**Vinnytsia National Pirogov Medical University**
**Department of Surgical Dentistry and Maxillofacial Surgery**

**«APPROVED»**
Vice-rector for scientific and pedagogical (educational) work

Prof. Y.Y. Guminskiy _____
«27» 08 2020 y.

**«AGREED»**
Head of the Department of Surgical Dentistry and Maxillofacial Surgery

Prof. S.M.Shuvalov _____
«27» 08 2020 y.

# SYLLABUS OF THE COURSE

# SURGICAL DENTISTRY

training of specialists of the second (master's) level of higher education

qualification of educational "Master of Dentistry"
qualification of professional "Dentist"

areas of knowledge 22 "Health care"

specialty 222 "Dentistry"

2020 – 2021 academic year

**1. Course annotation:**
**Semester (s) - 7 and 8**
The volume of the module for the 7th semester: the total number of hours - 60 of them lectures - 10, practical classes - 34, independent work - 16, ECTS credits – 2,0
The volume of the module for the 8th semester: the total number of hours - 60 of them practical classes - 36, independent work - 24, ECTS credits – 2,0

In the general system of training a dentist, surgical dentistry is one of the main disciplines. The main task of the course of surgical dentistry is to teach students the methods of examination of the patient, diagnosis and treatment of the most common dental surgical diseases, organizational measures for disease prevention. According to the study curriculum, surgical dentistry is carried out in 3, 4, 5 years of study, and includes lectures and practical classes on all forms of surgical pathology of the maxillofacial area. During the analysis of individual diseases should address the issues of pathogenesis, clinical picture, diagnosis, treatment, prevention, medical, social and occupational rehabilitation.

Lectures on surgical dentistry cover problematic issues of etiology and pathogenesis of dental surgical diseases, their clinic, treatment, prevention, taking into account modern advances in medicine, based on the theory of the integrity of the organism and its inseparable connection with the environment.

The organization of the educational process is carried out according to the credit-transfer system. The amount of student workload is described in ECTS credits - credit credits, which are credited to students upon successful completion of the module (credit).

The program of the discipline is structured in 6 modules, which includes three content modules, 1 differential test and 2 exams (including state). The credit transfer system of the educational process encourages students to study systematically during the academic year.

Types of classes according to the curriculum are lectures, practical classes, independent work of students.

The topics of the lecture course reveal the problematic issues of the relevant sections of surgical dentistry.

Practical classes according to the method of their organization are clinical, because they provide:

- Curation of patients with various surgical pathologies of the maxillofacial area (and in their absence in the clinic - analysis of clinical situational tasks or archival case histories): collection of general and professional history, examination;
- Justification of the preliminary diagnosis;
- Drawing up a plan for additional examination of the patient and interpretation of laboratory and auxiliary research methods;
- Carrying out a differential diagnosis and substantiation of a clinical diagnosis;
- Drawing up a scheme of rational treatment;

Assimilation of the topic is controlled in practical classes in accordance with specific objectives, assimilation of content modules - in practical final classes. The following tools are used to diagnose the level of preparation of students: tests, solving situational problems, filling out workbooks, evaluation of clinical and laboratory studies. Interpretation of laboratory tests and interpretation and evaluation of their results, analysis and evaluation of the results of instrumental studies and parameters that characterize the functions of the human body, its systems and organs; control of practical skills.

The final control of mastering the module is carried out after its completion. Assessment of student performance in the discipline is a rating and is set on a multi-point scale and is determined by the ECTS system and the scale adopted in Ukraine.

## 2. Prerequisites and postrequisites of the discipline

**Prerequisite -** anatomy, as a fundamental basis of the structure of the dental system; histology as a science of histological structure of facial tissues; biochemistry, microbiology, pharmacology, physiology, pathophysiology, pathological anatomy.

**Postrequisite -** modern surgical dentistry forms the basis of in-depth study by masters of the following specialized disciplines of clinical profile - therapeutic dentistry, pediatric dentistry, orthopedic dentistry.

**3. The purpose of the course:** acquisition of theoretical knowledge and practical skills in the diagnosis of occupational diseases in the study of the discipline "surgical dentistry"

## 4. Learning outcomes of the discipline:

*know*: clinic, diagnosis, treatment, prevention of surgical diseases of the maxillofacial area
*be able to:* diagnose surgical disease of the thyroid gland on the basis of a set of survey data
*able to demonstrate:* knowledge and practical skills in the discipline
*have the skills:* methods of examination of the patient
*decide on one's own:* the question of creating a plan for examination of the patient

### 5. CONTENT OF THE DISCIPLINE

**Subjects of practical employment for the students of 4 courses (7 semester)**

| № | The name of a theme of practical employment | Hours |
|---|---|---|
| 1. | **Classroom work**<br>Injuries of maxillo-facial region in peaceful time. Classification, clinical flow. Main principles of diagnostics and treatment. | 2 |
| | **Home work**<br>Achievements of native scientists, co-workers of the department in traumatic injuries of face. | 2 |
| 2. | **Classroom work**<br>Luxations and fractures of teeth. Alveolar fractures. Clinical signs, diagnostics, treatment. | 2 |
| 3. | **Classroom work**<br>Non-gunshot mandibular fractures. Mechanism of fracture. Clinical signs, diagnostics. | 2 |
| 4. | **Classroom work**<br>Features of reparative regeneration of jaw bone tissue. General principles of treatment of non-gunshot mandibular fractures. | 2 |
| 5. | **Classroom work**<br>Methods of immobilization of fracture fragments. Materials and instruments for splinting. Intermaxillary wiring during fractures of jaws. Indications for application. Technique of manufacturing. Making the system of splints according to S.S. Tigershtedt (plain (smooth) splint, splint with curve, splint with loops, splint with inclined plane). Indications. Technique of manufacturing. | 2 |
| 6. | **Classroom work**<br>Dislocations of mandible. Clinical signs, diagnostics and treatment. | 2 |
| 7. | **Classroom work**<br>Maxillary fractures in peaceful time. Mechanism of fracture. Classification. Clinical signs, diagnostics and treatment of maxillary fractures. | 2 |
| | **Home work** | 2 |

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| | Distraction-compressive methods of treatment of bone fractures in maxillofacial area, achievements of native scientists, co-workers of the department. | |
| 8. | **Classroom work**<br>Zygomatic arch and bone fractures. Nasal bones fractures. Clinical signs, diagnostics and treatment. | 2 |
| 9. | **Classroom work**<br>Osteosinthesis, methods of fixation of bone fragments. | 2 |
| | **Home work**<br>Ostheosynthesis in facial bone fractures, biological basis of bone tissue regeneration. | 2 |
| 10. | **Classroom work**<br>Facial soft tissue injuries. Complex injuries of soft tissues and bones. Clinical signs, diagnostics and treatment. Methods of surgical debridement of wounds, types of sutures. | 2 |
| | **Home work**<br>Modern methods of diagnostics of facial tissues injury. Surgical debridement of soft tissue wounds of maxillofacial area, types of sutures. | |
| 11. | **Classroom work**<br>Immediate and early complications in case of damages of bones and soft tissues of the face (asphyxia, bleeding and others). | 2 |
| 12. | **Classroom work**<br>Late complications in case of damages of bones and soft tissues of the face (bleeding, osteomyelitis). Traumatic disease: pathogenesis, features during injuries of maxillo-facial region. | 2 |
| | **Home work**<br>Diagnostics, clinical signs, treatment of frontofacial, craniofacial trauma. Diagnotics, complications of craniofacial injuries in modern conditions. | 2 |
| 13. | **Classroom work**<br>Subject and tasks of stomatology of extreme situations. Organization of surgical stomatological help in Ukrainian army. Quantity and structure of sanitary losses during injuries of maxillo-facial region. Classification of maxillo-facial injuries. Principles of medical sorting of injured in maxillo-facial region. General characteristics, clinical flow, diagnostics of ballistic wounds of facial soft tissues and jaws. Battle injuries of face bones. Help on stages of evacuation. Modern ballistic wound, its treatment. | 2 |
| | **Home work**<br>Urgent medical help in injuries of facial and cervical vessels on the stages of treatment. Urgent medical help in different types of asphyxia. Modern methods of treatment of prolonged compression syndrome of facial tissues (extracorporal hemosorbtion, plasmoforesis etc.), neurological changes after trauma. | 2 |
| 14. | **Classroom work**<br>Burns of the face. Clinic, diagnostics. Principles and methods of treatment of burns of maxillo-facial region. | 2 |
| | **Home work**<br>Urgent medical help in traumatic, pain shock on the stages of treatment. | 2 |
| 15. | **Classroom work**<br>Combined damages of a maxillo-facial region. Clinical picture, diagnostics and treatment. | 2 |
| | **Самостійна робота / Самостоятельная работа / Home work**<br>Комбіновані та поєднані пошкодження тканин ЩЛД.<br>Комбинированные и сочетанные повреждения тканей ЧЛО.<br>Combined and associated tissue injuries in maxillofacial area. | 2 |
| 16. | **Classroom work**<br>Organization of feeding and care of patients with trauma of maxillofacial region on stages of medical evacuation. Medical physical training and physiotherapy. Military medical expertise during injuries and diseases of maxillo-facial region. | 2 |
| 17. | **Classroom work**<br>The final modular control. | 2 |
| | Classroom work | 34 |
| | Independent work | 16 |
| | Lectures | 10 |
| | At all. | 60 |

**CONTENT OF THE DISCIPLINE**

**Subjects of practical employment for the students of 4 courses (8 semester)**

| № | The name of a theme of practical employment | Hours |
|---|---|---|
| 1. | **Classroom work**<br>Organization of the specialized help for the patients with the tumors pre-tumor lesions of maxillofacial area. Principles of international classification of tumors. Methods of inspection of patients with tumors and pre-tumor lesions of maxillofacial area. Prescribing referrals for hospitalization and consultation with related specialists. | 2 |
| | **Home work**<br>Oncogenesis. Modern views on the biological basis of oncogenesis. | 2 |
| 2. | **Classroom work**<br>Tumors of soft tissues: flat-cell papilloma, papillomatous hyperplazia, fibroma, fibromatosis, lipoma, diffuse lipomatosis, piogenic granuloma, neurofibromatosis, traumatic neuroma. Morphological features. Clinic, diagnostics and treatment. | 2 |
| | **Home work**<br>Biological principles of treatment of benign and malignant tumors MFR. | 2 |
| 3. | **Classroom work**<br>Vascular tumors: haemangioma, systemic haemangiomatosis, lymphangioma. Morphological features. Clinic, diagnostics and treatment. | 2 |
| | **Home work**<br>Modern methods of treatment of soft tissue hemangiomas MFR. | 2 |
| 4. | **Classroom work**<br>Tumors and tumor-like lesions of skin: tumor of hair matrice, rhynofima, keratoakantoma, benign flat-cell keratosis, nevus. Morphological features. Clinic, diagnostics and treatment. | 2 |
| | **Home work**<br>Modern methods of diagnosis and treatment of hemangiomas of maxillofacial bones. | 2 |
| 5. | **Classroom work**<br>Cysts and fistulas of face and neck: epidermal, dermoid cyst, congenital cysts and fistulas. Clinic, diagnostics and treatment. Reading radiographs and CT scans. | 2 |
| | **Home work**<br>Differential diagnosis of soft tissue cysts of MFR. | 2 |
| 6. | **Classroom work**<br>Odontogenic tumors and tumor-like lesions: ameloblastoma, ameloblastic fibroma. Morphological features. Clinic, diagnostics and treatment. Reading radiographs and CT scans. | 2 |
| | **Home work**<br>The immune system in tumors and tumor-like processes of MFR. | 2 |
| 7. | **Classroom work**<br>Odontogenic tumors and tumor-like lesions: odontoma, cementoma. Morphological features. Clinic, diagnostics and treatment. Reading radiographs and CT scans. | 2 |
| | **Home work**<br>Methods of examination of patients with tumor and tumor-like processes of MFR. Biopsy. | 2 |
| 8. | **Classroom work**<br>Odontogenic tumors and tumor-like lesions: myxoma, epulid. Morphological features. Clinic, diagnostics and treatment. | 2 |
| | **Home work**<br>Differential diagnosis of benign and malignant tumors MFR. | 2 |
| 9. | **Classroom work**<br>Cysts of jaws. Classification. Clinic. Diagnostics and treatment. Reading radiographs and CT scans. | 2 |
| 10. | **Classroom work**<br>Bone-forming tumors: osteoma, osteoid-osteoma, osteoblastoma, ossifying fibroma, khondroma, osteokhondroma. Morphological features. Clinic, diagnostics and treatment. Reading radiographs and CT scans. | 2 |
| 11. | **Classroom work**<br>Bone-forming tumors: giant-cell tumor, bone marrow and vascular tumors, fibrous displasia, eozinophylic granuloma. Morphological features. Clinic, diagnostics and treatment. | 2 |
| 12. | **Classroom work**<br>Tumor-like lesions: deforming osteitis, "brown tumor" of hyperparathyroidism, anevrismal and solitary cyst. Morphological features. Clinic, diagnostics and treatment. | 2 |
| 13. | **Classroom work** | 2 |

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| | Cysts of glands: retention cysts of mucous glands of lips, cheeks, cysts of sublingual, submandibular and parotid glands, sebocystoma. Methods of diagnostic and surgical treatment. | |
| | **Home work**<br>Writing a medical history. | 2 |
| 14. | **Classroom work**<br>Tumors of salivary glands: monomorphic and polymorphic adenoma, mucoepidermoid tumor. Morphological features. Clinic, diagnostics and treatment. | 2 |
| | **Home work**<br>Differential diagnosis of salivary gland tumors. Differential diagnosis of ulcers of MFR. | 2 |
| 15. | **Classroom work**<br>Tumors of salivary glands: adenocyst carcinoma, adenocarcinoma. Morphological features. Clinic, diagnostics and treatment. Reading radiographs and CT scans. | 2 |
| | **Home work**<br>Modern methods of diagnosis and differential diagnosis of lymphadenopathy of MFR. | 2 |
| 16. | **Classroom work**<br>Features of postoperative flow and management of oncologic patients. Rehabilitation and prophylactic medical examination of patients with the tumors of maxillofacial area. | 2 |
| | **Home work**<br>Modern methods of treatment of malignant tumors of the maxillofacial bones. Modern methods of treatment of malignant soft tissue tumors. Elimination of bone defects of MFR after removal of tumors. | 2 |
| 17. | **Classroom work**<br>Final control. | 2 |
| 18. | **Classroom work**<br>Credit | 2 |
| | Classroom work | 36 |
| | Independent work | 24 |
| | Lectures | 0 |
| | At all. | 60 |

**Topic of lectures for medical faculties( 7 semester)**

| № | Topic of lectures | Duration | Lector |
|---|---|---|---|
| 1 | Fractures of teeth and alveolar process. Luxations of teeth. Dislocations of mandible. Maxillary fractures in peaceful time. Fractures of zygomatic complex. Fractures of nasal bones. Clinical signs, diagnostics, treatment. | 2,0 | Prof. Shuvalov S.M |
| 2 | Fractures of mandible in peaceful time. Clinical signs, diagnostics, treatment. | 2,0 | Prof. Shuvalov S.M |
| 3 | Soft tissues injuries. Clinical signs, diagnostics, treatment. Complications of traumatic injuries of maxillo-facial region. | 2,0 | Prof. Shuvalov S.M |
| 4. | Basic stages of development of surgical stomatology. Subject and task of stomatology of extreme situations. Organization of surgical stomatological help in Ukrainian army. | 2,0 | Prof. Shuvalov S.M |
| 5. | Principles and methods of treatment of ballistic wounds, burns and combined damages of maxillo-facial area. Stages of treatment of wounded patients. Organization of feeding and care of wounded patients on stages of medical evacuation. | 2,0 | Prof. Shuvalov S.M |

**List of topics for independent work of students (7 semestr)**
**4 courses in the study of surgical dentistry**

| Name topics | Number of hours |
|---|---|
| Urgent medical help in traumatic, pain shock on the stages of treatment. | 2 |
| Urgent medical help in injuries of facial and cervical vessels on the stages of treatment. Urgent medical help in different types of asphyxia. Modern methods of treatment of prolonged compression syndrome of facial tissues (extracorporal hemosorbtion, plasmoforesis etc.), neurological changes after trauma. | 2 |

| | |
|---|---|
| Modern methods of diagnostics of facial tissues injury. Surgical debridement of soft tissue wounds of maxillofacial area, types of sutures. | 2 |
| Achievements of native scientists, co-workers of the department in traumatic injuries of face. | 2 |
| Ostheosynthesis in facial bone fractures, biological basis of bone tissue regeneration. | 2 |
| Diagnostics, clinical signs, treatment of frontofacial, craniofacial trauma. Diagnotics, complications of craniofacial injuries in modern conditions. | 2 |
| Distraction-compressive methods of treatment of bone fractures in maxillofacial area, achievements of native scientists, co-workers of the department. | 2 |
| Combined and associated tissue injuries in maxillofacial area. | 2 |
| At all | 16 |

**List of topics for independent work of students (8 semestr)**
**4 courses in the study of surgical dentistry**

| Name topics | Number of hours |
|---|---|
| Oncogenesis. Modern views on the biological basis of oncogenesis. | 2 |
| Biological principles of treatment of benign and malignant tumors MFR. | 2 |
| Modern methods of treatment of soft tissue hemangiomas MFR. | 2 |
| Modern methods of diagnosis and treatment of hemangiomas of maxillofacial bones. | 2 |
| Differential diagnosis of soft tissue cysts of MFR. | 2 |
| The immune system in tumors and tumor-like processes of MFR. | 2 |
| Methods of examination of patients with tumor and tumor-like processes of MFR. Biopsy. | 2 |
| Differential diagnosis of benign and malignant tumors MFR. | 2 |
| Writing a medical history. | 2 |
| Differential diagnosis of salivary gland tumors. Differential diagnosis of ulcers of MFR. | 2 |
| Modern methods of diagnosis and differential diagnosis of lymphadenopathy of MFR. | 2 |
| Modern methods of treatment of malignant tumors of the maxillofacial bones. Modern methods of treatment of malignant soft tissue tumors. Elimination of bone defects of MFR after removal of tumors. | 2 |
| At all | 24 |

**List of questions for the final control in the discipline of "surgical dentistry"**
**for 4th year students of the dental faculty (7 semestr)**

1. The main stages of development of maxillofacial surgery.
2. Organization of maxillofacial surgical department (out-patient and in-patient department).
3. Organization of maxillofacial surgeon's work in out-patient department. Documentation.
4. Organization of maxillofacial surgeon's work in in-patient department. Documentation.
5. Aseptic techniques during the operations on face and in oral cavity. Preparation of surgeon's hands to the operation.
6. Aseptic and antiseptic components of HIV-infection and viral hepatitis prevention in out-patient and in-patient department.
7. Evaluation of surgical dentistry patient: main methods.
8. Evaluation of surgical dentistry patient: additional methods. Methods of evaluation of salivary glands.
9. Methods of general anesthesia in surgical dentistry. Premedication in out-patient operations, motivation of premedication.
10. Types of local anesthesia. Classification, general characteristic.
11. Indications and contraindications for local anesthesia in maxillofacial area.
12. Choice of local anesthesia and preparation for the operation in maxillofacial area in patients with general diseases (diseases of heart, lungs, liver and kidneys, endocrine system) and some physical states (pregnancy).
13. Prolongation of local anesthetic effect. Vasoconstrictors. Doses. Prescription. Adrenaline intoxication.
14. Preparations used for local anesthesia in surgical dentistry. General characteristic, indications, contraindications. Doses. Prescription. Modern local anesthetics: effect, advantages, disadvantages.
15. Preparations used for general anesthesia in surgical dentistry. General characteristic, indications, contraindications, doses.
16. Techniques of topical and infiltration anesthesia. Anatomical considerations.
17. Regional anesthesia on maxilla (infraorbital anesthesia). Zone (area) of anesthesia. Technique.
18. Regional anesthesia on maxilla (tuberal anesthesia). Zone (area) of anesthesia. Technique.

19. Regional anesthesia on maxilla (incisive anesthesia). Zone (area) of anesthesia. Technique.
20. Regional anesthesia on maxilla (palatal anesthesia). Zone (area) of anesthesia. Technique.
21. Regional anesthesia on mandible (torus anesthesia according to Weisbrem M.M.). Zone (area) of anesthesia. Technique.
22. Regional anesthesia on mandible (mandibular anesthesia). Zone (area) of anesthesia. Technique.
23. Regional anesthesia on mandible (mental anesthesia). Zone (area) of anesthesia. Technique.
24. Technique of anesthesia of lingual and buccal nerves. Anatomical considerations. Zone (area) of anesthesia.
25. Blockade of motor branches of mandibular nerve (anesthesia by Bercher-Dubov-Uvarov). Anatomical considerations. Zone (area) of anesthesia. Indications. Technique.
26. Anesthesia of the 2nd trigeminal nerve branch on the base of the skull. Zone of innervations, indications, technique, prevention of complications.
27. Anesthesia of the 3rd trigeminal nerve branch on the base of the skull. Zone of innervations, indications, technique, prevention of complications.
28. Fainting, collapse, shock. Clinical findings. Treatment in out-patient department.
29. Allergic reactions by use of local anesthesia. Pathogenesis, clinical findings, treatment, prevention.
30. Local complications of local anesthesia in surgical dentistry. Clinical findings, treatment, prevention.
31. Reanimation measures during operations in out-patient and in-patient department.
32. Indications and contraindications for operation of tooth extraction.
33. Instruments for teeth and roots extraction on maxilla. Features of extraction of different teeth and roots on maxilla.
34. Instruments for teeth and roots extraction on mandible. Features of extraction of different teeth and roots on mandible.
35. Operation of tooth extraction: stages, doctor’s and patient’s position. Instruments, their application.
36. Use of elevators. Features of extraction of different teeth and roots on mandible and maxilla.
37. Features of extraction of impacted and half-impacted teeth on maxilla and mandible. Indications, contraindications, technique, complications.
38. Wound healing after tooth extraction. Management of wound after tooth extraction.
39. Diseases of teething (pericoronitis). Etiology. Pathogenesis. Clinical findings. Diagnostics. Treatment. Complications.
40. Diseases of teething (dystopia, impacted and half-impacted teeth). Etiology. Pathogenesis. Clinical findings. Diagnostics. Treatment. Complications.
41. Local complications during tooth extraction.
42. Local complications after tooth extraction.
43. Dry socket (alveolitis). Clinical findings. Diagnostics. Differential diagnostics. Treatment. Prevention.
44. Local osteomyelitis of alveolar socket. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Prevention.
45. Sharp margins of alveolar socket. Exposure of part of the socket. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Prevention.
46. Acute periodontitis. Classification. Clinical findings. Diagnostics. Differential diagnosis. Treatment.
47. Chronic periodontitis. Classification. Pathological anatomy. Clinical findings. Diagnostics. Differential diagnosis. Treatment.
48. Differential diagnosis of acute purulent periodontitis, periostitis, osteomyelitis of the jaws.
49. Surgical methods of treatment of acute periodontitis. Classification. Indications. Technique. Complications.
50. Operation of apexectomy. Indications. Contraindications. Technique. Complications.
51. Crown-radicular separation, hemisection, amputation of tooth root. Indications. Contraindications. Technique. Complications.
52. Replantation of teeth. Classification. Indications. Contraindications. Technique. Complications.
53. Acute and chronic periostitis of the jaws. Etiology. Pathogenesis. Patological anatomy. Classification. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Complications. Prognosis.
54. Acute odontogenic osteomyelitis of the jaws. Patological anatomy. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Complications. Prognosis.
55. Chronic odontogenic osteomyelitis of the jaws. Patological anatomy. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Complications. Prognosis.
56. Acute and chronic lymphadenitis and lymphangitis of face and neck. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Prognosis.
57. Phlegmones and abscesses of face and neck. Clasiffication. Etiology. Pathogenesis. Ways of infection spreadening. General clinical characteristic.
58. Adenophlegmone of face and neck. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Prognosis.
59. Phlegmone and abscess of the pterygomandibular space. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.

60. Phlegmone and abscess of the temporal space. Etiology. Topography. Classification. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
61. Phlegmone and abscess of infratemporal fossa and fossa pterygopalatinum. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
62. Phlegmone and abscess of the parotideo-masseteric space. Etiology. Topography. Classification. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
63. Phlegmone and abscess of the parapharyngeal space. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
64. Phlegmone and abscess of bottom of oral cavity (upper part: sublingual area). Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
65. Phlegmone and abscess of bottom of oral cavity (lower part: submental and submandibular area). Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
66. Necrotic phlegmone of bottom of oral cavity. (Ludwig's angina). Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
67. Phlegmone and abscess of eyehole. Etiology. Topography. Classification. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
68. Phlegmone and abscess of infraorbital space. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
69. Phlegmone and abscess of zygomatic area. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
70. Phlegmone and abscess of buccal area. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
71. Phlegmone and abscess of the retromandibular space. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
72. Phlegmone and abscess of the submandibular space. Etiology. Topography. Clinical findings. Differential diagnostics. Surgical treatment. Prognosis.
73. Intracranial complications of inflammatory processes of maxillofacial area. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Prevention. Prognosis.
74. Odontogenic mediastinitis. Etiology. Pathogenesis. Clinical findings. Patological anatomy. Differential diagnostics. Treatment. Prevention. Prognosis.
75. Acute odontogenic sepsis. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Prevention. Prognosis.
76. Acute and chronic odontogenic inflammation of the maxillary sinus. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Complications. Prognosis.
77. Phuruncle, carbuncle of face and neck. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Complications. Prognosis.
78. Erysipelas of face and neck. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Complications. Prognosis.
79. Sibirian ulcer of face and neck. Etiology. Pathogenesis. Classification. Clinical findings. Differential diagnostics. Treatment. Complications. Prognosis.
80. Noma. Signs of noma on face and in the oral cavity. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Complications. Prognosis.
81. HIV-infection. Signs of HIV-infection in the oral cavity. Clinical findings. Differential diagnostics. Treatment. Complications. Prevention of infection.
82. Diphtheria. Signs of diphtheria in the oral cavity. Etiology. Pathogenesis. Clinical findings. Differential diagnostics. Treatment. Complications. Prognosis.
83. Actinomycosis of maxillofacial area. Classification. Etiology. Pathogenesis. Clinical findings. Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
84. Syphilis of maxillofacial area. Etiology. Pathogenesis. Clinical findings. Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
85. Tuberculosis of maxillofacial area. Classification. Etiology. Pathogenesis. Clinical findings. Patological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
86. Acute inflammation of salivary glands (sialoadenitis). Etiology. Pathogenesis. Clinical findings (enumerate main symptoms). Patological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
87. Chronic parenhimatose sialadenitis. Etiology. Pathogenesis. Classification. Clinical findings. Patological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
88. Chronic interstitial sialadenitis. Etiology. Pathogenesis. Classification. Clinical findings. Patological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
89. Sjogren and Mikulich syndrome and disease. Etiology. Pathogenesis. Clinical findings. Patological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.

90. Calculous disease of salivary glands. Etiology. Pathogenesis. Clinical findings. Patological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
91. Methods of examination of patients with non-gunshot injuries of maxillo-facial area and neck.
92. Fractures and luxations of teeth. Classification. Clinical signs. Diagnostics. Treatment.
93. Dislocations of mandible. Clinical signs. Diagnostics. Treatment.
94. Non-gunshot fractures of mandible. Classification. Clinical signs. Diagnostics.
95. Mechanism of dislocation of fragments by mandibular fracture in area of mental openings, angles, condyles . Clinical signs. Diagnostics. Treatment.
96. Temporary immobilization of fragments by mandibular fractures. Types. Indications for use.
97. Types of teeth splints. Indications for use by maxillary and mandibular fractures. Technique of making. Complications.
98. Gingival and teeth-gingival splints. Indications for use in maxillary and mandibular fractures. Technique of manufacturing. Complications.
99. Extraoral methods of immobilization by maxillary and mandibular fractures. Indications of use. Complications.
100. Operative methods of immobilization by mandibular fractures (osteosynthesis). Indications for use. Technique of operation. Complications.
101. Non-gunshot fractures of maxilla by LeFort I type. Clinical signs. Diagnostics. Treatment.
102. Non-gunshot fractures of maxilla by LeFort II type. Clinical signs. Diagnostics. Treatment.
103. Non-gunshot fractures of maxilla by LeFort III type. Clinical signs. Diagnostics. Treatment.
104. Conservative methods of fixation of maxillary fractures. Indications for use. Technique. Complications.
105. Surgical methods of fixation of maxillary fractures. Indications for use. Technique. Complications.
106. Fractures of nasal bones. Classification. Clinical signs. Diagnostics. Treatment.
107. Fractures of zygomatico-orbital complex. Classification. Clinical signs. Diagnostics. Treatment. Complications. Prognosis.
108. Regeneration of bone tissue. Methods of stimulation of jaw union.
109. Early complications of traumatic injuries of maxillo-facial area. Classification. Clinical signs. Diagnostics. Treatment.
110. Late complications of traumatic injuries of maxillo-facial area. Classification. Clinical signs. Diagnostics. Treatment.
111. Traumatic osteomyelitis of jaws. Clinical signs. Diagnostics. Treatment.
112. Traumatic maxillary sinusitis. Clinical signs. Diagnostics. Treatment.
113. Injuries of salivary glands. Clinical signs. Diagnostics. Treatment.
114. Asphyxia by maxillo-facial injuries. Types. Etiology and pathogenesis. Providing normal breathing. Tracheotomy. Technique of operation.
115. Subjectmatter and task of stomatology of extreme situations. Organization of surgical stomatological help in military powers in peacefull time.
116. Organization of surgical stomatological help in military powers in war time: treatment in stages of medical evacuation.
117. Battle injuries of maxillo-facial area. General characteristic. Peculiarities of flow, diagnostics, treatment in the stages of evacuation.
118. Peculiarities of flow of maxillo-facial injuries.
119. Battle injuries of soft tissues of the face (perforating, tangential, nonperforating). Injury of lateral, middle and lower part of the face. Treatment in the stages of evacuation.
120. Principles of surgical treatment of soft tissue injuries of the face. Types of stitches. Technique of stitching. Complications.
121. Bleeding stop by injuries of vessels in patients with face and neck injuries in the stages of medical evacuation.
122. Gunshot maxillary fractures. Clinical signs. Diagnostics. Treatment. Help in stages of medical evacuation.
123. Gunshot mandibular fractures. Clinical signs. Diagnostics. Treatment. Help in stages of medical evacuation.
124. Gunshot fractures of zygomatic complex. Clinical signs. Diagnostics. Treatment. Help in stages of medical evacuation.
125. Gunshot fractures of alveolar process and teeth. Clinical signs. Diagnostics. Treatment. Help in stages of medical evacuation.
126. Orthopedic method of treatment of jaw injuries with defects. Types of apparats. Indications for use.
127. Rendering first medical aid and before-medical assistance to the injured with maxillo-facial trauma.
128. Rendering first medical assistance to the injured with maxillo-facial trauma.
129. Rendering qualified medical assistance to the injured with maxillo-facial trauma.
130. Rendering specialized medical assistance to the injured with maxillo-facial trauma.
131. Thermal burns of face and neck. Classification. Clinical signs. Diagnostics. Treatment. Prognosis.
132. Chemical burns of face and neck. Classification. Clinical signs. Diagnostics. Treatment. Prognosis.

133. Combined injuries (mechanic and radiation). Peculiarities of flow and treatment of injuries in peacefull and war time.
134. Associated injuries of maxillo-facial area. Peculiarities of flow and treatment of injuries in peacefull and war time.
135. Therapeutic physical training and physiotherapy by treatment of patients with maxillo-facial trauma. Care of patients with face and neck injuries. Methods of feeding. Types of diets.

**List of questions for the final control in the discipline of "surgical dentistry" for 4th year students of the dental faculty (8 semestr)**

1. Organization of treatment and dispensary for the patients with the tumors of face and neck.
2. Classification of tumors of maxillo-facial region.
3. TNM classification of malignant tumors of face and neck.
4. Main methods of diagnostics of tumors in maxillo-facial region.
5. Additional methods of diagnostics of tumors in maxillo-facial region.
6. Types of morphologic investigation for tumors in maxillo-facial region. Biopsy.
7. Levels of diagnostics of tumors in maxillo-facial region.
8. Oncologic precaution. Syndrome of small signs of A.I.Savitsky.
9. Factors, which promote appearance of premalignancy.
10. Facultative premalignancy of maxillo-facial area. Classification. Clinical signs. Diagnostics. Treatment.
11. Obligatory premalignancy of maxillo-facial area. Classification. Clinical signs. Diagnostics. Treatment.
12. Differential diagnostics of benign and malignant tumors of maxillo-facial region.
13. Malignant tumors of facial skin: basale-cell carcinoma. Morphologic features. Clinical signs. Diagnostics and treatment.
14. Malignant tumors of facial skin: squamous-cell carcinoma. Morphologic features. Clinical signs. Diagnostics and treatment.
15. Differential diagnostics of basale-cell and squamous-cell carcinoma of facial skin.
16. Malignant tumors of facial skin: malignant melanoma. Morphologic features. Clinical signs. Diagnostics and treatment.
17. Malignant tumors of facial skin: fibrosarcoma. Morphologic features. Clinical signs. Diagnostics and treatment.
18. Cancer of lip. TNM. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
19. Cancer of tongue. TNM. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
20. Malignant tumors of organs of oral cavity. Cancer of cheek. Morphologic features. Clinical signs. Diagnostics and treatment.
21. Cancer of mucous membrane of oral cavity. TNM. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
22. Malignant tumors of organs of oral cavity. Cancer of floor of the mouth. Morphologic features. Clinical signs. Diagnostics and treatment.
23. Malignant tumors of salivary glands: mucoepidermoid tumor. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
24. Malignant tumors of salivary glands: cylindroma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
25. Malignant tumors of salivary glands: mucoepidermoid tumor. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
26. Malignant tumors of salivary glands: cylindroma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
27. Malignant tumors of salivary glands: carcinoma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
28. Malignant tumors of salivary glands: sarcoma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
29. Sarcoma of maxillo-facial region. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
30. Cancer of mucous membrane of mandible. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
31. Cancer of mucous membrane of maxilla. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
32. Main principles of surgical treatment of malignant tumors of maxillo-facial area.
33. Intensive therapy of malignant tumors of maxillo-facial area.
34. Operations on ways of regional metastasing of malignant tumors of maxillo-facial area. Wanah operation and upper cervical excision.
35. Operations on ways of regional metastasing of malignant tumors of maxillo-facial area. Krile operation and fascial excision.
36. Methods of operations on jaws in patients with malignant tumors.
37. Indications for radiotherapy in patients with malignant tumors.
38. Indications for chemotherapy in patients with malignant tumors.
39. Sequence of radiotherapy in patients with malignant tumors.
40. Sequence of chemotherapy in patients with malignant tumors.
41. Peculiarities of postoperative flow and care of oncostomatological patients. Control of breathing, cardiac work.

42. Peculiarities of postoperative flow and care of oncostomatological patients. Peculiarities of feeding.
43. Peculiarities of postoperative flow and care of oncostomatological patients. Care of tracheostoma.
44. Medical rehabilitation of patients with tumors of face, organs of oral cavity. Plastic closure of defects, dental prosthetics.
45. Medical rehabilitation of patients with tumors of jaws and neck. Plastic closure of defects, jaw prosthetics.

**6. Types of training sessions:** lecture, video lecture, practical lesson, consultation.
**7. Form of study:** full-time education.
**8. Methods of study:** verbal, explanatory and demonstration.
**9. Control methods:** oral, written, test.
**10. Forms of final control:** final control (exam, differential control and credit)
**11. Tools for diagnosing learning success:** questions for current control, tasks, tests.
**12. Language of instruction:english**.

## 13. Value system of student's academic performance in surgical dentistry

| Topic | Maximum of scores |
|---|---|
| Intensional module | *4 x 20 = 80* |
| Individual task | - |
| Credit | *120* |
| **General** | **200** |

notes: „5" – 20 scores, „4" – 17 scores, „3" – 13 scores, „2" – 0 scores.

**General estimation criteria of finale module control**

**Final test control** – 20 questions (20 minets). Every true answer – 2 scores.

**Criteria of estimation for discipline (subject):**

„5"A – 180-200 scores, „4"B – 170-179 scores, „4"C – 160-169 scores, „3"D – 141-159 scores, „3"E – 122-140 scores, „2"FX – 72-121 scores, „2"F – 1-71 scores

## Compliance with the scales for assessing the quality of learning material

The grade in the discipline "Surgical Dentistry" is set on a 200-point scale and is defined as the sum of grades of current educational activities in points (maximum number of points - 80) and grades of final control (maximum number of points - 120). **Credits are credited for the studied discipline provided that the student accumulates 122 points** (which corresponds to the minimum value of the E grade on the ECTS Scale).

## Assessment of knowledge in the discipline is carried out taking into account the relevant scales:

| Score in points | Score on a national scale | ECTS Scale | |
|---|---|---|---|
| | | Score | Explanation |
| 180 – 200 | Perfectly | A | Perfectly (excellent performance with only a small number of inaccuracies) |
| 170 – 179 | Good | B | Very good (above average with a few minor errors) |
| 160 – 169 | | C | Good (generally correct execution with a small number of significant errors) |
| 141 – 159 | Satisfactorily | D | Satisfactorily (not bad, but with a |

| | | | |
|---|---|---|---|
| | | | significant number of shortcomings) |
| 122 – 140 | | E | Enough (performance meets minimum criteria) |
| | Unsatisfactorily | FX | Unsatisfactorily (with the possibility of re-assembly) |
| | | F | Unsatisfactorily (with mandatory re-study of the discipline) |

Upon receiving an unsatisfactory grade in the discipline within 72-121 points (FX), the student has the right to retake it: once to the departmental commission with the participation of the head of the department, the last time - the commission with the participation of the head of the department and the dean's office.

Upon receiving an unsatisfactory grade in the discipline within 1-71 points (F), the student is obliged to re-study it. The decision is made by the management of NMU in accordance with the regulations approved in the prescribed manner.

## 14. Course policy

The policy of the course is carried out according to the Law "On Higher Education" from 01.07.2014 № 1556-VII; Charter of VNMU. MI Pirogov, Rules of Procedure of VNMU, Regulations on the organization of the educational process in VNMU. MI Pirogov, the Code of Academic Integrity, Security Regulations on the procedure for training and testing of knowledge

## 15. List of educational and methodical literature


1. Peterson's Principles Of Oral & Maxillofacial Surgery, Third Edition - 2 Vol. Set (Hb) 2011
2. Atlas of Oral and Maxillofacial Surgery (Deepak Kademani, Paul Tiwana) 2015
3. Contemporary Oral and Maxillofacial Surgery (James R. Hupp DMD MD JD MBA, Myron R. Tucker DDS, Edward Ellis III DDS MS) 2018
4. Oral and Maxillofacial Surgery Review: A Study Guide (Perfect for Board Review) (Inglés) Tapa blanda – 9 Julio 2015 (Din Lam, Daniel Laskin)
5. Oral and Maxillofacial Surgery Secrets (A. Omar Abubaker DMD PhD, Din Lam DMD MD) 2015
6. Oral Surgery for Dental Students: A Quick Reference Guide 1st Edition, (Jeffrey A. Elo, Alan S. Herford) 2019
7. Surgical Approaches to the Facial Skeleton (Edward Ellis III DDS, Michael F. Zide DDS) 2018


## Information resources

Website of the department – http://www.vnmu.edu.ua/%D0%BA%D0%B0%D1%84%D0%B5%D0%B4%D1%80%D0%B0-%D1%85%D1%96%D1%80%D1%83%D1%80%D0%B3%D1%96%D1%87%D0%BD%D0%BE%D1%97-%D1%81%D1%82%D0%BE%D0%BC%D0%B0%D1%82%D0%BE%D0%BB%D0%BE%D0%B3%D1%96%D1%97

Library website – http://library.vsmu.edu.ua/

Email address of departments – surg.stom@vnmu.edu.ua

**Discussed and recommended at a meeting of the Department of Surgical Dentistry and Maxillofacial Surgery VNMU. M.I. Pirogov** Protocol № 1 dated 27 August 2020

Head of the Department of Surgical Dentistry and maxillofacial surgery — signature — Prof. Shuvalov S.M. surname and initials

Lecturer of the Department of Surgical Dentistry and maxillofacial surgery — signature — ass. prof. Polishchuk S. S. surname and initials