be able to perform surgical treatment of chronic periodontitis (resection of the root apex, hemisection, amputation, crown-radicular separation, replantation).	
23.	Conduct fistula sensing, salivary gland ducts probing, removal of calculus from the ducts.	
24.	Demonstrate methods of providing emergency - artificial respiration, closed cardiac massage.	
Total		72-120

"5" points - gets a student who outlined the proposed writing the number of manipulations and thoroughly described them at high theoretical level.

"4" points - gets a student who outlined the proposed writing the number of manipulations and gave them a theoretical description, but admitted with minor errors.

"3" points - gets student who outlined the proposed writing the number of manipulations and gave them a theoretical description, but admitted with significant errors.

A skill is not considered to be passed if the student orally or in writing outlined the proposed manipulation and / or did not provide her adequate theoretical description.

### **Concluding session (control credit)**

Final control students make up at the last day of practice committee, comprised of leaders from the University and, were present on bases of practice.

Concluding session of medical practice students of the 4th course provides theoretical description and demonstration of skills and practical skills from the list. To make up practice on the final lesson may a student who 100% completed the program of practical training, provided reasonable answers to questions about the contents of the diary, and scored the minimum score on the ongoing practical training (72 points), presented a report on the practice and positive characteristics of general manager the base practices.

***Regulations.***

Final control consists of the following stages:

- I – a) a written answer describing the proposed manipulations;  
b) student demonstrates practical skills learned during the medical practice.
- II – Checking works by a teacher, a break for students.
- III - Announcement of the results.
- IV – processing documentation.

***Evaluation criteria.***

Scores for final classes exposed under the existing provisions 50 to 80 points.

70 – 80 points - gets a student who outlined the proposed writing the number of manipulations and thoroughly described them at high theoretical level.

60 – 69 points - gets a student who outlined the proposed writing the number of manipulations and gave them a theoretical description, but admitted with minor errors.

50 – 59 points - gets student who outlined the proposed writing the number of manipulations and gave them a theoretical description, but admitted with significant errors.

Less than 50 points - gets student who haven't done in written for all the proposed amount of manipulation and / or did not provide them adequate theoretical description. The student did not have learned practical skills during practice.

Score from practice is the sum of scores for performance of student practical skills that are tested supervisor of base practices (maximum 120 points - minimum 72 points) and points for the final control, offered during the differentiated credit (maximum 80 points - minimum 50 points ).

Points of discipline are converted regardless both in scale ECTS, and a 4-point scale.

Scores of students enrolled in one specialty, ranked by ECTS scale as follows:

ECTS	Statistical index
A	Best 10 % of students
B	Next 25 % of students
C	Next 30 % of students
D	Next 25 % of students
E	Last 10 % of students

**Scores of discipline for students who successfully completed the program, converted into traditional 4-point scale by absolute criteria, which are listed in the table below:**

<b>Points of discipline</b>	<b>4-point scale</b>
from 170 to 200 points	5
from 140 to 169 points	4
From 139 points to the minimum number of points the student have to gain	3
Less than minimum number of points that a student have to gain	2

Score from practice is fixed by the head of the University to the diary, the student academic records and test-examination information. Within three days after the practice supervisor from the University delivers a statement to the appropriate dean, a report on the practice - practice Department of the University. Diary practices is kept at the department for 1 year.

## **5. THE LIST OF QUESTIONS SUBMITTED TO FINAL CONTROL**

### *Propaedeutics of surgical dentistry*

1. Organization of surgical dental care Ukraine in outpatient clinic and hospital facilities.
2. Milestones of dental surgery in Ukraine. The contribution of domestic scientists.
3. Aseptic and antiseptic during operations in the maxillofacial area in a outpatient clinic and hospital.
4. Aseptic and antiseptic aspects of AIDS and viral hepatitis in outpatient and inpatient practice dental surgeon.
5. Methods hands preparation of a dental surgeon for surgery on an outpatient basis and a hospital.
6. Immunobiological features of tissues of maxillofacial area. The role of local immunity in the course of odontogenic infection.
7. Examination of the patient in the surgical department of dental clinics and hospital. Medical records.
8. Pain, its components and pathways. The role for the body. Reaction to pain and operating trauma.
9. Medicinal substances for local anesthesia, their chemical composition, mechanism of action.

10. The method of manufacture, storage and quality assessment solutions for local anesthesia.
11. The prolongation of action of local anesthetics. Sudynnozvuzhuyuchi means. Dosage. Intoxication adrenaline.
12. Types of local anesthesia in maxillofacial area. Methods of execution.
13. Potentiated local anesthesia, sedation principles, the basic ingredients of drugs, which are part of schemes sedation, advantages and disadvantages.
14. Drug preparation (premedication) of patients before surgery in the maxillofacial area in a clinic and hospital. Possible complications potentiated anesthesia.
15. General complications of local anesthesia. Anaphylactic shock. Reanimation.
16. Local complications of local anesthesia in maxillofacial region. Prevention, diagnosis and treatment.
17. Types and features of general anesthesia during operations in the maxillofacial area in the clinic and hospital. Indications and contraindications.
18. Pharmacological drugs for anesthesia, mechanism of action. Neyroleptanalheziya. Indications and contraindications in dental surgery.
19. General and local complications during anesthesia. Prevention. Reanimation.
20. Indications and contraindications to the use of different kinds of local and general anesthesia during surgery in maxillofacial area in a clinic and hospital.
21. Central anesthesia of the II branch of the trigeminal nerve. Zone of innervation, indications, technique. Preventing complications.
22. Central anesthesia of the III branch of the trigeminal nerve. Zone of innervation indications, technique. Preventing complications.
23. Anesthesia by Bershe-Dudov-Uvarov. Indications and methods of implementation.
24. Anesthesia by Vishnevsky for the infratemporal fossa. Trigger-sympathetic blockade. Indication. Methods.
25. Torusalna anesthesia by Veysbremom. Zone of action. Indication. Methodology. Preventing complications.
26. Methods of extraoral mandibular anesthesia. Zone of of action. Indication. Methodology. Preventing complications.
27. Appoductive way of intraoral mandibular anesthesia. Zone of action. Indication. Methodology. Preventing complications.
28. The method of finger intraoral mandibular anesthesia. Zone of action. Indication. Methodology. Preventing complications.
29. Buccal nerve anesthesia. Lines. Zone of action. Methodology. Indication.

30. Mental anesthesia. Areas of action, indications, methods.
31. Infraorbitalna anesthesia. Zone of action. Indication. Methodology. Possible complications, its prevention and treatment.
32. Tuberal anesthesia. Zone of action. Indication. Methodology. Possible complications, its prevention and treatment.
33. Anesthesia at the incisive opening. Zone of of action. Indication. Methodology. Possible complications, prevention and treatment.
34. Plexual anesthesia. Zone of action. Indication. Methodology. Preventing complications.
35. Methods of anesthesia while removing of the lower molars.
36. Anesthesia during sequestrectomy in the mental department mandible.
37. Anesthesia when removing the upper incisors. Prescription - 2% solution of novocaine.
38. Anesthesia while removing upper premolars.
39. Anesthesia at the opening SCHLD superficial cellulitis.
40. Anesthesia at the opening of deep cellulitis SCHLD and neck.
41. Common complications during and after anesthesia. Prevention, care.
42. Preparation of the dental patient for urgent surgery in a clinic and hospital.
43. Preparation of the dental patient for elective surgery in a clinic and hospital.
44. Local complications during and after injection of anesthetic. Prevention, treatment.
45. Tactics of doctor in the mistaken administration instead of non-injectable anesthetic solution.
46. Unconsciousness, collapse, shock. The clinical course, help the patient in the dental clinic conditions.
47. Local complications during anesthesia in maxilla-facial area: etiology, pathogenesis, clinical presentation, care and prevention.
48. Features of anesthesia in tooth extraction in patients with myocardial infarction, diabetes, cardiovascular disease.
49. Anesthesia while removing salivary stone.
50. Anesthesia with sinusitis.
51. Anesthesia in patients with allergic status.
52. Features of anesthesia in the elderly patients.
53. Modern anesthetic agents (anesthetics), equipment, performance, advantages and disadvantages.

54. Modern methods of anesthesia during dental operations, the principles of the further development of methods of anesthesia.

55. Preparation of the patient and oral cavity for operation of tooth extraction.

56. Operation tooth extraction. Stages. Features removing certain groups of teeth and roots on the upper and lower jaws.

57. Complications of tooth extraction on the lower and upper jaws. Diagnosis, treatment.

58. Instruments set for typical and atypical tooth, its purpose, action.

59. Instruments for root extractions in the upper jaw. The structure and terms of use.

60. Instruments for root extractions in the mandible. The structure and terms of use.

61. Atypical tooth extraction. Methods. Postoperative wound care.

62. Types and postextractive terms healing of wounds.

63. Atypical removal and retention dystopovanyh teeth. Indication. Methods of operation.

Alveolektomiya. Complications and their treatment.

64. Bleeding after tooth extraction: its causes, methods of stopping and prevention.

65. Alveolitis: etiology and treatment. Wound care in the postoperative period.

66. Socket pain: etiology, clinical features, treatment.

67. Tactics of physician in case of bottom of the maxillary sinus perforation during tooth extraction.

68. Tactics of doctor in case of pushing a tooth into the maxillary sinus.

69. The specifics of preparing patients with disease of blood before the tooth extraction.

70. Tactics of a doctor in case of pushing tooth into tissue of bottom of oral cavity.

71. Fracture of tooth: methods of removal, the necessary tools.

72. Removal of the tooth in a patient with hypertension, stroke, myocardial infarction.

73. Removing tooth with cancer; a patient with leukemia.

74. Chronic odontogenic inflammatory foci in patients with local and systemic somatic diseases. Tactics dentist.

75. Chronic odontogenic inflammatory foci in patients before and after surgery on the abdomen, chest. Tactics dentist.

76. Causes of jaw fracture during tooth extraction. Tactics of a doctor.

77. Prevention of aspiration in case of tooth fracture of dislocation during extractions.

### ***Inflammatory processes of the maxillofacial area***

1. Diseases of teething. Impacted teeth. Clinic, diagnostics. Indications and methods of tooth extraction.



2. Pericoronaritis. Causes, classification, clinic, diagnostics, conservative and surgical methods of treatment.
3. Etiology, pathogenesis and classification of inflammatory processes in maxillofacial area.
4. Acute periodontitis. Classification, clinical symptoms, diagnosis and treatment.
5. Chronic periodontitis. Classification. Clinic, diagnostics.
6. Chronic granulomatous periodontitis, clinic and diagnostics. Types of granulomas, epithelial theory of a granuloma.
7. Surgical treatment of chronic periodontitis. Resection of root apex. Indications, method of implementation, possible complications and their prevention.
8. Surgical treatment of chronic periodontitis. Hemisection, amputation, replantation. Indication. Methodology. Possible complications and their prevention.
9. Replantation of the tooth, and delayed-stage, indications and contraindications, methods of operation, complications. Type of connection fossa of the tooth root.
10. The causes exacerbations of chronic periodontitis pathogenesis. Treatment, prevention of complications.
11. Periostitis of jaws: classification, etiology, pathogenesis, clinical features, differential diagnosis, treatment.
12. Treatment of acute festering odontogenic periostitis of jaws.
13. Osteomyelitis of the jaws. Etiology, pathogenesis theory, classification.
14. Odontogenic osteomyelitis of the jaws. The acute stage. The clinic, diagnosis, treatment.
15. Odontogenic osteomyelitis of the jaws. The chronic phase. Clinic, diagnostics. Conservative treatment. Operation sequestrectomy. Indications, deadlines and its methodology. Preventing complications.
16. Features of clinical course odontogenous osteomyelitis- upper and lower jaws. Dependence on anatomical and topographic features. Complications osteomyelitis.
17. Differential diagnosis of acute periodontitis, periostitis and osteomyelitis of the jaws.
18. Features of clinical course, diagnosis and treatment of acute osteomyelitis odontogenous jaws.
19. Haematogenic acute osteomyelitis of the maxilla: etiology, clinical features, complications and treatment.
20. Actinomycosis maxillofacial areas: clinical, differential diagnosis, treatment.
21. Syphilis maxillofacial areas: clinical, differential diagnosis, treatment.
22. Tuberculosis maxillofacial areas: clinical, differential diagnosis, treatment.

23. Surgical anatomy cellular space maxillofacial area. By spreading odontogenic infection.
24. Abscess and phlegmons of maxillofacial area. Inflammatory clinical signs, diagnosis.
25. Abscess and phlegmons of maxillofacial area. Principles of complex treatment.
26. Phlegmon of infratemporal and pterygopalatine fossa. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment.
27. Phlegmon of temporal area. Causes, clinical picture, diagnosis, treatment.
28. Abscesses and phlegmons of infraorbital and zygomatic areas sites. Causes, clinical picture, diagnosis, treatment.
29. Abscess and phlegmons of submandibular space. Surgical anatomy. Causes, clinical picture, diagnosis, treatment.
30. Abscess and phlegmons pterigo-mandibular cellular space. Surgical anatomy, causes, clinical features, diagnosis, treatment.
31. Abscess and phlegmons of submasseterical cellular space. Surgical anatomy. Causes, clinical picture, diagnosis, treatment.
32. Abscess and phlegmons of parotid area. Causes, surgical anatomy, clinical features, diagnosis, treatment.
33. Abscess and phlegmons of buccal area. Surgical anatomy, causes. The clinic, diagnosis, treatment.
34. Abscess and phlegmons of retromandibular area. Surgical anatomy, causes, clinical features, diagnosis, treatment.
35. Abscess and phlegmons of a tongue. Causes, clinical picture, diagnosis, treatment.
36. Phlegmon of the bottom of oral cavity. Surgical anatomy, causes, clinical features, diagnosis, treatment.
37. Abscess of the mandibulat-tounge grooves. Surgical anatomy, causes, clinical features, diagnosis, treatment.
38. Purulent-necrotic phlegmons of the bottom of oral cavity, Ludwig's Angina. Surgical anatomy, causes, clinical features, diagnosis, treatment.
39. Abscess and phlegmons of paraparenchymal cellular space. Surgical anatomy, causes, clinical features, diagnosis, treatment.
40. Odontogenic and non-odontogenic abscess of the maxillofacial area: differential diagnosis, clinical course, treatment complications
41. Clinical features, topographic anatomy and treatment of neck phlegmon.
42. General treatment maxillofacial abscesses. Prescriptions.
43. Odontogenic mediastinitis: etiology, pathogenesis, clinical presentation, diagnosis.

44. Differential diagnosis of odontogenic mediastenitis, surgical and medication.
45. Sepsis, infectious-toxic shock. Etiology, clinical features, differential diagnosis, treatment.
46. Facial vein thrombophlebitis, thrombosis of the cavernous sinus. Etiology, clinical features, differential diagnosis, treatment.
47. Odontogenic brain abscess, meningitis. The etiology, clinical presentation, treatment.
48. Odontogenic sinusitis. Etiology, classification, clinic, diagnostics.
49. Odontogenic sinusitis. Conservative and surgical treatment. Complications and their prevention.
50. The clinic, diagnosis and treatment of arthritis and osteoarthritis temporomandibular joint. To get needed prescriptions.
51. Lymphadenitis of the maxillofacial area: classification, clinical features, differential diagnosis, treatment.
52. Boil and carbuncle of the maxillofacial area: classification, clinical picture, complications and treatment.
53. Acute inflammation of the salivary glands: classification, clinical course, treatment.
54. Slynokam'yana disease: etiology, clinical features, complications and treatment.
55. Henzenberg parotitis.
56. Chronic inflammation of the salivary glands: classification, clinical course, treatment.
57. Systemic diseases of the salivary glands: Mikulich disease, Sjogren's syndrome.
58. Noma. Etiology, pathogenesis, clinical presentation, treatment. Differential diagnostics, complications.
59. Erysipelas of the face. Etiology, pathogenesis, clinical presentation, treatment. Differential diagnosis, complications.
60. Diphtheria. Etiology, pathogenesis, clinical presentation, treatment. Differential diagnosis, complications.
61. AIDS. Manifestations in the oral cavity.

### ***Traumatology of maxillofacial area***

1. General characteristics, clinical course, diagnosis of injuries of the face and jaws.
2. Classification of tissues injuries of the maxillofacial area.
3. Radiographic styling for the diagnosis of facial bone injuries of the skull.
4. Damage to the facial soft tissue: classification, flow, especially the surgical treatment.
5. Types of stitches and sutures. Cosmetic seams: purpose and modification.

6. Dislocations and fractures of the teeth: classification, clinical picture, diagnosis, immobilization, treatment.
7. Dislocations of mandible: classification, clinic, diagnostics, treatment.
8. Mandibular fractures: classification, clinic, diagnostics.
9. Fractures of the upper jaw, classification, clinic, diagnostics.
10. Fractures of zygomatic bone and arc: classification, clinic, diagnostics, treatment.
11. Damage to the nasal bones: classification, clinic, diagnostics.
12. Anterior and posterior nasal tamponade: indications, techniques.
13. Principles of treatment of fractures of the upper and lower jaws.
14. Temporary (transport) immobilization of bone lesions in maxillofacial, types, principles, requirements.
15. Dental splints and their modifications.
16. Laboratory splints and their application.
17. Permanent (medical) immobilization of the jaws. Dental, dental-gums, gums splints. Disadvantages and advantages.
18. Osteosynthesis of the mandible: indications, types, methods, equipment, biological and biomechanical principles.
19. Osteosynthesis of the maxilla: indications, types, methods, equipment, biological and biomechanical principles.
20. Prosthetic treatment of hardware jaws damage, jaw defects: species shows.
21. The regeneration of bone tissue, types. Optimization of bone tissue regeneration.
22. Combined injuries of jaws: clinical features and assistance.
23. Early general and local complications of injuries maxillofacial (hemorrhage, asphyxia, shock). The clinical features, diagnosis, treatment.
24. Late complications and consequences of injuries maxillofacial area. The clinic, diagnosis, treatment.
25. The combined injuries of maxillofacial area, classification, peculiarities, diagnosis liquorrhea principles assistance.
26. Traumatic disease.
27. Burns of the face: classification, peculiarities, assistance.
28. Treatment of facial burns consequences.

## **6. BASIC AND ADDITIONAL LITERATURE**

1. Vares Y., Ogonovsky R., Pohranychna Kh. Principles of Dental Local Anaesthesia and Teeth Removal (An illustrated methodological guide) – Lviv, 2007. – P. 31-36.
2. Oral and Maxillofacial Surgery: Textbook, Part 1 / V.O. Malanchuk. – Vinnytsia: Nova Knyha Publishers, 2011. – 432 p.
3. Oral and Maxillofacial Surgery: Textbook, Part 2 / V.O. Malanchuk. – Vinnytsia: Nova Knyha Publishers, 2011. – 345 p.

## 7. APPLICATIONS

*Application 1*

### DIARY FROM THE MEDICAL PRACTICE 4th Year Students of Dental Faculty

Last Name \_\_\_\_\_

Name \_\_\_\_\_

Year \_\_\_\_\_ Group \_\_\_\_\_

Speciality \_\_\_\_\_

Clinical unit \_\_\_\_\_

Practice: from \_\_\_\_\_ till \_\_\_\_\_ 20\_\_\_\_.

Base manager \_\_\_\_\_  
(signature)

University manager \_\_\_\_\_  
(signature)

**A**

№	Date	Patient's name, last name age, № of medical card	Visit I, II	Complaints and medical history	Objective examination and dental formula	Diagnosis in native and English Languages	Treatment (what is done, the stages of treatment, the specification of medications)	Manager signature
1	2	3	4	5	6	7	8	9



**FORM OF THE STUDENT'S TEXT REPORT**

- 1. Brief description of the clinical base (for the students).
- 2. Equipment of the clinical base with instruments and sealing materials.
- 3. Daily workload.
- 4. Relations between student and medical staff of the clinical base.
- 5. Mark, what's new student learned during the production of medical practice.
- 6. Suggestions and proposals for improvement of medical practices (for the students). \_\_\_\_\_
- 7. Signature of a student \_\_\_\_\_

**CHARACTERISTIC**

Student \_\_\_\_\_, \_\_\_\_\_ group \_\_\_\_\_ year  
*(name, last name)*

Head of Practice \_\_\_\_\_  
*(initials, signature)*

Chief Medical Officer of the Clinic \_\_\_\_\_  
*(initials, signature)*

L.S.

**Diary Review**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Base manager of practice \_\_\_\_\_  
*(initials, signature)*

University manager \_\_\_\_\_  
*(initials, signature)*

NOTE. When writing a review on the diary author should reflect the following indicators: the level of theoretical training student mastery of practical skills, knowledge of recipes, compliance with ethics and deontology foundations, the attitude of the student to learn new practical skills, knowledge of the rules of medical records and diary.

Practice Mark \_\_\_\_\_  
*(in words)*

" \_\_\_\_\_ " \_\_\_\_\_ 20 \_\_\_\_\_ year.  
*(Practice Day)*

Signature \_\_\_\_\_ University manager practice of the  
*(Full name, signature)*



**List of Abilities and Practical Skills at the Time of  
Medical Practice of Surgical Dentistry**

№	Abilities and Practical Skills	Points (from 3 to 5)	Base Manager Signature
1.	Demonstrate the ability to apply the principles of medical ethics in surgical dental practice.		
2.	Demonstrate possession of advanced techniques and principles of health education work.		
3.	Identify the basic units of dental surgical care to the population of Ukraine.		
4.	Demonstrate the ability to collect the patient's history to fill outpatients dental card.		
5.	To conduct palpation of inflammatory diseases, injuries of the soft and bone tissues of the maxillofacial area, tumors and tumor-like formations, demonstrate the ability to collect the patient's history.		
6.	Be able to fill outpatients dental card.		
7.	To take a swab and print for cytology at a patient.		
8.	Perform local anaesthesia in the maxillofacial area (application, infiltration).		
9.	Perform local conductive anaesthesia on the upper jaw.		
10.	Perform local conductive anaesthesia on the lower jaw.		
11.	Conduct typical teeth extractions.		
12.	Conduct atypical teeth extractions.		
13.	Conduct extraction of the impacted teeth.		
14.	Open subperiosteal abscesses and soft tissue abscesses and phlegmons.		
15.	Demonstrate dissection and excision of the mucosa at pericoronitis.		
16.	Master the technique of removing sequestration with limited osteomyelitis.		
17.	Conduct stop bleeding after tooth extraction.		
18.	Tamponing or suturing the perforation of the maxillary sinus.		
19.	To be able to conduct a needle biopsy for tumors of the maxillofacial area.		
20.	To be able to conduct incised biopsy for tumors of the maxillofacial area.		
21.	To be able to perform surgery for tumors and tumor-like formations of the soft oral tissues (fibroma, retention cyst, epulis).		
22.	To be able to perform surgical treatment of chronic periodontitis (resection of the root apex, hemisection,		

	amputation, crown-radicular separation, replantation).		
23.	Conduct fistula sensing, salivary gland ducts probing, removal of calculus from the ducts.		
24.	Demonstrate methods of providing emergency - artificial respiration, closed cardiac massage.		
<b>Total points for mastering practical skills (72-120):</b>			

Note: The amount of points for mastering of practical skills is approved by a health care setting stamp

**Final control**

<b>Points (from 50 to 80):</b>	University manager signature

<b>Differentiated Credit Mark</b>	<b>Point</b>	<b>Mark</b>	<b>University manager signature</b>

Other types and forms

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Signature \_\_\_\_\_

## **8. CONCLUSIONS**

Summarizing practices carried out in the presence of all the accounting documents of the program with the practices and characteristics of the student's activity during practice, signed a direct and general manager of database practice.

Score practice is taken into account when considering the appointment of scholarships along with estimates for other exams and differentiated tests.

Students who have not completed the program practices without good reason, received poor marks for practice and haven't eliminated academic debt before the next semester, will be deducted from the University.

Results of practice have to be listened and discussed at the department meeting, the profile Methodology Committee, the Academic Council of the Faculty and the University.