

**Vinnitsia 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) - 9 and 10**

The volume of the module for the 9th semester: the total number of hours - 150 of them lectures - 20, practical classes - 74, independent work - 56, ECTS credits – 5,0

The volume of the module for the 10th semester: the total number of hours - 150 of them lectures - 20, practical classes - 74, independent work - 56, ECTS credits - 5.0

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 5 courses (9 semester)

№	The name of a theme of practical employment	Hours
1.	<b>Classroom work</b> Introductory lesson. Writing the case history.	3
2.	<b>Classroom work</b> Neuralgia and neuritis of n.trigeminus. Etiology, pathogenesis, clinical signs, diagnostics and treatment. Surgical treatment of pain syndromes: neuralgia, neuritis in maxillo-facial region.	3
3.	<b>Classroom work</b> Neuritis and traumatic injuries of n.facialis. Methods of diagnostics and treatment. Palsy of mimic muscles: etiology, diagnostics, clinical signs, treatment, results. Facial atrophy: etiology, diagnostics, clinical signs, treatment.	3
4.	<b>Classroom work</b> Arthritis, arthrosis, dysfunction of TMJ. Etiology, pathogenesis, classification, clinical signs, diagnostics, treatment, prevention. Arthroscopy (endoscopy), its possibilities in TMJ treatment.	4
	<b>Home work</b> Dysfunction of TMJ with pain syndrome.	6
5.	<b>Classroom work</b> Temporo-mandibular joint ankylosis, muscular reflex contracture: etiology, pathogenesis, classification, clinical signs, diagnostics, treatment, prevention.	4
	<b>Home work</b> Surgical methods of treatment of TMJ diseases, plastic surgery of TMJ.	6
6.	<b>Classroom work</b> Surgical methods in complex treatment of parodontium diseases. Indications, technique, materials for bone replacement.	4
7.	<b>Classroom work</b> Surgical preparation of oral cavity for the dental prosthetics.	4
	<b>Home work</b> Surgical methods of treatment of mandibular contraction.	6
8.	<b>Classroom work</b>	4

	Dental and maxillofacial implantation. Biologic basis of dental implantation. Types of implants. Surgical stages of dental implantation. Preparation of alveolar process for implantation. Results, complications of dental implantation, their treatment.	
9.	<b>Classroom work</b> Purpose and tasks of reconstructive maxillofacial surgery. Planning of reconstructive operations, preparation of the patient.	4
10.	<b>Classroom work</b> Plastic with local tissues. Indications, technique of operation.	4
	<b>Home work</b> Plastic surgery of soft tissues in maxillofacial area with local flaps. Plastic surgery of soft tissues in maxillofacial area with pedicled flaps.	6
11.	<b>Classroom work</b> Plastic with pedicle flap. Indications, technique of operation.	4
12.	<b>Classroom work</b> Plastic with a tube skin graft by V.P.Filatov. Indications, technique of operation.	4
	<b>Home work</b> Plastic surgery of soft tissues in maxillofacial area with Filatov's tube skin graft.	6
13.	<b>Classroom work</b> Biological principles and methods of transplantation of bone and chondral grafts. Free transplantation of tissues. Skin and bone grafting. Free transplantation of combined grafts. Results and complications.	4
	<b>Home work</b> Plastic surgery of soft tissues in maxillofacial area with free skin flaps.	6
14.	<b>Classroom work</b> Plastic of perioral area. Postoperative deformations of upper lip. Indications, technique of operation.	4
15.	<b>Classroom work</b> Microsurgery in practice of maxillofacial surgery: pieces with axial vessel drawing, types, advantages, disadvantages. Indications, technique of operation.	4
	<b>Home work</b> Microsurgery of tissues in maxillofacial area.	6
16.	<b>Classroom work</b> Anomalies of development and deformities of jaws. Development of cranio-maxillo-facial deformations. Clinical signs, diagnostics, functional and esthetic disorders. Indications for operation. Technique of operation. (Orthognathic surgery)	4
	<b>Home work</b> Plastic surgery of bone tissues in maxillofacial area, bone autografting.	8
17.	<b>Classroom work</b> Contour plastic for correction of face and jaw form. Indications, technique of operation. Peculiarities of treatment of hypertrophic scars on the face.	4
	<b>Home work</b> Regeneration of tissues. Biological basis of osteogenesis.	6
18.	<b>Classroom work</b> Cosmetic operations on the face and neck. Wrinkles: etiology, clinical signs, diagnostics, methods of treatment. Defense of case history. Final lesson (computer control).	3
19.	<b>Classroom work</b> Therapeutic physical training, physiotherapy in complex of rehabilitation measures for surgical patients. Labour examination at diseases of maxillofacial area.	3
20.	<b>Classroom work</b> Final control.	3
	Classroom work	74
	Independent work	56
	Lectures	20
	At all.	150

#### CONTENT OF THE DISCIPLINE

##### Subjects of practical employment for the students of 5 courses (10 semester)

№	The name of a theme of practical employment	Hours
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1.	<b>Classroom work</b> Principles of organizational structure of surgical in-patient and out-patient department. Hygienic requirements. Equipment. Medical documentation. Principles of dispensarization. Prescribing referrals for hospitalization and consultation with related specialists.	3
2.	<b>Classroom work</b> Methods of patient examination. Indications and contraindications for local and general anesthesia. Technique of all types of infiltrative and nerve block anesthesia. Trigeminal sympathetic block. Prescribing local anesthetics.	3
3.	<b>Classroom work</b> Local and general complications of all types of anesthesia. Prevention and management of medical emergencies. Basic features of medical emergencies in in-patient and out-patient department. Cardio-pulmonary resuscitation. Tracheotomy. Bleeding stop. Hospital care in urgent situations. Prescribing prescriptions for antihistamines, hormones.	3
4.	<b>Classroom work</b> Indications, contraindications for operation of tooth extraction. Local and general complications during and after tooth extraction, prevention and treatment. Technique of extraction of teeth and impacted teeth in all areas of jaws. Care of oral cavity after tooth extraction. Operations on alveolar processes (apexectomy, hemisection, corona-radicular separation, root amputation, replantation of tooth). Surgical methods in treatment of parodontium diseases. Indications and technique of curettage, gingivotomy, gingivectomy, radical operation. Reading radiographs and CT scans.	4
	<b>Home work</b> Biological bases of implantation of artificial teeth. Preparing the alveolar process to implantation. Methods and materials.	6
5.	<b>Classroom work</b> Temporomandibular joint diseases. Arthritis and arthrosis of temporomandibular joint. TMJ dysfunction. Pain syndrome. Ankylosis of TMJ. Plastic surgery of TMJ. Jaw contracture and dislocations of mandible. Diagnostics, surgical and physiotherapeutic treatment.	4
6.	<b>Classroom work</b> Modern understanding of the etiology and pathogenesis of acute inflammatory processes in maxillofacial area and neck (interaction of microorganisms and macroorganism, the role of microorganisms). Clinical indicators in assessing the general condition of the patient. Age factors.	4
7.	<b>Classroom work</b> Modern principles of therapy of inflammatory diseases, indications for surgical treatment. Differential diagnosis of abscesses of different localization in the maxillofacial area. Features of the incisions on the face and in the mouth considering the anatomical localization of abscess and anatomical areas, drainage of purulent cavities. Prescription of antibacterial drugs, non-steroidal anti-inflammatory drugs, local anesthetics.	4
8.	<b>Classroom work</b> Specific inflammatory diseases of maxillofacial area: differential diagnostics and treatment. Complications and mistakes in the differential diagnosis and treatment of inflammatory diseases of the maxillofacial area and their prevention. Reading radiographs and CT scans.	4
9.	<b>Classroom work</b> Clinical and differential diagnosis of inflammatory and dystrophic diseases of salivary glands: epidemic and non-epidemic parotitis. Sialolithiasis. Mikulicz and Sjogren's diseases. Peculiarities of examination of patients with diseases of the salivary glands. Treatment of sialadenitis, sialodochitis (flushing technique of salivary glands through ducts, removing calculus from ducts in the mouth, postoperative management of the patient).	4
10.	<b>Classroom work</b> Basic principles of general treatment of inflammatory processes in maxillofacial area. The selection and foundation of the treatment. Place of physiotherapeutic treatment in the complex treatment of inflammation of the face and neck. Prescription of antibacterial drugs, non-steroidal anti-inflammatory drugs, local anesthetics.	4
	<b>Home work</b> Soft tissue regeneration in concomitant pathology.	6
11.	<b>Classroom work</b> Examination of patients with injuries of soft tissues and bones of the face. Symptoms, diagnosis and treatment of damaged soft tissues of the face. Detection of combined damage, assessment of local and neurological status, urgent care. The early and late complications of mechanical trauma	4

	(general, local), causes, prevention, treatment. Reading radiographs and CT scans.	
	<b>Home work</b> Place of osteosynthesis in facial bone injuries.	6
12.	<b>Classroom work</b> Mandibular and maxillary fractures. Clinical signs, diagnostics, general principles of treatment. Temporary and permanent methods of fixation of mandibular and maxillary fractures. Making the system of splints. Indications for osteosynthesis. Technique. Treatment of fractures of the jaws during medical evacuation. Diagnosis and reduction of the lower jaw dislocation. Reading radiographs and CT scans.	4
	<b>Home work</b> Healing of mandibular fractures in liver disease.	6
13.	<b>Classroom work</b> Ballistic damage of soft tissues and bones of the face. Peculiarities of primary surgical treatment of the injuries and defects of the face. Various types of sutures (primary, secondary, delayed, guiding, unloading etc.), plastics with local tissues, free transplantation of tissues. Preventing the formation of rough scars, deformities. Assistance during medical evacuation. Reading radiographs and CT scans.	4
	<b>Home work</b> Distraction-compression method. Biological principles, equipment, methods.	6
14.	<b>Classroom work</b> Combined (mechanical and radiation) lesions. Burns. Symptoms, diagnosis and treatment. Physical therapy in treatment of maxillofacial injuries.	4
15.	<b>Classroom work</b> Radiological diagnosis of damage of the facial skeleton. Complex treatment of lesions of the jaws. Maxillofacial tissue regeneration. Plastic after traumatic injuries of the face. Transplantation of organs and tissues. The main complex of histocompatibility, RTPH and RHPT. Basic methods of prevention of transplant rejection. Reading radiographs and CT scans.	4
	<b>Home work</b> Osteointegration. Osteogenic, osteoinductive, osteoconductive and bone replacement materials.	6
16.	<b>Classroom work</b> Modern aspects of the biological nature of the tumor, blastomatosis factors and causes that contribute to the occurrence of tumors of the face and mouth. The principles of classification of tumors. Organizational principles of oncology. Place of dental oncology in the organization of anticancer service. Clinical examination of patients with precancerous diseases and tumors of the face and mouth. Morphological features, clinical manifestations, diagnosis and treatment of patients with benign, precancerous and malignant tumors of the face and mouth. Clinical and additional methods of examination of oncostomatological patient: imprint, sample of the tumor surface, cytology, diagnostic puncture, biopsy technique.	4
17.	<b>Classroom work</b> Technique of cystotomy and cystectomy. Removal of tumors on skin and in oral cavity. Principles of surgical, radiologic and combined treatment of malignant tumors, which depend on the stage of the tumor. Reading radiographs and CT scans.	4
	<b>Home work</b> Periodontal surgery. Directed bone regeneration. Membrane technique.	6
18.	<b>Classroom work</b> Indications and contraindications to the reconstructive surgery of face. Planning of reconstructive operations, general and local preparation of the patient. Theoretical foundations of plastic with local tissues, taken next to the defect, pedicled flap, taken near the defect and remote areas. The possibility of using plastic with local tissues for the replacement of defects formed after removal of tumors and in the surgical treatment of wounds. Technology of extension of tight lips and tongue frenulum, eliminating scars in the oral cavity, etc.	3
	<b>Home work</b> Plastic treatment of salivary gland fistulas.	6
19.	<b>Classroom work</b> Modern aspects of free transplantation of organs and tissues. Biological processes that occur with the free transplantation. Iso-, allo-, xenotransplantation. The concept of tissue incompatibility and transplantation immunity. The principle of overcoming the barrier of tissue incompatibility. Indications for free skin, cartilage, bone grafts. Methods of surgical treatment of bone deformities of the face (prognathism, micrognathia, lower prognathism, open bite). Place of surgical therapies in the treatment of patients with deformities of tooth-jaw system.	3

	<b>Home work</b> Dental implantation. The current state of the problem.	8
20.	<b>Classroom work</b> Credit.	3
	Classroom work	74
	Independent work	56
	Lectures	20
	At all.	150

**Topic of lectures for medical faculties (9 semester)**

№	Topic of lectures	Duration	Lector
1.	Plastic and reconstructive surgery: definition, task, achievements.	2,0	Prof. Shuvalov S.M.
2.	Principles of planning of plastic operations. Types of plastic surgery, flaps.	2,0	Prof. Shuvalov S.M.
3.	Plastic with local tissues. Grafting of tissues with saving of vessel connections.	2,0	Prof. Shuvalov S.M.
4.	Transplantation of skin and soft tissues without saving of blood circulation. Free tissue grafting.	2,0	Prof. Shuvalov S.M.
5.	Plastic with tube skin graft by V.P.Filatov. Bone plastics of mandible. Indications and operation technique.	2,0	Prof. Shuvalov S.M.
6.	Surgical treatment of facial and jaw defects. Bone grafting of the lower jaw. Types of flaps. Microsurgical technique, possibilities of its use in surgery of the face and jaws.	2,0	Prof. Shuvalov S.M.
7.	Surgical preparation of oral cavity for dental prosthetics. Types of surgical interventions. Indications for conducting. Technique of operations.	2,0	Prof. Shuvalov S.M.
8.	Dental and maxillofacial implantation. Indications and contraindications for its implementation.	2,0	Prof. Shuvalov S.M.
9.	Surgical methods of treatment of parodontium diseases.	2,0	Prof. Shuvalov S.M.
10.	Place of vestibuloplasty in treatment of parodontium diseases.	2,0	Prof. Shuvalov S.M.

**Topic of lectures for medical faculties (10 semester)**

№	Topic of lectures	Duration	Lector
1.	Local anesthesia in the practice of a dental surgeon.	2,0	Prof. Shuvalov S.M.
2.	Surgical treatment of periodontal diseases.	2,0	Prof. Shuvalov S.M.
3.	Differential diagnosis of various forms of periodontitis, periostitis and osteomyelitis.	2,0	Prof. Shuvalov S.M.
4.	The current state of the problem of treatment of patients with inflammatory processes of the face and their complications.	2,0	Prof. Shuvalov S.M.
5.	The current state of the problem of plastic surgery of the face.	2,0	Prof. Shuvalov S.M.
6.	Diseases of the temporomandibular joint (dysfunction of the temporomandibular joint, pain syndrome). A modern approach to diagnosis and treatment.	2,0	Prof. Shuvalov S.M.
7.	Traumatology of the maxillofacial area. Methods for diagnosing and stopping bleeding. Intensive therapy.	2,0	Prof. Shuvalov S.M.

8.	Modern methods of diagnosis and treatment of fractures of the bones of the facial skeleton.	2,0	Prof. Shuvalov S.M.
9.	Gunshot wounds of the maxillofacial region. Features of the clinic, diagnosis and treatment.	2,0	Prof. Shuvalov S.M.
10.	The current state of the problem of treatment of oncological processes in the maxillofacial region.	2,0	Prof. Shuvalov S.M.

**List of topics for independent work of students (9 semestr)  
5 courses in the study of surgical dentistry**

Name topics	Number of hours
Surgical methods of treatment of TMJ diseases, plastic surgery of TMJ.	6
Dysfunction of TMJ with pain syndrome.	6
Surgical methods of treatment of mandibular contraction.	6
Plastic surgery of soft tissues in maxillofacial area with local flaps. Plastic surgery of soft tissues in maxillofacial area with pedicled flaps.	6
Plastic surgery of soft tissues in maxillofacial area with Filatov's tube skin graft.	6
Plastic surgery of soft tissues in maxillofacial area with free skin flaps.	6
Microsurgery of tissues in maxillofacial area.	6
Regeneration of tissues. Biological basis of osteogenesis.	6
Plastic surgery of bone tissues in maxillofacial area, bone autografting.	8
At all	56

**List of topics for independent work of students (10 semestr)  
5 courses in the study of surgical dentistry**

Name topics	Number of hours
Biological bases of implantation of artificial teeth. Preparing the alveolar process to implantation. Methods and materials.	6
Osteointegration. Osteogenic, osteoinductive, osteoconductive and bone replacement materials.	6
Periodontal surgery. Directed bone regeneration. Membrane technique.	6
Plastic treatment of salivary gland fistulas.	6
Distraction-compression method. Biological principles, equipment, methods.	6
Place of osteosynthesis in facial bone injuries.	6
Soft tissue regeneration in concomitant pathology.	6
Healing of mandibular fractures in liver disease.	6
Dental implantation. The current state of the problem.	8
At all	56

**List of questions for the final control in the discipline of "surgical dentistry"  
for 5th year students of the dental faculty (9 semestr)**

1. Indications for plastic surgery.
2. The role of native scientists in the development of reconstructive facial surgery.
3. Main principles, methods and types of plastic procedures on face and jaws.
4. Skin plastic with local tissues (according to Yu.K. Szimanovski).
5. Planning of surgery (according to O.O. Limberg).
6. Elimination of defects of nose, lips, cheeks, chin with local tissues.
7. Elimination of defects of nose, lips, cheeks, chin with pedicled flaps.
8. The history of occurrence of tube skin graft of Filatov.
9. Tube skin graft of Filatov and its application in restorative surgery of face.
10. Stages of operation of Filatov. The donor sites.
11. Free tissue grafting in operations in maxillofacial area.
12. Types of skin grafts, their advantages and disadvantages.
13. Types of deformities of maxilla and mandible.



14. Surgical methods of treatment of deformities of maxilla and mandible.
15. Bone grafting of jaws: biological basis.
16. Microsurgery and flaps with axial vessel in the treatment of defects and deformities of facial tissues.
17. Surgical preprosthetic preparation of oral cavity. Types of surgical procedures and indication for them.
18. Dental implantation. Classification of operations.
19. Dental implantation. Classification of implants.
20. Dental implantation. Types of surgical procedures and indications for them.
21. Maxillofacial implantation. Classification. Types of surgical procedures and indications for them.
22. Injuries of facial nerve. Clinical signs, diagnostics.
23. Treatment of paresis and paralysis of mimic muscles.
24. Arthritis of temporomandibular joint. Classification, clinical signs.
25. Arthritis of temporomandibular joint. Diagnostics and treatment.
26. Ankylosis of temporomandibular joint. Classification, clinical signs.
27. Ankylosis of temporomandibular joint. Diagnostics and treatment.
28. Contraction of mandible. Clinical signs, diagnostics and treatment.
29. Surgical methods in complex treatment of parodontitis.
30. Injuries of trigeminal nerve. Neuritis, neuralgia. Clinical signs, diagnostics and treatment.

**List of questions for the final control in the discipline of "surgical dentistry"  
for 5th year students of the dental faculty (10 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 apsectomy. 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. Pathological anatomy. Classification. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Complications. Prognosis.
54. Acute odontogenic osteomyelitis of the jaws. Pathological anatomy. Clinical findings. Diagnostics. Differential diagnostics. Treatment. Complications. Prognosis.
55. Chronic odontogenic osteomyelitis of the jaws. Pathological 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. Classification. Etiology. Pathogenesis. Ways of infection spreading. 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. Pathological 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. Furuncle, 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. Siberian 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. Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
86. Acute inflammation of salivary glands (sialoadenitis). Etiology. Pathogenesis. Clinical findings (enumerate main symptoms). Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
87. Chronic parenchymatous sialadenitis. Etiology. Pathogenesis. Classification. Clinical findings. Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
88. Chronic interstitial sialadenitis. Etiology. Pathogenesis. Classification. Clinical findings. Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
89. Sjogren and Mikulich syndrome and disease. Etiology. Pathogenesis. Clinical findings. Pathological anatomy. Diagnostics. Differential diagnostics. Treatment. Prognosis.
90. Calculous disease of salivary glands. Etiology. Pathogenesis. Clinical findings. Pathological 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.
136. Organization of treatment and dispensary for the patients with the tumors of face and neck.
137. Classification of tumors of maxillo-facial region.
138. TNM classification of malignant tumors of face and neck.

139. Main methods of diagnostics of tumors in maxillo-facial region.
140. Additional methods of diagnostics of tumors in maxillo-facial region.
141. Types of morphologic investigation for tumors in maxillo-facial region. Biopsy.
142. Levels of diagnostics of tumors in maxillo-facial region.
143. Oncologic precaution. Syndrome of small signs of A.I.Savitsky.
144. Factors, which promote appearance of premalignancy.
145. Facultative premalignancy of maxillo-facial area. Classification. Clinical signs. Diagnostics. Treatment.
146. Obligatory premalignancy of maxillo-facial area. Classification. Clinical signs. Diagnostics. Treatment.
147. Differential diagnostics of benign and malignant tumors of maxillo-facial region.
148. Malignant tumors of facial skin: basale-cell carcinoma. Morphologic features. Clinical signs. Diagnostics and treatment.
149. Malignant tumors of facial skin: squamous-cell carcinoma. Morphologic features. Clinical signs. Diagnostics and treatment.
150. Differential diagnostics of basale-cell and squamous-cell carcinoma of facial skin.
151. Malignant tumors of facial skin: malignant melanoma. Morphologic features. Clinical signs. Diagnostics and treatment.
152. Malignant tumors of facial skin: fibrosarcoma. Morphologic features. Clinical signs. Diagnostics and treatment.
153. Cancer of lip. TNM. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
154. Cancer of tongue. TNM. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
155. Malignant tumors of organs of oral cavity. Cancer of cheek. Morphologic features. Clinical signs. Diagnostics and treatment.
156. Cancer of mucous membrane of oral cavity. TNM. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
157. Malignant tumors of organs of oral cavity. Cancer of floor of the mouth. Morphologic features. Clinical signs. Diagnostics and treatment.
158. Malignant tumors of salivary glands: mucoepidermoid tumor. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
159. Malignant tumors of salivary glands: cylindroma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
160. Malignant tumors of salivary glands: mucoepidermoid tumor. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
161. Malignant tumors of salivary glands: cylindroma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
162. Malignant tumors of salivary glands: carcinoma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
163. Malignant tumors of salivary glands: sarcoma. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
164. Sarcoma of maxillo-facial region. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
165. Cancer of mucous membrane of mandible. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
166. Cancer of mucous membrane of maxilla. Clinical signs. Diagnostics. Pathological anatomy. Treatment.
167. Main principles of surgical treatment of malignant tumors of maxillo-facial area.
168. Intensive therapy of malignant tumors of maxillo-facial area.
169. Operations on ways of regional metastasing of malignant tumors of maxillo-facial area. Wanah operation and upper cervical excision.
170. Operations on ways of regional metastasing of malignant tumors of maxillo-facial area. Krile operation and fascial excision.
171. Methods of operations on jaws in patients with malignant tumors.
172. Indications for radiotherapy in patients with malignant tumors.
173. Indications for chemotherapy in patients with malignant tumors.
174. Sequence of radiotherapy in patients with malignant tumors.
175. Sequence of chemotherapy in patients with malignant tumors.
176. Peculiarities of postoperative flow and care of oncostomatological patients. Control of breathing, cardiac work.
177. Peculiarities of postoperative flow and care of oncostomatological patients. Peculiarities of feeding.
178. Peculiarities of postoperative flow and care of oncostomatological patients. Care of tracheostoma.

179. Medical rehabilitation of patients with tumors of face, organs of oral cavity. Plastic closure of defects, dental prosthetics.
180. 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	$4 \times 20 = 80$
Individual task	-
Credit	120
<b>General</b>	<b>200</b>

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

Assessment of the history of the disease, the writing of which is provided during the study of the discipline is an assessment for 15 practical classes:

**5** scores – written methodically correct, without remarks;

**4** scores – written methodically correct, the sequence and content of sections are observed, but separate sections are insufficiently detailed;

**3** scores – there are comments on the detail and sequence of the description of the sections;

**2** scores – violated the scheme and rules of writing a medical history (in this case, the student must rewrite the medical history, taking into account the comments of the teacher).

#### 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.vnmdu.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@vnmdu.edu.ua](mailto:surg.stom@vnmdu.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 Shuvalov Prof. Shuvalov S.M.  
and maxillofacial surgery signature surname and initials

Lecturer of the Department of Surgical Dentistry Polishchuk ass. prof. Polishchuk S. S.  
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