Ministry of Healthcare of Ukraine
Poltava State Medical University
Department of Surgical Dentistry and Maxillofacial Surgery

«AGREED»

Guarantor of the educational-professional program “Dentistry”

_____ Olga SHESHUKOVA

“_____”__________2024

«APPROVED»

Chairman of the of scientific council the Dental Faculty

_____ Alla SYDOROVA

Minutes as of “__”__2024р. №1

SYLLABUS
Surgical dentistry

The discipline is normative

Module 3. Oncology of the maxillofacial region
Module 4. Traumatology of the maxillofacial region
Module 5. Reconstructive and reconstructive surgery of the maxillofacial region
Module 6. Subordination.

level of higher education	the second (master's) level of higher education
field of knowledge	22 "Health care"
specialty	221 "Dentistry"
educational qualification	Master of Dentistry
professional qualification	Dentist
educational and professional program form of education	"Dentistry" Full time
course(s) and semester(s) of study of the discipline	IV, V courses VII , VIII , IX , X semesters

" **APPROVED**"
at a meeting of the Department
of surgical dentistry and maxillofacial surgery
Head of the Department
_____ assoc. prof. Kateryna LOKES
Minutes as of 27.08.2024 № 1

Poltava – 2024

INFORMATION ABOUT TEACHERS WHO TEACH THE COURSE

Name , to father a teacher (teachers) , degree.	Avetikov D.S., Doctor of Medical Sciences, Professor Lokes K.P., Candidate of Medical Sciences, associate professor Skikevich M.G., Candidate of Medical Sciences, associate professor Ivanyts'ka O.S., Candidate of Medical Sciences, associate professor Stavitskiy S.O., Candidate of Medical Sciences, associate professor Steblovskyi D.V., Candidate of Medical Sciences, associate professor Lychman Vitaliy Oleksandrovych, PhD, Assis. Prof.
Teacher's profile (s)	https://hirstom.pdmu.edu.ua/team
Contact tel.	(0532) 60-77-26
E- mail :	surgstom@pdmu.edu.ua
Page of the department on the PSMU website	https://hirstom.pdmu.edu.ua/

MAIN CHARACTERISTICS OF THE COURSE

The scope of the discipline (module)

IV course, module 3, 4.
Number of credits / hours -4.0 / 120, of which:
Lectures (hours) - 10
Seminars (hours) - __
Practical classes (hours) - 70
Independent work (h). - 40
Type of control:
Module 3 - Final modular control.
Module 4 - Semester final certification.

V course, module 5, 6.
Number of credits / hours - 10.0 / 300, of which:
Lectures (hours) - 18
Seminars (hours) - ___
Practical classes (hours) - 140
Independent work (h). - 142
Type of control:
Final modular control

Course policy

The policy of the discipline is determined by the requirements that researchers and practitioners impose on students in the study of disciplines Module 3 Oncology of the maxillofacial region, Module 4. Traumatology of the maxillofacial region, Module 5. Reconstructive and reconstructive surgery of the maxillofacial region, Module 6. Subordination based on university integrity measures.

Applicants for higher education are obliged to fully master the knowledge, skills, practical skills and competencies in the discipline "Surgical Dentistry", adhering to the principles of university integrity - Code of University Integrity of the PSMU (https://www. pdmu.edu. storage / department-npr / docs_links / xugb1mKV2PTYPLLu13JtfSgoV7Kpv9CzhulKT0rP.pdf)

Adherence to university integrity involves:

- Independent performance of educational tasks
- Compliance with copyright law
- Providing reliable information about the results of initial and scientific activities

Violation of university integrity is: university plagiarism, self-plagiarism, falsification, write-off, bribery. For violation of university integrity, students may be prosecuted in accordance with regulations.

The presence of higher education students in all types of classes is mandatory (except for good reasons), late for classes are not allowed!

When organizing the educational process in PSMU teachers and students act in accordance with:

Regulations on the organization of the educational process in the PSMU (https://www. pdmu.edu.ua/storage/department-npr/docs_links/it6y8Ool7e0QpuZi81UV7nX9G0xH5vTSKecxkqIy.pdf)

Description of the discipline (abstract)

Discipline "Surgical Dentistry" studies the clinic and diagnosis of surgical diseases of the face and neck, diseases of the temporomandibular joint, facial bones; tumors and tumor-like formations of the relevant region; traumatic injuries of teeth, organs of the oral cavity, face and neck, bones of the facial skeleton which require comprehensive treatment.

Prerequisites and postrequisites of the discipline (interdisciplinary links)

Module 3 and module 4 - are based on previous study of human anatomy by students; histology, embryology and cytology, medical biology, medical chemistry, biological and bioorganic chemistry, medical physics, microbiology, virology and immunology and integrates with these disciplines, as well as in the study of

propaedeutic disciplines of dental profile: propaedeutics of surgical dentistry, propaedeutics of surgical dentistry and pediatric therapeutic dentistry and integrates with these disciplines .

Module 5 and module 6 - are based on previous study of human anatomy by students; histology, embryology and cytology, medical biology, medical chemistry, biological and bioorganic chemistry, medical physics, microbiology, virology and immunology and integrates with these disciplines, as well as in the study of propaedeutic disciplines of dental profile: propaedeutics of surgical dentistry, propaedeutics of surgical dentistry and pediatric therapeutic dentistry and integrates with these disciplines .

The purpose and objectives of the discipline :

(Modules 3 and 4)

The purpose of studying the discipline is

- Master the methods of examination of a patient with surgical pathology of the maxillofacial region.
- Learn to draw up a survey of thematic patients.
- To study the features of the etiology and pathogenesis of tumors and tumor-like tumors, traumatic injuries of the maxillofacial region.

At AIN task pit study course is

- Analyze the basic principles of treatment and prevention of diseases of the maxillofacial region on an outpatient basis and in the hospital.
- Examine the reporting documentation of the dental surgeon.

(Modules 5 and 6)

The purpose of studying the discipline is

- Know the methods of examination of a patient with surgical pathology of the maxillofacial region.
- Be able to draw up a scheme of examination of thematic patients.
- Know the features of the etiology and pathogenesis of tumors and tumor-like tumors, traumatic injuries of the maxillofacial region.

The main tasks of studying the discipline are

- Analyze the basic principles of treatment and prevention of diseases of the maxillofacial region on an outpatient basis and in the hospital.
- Examine the reporting documentation of the dental surgeon.

Competences and learning outcomes in accordance with the educational and professional program , the formation of which is facilitated by the discipline (integral, general, special)

In accordance with the requirements of the Standard, the discipline provides students with the acquisition of competencies :

integral:

Ability to solve problems and problems in the field of health care in the specialty "Dentistry" in a professional activity or in the learning process, which involves research and / or innovation.

general:

1. Ability to abstract thinking, analysis and synthesis.
2. Knowledge and understanding of the subject region and understanding professional activity.
3. Ability to apply knowledge in practice.
4. Ability to communicate in the state language both orally and in writing.
5. Ability to communicate in
6. English.Skills in the use of information and communication technologies.
7. Ability to search, process and analyze information with various sources.
8. Ability to adapt and act in a new situation.
9. Ability to identify, pose and solve problems.
10. Ability to be critical and self-critical.
11. Ability to work in a team.
12. Ability to act socially responsibly and consciously.
13. Ability to exercise their rights and responsibilities as a member society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.

- special (professional, subject):

1. Ability to collect medical information about the patient and analyze clinical data.
2. Ability to interpret the result of laboratory and instrumental research.
3. Ability to diagnose: determine the previous, clinical, final, concomitant diagnosis, emergencies.
4. Ability to plan and implement prevention activities diseases of organs and tissues of the oral cavity and maxillofacial region.
5. Ability to design the process of providing medical care: identify approaches, plan, types and principles of treatment diseases of organs and tissues of the oral cavity and maxillofacial region.
6. Ability to determine a rational mode of operation, rest, diet in patients in the treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.
7. Ability to determine the tactics of management of patients with diseases of organs and tissues of the oral cavity and maxillofacial region with concomitant physical illness.
8. Ability to perform medical and dental manipulation.

9. Ability to organize and conduct screening examination in dentistry.
10. Ability to assess the impact of the environment on state of health of the population (individual, family, population).
11. Ability to maintain regulatory medical records.
12. Processing of state, social and medical information.

Program learning outcomes:

1. Identify and identify the leading clinical symptoms and syndromes (according to list 1) by standard methods, using preliminary patient history, patient examination data, knowledge of the person, his organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of dental disease.

2. Collect information about the general condition of the patient, assess the psychomotor and physical development of the patient, the condition of the maxillofacial region, based on the results of laboratory and instrumental studies to assess information about the diagnosis.

3. Assign and analyze additional (mandatory and optional) methods of examination (laboratory, radiological, functional and / or instrumental) according to list 5, patients with diseases of organs and tissues of the oral cavity and maxillofacial region for differential diagnosis of diseases.

4. Determine the final clinical diagnosis in accordance with the relevant ethical and legal norms, by making an informed decision and logical analysis of subjective and objective data of clinical, additional examination, differential diagnosis under the supervision of a physician-manager in a medical institution.

5. To diagnose emergencies under any circumstances (at home, on the street, in a medical institution), in an emergency, martial law, lack of information and limited time.

6. Plan and implement measures to prevent dental diseases among the population to prevent the spread of dental diseases.

7. Analyze the epidemiological situation and carry out measures of mass and individual, general and local drug and non-drug prevention of dental diseases.

8. To determine the approach, plan, type and principle of treatment of dental disease by making an informed decision according to existing algorithms and standard schemes.

9. Determine the nature of work, rest and the necessary diet in the treatment of dental diseases on the basis of preliminary or final clinical diagnosis by making an informed decision according to existing algorithms and standard schemes.

10. To determine the tactics of managing a dental patient with somatic pathology by making an informed decision according to existing algorithms and standard schemes.

11. Carry out treatment of major dental diseases according to existing algorithms and standard schemes under the control of a doctor-manager in a medical institution.

12. Determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances on the basis of a diagnosis of emergency in a limited time.

13. Analyze and evaluate state, social and medical information using standard approaches and computer information technologies.

14. Assess the impact of the environment on the health of the population in a medical institution by standard methods.

15. Form goals and determine the structure of personal activities based on the results of the analysis of certain social and personal needs.

16. To be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general cultural level.

17. Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

18. To organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

19. Perform medical manipulations on the basis of preliminary and / or final clinical diagnosis for different segments of the population and in different conditions.

20. Perform medical dental manipulations on the basis of preliminary and / or final clinical diagnosis for different segments of the population and in different conditions.

21. Perform manipulations of emergency medical care, using standard schemes, under any circumstances on the basis of a diagnosis of emergency (according to list 4) in a limited time.

22. Develop measures for the organization, integration of dental care and marketing of medical services, including dental services in the functioning of the health care institution, its unit, in a competitive environment.

Learning outcomes for the discipline:

Module 3 "Oncology of the maxillofacial region"

students must

know:

1. The concept of tumors.
2. Classification of tumors of the maxillofacial region. Spread. International Classification of Tumors.
3. Theories of carcinogenesis, the role of the immune system, exogenous factors in the development of malignant neoplasms.
4. The role and tasks of the dentist in the system of providing specialized care to patients with tumors of the thyroid gland. The value of early diagnosis.
5. Cancer caution as a system of concepts, knowledge and principles of organization of antitumor service.

6. Methods of examination of patients for the purpose of diagnosis of tumors, the role of modern methods of examination (radiological, radioisotope diagnosis, cytological, histological verification of tumors).
7. Stages of defeat according to the TNM system.
8. Clinical groups of cancer patients.
9. Precancerous diseases of the facial skin, red border of the lips, oral mucosa. Classification. Optional, obligatory forms.
10. Background diseases.
11. Clinical manifestations, methods of diagnosis, treatment.
12. Principles and methods of medical examination of patients with precancerous diseases of the face and oral organs.
13. Tumors of the skin.
14. Tumor-like processes.
15. Epidermal cyst of the jaws.
16. Odontogenic tumors.
17. Epithelial tumors and tumor-like lesions of the oral cavity and jaws.
18. Tumors of the salivary glands, their tumor-like lesions and cysts.
19. Soft tissue tumors.
20. Primary bone tumors and tumor-like lesions of the jaws.

be able:

1. Examine a patient with a tumor of the thyroid gland, diagnose and prescribe treatment.
2. Read and establish a preliminary diagnosis using additional research methods.
3. To help the patient with fainting, collapse, shock.
4. To help the patient with Quincke's edema, anaphylactic shock.
5. Perform artificial respiration and indirect heart massage.
6. Perform a puncture or take material for cytological or histological examination.

Module 4 "Traumatology of the maxillofacial region "

know:

1. Causes of injuries, its prevention, statistics of injuries of maxillofacial region of peacetime and wartime. Their classification.
2. Fractures of the bones of the facial skull.
3. Treatment of fractures of the lower and upper jaw, middle face.
4. Fractures of the chin bone and arch, chin complex.
5. Bone fractures and damage to the cartilage of the nose.
6. Bone regeneration.
7. Combined damage to the thyroid gland.
8. Surgical dentistry of extreme situations and military maxillofacial surgery.
9. Gunshot wounds to the face.
10. Bleeding, asphyxia, shock, secondary bleeding.

11. Gunshot wounds of the soft tissues of the face, bones of the facial skeleton.
12. Gunshot injuries of the upper and lower jaw, bones of the middle face.
13. Principles of organization of the stage-evacuation system of treatment of the wounded with Damage of the face and jaws.
14. Complications of gunshot wounds maxillofacial region, their prevention and treatment.
15. Thermal, chemical, radiation and combined Damage to the tissues of the thyroid gland.

be able:

1. Examine a patient with a trauma, establish a diagnosis and prescribe treatment.
2. To list and make on a model soft bandages which are used at damage of soft tissues of maxillofacial region.
3. Perform ligature ligation of teeth on the model by the method of Vilga.
4. Perform ligature ligation of teeth on the model by the method of Geikin .
5. Perform ligature ligation of teeth on the model according to the Ivy method.
6. Perform ligature ligation of teeth on the model according to the methods of the Leningrad Military Medical Academy.
7. Make a smooth tire bracket and determine the indications for its use.
8. Make a tire with hook hooks and determine the indications for its use.
9. Make a tire with a semester final certification cer bend and determine the indications for its use.
11. Make a tire with an inclined plane and determine the indications for its use.
12. Make a sling-like bandage and determine the indications for its use.
13. Read and establish a preliminary diagnosis on radiographs for the following pathology:
    a) traumatic injuries of teeth - dislocation and fracture;
    b) dislocations of the temporomandibular joint;
    c) damage to the bones of the facial skeleton (jaw, chin bone, nasal bones);
14. Be able to perform any type of local anesthesia in maxillofacial region.
15. Carry out a typical operation to remove teeth and their roots.

Module 5. «Reconstructive and reconstructive surgery of the maxillofacial region»

know:

1. Features of the structure of the temporomandibular joint in the age aspect.
2. Innervation and blood supply of the temporomandibular joint.
3. Biomechanics of the temporomandibular joint depending on the type of bite.
4. Classification of mandibular dislocations.
5. Clinic of anterior mandibular dislocation.
6. Clinic of posterior mandibular dislocation.
7. Diagnosis of mandibular dislocations.

8. Conservative methods of treatment of mandibular dislocation.
9. Surgical methods of treatment of mandibular dislocation
10. The etiology and pathogenesis of arthritis, arthrosis, arthritis , osteoarthritis temporomandibular joint.
11. Examination plan of a patient with acute and chronic arthritis, arthrosis-arthritis , arthrosis of the temporomandibular joint.
12. Classifications of arthritis, arthrosis-arthritis , arthrosis of the temporomandibular joint.
13. Clinical signs and methods of treatment of acute arthritis of the temporomandibular joint.
14. Clinical signs and methods of treatment of chronic arthritis of the temporomandibular joint.
15. Clinical signs and methods of treatment of arthrosis-arthritis of the temporomandibular joint.
16. Clinical signs and methods of treatment of arthrosis of the temporomandibular joint.
17. Schemes of treatment of patients with arthritis, arthrosis-arthritis , arthrosis of the temporomandibular joint.
18. Etiopathogenesis of mandibular contracture.
19. Types of mandibular contractures.
20. Clinical manifestations of mandibular contracture.
21. Diagnosis of mandibular contracture.
22. Methods of treatment of patients with mandibular contracture.
23. Surgical methods of treatment of patients with mandibular contracture.
24. Mechanotherapy and physiotherapy in the complex treatment of mandibular contracture.
25. Causes of recurrence of mandibular contracture. Methods of prevention.
26. Etiology and pathogenesis of different types of ankylosis of the temporomandibular joint.
27. Examination plan for a patient with ankylosis of the temporomandibular joint.
28. Classification of ankylosis of the temporomandibular joint.
29. Clinical signs of ankylosis of the temporomandibular joint.
30. The scheme of treatment of patients with ankylosis of the temporomandibular joint.
31. Methods of surgical treatment of ankylosis of the temporomandibular joint.
32. Etiology and pathogenesis of different types of temporomandibular joint dysfunction.
33. Clinical signs of temporomandibular joint dysfunction.
34. The scheme of treatment of patients with dysfunction of the temporomandibular joint.
35. Classification of defects and deformations of the maxillofacial region.
36. Planning of plastic and reconstructive operations.
37. Indications for plastic and reconstructive surgery.

38. Principles of reconstructive operations.
39. The mechanism of congenital and acquired cranial-maxillofacial deformities.
40. Clinical manifestations of fibrous dysplasia.
41. Clinical manifestations of Paget's disease.
42. Clinical manifestations of dysostosis (maxillofacial, maxillofacial, craniofacial).
43. Methods of diagnosis of craniomaxillary deformities.
44. Definition of "osteoplasty". Classification of osteoplastic materials.
45. Types of bone regeneration.
46. Advantages and disadvantages of using bone grafts.
47. Methods of using bone grafts in craniofacial surgery.
48. The use of cartilage grafts in craniofacial surgery.
49. The use of implants made of metal, silicone, plastics in craniofacial surgery.
50. Etiology and pathogenesis of mandibular deformities.
51. The main clinical signs of progeny.
52. The main clinical signs of macrogeny.
53. The main clinical signs of microgeny.
54. The main clinical signs of open occlusion.
55. The main clinical signs of the syndrome of I-II gill arches.
56. The sequence of examination of the general and local status of the patient with deformities of the mandible
57. Surgical methods of treatment of progeny.
58. Surgical methods of treatment of macrogeny.
59. Surgical methods of treatment of microgeny.
60. Surgical methods of treatment of open bite.
61. Surgical methods of treatment of the syndrome of I-II gill arches.
62. Etiology and pathogenesis of mandibular defects.
63. The sequence of examination of the general and local status of a patient with a defect of the mandible
64. Surgical methods of treatment of mandibular defects.
65. Etiology and pathogenesis of mandibular deformities.
66. The main clinical signs of macrognathia.
67. The main clinical signs of micrognathia.
68. The main clinical signs of open occlusion.
69. The main clinical signs of the syndrome of I-II gill arches.
70. Surgical methods of treatment of macrognathia .
71. Surgical methods of treatment of micrognathia .
72. Etiology and pathogenesis of upper jaw defects.
73. The main clinical signs of defects of the upper jaw.
74. The sequence of examination of the general and local status of a patient with a defect of the upper jaw
75. Surgical methods of treatment of defects of the upper jaw.

76. Classification of devices for compression-distraction osteosynthesis.
77. Mechanism of action of compression-distraction devices.
78. Technique of resection of the alveolar ridge.
79. Technique of frenulektomy
80. The concept of vestibuloplasty and its types.
81. Technique of vestibuloplasty .
82. Technique of tunnel vestibuloplasty .
83. Biological substantiation of osseointegration .

be able:

1. Examine a patient with a trauma, establish a diagnosis and prescribe treatment.
2. To list and make on a model soft bandages which are used at damage of soft tissues of maxillofacial region.
3. Perform ligature ligation of teeth on the model by the method of Vilga.
4. Perform ligature ligation of teeth on the model by the method of Geikin.
5. Perform ligature ligation of teeth on the model according to the Ivy method.
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7. Make a smooth tire bracket and determine the indications for its use.
8. Make a tire with hook hooks and determine the indications for its use.
9. Make a tire with a semester final certification bend and determine the indications for its use.
11. Make a tire with an inclined plane and determine the indications for its use.
12. Make a sling-like bandage and determine the indications for its use.
13. Read and establish a preliminary diagnosis on radiographs for the following pathology:

a) traumatic injuries of teeth - dislocation and fracture;
b) dislocations of the temporomandibular joint;
c) damage to the bones of the facial skeleton (jaw, chin bone, nasal bones);

Module 6. Subordination

know:

1. The scheme of treatment of patients with diseases of maxillofacial region.
2. The sequence of the patient's examination.
3. Principles of planned operations.

be able:

1. Be able to perform any type of local anesthesia in maxillofacial region.
2. Perform a typical operation to remove teeth and their roots.
3. To help the patient with fainting, collapse, shock.
4. To help the patient with Quincke's edema, anaphylactic shock.
5. Perform artificial respiration and indirect heart massage.
6. Examine a patient with a tumor, diagnose and prescribe treatment.

7. Perform a puncture or take material for cytological or histological examination.
8. Examine a patient with TMJ, diagnose and prescribe treatment.

Thematic plan of lectures (by modules) with the indication of the basic questions considered at lectures

№	Name topics	Number hours
	Module 3. Oncology of the maxillofacial region	
1	**International classification of tumors of the maxillofacial region according to the WHO. Organization of oncostomatological care for patients and their medical examination. Tumors and tumor-like lesions of embryonic origin bronchiogenic, thyroglossal and dermoid cysts. Clinic, diagnosis, treatment.** *1. Etiology and pathogenesis of tumors.* *2. Classification of tumors.* *3. The main clinical manifestations of tumors.* *4. Organization of oncostomatological care for patients and their medical examination.* *5. Branchiogenic , thyroglossal and dermoid cysts. Clinic, diagnosis, treatment.*	2
2	**Odontogenous jaw tumors - ameloblastoma, Odontoma, cementoma, epulidy, odontogenic fibroma. Odontogenic cysts of the jaws, which occur due to malformations and inflammatory nature.** *1. Etiology and pathogenesis of odontogenic tumors and tumor-like diseases of the jaws.* *2. Classification, clinic, diagnosis, treatment of odontogenic tumors and tumor-like diseases of the jaws.* *3. Etiology and pathogenesis of odontogenic cysts of the jaws.* *4. Classification, clinic, diagnosis, treatment of odontogenic cysts of the jaws.*	2

	Module 4. Traumatology of the maxillofacial area	
3	**Statistics and classification damage maxillofacial areas of peacetime and wartime. Non-flammable and flammable damage teeth, alveolar appendages, zygomatic and nasal bones. Non-flammable and flammable damage jaw. Statistics, classification, features clinics, diagnostics and staging treatment victims. Transport and medical immobilization in case of damage bones face** *1. Surgical anatomy bones of the skull.* *2. Statistics, classification damage maxillofacial region peacetime and wartime.* *3. Non-flammable and flammable damage teeth, alveolar processes, zygomatic and nasal bones* *4. Non-flammable and flammable damage jaw. Statistics, classification, features clinics, diagnostics and e - taping treatment victims.* *5. Transport and medical immobilization in case of damage bones face.*	2
4	**Non-flammable and flammable damage soft tissues of the face . Statistics, classification, features clinics, diagnostics and treatment. Principles surgical wound treatment Phased treatment wounded with injuries soft tissues.** *1. Classification damage to the maxillofacial region.* *2. Non-flammable damage to some tissues of the face.* *3. Features of injuries soft tissues of the face.* *4. Phases healing of wounds of soft tissues of the face.* *5. Primary surgical treatment of wounds of soft tissues of the face.* *6. Features of gunshot wounds face.*	2
5	**Combined (cranial-maxillary-facial) and combined maxillofacial injury areas. Traumatic disease. Classification, clinic , diagnosis and stages treatment wounded Early and late complication damage maxillofacial areas Prevention, clinic, diagnostics, staged treatment wounded** *1. Combined (craniofacial) and combined maxillofacial trauma region. Classification, clinic, diagnosis , etc treatment wounded* *2. Traumatic disease. Classification, clinic, diagnosis, etc*	2

	treatment wounded *3. Early and late complication damage maxillary - facial region Prevention, clinic, diagnostics, etc treatment wounded*	
	Module 5. Reconstructive and reconstructive surgery of the maxillofacial region	
1	**Stages of historical development of plastic and reconstructive surgery. Types of plastic and reconstructive operations in the clinic of maxillofacial hospital. Local plastic surgery: classification, planning, disadvantages and advantages.** *1. Relevance of studying the discipline "Plastic and reconstructive surgery".* *2. Historical stages of development of plastic and reconstructive surgery.* *3. Classification of defects and deformations of the tissues of the maxillofacial region.* *4. Classification of types of plastic and reconstructive surgical interventions depending on the time of execution.* *5. Definition of the term "Plastics with local tissues", classification, intervention planning, indications and contraindications.* 6. *Types of local plastic surgery, their advantages and disadvantages.*	2
2	**Anatomical and physiological features of the temporomandibular joint. Contracture, ankylosis of the TMJ, dislocations of the mandible: etiology, classification, pathogenesis, clinic, differential diagnosis, treatment, basic principles of prevention.** *1. Actuality of theme.* *2. Anatomy and physiology of movements in the temporomandibular joint.* *3. Lower jaw contractures: etiology, pathogenesis, classification, clinic, diagnosis, treatment.* *4. Ankylosis of the joint: etiology, pathogenesis, classification, clinic, diagnosis, treatment.* *5. Dislocations of the mandible: etiology, pathogenesis, classification, clinic, diagnosis, treatment.* 6. *Arthritis , osteoarthritis and pain dysfunction syndrome : etiology, pathogenesis, classification, clinic, diagnosis, treatment.*	2
3	**Defects of soft tissues of the head and neck, modern methods of**	2

	their replacement (free autodermoplasty, balloon dermotension, Filatov's stem). *1. Actuality of theme.* *2. Classification of soft tissue defects of the head and neck.* *3. Indications for free skin grafting.* *4. Types of skin grafts, their advantages and disadvantages, features of application.* *5. The concept of fabric expanders, their types, indications for use.* 6. *Filatovsky stem plastics : indications, choice of place for stem mobilization and methods of its formation, biological data on stem viability, care.*	
4	**Embryonic features of head and neck development. Planning and preparation of patients for treatment with deformities of the cerebral and facial skeleton. Regeneration of jaw bone tissue. Osteogenic and osteoinductive therapy** *1. Actuality of theme.* *2. Stages and directions of embryonic development of the head and neck.* *3. Methods of examination of patients with connective deformities of the jaws.* *4. The concept of dysostosis , their types.* *5. Features of the clinic and diagnosis of Robin's syndrome.* *6. Osteodysplasias, their characteristics, etiology, clinic, diagnosis, treatment.* *7. Paget's disease, etiology, clinic, diagnosis, treatment.* *8. Definition of "regeneration", types of regenerations .* 9. *The concept of osteoinduction and osteoconduction , types of materials.*	2
5	**Surgical treatment of skeletal occlusion anomalies, orthognathic (orthodontic, gnatic) surgery. Compression distraction osteogenesis.** *1. Actuality of theme.* *2. The concept of orthognathic surgery.* *3. Classification of occlusal disorders.* *4. Features of a multidisciplinary approach to solving the problem.* *5. Classification of occlusion keys.* *6. Classification of occlusion anomalies.* *7. Features of cephalometric analysis.*	2

	8. Basic surgical interventions in orthographic surgery. *9. Indications for orthognathic operations.* 10. *The concept of distraction osteogenesis .*	
6	**Periodontal surgery. Muco-gingival plastic surgery. Surgical stages of dental implantation. Corrective operations.** *1. Actuality of theme.* *2. The concept of soft tissue management.* *3. Basic surgical interventions in periodontal surgery.* *4. Gingival augmentation and increase in the volume of fixed gums.* *5. Surgical removal of gum recessions .* 6. *Surgical stage of dental implantation, types and geometry of dental implants, protocol of surgical intervention.*	2
7	**Cicatricial deformities of the tissues of the maxillofacial region: classification, etiology, pathogenesis, diagnosis, treatment, prevention. Modern principles of tissue transplantation. Fundamentals of cell technology in cosmetic facial surgery. Principles of reconstructive microsurgery.** *1. Actuality of theme.* *2. Definition of "scar", classification of scars.* *3. Pathomorphological characteristics of different types of scars.* *4. Methods of surgical and conservative treatment of scars.* *5. Fundamentals of microsurgery.* *6. Stages of microsurgical interventions.* *7. Complications after microsurgical surgery.* 8. *Fundamentals of fabric engineering.*	2
8	**The main methods of surgical removal of aesthetic defects of the tissues of the head and neck (blepharoplasty, rhinoplasty, facelift). Errors and complications of plastic surgery.** *1. Actuality of theme.* *2. The concept of "skin wrinkles" and "involutional ptosis".* *3. Types of surgical interventions to eliminate involutional ptosis. The concept of " face-lift ".* *4. Minimally invasive methods to eliminate involutional ptosis.* *5. Features and methods of facial contouring.* *6. The concept of blepharoplasty, rhino- and otoplasty . Features of interventions.*	2

	7. *Mistakes and complications in facial plastic surgery.*	
9	**Paralysis of facial muscles, facial atrophy. Symptoms and syndromes of plastic and reconstructive surgery. Fundamentals of maxillofacial surgery.** *1. Actuality of theme.* *2. The concept of neurostomatology .* *3. Principles of pain management.* *4. Trigeminal neuralgia: etiology, pathogenesis, classification, clinic, diagnosis, surgical and conservative treatments.* *5. The concept of odontogenic facial pain.* *6. Paresis and paralysis of the facial nerve: etiology, pathogenesis, clinic, diagnosis, surgical and conservative treatments.* **7. *Complications and ways to prevent them.***	2

Thematic plan of seminars by modules and content modules with the indication of the basic questions considered at a seminar

Not provided by the working curriculum.

Thematic plan of practical classes by modules and content modules with an indication of the main issues considered at the practical class

№	Name topics	
	Module 3. Oncology of the maxillofacial region	
1	**Epithelial tumors of soft tissues. Tumor-like formations of soft tissues: atheroma, rhinophyma, keratoacanthoma, skin horn. Clinic, diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, treatment of epithelial tumors of the soft tissues of maxillofacial localization*	2

	(papilloma, nevi , epithelioma, tryhoepitelioma) and tumor processes (atheroma, rynofima, keratoakantoma , cutaneous horn).	
2	**Tumors and tumor-like formations of fibrous, muscular and adipose tissue. Clinic, diagnosis, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, treatment of tumors and tumor-like formations of fibrous, muscle and adipose tissue (fibroma, fibromatosis gum giant cell, fibrous and anhiomatoznyy epulis, lipoma, leiomyoma , rhabdomyoma, myoblastoma).*	2
3	**Tumors of blood and lymphatic vessels of the soft tissues of the maxillofacial region and jaws. Tumors and tumor-like lesions of the peripheral nerves of the face. Epithelial and non-epithelial tumors of the salivary glands. Salivary gland cysts. Clinic, diagnosis, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, treatment of tumors of blood and lymphatic vessels (hemangioma (capillary, cavernous, branched) chylangioma (capillary, cavernous)), tumors and tumor-like lesions of peripheral nerves face (nevrylemoma, neurofibroma, neurofibromatosis (Recklinghiusen's disease), traumatic neuroma) and epithelial and non-epithelial tumors and salivary gland cysts (polymorphic, monomorphic, mucoepidermoid adenoma, cylinder, retention cyst of small salivary glands, ranula).*	2
4	**Odontogenic epithelial cysts of the jaws: radicular , dental, periodontal, primary, follicular, eruption cyst, ash. Clinic, diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, methods of treatment of odontogenic epithelial cysts of the jaws (radicular , dental ,*	2

	periodontal, primary, follicular, eruption cyst, ash).	
5	**Odontogenic tumor of ameloblastoma (adamantinoma). Odontoma, cementoma, odontogenic fibroma. Clinic, diagnosis, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, treatment odontogenic tumor of the jaws (ameloblastoma, Odontoma, amaloblastychna fibroma, odontogenic fibroma,cementoma).*	2
6	**Primary osteogenic bone tumor osteoblastoclastoma. Osteogenic bone tumors: osteoma, osteoid-osteoma, chondroma, osteochondroma, fibroosteoma. Clinic, diagnosis, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, methods of treatment of osteogenic bone tumors (osteoblastoclastoma, osteoma, osteoid-osteoma, chondroma, osteochondroma, fibroosteoma).*	2
7	**Tumor-like lesions of the jaws: fibrous dysplasia, cherubism, Engle-Recklinghausen's disease, Paget's disease, eosinophilic granuloma. Clinic, diagnosis, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, methods of treatment of tumor - like lesions of the jaws (fibrous dysplasia, cherubism , Engle-Recklinghausen 's disease, Paget's disease, eosinophilic granuloma).*	2
8	**Tumors and tumor-like lesions of embryonic origin, bronchial, thyroglossal cysts, fistulas of the face and neck, teratoma, bronchiogenic cancer. Clinic, diagnosis, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, methods of treatment of tumor - like lesions and tumors of embryonic origin (bronchial, thyroglossal cysts, fistulas of the face and neck,*	2

	teratoma, bronchiogenic cancer).	
9	**Organization of oncostomatological care for patients and their medical examination. Procedure and methods of examination of a cancer patient. Medical documentation of a dental surgeon. Biological bases of clinical oncology. Cancer warning. Classification of tumors of the maxillofacial region.** *The concept of tumors. Classification of tumors of maxillofacial localization, distribution. WHO International Classification of Tumors. Theories of carcinogenesis. The value of early diagnosis. Procedure and methods of examination of a cancer patient. Medical documentation of a dental surgeon. Biological bases of clinical oncology. Cancer warning. Examination of patients to diagnose tumors. Stages of defeat according to the TNM system. Clinical groups of cancer patients.*	2
10	**Precancerous diseases of the skin, mucous membranes of the mouth and tongue: histological structure, clinical forms, differential diagnosis, treatment, complications and prevention.** *Classification. Optional and obligatory precancers. Background diseases. Clinical manifestations, methods of diagnosis, treatment. Principles and methods of medical examination of patients with precancerous diseases of the skin, mucous membranes of the mouth and tongue.*	2
11	**Cancer and sarcoma of the jaws: origin and histological structure, classification, clinic, differential diagnosis.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis of cancer and sarcoma of the upper and lower jaws. Ongren's lines.*	2
12	**Cancer and sarcoma of the jaws: treatment, complications and prevention.** *Principles of treatment of cancer and sarcoma of the upper and lower jaws (radiation surgery, cryogenic, laser,*	2

	chemotherapy, medication, immunotherapy, combined exposure). Indications and contraindications to surgery at the primary focus and in the ways of regional metastasis. Prognosis and recovery criteria.	
13	**Cancer of the lips, oral organs (tongue, cheeks, bottom of the mouth, hard and soft palate): origin and histological structure, classification, clinic, differential diagnosis.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis of cancer of the lip, oral organs (tongue, cheeks, bottom of the mouth, hard and soft palate) and tongue.*	2
14	**Cancer of the lips, oral organs (tongue, cheeks, bottom of the mouth, hard and soft palate): treatment, complications, prevention.** *Principles of treatment of cancer of the lip, organs of the oral cavity (radiation surgery, cryogenic, laser, chemotherapy, drug, immunotherapy, combined exposure). Indications and contraindications to surgery at the primary focus and in the ways of regional metastasis. Prognosis and recovery criteria.*	2
15	**Malignant tumors of the salivary glands: histological structure, clinical forms, differential diagnosis, treatment.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis, methods of treatment taking into account the localization of malignant tumors of the salivary glands (adenocarcinoma, adenocystic and epidermoid carcinoma).*	2
16	**Malignant tumors of the neck (thyroid cancer, hemodectoma, metastatic tumors, lymphogranulomatosis, lymphosarcoma, reticulosarcoma). Lymphadenopathy of the thyroid gland.** *Etiology, pathogenesis, histological structure, clinical course, diagnosis, differential diagnosis of malignant tumors and lymphadenopathy of the neck (thyroid cancer, hemodectoma , metastatic tumors, lymphogranulomatosis, lymphosarcoma,*	2

	reticulosarcoma).	
17	**Final computer control. Final modular control. ***	
Module 4. Traumatology of the maxillofacial region		
1	**Statistics and classification of injuries of the maxillofacial region in peacetime. Methods of examination of victims with trauma of the maxillofacial localization. Subject and tasks of military dentistry. Organization of surgical care for maxillofacial wounded in peaceful, extreme conditions. Military medical doctrine. Basic principles of organization, volume and content of care, stages of medical evacuation and medical sorting of the wounded in the maxillofacial region.** *Statistics and classification of injuries of the maxillofacial region in peacetime. Methods of examination of victims with trauma of the maxillofacial localization.*	2
2	**General characteristics, clinical course, diagnosis of gunshot wounds and injuries of soft tissues, facial bones in peacetime: classification, features of the clinical course, diagnosis. First aid. Methods of surgical treatment of facial soft tissue wounds. Modern gunshot wound, its treatment.** *General characteristics, clinical course, diagnosis of gunshot wounds and injuries of soft tissues, facial bones in peacetime.*	2
3	**Dislocations and fractures of the tooth. Fractures of the alveolar process. Statistics, classification, clinic, diagnosis, treatment methods. Early complications of maxillofacial region injuries (syndrome of prolonged compression of facial tissues). Concomitant complications of maxillofacial region injuries (bleeding, asphyxia, shock), their prevention. Medical care at the site of injury, at the stages of medical evacuation.** *Dislocations and fractures of the tooth. Fractures of the alveolar process. Statistics, classification, clinic, diagnosis, treatment methods. Early complications of maxillofacial region injuries*	2

4	**Damage to soft tissues of the maxillofacial region in peacetime and in extreme conditions: classification, clinical course, methods of surgical treatment of wounds, types of sutures. Providing assistance to such wounded at the site of injury, at the stages of medical evacuation, taking into account the aesthetics of the face.** *Damage to soft tissues of the maxillofacial region in peacetime and in extreme conditions: classification, clinical course, methods of surgical treatment of wounds.*	2
5	**Injuries of the lower jaw in peacetime, in extreme conditions: anatomy of injuries, classification, clinical course, diagnosis.** *Damage to the lower jaw in peacetime, in extreme conditions.*	2
6	**Injuries of the lower jaw in peacetime, in extreme conditions: medical care for the wounded at the site of injury, during the stages of medical evacuation. Surgical treatment of wounds with injuries of the mandible, the principles of plastic surgery.** *Damage to the lower jaw in peacetime. Surgical treatment of wounds with injuries of the mandible, the principles of plastic surgery.*	2
7	**Injuries of the upper jaw in peacetime, in extreme conditions: anatomy of injuries, classification, clinical course, medical care for the wounded at the site of injury, during the stages of medical evacuation. Surgical treatment of wounds with injuries of the upper jaw and the principles of plastic surgery.** *Damage to the upper jaw in peacetime. Surgical treatment of wounds with injuries of the upper jaw*	2
8	**Damage to the chin bones and nasal bones in peacetime and in extreme conditions: classification, frequency, clinic, diagnosis, treatment.** *Damage to the chin bones and nasal bones in peacetime and in extreme conditions.*	2

9	**Temporary (evacuation-transport) immobilization for facial skull injuries: requirements, types, disadvantages and advantages.** *Temporary immobilization for injuries of the bones of the facial skull*	2
10	**Permanent (therapeutic) immobilization for facial skull injuries: requirements, types, disadvantages and advantages.** *Permanent immobilization for facial skull bone injuries.*	2
11	**Osteosynthesis, hardware methods of fixing fragments of facial skull bones.** *Osteosynthesis, hardware methods of fixation.*	2
12	**Traumatic disease: pathogenesis, features of maxillofacial region injuries.** *Traumatic disease: pathogenesis, clinic.*	2
13	**Combined injuries of the maxillofacial region. Cranial-maxillofacial injuries. Features of the clinical course, diagnosis, complications, features of treatment at the stages of medical evacuation.** *Combined injuries of the maxillofacial region. Cranial-maxillofacial injuries.*	2
14	**Combined lesions of the tissues of the maxillofacial region. Features of the clinical course, diagnosis, complications, features of treatment at the stages of medical evacuation. Radiation sickness: clinic, diagnosis, treatment.** *Combined lesions of the tissues of the maxillofacial region.* *Radiation sickness: clinic, diagnosis, treatment.*	2
15	**Thermal and chemical injuries of the face in peacetime, in extreme conditions, their consequences, treatment, prevention of complications, the possibility of plastic surgery. Burn disease with facial injuries: clinic, diagnosis, treatment.**	2

	Thermal and chemical injuries of the face in peacetime, in extreme conditions, their consequences, treatment, prevention of complications, the possibility of plastic surgery. Burn disease.	
16	**Bone regeneration, types. Bone wound healing. Methods for optimizing bone regeneration.** *Bone regeneration, types. Bone wound healing. Methods for optimizing bone regeneration.*	2
17	**Care and nutrition of victims with trauma of the maxillofacial region. Exercise therapy and physiotherapy in the complex treatment of victims with injuries of the maxillofacial region. The scope and procedure for providing assistance to maxillofacial wounded at the stages of medical evacuation.** *Care and nutrition of victims with trauma of the maxillofacial region. Exercise therapy and physiotherapy in the complex treatment of victims.*	2
18	**Final computer rector's control. Practical experience. ***	
Total		

Thematic plan of practical classes by modules and content modules with indication of the main issues considered in the practical lesson

Module 5. Reconstructive and reconstructive surgery of the maxillofacial region		
1	**Anatomy of the temporomandibular joint (TMJ). Modern methods of diagnosing TMJ diseases. Arthroscopy, its possibilities in the diagnosis and treatment of TMJ diseases. Dislocations of the lower jaw: etiology, clinic, diagnosis, treatment. Curation of the patient in the clinic of maxillofacial surgery. Writing an university medical history.** *Anatomy, age features of the structure of the TMJ. Additional methods of examination of the TMJ (radiation, wave). Arthroscopy, its types, methods, types of arthroscopes . Dislocations of the mandible: etiology, clinic, diagnosis, treatment, complications.*	6

2	**Arthritis, arthrosis-arthritis, arthrosis of the TMJ: etiology, classification, clinic, differential diagnosis, treatment, prevention. Lower jaw contracture: etiology, classification, clinic, differential diagnosis, treatment, prevention. Curation of the patient in the clinic of maxillofacial surgery. Writing an university medical history.** *Etiology, pathogenesis, classification, clinical course, diagnosis, differential diagnosis, methods of treatment of TMJ diseases (arthritis, arthrosis, arthrosis) and mandibular contractures. Features of anesthesia and methods of eliminating mandibular contractures.*	6
3	**Ankylosis of the temporomandibular joint: etiology, pathogenesis, classification, clinic, diagnosis, treatment. TMJ dysfunction. Syndrome of painful dysfunction of the TMJ.** **Final lesson: Modern methods of diagnosis and treatment of TMJ diseases. Protection of university medical history.** *Classification, etiology, pathogenesis, clinical course, diagnosis, differential diagnosis, methods of ankylosis and TMJ dysfunction. Features of the clinical course of TMJ pain dysfunction syndrome, methods of diagnosis and treatment.*	6
4	**Periodontal surgery, surgical treatment of periodontal diseases: indications, technique, bone and plastic materials. Complications of endodontic interventions and their surgical treatment. Surgical treatment of pain syndromes: neuralgia, neuritis of the maxillofacial region. Paralysis of facial muscles: etiology, diagnosis, clinic, treatment, results.** *Indications and contraindications to surgical treatment of periodontal diseases, technique, complications. Classification of bone and plastic materials. Surgical treatment of complications of endodontic interventions.* *Facial and trigeminal nerves. Facial nerve neuralgia and neuritis: classification, clinic, methods of diagnosis and treatment. Paralysis of facial muscles: etiology, diagnosis, clinical manifestations, methods of surgical treatment, results, complications.*	6
5	**Surgical preparation of the oral cavity for orthopedic treatment. Plastics of bridles of lips and tongue: indications, methods of**	6

	execution. Biological bases of dental implantation: Types of implants. Indications, contraindications, provision. **Indications and examination of patients before the surgical stage of dental implantation. Preparation of alveolar sprout for implantation. Execution technique. Results, complications of dental implantation and their treatment.** *Methods of surgical preparation of the oral cavity for orthopedic treatment. Frenulo- and vestibuloplasty : indications, methods of execution, complications. Biological bases of dental implantation, osseointegration , fibroosteointegration . Types of implants. Indications, contraindications, providing the surgical stage of dental implantation. Preparation of alveolar sprout for implantation. Execution technique . Results, complications of dental implantation and their treatment.*	
6	**Deformities of the mandible: etiology, pathogenesis, classification, clinic, diagnosis, treatment. Defects of the mandible: etiology, clinic, diagnosis, methods of bone grafting and indications for them. Deformities of the upper jaw (I/W): etiology, pathogenesis, classification, clinic, diagnosis, treatment. Defects of the upper jaw: etiology, classification, clinic, diagnosis, essence of treatment methods and indications for them.** *Classification, etiology, pathogenesis, classification, clinic, diagnosis, differential diagnosis, methods of treatment of defects and deformities of the jaws. Methods of osteotomies.*	6
7	**Regeneration of jaw bone tissue. Osteogenic and osteoinductive therapy. Organ and tissue transplantation. The main complex of histocompatibility, RTPG and RGPT. Basic methods of preventing graft rejection. Biological principles and methods of bone and cartilage tissue transplantation. Principles and methods of implantation of artificial structures. Results, complications. Distraction-compression methods of treatment of defects and deformations of facial bones. Rector's control. Final modular control.** *Types and stages of bone regeneration. Types and mechanism of callus formation. Definition and substantiation of osteogenic and osteoinductive therapy. Organ and tissue*	4

	transplantation. The main complex of histocompatibility , RTPG and RGPT. Classification of grafts, methods of their use. Biological substantiation of compression-distraction osteogenesis, features of its application in the maxillofacial region.	
Module 6. Subordination		
1	**Principles of organization of surgical dental and maxillofacial care to the population. General and special preparation of the patient for outpatient surgery and postoperative period. Anesthesia, premedication, the choice of method of anesthesia for surgery in a hospital, clinic.** *Principles of organization of surgical dental and maxillofacial care to the population. Documentation of a dental surgeon. General and special preparation of the patient for outpatient surgery and postoperative period. Methods of examination of patients. Anesthesia, premedication , the choice of method of anesthesia for surgery in a hospital, clinic. Types of anesthesia, features of general anesthesia in patients with diseases of the maxillofacial localization.*	6
2	**Conductive anesthesia of the upper, lower jaws and adjacent soft tissues. Application and infiltration anesthesia of maxillofacial tissues. Cardiopulmonary resuscitation. Physiotherapy of complications associated with analgesia.** *Central and peripheral anesthesia for anesthesia of the upper, lower jaws and adjacent soft tissues, methods. Application and infiltration anesthesia of maxillofacial tissues. Features of cardiopulmonary resuscitation. Emergency and terminal conditions. Physiotherapeutic treatment of complications associated with analgesia.*	6
3	**Clinic, diagnosis, X-ray diagnosis, classification of periodontitis. Surgical methods of treatment. Typical and atypical surgical interventions for tooth extraction. Complications during and after surgery. Surgical interventions for periodontitis: resection of the apex of the root, hemisection, amputation, replantation, coronary-radicular separation. Diseases of teething -retention, dystopia: clinic, diagnosis, treatment. Pericoronitis, periostitis of the jaws: etiology, classification, clinic, diagnosis, treatment.** *Etiology, pathogenesis, classification, diagnosis, clinical picture of periodontitis . Operation of typical and atypical tooth*	6

	removal. Stages of tooth extraction. Dental-preserving surgical interventions (hemisection , coronary radicular separation, resection of the root apex, tooth replantation). Operations on Parch I and Parch II. Complications during and after surgery. Diseases of teething - retention , dystopia : clinic, diagnosis, treatment. Pericoronitis , periostitis of the jaws: etiology, classification, clinic, diagnosis, treatment.	
4	**Osteomyelitis of the jaws: etiopathogenesis, classification, clinic, diagnosis,diff. diagnosis, conservative and surgical methods of treatment. Odontogenic sinusitis: etiopathogenesis, classification, clinic, diagnosis, diff. diagnosis, conservative and surgical methods of treatment. Elimination of oroantral connections.** *Etiology, pathogenesis, classification, features of the clinical course, diagnosis, treatment of osteomyelitis of the jaws. X-ray diagnosis. Features of the course and treatment of odontogenic , post-traumatic, hematogenous, toxic and drug osteomyelitis. Types of a pair of nasal sinuses. Etiology, pathogenesis, classification, features of the clinical course, diagnosis, methods of treatment of odontogenic sinusitis. Elimination of oroantral connections.*	6
5	**Specific diseases - actinomycosis, tuberculosis, syphilis, AIDS: etiopathogenesis, classification, clinic, diagnosis, conservative and surgical treatments.** *Etiology, pathogenesis, classification, clinic, diagnosis, conservative and surgical methods of treatment of specific diseases - actinomycosis, tuberculosis, syphilis, AIDS. Differential diagnosis of ulcers of the oral mucosa.*	6
6	**Arthritis, osteoarthritis, syndrome of painful dysfunction of the temporomandibular joint. Ankylosis of the TMJ. Plastic TMJ. Contractures and dislocations of the mandible. Diagnosis, surgical and physiotherapeutic treatment.** *Etiology, pathogenesis, classification, clinical course, diagnosis, differential diagnosis, methods of treatment of TMJ diseases (arthritis, arthrosis, arthrosis) and mandibular contractures. Features of anesthesia and methods of eliminating mandibular contractures. Classification, etiology, pathogenesis, clinical course, diagnosis, differential diagnosis, methods of ankylosis and TMJ dysfunction . Features of the clinical course of TMJ pain*	6

	dysfunction syndrome, methods of diagnosis and treatment.	
7	**General characteristics of inflammatory processes of the maxillofacial region. Acute and chronic nonspecific sialoadenit (nekalkuloznyy and calculary). Diagnosis and comprehensive treatment of sialoadenitis. Sialose.** *Phases and signs of inflammation. Features of the clinical course of inflammatory processes of maxillofacial localization. The structure of the salivary glands. Etiology, pathogenesis, classification, clinical course, diagnosis, differential diagnosis, methods of treatment of inflammatory diseases of the salivary glands. Sialosis , Sjogren's disease, Mikulich 's disease.*	6
8. **Lymphadenitis, adenophlegmon. Abscesses of the face, palate, maxillofacial groove, sublingual region. Physiotherapy in the treatment of inflammatory processes of the thyroid gland. Phlegmons of the submandibular, chin region, pterygoid-jaw region.** *Phases and signs of inflammation. Features of the clinical course of lymphadenitis and adenophlegmon of maxillofacial localization. Topography of the cellular semester final certification ces of the head and neck. Clinical picture, diagnosis, differential diagnosis, surgical and medical treatment of phlegmon of the submandibular, chin region, pterygoid-maxillary regions.*		6
9. **Phlegmon of the orbit. Phlegmons of the chin, parotid and masticatory region. Phlegmons of the pterygopalatine semester final certification ce, subtemporal and temporal fossae. Pharyngeal phlegmon. Phlegmon of the bottom of the mouth, tongue and neck, sore throat Jansul-Ludwig. Complications and their prevention. Principles of treatment of inflammatory processes of maxillofacial region.** *Topography of superficial and deep cellular semester final certification ces of the head and neck. Clinical picture, diagnosis, differential diagnosis, surgical and medical treatment of phlegmon of the orbit, chin, parotid and masticatory regions, pterygopalatine semester final certification ce, subtemporal and temporal fossae , pharyngeal phlegmon, phlegmon of the bottom of the mouth, tongue and neck. Features of the clinical course, surgical and medical treatment of Jansul-Ludwig's sore throat . Complications of inflammatory processes of maxillofacial localization.*		6
10. **Benign tumors and cysts of the salivary glands. Plastic removal of salivary fistulas. Benign soft tissue tumors. Vascular tumors and**		6

birthmarks. Immunological concept of tumor development. *The structure of the salivary glands. Clinical picture, diagnosis, differential diagnosis, and treatment of benign tumors and cysts of the salivary glands. Salivary fistulas: etiology, clinical manifestations, treatment. Classification, clinic, diagnosis of benign soft tissues of the face. Differential diagnosis of hemangiomas and nevi. Classification, clinical picture, diagnosis, differential diagnosis, and treatment of vascular tumors. Classification, clinical picture, diagnosis, differential diagnosis, and treatment of nevi.*	
11. **Benign tumors and tumor-like neoplasms of soft tissues of the thyroid gland (papilloma, fibroma, lipoma, hemangioma, atheroma, neurofibromatosis, dermoid and epidermoid cysts, medial and lateral cysts and fistulas of the neck): etiology, pathogenesis, diagnosis, classification , treatment and prevention of complications.** *Classification, clinic, diagnosis of benign tumors of the soft tissues of the face (papilloma, fibroma, lipoma, hemangioma, atheroma, neurofibromatosis, dermoid and epidermoid cysts, median and lateral cysts and fistulas of the neck).*	6
12. **Benign odontogenic tumor of the jaws (ameloblastoma (adamantynoma) Odontoma, cementoma). Benign neodontogenic tumors of the jaws (osteoblastoclastoma, osteoma, osteoid-osteoma, chondroma, hemangioma, odontogenic fibroma, epulid): classification, histological structure, clinic, differential diagnosis, principles and methods of treatment, prevention of complications.** *Etiology, pathogenesis, classification, histological structure, clinic, differential diagnosis, principles and methods of treatment of benign tumors of the jaws. Radiological forms of osteoblastoclastoma and ameloblasts. Radiological characteristics of osteoma, osteoid-osteoma , chondroma, odontoma, cementome .*	6
13. **Jaw cysts (odontogenic and neodontogenic, epithelial and non-epithelial). Odontogenous jaw cysts (radicular, follicular, paradentalna, pear-shaped, primary, eruption cyst). Osteogenic tumor-like neoplasms of the jaws (fibrous osteodysplasia, parathyroid osteodystrophy, Paget's disease, eosinophilic granuloma): etiology, pathogenesis, classification, histological structure, clinic, differential diagnosis, features of treatment, complications** *Classification of odontogenic and neodontogenic cysts of the jaws. Odontogenous jaw cysts (radicular, follicular, pidokisna, paradentalna,*	6

pear-shaped, primary, eruption cyst): clinical presentation, diagnostic methods and treatment. Operation Parch I, Parch II. Etiology, pathogenesis, classification, histological structure, clinical features, differential diagnosis, treatment features, complications, prevention osteogenic tumor growths jaws (fibrous osteodysplaziya, parathyroid osteodystrophy, Paget's disease, eosinophilic granuloma syndrome Albright, heruvizm).	
14. **Cancer, sarcoma of the soft tissues of the mouth and face, bones of the facial skull. Plastic removal of defects of jaws and soft tissues of maxillofacial region. X-ray diagnosis of malignant tumors, differential diagnosis, treatment.** *Etiology, pathogenesis, clinic, diagnosis of malignant tumors of the maxillofacial localization. Cancer precaution. Oncogenesis. Differential diagnosis of malignant and benign tumors. Classification of malignant tumors of the maxillofacial localization. X-ray diagnosis of malignant tumors, differential diagnosis, treatment.Combined (radiation, chemotherapeutic and radical) treatment of malignant neoplasms. Dispensary groups of cancer patients. Plastic removal of defects of jaws and soft tissues of maxillofacial region.*	6
15. **Gunshot and non-gunshot injuries of the lower and upper jaws. Orthopedic and surgical methods of treatment.** *Statistics, clinic, diagnostics, differential diagnosis of traumatic injuries of the facial bones. Methods of temporary and permanent immobilization of the jaws. Orthopedic and surgical methods of treatment of fractures of the jaws. Complications, prevention.*	6
16. **Gunshot, non-gunshot injuries of soft tissues of maxillofacial region. Burns and combined injuries. Soft tissue plastic surgery. Physiotherapy in the complex treatment of maxillofacial region injuries. Rector's control. Practical experience.** *Statistics, clinic, diagnosis, differential diagnosis of traumatic soft tissue injuries. See wounds. Surgical treatment of wounds. Features of the course of traumatic soft tissue injuries of the maxillofacial localization. Classification, clinical course, methods of diagnosis and treatment of burns and frostbite. The concept of combined damage. Soft tissue plastic surgery. Physiotherapy in the complex treatment of maxillofacial region injuries.*	6
17. **Gunshot, non-gunshot injuries of the bones of the facial skeleton. X-ray diagnosis of facial skeletal injuries. Comprehensive treatment of jaw injuries. Regeneration of maxillofacial region tissues. Combined and combined traumatic injuries of the maxillofacial region. Traumatic illness: features of**	4

clinical manifestations, diagnosis, treatment. Final modular control. *Statistics, clinic, diagnosis, differential diagnosis of traumatic injuries of the soft tissues of the face and bones of the facial skeleton. X-ray diagnosis of facial skeletal injuries. Comprehensive treatment of jaw injuries. Types and stages of bone regeneration. Types and mechanism of callus formation. The concept of combined and combined traumatic injuries of the maxillofacial region. Traumatic illness: features of the clinical course, periods of traumatic illness, features of treatment. Traumatic shock.*	

Note: * mark topics on which there must be a positive assessment

Independent work

tasks in discipline "Surgical dentistry" for self-study for the students of International Faculty (EPP "Dentistry") IV course, VII semester

(3 module "Oncology of maxillofacial area")

2023-2024 academic year

№	Topics	Hours
1	Preparation for the practical classes - theoretical knowledge and practical skills	16
2	Writing of a case report	4
4	Preparation for the final module control (module 3)	2
	Total	**22**

tasks in discipline "Surgical dentistry" for self-study
for the students of International Faculty (EPP "Dentistry") IV course, VIII semester

(4 module "Traumatology of maxillofacial area")

2023-2024 academic year

№	Topic	Hours
1	Preparation for the practical classes - theoretical knowledge and practical skills	17
2	Preparation for practical skills (module 4)	1
	Total	**18**

tasks in discipline "Surgical dentistry" for self-study for the students of International Faculty (EPP "Dentistry") V course, IX semester

(5 module "Reconstructive surgery of maxillofacial area")

2023-2024 academic year

№	TOPIC	Hours
1	Preparation for practical classes – theoretical knowledge and practical skills	30
2	Writing of a case report.	8
3	Independent study of topics that are not included in the plan of classroom work:	
3.1	Surgical methods of treatment of diseases of the temporomandibular joint, TMJ plastic surgery.	8
3.2	Osteointegration. Osteogenic, osteoinductive, osteoconductive and bone-substituting materials.	8
3.3	TMJ pain dysfunction syndrome.	8
3.4	Biological properties of osteogenesis.	8
3.5	Biological properties of implantation of the artificial teeth.	8
3.6	Preparation of alveolar bone for implantation.	8
4	Preparation for the final modular control (module 5)	6
	Total	**92**

tasks in discipline "Surgical dentistry" for self-study for the students of International Faculty (EPP "Dentistry") V course, X semester

(6 module "Subordinatura")

2023-2024 academic year

№	TOPIC	Hours
1	Preparation for practical classes – theoretical knowledge and practical skills	46
2	Preparation for the final modular control (module 6)	4
	Total	**50**

Individual tasks

1. Prepare an abstract review of the literature on the studied topics.
2. Conducting research in accordance with the requirements of the student scientific society.
3. Writing essays on topics:

- Modern methods of treatment of fractures of the jaws: advantages and disadvantages.
- Compression-distraction osteosynthesis. Types of healing of mandibular fractures.
- Modern methods of treatment of cancer of the thyroid gland.
- Features of treatment of fractures of the cheekbone complex. Traumatic sinusitis. Restoration of the bottom of the orbit.
- Secondary bleeding, prevention measures, elimination. Methods of ligation of the external carotid, facial, superficial temporal artery.
- Modern methods of conservative treatment of thermal lesions of the tissues of the maxillofacial region.
- Methods of treatment of the consequences of thermal damage to the tissues of the maxillofacial region.
- Factors of damage by modern firearms: bullet, fragment, explosive wave, thermal effects. Zones Tissue damage in the wound canal.
- Infection control, prevention and treatment of inflammatory complications. Suppuration of soft tissue and bone wounds. Gunshot osteomyelitis, clinical features and treatment.
- Radiation injuries of the face. Features of the wound process depending on the stage of radiation sickness. Mutual burden syndrome.

4. The topic of the abstract can be chosen independently. The abstract is drawn up according to the given structure. It is necessary to strictly follow the order of presentation of certain types of textual material, tables, formulas and illustrations.
   Abstract structure:
   • title page;
   • content;
   • introduction;
   • the essence of the abstract (main part);
   • conclusions;
   • list of used sources (list of links);
   • applications (if necessary).

The list of theoretical questions for preparation of students for final modular control and semester final attestation

Module 3 "Oncology of the maxillofacial region"

1. The structure of the organization of oncological care.
2. Principles of medical examination of patients with tumors of the head and neck.
3. Organization of oncodental care.
4. Classification of tumors of maxillofacial localization.

5. Methods of examination of a patient with cancer.
6. Oncogenesis. Modern views on the biological principles of oncogenesis.
7. Biological principles of treatment of benign and malignant tumors of the thyroid gland.
8. Immune system in tumors and tumor-like processes of the thyroid gland.
9. The concept of cancer vigilance.
10. Classification of tumors of the head and neck.
11. General characteristics of precancerous lesions.
12. General characteristics of facultative precancerous diseases.
13. General characteristics of obligate precancers.
14. Factors that contribute to the development of precancerous diseases.
15. Classification of precancerous diseases of the skin and mucous membranes of the mouth.
16. Clinical picture of precancerous diseases of the oral mucosa.
17. Clinical picture of precancerous diseases of the red border of the lips.
18. Clinical picture of precancerous diseases of the skin.
19. Differential diagnosis of precancerous diseases.
20. Prevention of precancerous diseases of the oral cavity.
21. Methods of treatment of precancerous diseases.
22. Complications of precancerous diseases of the skin, lips and mucous membranes of the mouth.
23. Epithelial tumors of the soft tissues of the maxillofacial region.
24. Clinical characteristics of papilloma.
25. Clinical characteristics of keratoacanthoma .
26. Clinical characteristics of the skin horn.
27. Clinical characteristics of nevi.
28. Clinical manifestations of malignant degeneration of epithelial tumors of soft tumors.
29. Differential diagnosis of epithelial tumors of the soft tissues of the face and mouth.
30. Methods of diagnosis of tumor verification.
31. Treatment of epithelial tumors of soft tumors and various types of epithelioma.
32. Clinical picture of atheroma.
33. Clinical picture of rhinophyma .
34. Clinical picture of keratoacanthoma .
35. Clinical picture of the skin horn.
36. Differential diagnosis of tumor-like formations of soft tissues.
37. Prevention of tumor formations of soft tissues.
38. Differential diagnosis of tumor-like formations of soft tissues.
39. Methods of treatment of tumor-like formations of soft tissues.
40. Clinical picture of fibroids.
41. Clinical picture of gum fibromatosis .
42. The clinical picture of fibrous and angiomatous epulid.

43. Differential diagnosis of tumors and tumor-like formations of fibrous tissue.
44. Prevention of tumors and tumor-like formations of fibrous tissue.
45. Methods of treatment of tumors and tumor-like formations of fibrous tissue.
46. Clinical picture of myoblastoma .
47. Clinical picture of rhabdomyoma .
48. Clinical picture of leiomyoma .
49. Clinical picture of lipoma.
50. Clinical picture of lipomatosis .
51. Differential diagnosis of tumors of muscle and adipose tissue.
52. Prevention of tumors of muscle and adipose tissue.
53. Classification of nevi.
54. Clinical picture of nevi of the face and neck.
55. Signs of nevus malignancy .
56. Features of treatment of nevi and medical examination of patients with this pathology.
57. Clinical picture of melanoma.
58. Methods of diagnosis and differential diagnosis of melanoma.
59. Treatment and prognosis for melanoma.
60. Etiology and pathogenesis of tumors and tumor - like lesions of the peripheral nerves of the face.
61. Classification of tumors and tumor - like lesions of the peripheral nerves of the face.
62. Clinical picture of neurofibroma.
63. Clinical picture of facial neurofibromatosis.
64. Clinical picture of traumatic neuroma.
65. Diagnosis and differential diagnosis of tumors and tumor - like lesions of the peripheral nerves of the face.
66. Methods of treatment of tumors and tumor - like lesions of the peripheral nerves of the face.
67. Histological and clinical classifications of benign tumors of the salivary glands.
68. Clinical picture of adenolymphoma of the salivary gland.
69. Diagnosis and differential diagnosis of benign salivary gland tumors.
70. Methods of treatment of benign salivary gland tumors.
71. Prognosis and complications during and after treatment of benign salivary gland tumors.
72. Basic and additional methods of diagnosis of benign tumors.
73. Clinical picture of salivary gland adenoma.
74. Clinic of oxyphilic adenoma.
75. Histological and clinical classifications of benign tumors and cysts of the salivary glands.
76. Clinical picture of benign tumors and cysts of the salivary glands.

77. Diagnosis and differential diagnosis of benign tumors and cysts of the salivary glands.
78. Methods of treatment of benign tumors and cysts of the salivary glands.
79. Histological, clinical and radiographic classification ameloblastoma , Odontoma, cementoma , odontogenic fibroma.
80. Clinical adamantynomy, odontoma, cementoma , odontogenic fibroma.
81. Differential diagnosis adamantinoma, odontoma, cementoma, odontogenic fibroma.
82. Treatments adamantinoma, odontoma, cementoma, odontogenic fibroma.
83. General characteristics of odontogenic epithelial tumors.
84. Tumors related to odontogenic epithelial cysts of the jaws.
85. Complications that occur in odontogenic epithelial cysts.
86. Etiology and pathogenesis of osteogenic tumors of the maxillofacial region.
87. Classification of osteogenic tumors of the head and neck.
88. Clinical picture osteoblastoklastomy and osteogenic bone tumors.
89. Diagnosis and differential diagnosis of osteoblastoclastoma and osteogenic bone tumors.
90. Treatment of osteoblastoclastoma and osteogenic bone tumors maxillofacial region.
91. Histological and clinical classifications of tumor-like lesions of the jaws.
92. Clinical picture of tumor-like lesions of the jaws.
93. Diagnosis and differential diagnosis of tumor-like lesions of the jaws.
94. Methods of treatment of benign tumors and cysts of the salivary glands.
95. Prognosis and complications during and after treatment of tumor-like lesions of the jaws.
96. Theories of the origin of congenital cysts and fistulas of the face and neck.
97. Histological and clinical classifications of congenital cysts and fistulas of the face and neck.
98. Clinical picture of congenital cysts and fistulas of the face and neck.
99. Diagnosis and differential diagnosis of congenital cysts and fistulas of the face and neck.
100. Methods of treatment of congenital cysts and fistulas of the face and neck.
101. Prognosis and complications during and after treatment of congenital cysts and fistulas of the face and neck.
102. International histological classification of salivary gland tumors.
103. Signs of malignancy of polymorphic adenomas.
104. Methods of examination of patients with malignant tumors of the salivary glands.
105. Clinical signs of malignant tumors of the salivary glands.
106. Differential diagnosis of malignant tumors of the salivary glands.
107. Principles of treatment of patients with malignant tumors of the salivary glands.
108. Comprehensive treatment of patients with malignant tumors of the salivary glands.

109. Methods of radiation therapy in the treatment of malignant neoplasms of the salivary glands.
110. Methods of treatment of malignant neoplasms of the parotid salivary gland.
111. Surgical methods in the treatment of malignant neoplasms of the submandibular salivary gland.
112. Chemical therapeutic drugs in the complex or combined treatment of malignant neoplasms of the salivary glands.
113. Epidemiology of cancer of the upper and lower jaws.
114. Methods of diagnosis of malignant neoplasms of the jaws.
115. Upper jaw cancer clinic.
116. Methods for diagnosing cancer of the upper jaw.
117. Ways of metastasis of tumors of the jaws.
118. Principles of treatment of cancer of the upper jaw.
119. Mandibular cancer clinic.
120. Treatment of mandibular cancer.
121. Chemotherapeutic drugs, the scheme of application in the treatment of malignant neoplasms of the jaws.
122. Rehabilitation of patients with cancer of the jaws.
123. Factors influencing the occurrence of malignant neoplasms of the lips, tongue, oral mucosa.
124. Classification of malignant neoplasms of the lips, tongue, oral mucosa.
125. Principles of diagnosis of malignant neoplasms of the lips, tongue, oral mucosa.
126. Cytological method of research. Methods of fencing the material in malignant neoplasms of the lips, tongue, oral mucosa.
127. Biopsy. Methods of performing various biopsy methods.
128. Rules for taking a biopsy.
129. Principles of treatment of malignant neoplasms of the lips, tongue, oral mucosa.
130. Clinical examination of patients with malignant neoplasms of the lips, tongue, oral mucosa.

The list of theoretical questions for preparation of students for semester final attestation

Module 4.

1. Statistics and classification of injuries of the maxillofacial region in peacetime.
2. Basic and additional methods of examination of the victim with damage to the maxillofacial region.
3. Subject and tasks of military dentistry, maxillofacial surgery. Organization of assistance to wounded servicemen of the Armed Forces of Ukraine in peacetime and wartime.

4. Layered structure of soft tissues in different topographic regions of the face. Definition of "scratch", "bruise", "wound".
5. Classification and clinic of soft tissue wounds of the maxillofacial region in peacetime. Features of diagnosis of traumatic soft tissue injuries of the maxillofacial region in peacetime.
6. Classification of bleeding. Temporary and permanent methods to stop bleeding.
7. Definition of the concept of "primary surgical treatment of the wound". Features of primary surgical treatment of facial wounds. Types of primary surgical treatment. Types of seams.
8. General characteristics of gunshot wounds. Features of gunshot wounds of the tissues of the maxillofacial region. Classification of gunshot wounds of the tissues of the maxillofacial region.
9. Classification of complications of gunshot wounds of the tissues of the maxillofacial region.
10. Immediate and early complications of gunshot wounds of the tissues of the maxillofacial region. Clinical manifestations. Prevention measures. Treatment.
11. Late complications of injuries of the maxillofacial region. Clinical manifestations. Prevention measures. Treatment of the wounded with late complications of injuries of the maxillofacial region.
12. Traumatic disease: pathogenesis, classification, periods and course, features of treatment in maxillofacial wounded.
13. Asphyxia with damage to the tissues of the thyroid gland: classification, features of the clinical course. Providing care to patients.
14. Classification, clinical picture and methods of treatment of tooth dislocations.
15. Classification, clinical picture and methods of treatment of tooth fractures.
16. Clinic and diagnosis of fracture of the alveolar process. Methods of treatment of alveolar process fracture.
17. Features of the clinical picture of blind, tangential and penetrating soft tissue injuries of the maxillofacial region.
18. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of first aid.
19. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of pre-medical care.
20. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of first aid.
21. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of qualified medical care.
22. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of specialized medical care.
23. Surgical methods of treatment of non-gunshot fractures of the mandible. Types of direct osteosynthesis, indications and contraindications

for use, modern methods of surgical interventions. Errors and complications.

24. Surgical methods of treatment of non-gunshot fractures of the mandible. Types of indirect osteosynthesis, indications and contraindications for use, modern methods of surgical interventions. Errors and complications.
25. General (drug) treatment of non-gunshot fractures of the jaws.
26. Surgical methods of treatment of non-gunshot fractures of the upper jaw. Types of direct osteosynthesis, indications and contraindications for use, methods of surgical interventions. Errors and complications.
27. Surgical methods of treatment of non-gunshot fractures of the upper jaw. Types of indirect osteosynthesis, indications and contraindications for use, methods of surgical interventions. Errors and complications.
28. Classification and clinical manifestations of nasal bone fractures. Diagnosis of fractures of the nasal bones. Stopping nasal bleeding with a fracture of the nasal bones. Anterior and posterior tamponade of the nose: indications, technique. Surgical treatment of nasal bone fractures.
29. Classification and clinical manifestations of fractures of the cheekbone and arch. Diagnosis of fractures of the cheekbone and arch.
30. Conservative and surgical methods of treatment of fractures of the cheekbone and arch.
31. Thermal and chemical injuries of the maxillofacial region. Features of clinical manifestations, diagnosis and medical care for the wounded.
32. Transport immobilization of bone fragments. Types of temporary immobilization of jaw fragments. At what stages of medical evacuation it is expedient to use transport immobilization.
33. Permanent immobilization of bone fragments of the maxillofacial region. Types of permanent immobilization of jaw fragments.
34. Specialized care for gunshot wounds of the lower jaw.
35. Specialized care for gunshot wounds of the upper jaw.
36. Orthopedic methods of treatment of mandibular fractures. See tires. Tooth , tooth-ash and ash tires. Laboratory splints and their use for jaw injuries. Indications and contraindications. Pros and cons of use.
37. Orthopedic-hardware method of treatment of jaw injuries: types, indications.
38. Combined injuries of the facial and cerebral skull: classification, features of the course, diagnosis of cerebrospinal fluid, principles of care.
39. Combined radiation injuries of the maxillofacial region: classification, features of the course, care.
40. Combined chemical injuries of the maxillofacial region: classification, features of the course, care.
41. Burns of the face: classification, features of a course, rendering of the help at stages of medical evacuation. Treatment of facial burns.

42. Cellular elements of bone tissue. Types of bone regeneration. Types of calluses. Optimal conditions for bone regeneration and bone formation.
43. Burn disease. pathogenesis, classification, periods and course, features of treatment in maxillofacial wounded. Consequences of burn disease.
44. Classification of frostbite. Additional factors that stimulate frostbite.
45. Clinic and treatment of frostbite of facial tissues. Consequences of frostbite depending on the degree.
46. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of qualified medical care.
47. Determining the scope and procedure for providing medical care to the maxillofacial wounded at the stage of specialized medical care.
48. Purpose and tasks of military medical examination. Features of examination of maxillofacial wounded and patients during military medical examination. Criteria for determining fitness for military service and combat capability of maxillofacial wounded and sick. Types of disability.
49. Basic principles and methods of medical nutrition of maxillofacial wounded, types of diets.
50. Basic principles, indications and contraindications to physical therapy and physiotherapy for maxillofacial injuries.

Module 5.

1. Features of the structure of the temporomandibular joint in the age aspect.
2. Innervation and blood supply of the temporomandibular joint.
3. Biomechanics of the temporomandibular joint depending on the type of bite.
4. Classification of mandibular dislocations.
5. Clinic of anterior mandibular dislocation.
6. Clinic of posterior mandibular dislocation.
7. Diagnosis of mandibular dislocations.
8. Conservative methods of treatment of mandibular dislocation.
9. Surgical methods of treatment of mandibular dislocation
10. The etiology and pathogenesis of arthritis, arthrosis, arthritis , osteoarthritis temporomandibular joint.
11. Examination plan of a patient with acute and chronic arthritis, arthrosis-arthritis , arthrosis of the temporomandibular joint.
12. Classifications of arthritis, arthrosis-arthritis , arthrosis of the temporomandibular joint.
13. Clinical signs and methods of treatment of acute arthritis of the temporomandibular joint.
14. Clinical signs and methods of treatment of chronic arthritis of the temporomandibular joint.
15. Clinical signs and methods of treatment of arthrosis-arthritis of the temporomandibular joint.

16. Clinical signs and methods of treatment of arthrosis of the temporomandibular joint.
17. Schemes of treatment of patients with arthritis, arthrosis-arthritis , arthrosis of the temporomandibular joint.
18. Etiopathogenesis of mandibular contracture.
19. Types of mandibular contractures.
20. Clinical manifestations of mandibular contracture.
21. Diagnosis of mandibular contracture.
22. Methods of treatment of patients with mandibular contracture.
23. Surgical methods of treatment of patients with mandibular contracture.
24. Mechanotherapy and physiotherapy in the complex treatment of mandibular contracture.
25. Causes of recurrence of mandibular contracture. Methods of prevention.
26. Etiology and pathogenesis of different types of ankylosis of the temporomandibular joint.
27. Examination plan for a patient with ankylosis of the temporomandibular joint.
28. Classification of ankylosis of the temporomandibular joint.
29. Clinical signs of ankylosis of the temporomandibular joint.
30. The scheme of treatment of patients with ankylosis of the temporomandibular joint.
31. Methods of surgical treatment of ankylosis of the temporomandibular joint.
32. Etiology and pathogenesis of different types of temporomandibular joint dysfunction.
33. Clinical signs of temporomandibular joint dysfunction.
34. The scheme of treatment of patients with dysfunction of the temporomandibular joint.
35. Classification of defects and deformations of the maxillofacial region.
36. Planning of plastic and reconstructive operations.
37. Indications for plastic and reconstructive surgery.
38. Principles of reconstructive operations.
39. Contraindications to plastic and reconstructive surgery.
40. Classification of types of plastic operations.
41. Indications for plastic local tissues.
42. Contraindications to plastic surgery with local tissues.
43. The positive aspects of plastic local fabrics.
44. The downsides of plastic are local fabrics.
45. Planning of plastic with local fabrics according to Limberg.
46. Conditions for successful plastic surgery with local fabrics.
47. Sculpture by YK Szymanowski.
48. Plastics with counter triangular flaps (Z - plastic) according to Limberg.
49. Plastic rags on the leg.
50. Indications are contraindications to plastic Filatov stem.
51. Determining the optimal donor site for stem collection.

52. Planning and technique of performing plastic with Filatov stem.
53. Types of stem-like rags.
54. Rules of care for Filatov's stalk.
55. Filatov's stalk training methods .
56. The method of free skin grafting on the face. Indications and contraindications.
57. Advantages and disadvantages of existing methods of free skin grafting when applied to the face.
58. Methods of lifting and mobilizing skin flaps for free transplantation on the face.
59. Method of transplanting a free flap to the region of the defect.
60. The technique of skin grafting into the oral cavity.
61. Mucosal transplantation and its indications.
62. The mechanism of congenital and acquired cranial-maxillofacial deformities.
63. Clinical manifestations of fibrous dysplasia .
64. Clinical manifestations of Paget's disease.
65. Clinical manifestations of dysostosis (maxillofacial, maxillofacial, craniofacial).
66. Methods of diagnosis of craniomaxillary deformities.
67. Definition of "osteoplasty". Classification of osteoplastic materials.
68. Types of bone regeneration.
69. Advantages and disadvantages of using bone grafts.
70. Methods of using bone grafts in craniofacial surgery.
71. The use of cartilage grafts in craniofacial surgery.
72. The use of implants made of metal, silicone, plastics in craniofacial surgery.
73. Etiology and pathogenesis of mandibular deformities.
74. The main clinical signs of progeny .
75. The main clinical signs of macrogeny .
76. The main clinical signs of microgeny .
77. The main clinical signs of open occlusion.
78. The main clinical signs of the syndrome of I-II gill arches.
79. The sequence of examination of the general and local status of the patient with deformities of the mandible
80. Surgical methods of treatment of progeny.
81. Surgical methods of treatment of macrogeny.
82. Surgical methods of treatment of microgeny.
83. Surgical methods of treatment of open bite.
84. Surgical methods of treatment of the syndrome of I-II gill arches.
85. Etiology and pathogenesis of mandibular defects.
86. The sequence of examination of the general and local status of a patient with a defect of the mandible
87. Surgical methods of treatment of mandibular defects.

88. Etiology and pathogenesis of mandibular deformities.
89. The main clinical signs of macrognathia.
90. The main clinical signs of micrognathia.
91. The main clinical signs of open occlusion.
92. The main clinical signs of the syndrome of I-II gill arches.
93. Surgical methods of treatment of macrognathia.
94. Surgical methods of treatment of micrognathia.
95. Etiology and pathogenesis of upper jaw defects.
96. The main clinical signs of defects of the upper jaw.
97. The sequence of examination of the general and local status of a patient with a defect of the upper jaw
98. Surgical methods of treatment of defects of the upper jaw.
99. Classification of devices for compression-distraction osteosynthesis.
100. Mechanism of action of compression-distraction devices.
101. Technique of resection of the alveolar ridge.
102. Technique of frenulektomy and frenulotomy.
103. The concept of vestibuloplasty and its types.
104. Technique of vestibuloplasty.
105. Technique of tunnel vestibuloplasty.
106. Biological substantiation of osseointegration.
107. Stages of contact osteogenesis during dental implantation.
108. Advantages and disadvantages of different types of dental implants.
109. Types of modern dental implants.
110. Indications for dental implantation.
111. Contraindications to dental implantation.
112. Classification of atrophies of the jaws.
113. Principles of directed bone regeneration.
114. Protocol of the surgical stage of dental implantation.
115. Modern materials for bone augmentation.
116. Application of X-ray diagnostics in dental implantology.
117. Basic principles of working with soft tissues during dental implantation. Features of closing of defects of a mucous membrane, after a surgical stage of dental implantation.
118. Indications for surgical methods of treatment of periodontal diseases.
119. Surgical methods of treatment of periodontal diseases
120. Formation of the dorsum of the oral cavity: indications and contraindications, stages.
121. The concept of neuralgia and neuritis, facial pain.
122. Methods of treatment of facial pain syndromes.
123. Methods of treatment of trigeminal neuralgia and neuritis.
124. Methods of treatment of neuralgia and neuritis of the facial nerve.

Module 6.

1. Periostitis of the jaws: classification, etiology, pathogenesis, clinic, тdifferential diagnosis.
2. Treatment of acute purulent odontogenic periostitis of the jaws.
3. Osteomyelitis of the jaws. Etiology, theories of pathogenesis, classification.
4. Odontogenic osteomyelitis of the jaws. Acute stage. Clinic, diagnosis, treatment.
5. Odontogenic osteomyelitis of the jaws. Chronic stage. Clinic, diagnosis. Conservative treatment.
6. Sequestrectomy operation. Indications, deadlines and its methodology. Prevention of complications.
7. Features of the clinical course of odontogenic osteomyelitis of the mandible. Dependence on anatomical and topographic features.
8. Features of the clinical course of odontogenic osteomyelitis of the upper jaw. Dependence on anatomical and topographic features.
9. Differential diagnosis of acute periodontitis, periostitis and osteomyelitis of the jaws.
10. Features of the clinical course, diagnosis and treatment of neodontogenic acute osteomyelitis of the jaws.
11. Features of the clinical course, diagnosis and treatment of traumatic osteomyelitis.
12. Complications of osteomyelitis of the jaws.
13. Actinomycosis of the maxillofacial region: etiology, pathogenesis, clinic, differential diagnosis, treatment.
14. Syphilis of the maxillofacial region: clinic, differential diagnosis, treatment.
15. Tuberculosis of the maxillofacial region: clinic, differential diagnosis, treatment.
16. Surgical anatomy of the cellular semester final certification of the head and neck.
17. Abscesses and phlegmons of maxillofacial localization. General clinical signs, methods and techniques of diagnosis.
18. Abscesses and phlegmons of maxillofacial localization. Principles comprehensive treatment.
19. Phlegmon of the subtemporal and pterygopalatine fossae . Etiology, pathogenesis, clinic; diagnosis, treatment.
20. Phlegmon of the temporal region. Etiology, clinic, diagnosis, treatment.
21. Abscesses and phlegmons of the infraorbital region. Etiology, clinic, diagnosis, treatment.
22. Abscesses and phlegmons of the chin region. Etiology, clinic, diagnosis, treatment.
23. Abscess and phlegmon of the mandibular tissue semester final certification ce, its surgical anatomy. Etiology, clinic, diagnosis, treatment.

24. Abscess and phlegmon of the pterygoid-maxillary tissue semester final certification ce. Surgical anatomy, etiology, clinic, diagnosis, treatment.
25. Abscess and phlegmon of the submaseteric tissue semester final certification. Surgical anatomy. Etiology, clinic, diagnosis, treatment.
26. Abscess and phlegmon of the parotid-masticatory region. Etiology, surgical anatomy, clinic, diagnosis, treatment.
27. Abscess and phlegmon of the buccal region. Surgical anatomy, etiology, clinic, diagnosis, treatment.
28. Abscess and phlegmon of the maxillary region. Surgical anatomy, etiology, clinic, diagnosis, treatment.
29. Abscess and phlegmon of the tongue. Etiology, clinic, diagnosis, treatment.
30. Phlegmon of the bottom of the mouth. Surgical anatomy, etiology, clinic, diagnosis, treatment.
31. Abscess of the maxillofacial groove. Surgical anatomy, etiology, clinic, diagnosis, treatment.
32. Septic-necrotic phlegmon of Jansul-Ludwig. Surgical anatomy, etiology, clinic, diagnosis, treatment.
33. Abscess and phlegmon of the pharyngeal tissue semester final certification. Surgical anatomy, etiology, clinic, diagnosis, treatment.
34. Odontogenic and non-odontogenic abscess maxillofacial area, differential diagnosis, clinical course, treatment, complications.
35. Clinic, topographic anatomy and treatment of phlegmon of the neck.
36. Odontogenic sepsis. Etiology, clinic, differential diagnosis, treatment.
37. Infectious and toxic shock. Etiology, clinic, differential diagnosis, treatment.
38. Thrombophlebitis of facial veins. Etiology, clinic, differential diagnosis, treatment.
39. Thrombosis of the cavernous sinus. Etiology, clinic, differential diagnosis, treatment.
40. Odontogenic sinusitis. Etiology, classification, clinic, diagnosis.
41. Odontogenic sinusitis. Conservative and surgical treatment. Complications and their prevention.
42. Lymphadenitis of the maxillofacial region: classification, clinic, differential diagnosis, treatment.
43. Boils of the maxillofacial region: classification, clinic, complications and treatment.
44. Carbuncles of the maxillofacial region: classification, clinic, complications and treatment.
45. Acute inflammation of the salivary glands: classification, clinical course, treatment.
46. Salivary glands diseases: etiology, clinic, complications and treatment.
47. Herzenberg's pseudoparotitis : etiology, clinic, complications and treatment.

48. Chronic inflammation of the salivary glands: classification, clinical course, reatment.
49. Noma. Etiology, pathogenesis, clinical picture, treatment. Differential diagnosis, complications.
50. The face was emaciated. Etiology, pathogenesis, clinical picture, treatment.

List of practical skills for final modular control and semester final attestation

1. Demonstrate mandibular anesthesia apodactically.
2. Demonstrate mandibular anesthesia with a finger method.
3. Demonstrate tuberculous anesthesia by the oral method.
4. Demonstrate tuberculous anesthesia by intraoral method.
5. Demonstrate palatal anesthesia at the large palatine foramen.
6. Demonstrate palatal anesthesia.
7. Demonstrate terminal anesthesia for analgesia of the middle upper alveolar nerves.
8. Demonstrate incisional anesthesia on the upper jaw extraorally.
9. Demonstrate incisional anesthesia on the upper jaw intraorally.
10. Demonstrate infraorbital anesthesia by extraoral method.
11. Demonstrate conduction infraorbital anesthesia by intraoral method.
12. Demonstrate infraorbital anesthesia near the orbital foramen by intraoral method.
13. Demonstrate Vishnevsky's terminal anesthesia.
14. Demonstrate terminal anesthesia.
15. Demonstrate conduction anesthesia of II and III branches of the trigeminal nerve in the temporal fossa by creeping infiltration according to Vishnevsky.
16. Demonstrate anesthesia near the oval hole under the temporal lobe.
17. Demonstrate anesthesia of the maxillary nerve submandibular-pterygoid by Weisblat .
18. Demonstrate Bershe-Dubov anesthesia.
19. Demonstrate Weisbrem anesthesia.
20. Demonstrate anesthesia of the buccal nerve.
21. Demonstrate incisional anesthesia on the lower jaw.
22. Demonstrate anesthesia near the mental opening by intraoral method.
23. Demonstrate mandibular anesthesia by the oral route.
24. Demonstrate torus anesthesia on the edentulous jaws.
25. Demonstrate torus anesthesia.
26. Demonstrate anesthesia near the mental opening by extraoral method.
27. Demonstrate mandibular anesthesia apodactically .
28. Demonstrate mandibular anesthesia with a finger method.
29. Demonstrate tuberculous anesthesia by the oral method.
30. Demonstrate tuberculous anesthesia by intraoral method.
31. Demonstrate palatal anesthesia at the large palatine foramen.

32. Demonstrate palatal anesthesia.
33. Demonstrate terminal anesthesia for analgesia of the middle upper alveolar nerves.
34. Demonstrate incisional anesthesia on the upper jaw by oral means.
35. Demonstrate incisional anesthesia on the upper jaw intraorally .
36. Demonstrate infraorbital anesthesia by extraoral method.
37. Demonstrate conductive infraorbital anesthesia by intraoral method.
38. Demonstrate infraorbital anesthesia near the orbital foramen by intraoral method.
39. Demonstrate Vishnevsky anesthesia.
40. Technique of anesthesia to reveal phlegmon of the submandibular region.
41. Demonstrate the technique of performing anesthesia when opening the phlegmon of the temporal region (middle layer).
42. Demonstrate the technique of performing anesthesia to reveal a deep phlegmon of the temporal region.
43. Demonstrate the technique of performing anesthesia to open the phlegmon of the parotid semester final certification.
44. Demonstrate the technique of performing anesthesia when opening the phlegmon of the temporal fossa.
45. Demonstrate the performance of anesthesia to reveal phlegmon of the maxillary semester final certification.
46. Demonstrate the sequence of anesthesia to reveal a tongue abscess.
47. Demonstrate the sequence of anesthesia to reveal phlegmon of the chin .
48. Demonstrate the sequence of anesthesia to open a purulent lesion in lymphadenitis of the buccal lymph node.
49. Demonstrate the sequence of anesthesia to open the abscess of the canine fossa.
50. Demonstrate the sequence of anesthesia to open a purulent lesion in periauricular lymphadenitis.
51. Demonstrate the procedure for performing anesthesia to open a purulent lesion in purulent lymphadenitis of the mandibular region.
52. Demonstrate anesthesia for maxillofacial surgery .
53. Demonstrate the performance of anesthesia for fractures of the lower jaw.
54. Demonstrate anesthesia for fractures of the upper jaws by Le For I (lower type).
55. Demonstrate anesthesia for fractures of the upper jaws according to Le For II (middle type).
56. Demonstrate anesthesia for fractures of the upper jaws according to Le For III (upper type).
57. Demonstrate the stages of manufacturing a smooth tire-bracket according to SS Tigerstedt
58. Demonstrate anesthesia to reposition the chin bone and chin arch.
59. Demonstrate the performance of anesthesia for deep phlegmon of the temporal region.

60. Demonstrate the performance of anesthesia to reveal phlegmon of the mandibular region.
61. Demonstrate the stages of repositioning and fixation of fragments in fractures of the chin and arch by extraoral access according to Limberg.
62. Demonstrate the sequence of anesthesia to reveal superficial abscesses of the maxillofacial region.
63. Demonstrate the performance of anesthesia for surgery - resection of the tips of the roots of teeth 11 and 21.
64. Demonstrate the sequence of fixing the fragments of the upper jaw with a splint with a reference plane.
65. Demonstrate temporary immobilization of upper jaw fragments
66. Demonstrate the sequence of treatment for stenotic asphyxia in the wounded in the maxillofacial region.
67. Demonstrate the stages of repositioning, fixation and immobilization of bone fragments of the mandible in the presence of a tooth in the fracture fissure.
68. Demonstrate the sequence of repositioning and fixation of bone fragments of the mandible with the help of the Rudko apparatus.
69. Demonstrate the sequence of permanent immobilization of fragments of the upper jaws according to Faltin-Adams .
70. Demonstrate the technique of correcting anterior dislocation of the mandible.
71. Demonstrate the sequence of application of Vasiliev tires.
72. Demonstrate the sequence of manufacture and application of the tire with a support plane.
73. Demonstrate the stages of manufacturing and applying a tire with an inclined plane.
74. Demonstrate the sequence of manufacture and application of the tire with a semester final certification.
75. Demonstrate the stages of manufacture and application of a double-jaw tire with hook hooks.
76. Demonstrate the stages of manufacturing and applying a smooth tire-bracket.
77. Demonstrate the stages of ligature intermaxillary fixation of jaw fragments according to the method of the Military Medical Academy (simple ligature binding).
78. Demonstrate the sequence of ligature octagonal ligation of teeth.
79. Demonstrate the sequence of ligature bonding of teeth according to Geikin .
80. Demonstrate the sequence of ligature bonding of teeth by Ivy.
81. Demonstrate ligature bonding of teeth by Vilga.
82. Demonstrate temporary immobilization of the mandible by intermaxillary ligature ligation.
83. Demonstrate the stages of applying a standard slingshot Entin.
84. Demonstrate the manufacture and application of an individual plaster chin bandage for mandibular fractures.
85. Demonstrate temporary immobilization of the mandible with an elastic chin sling behind Pomerantseva-Urbanska .

86. Demonstrate the stages of temporary immobilization of the lower jaw with a bandage.
87. Demonstrate the manufacture and technique of bandage sling in the case of fractures of the mandible.
88. Demonstrate the sequence of actions of the doctor at correction of an outdated anterior dislocation of the mandible.
89. Demonstrate the technique of correcting acute anterior bilateral mandibular dislocation.
90. Demonstrate tooth extraction 11.
91. Demonstrate tooth extraction 22.
92. Demonstrate the removal of the front teeth of the upper jaw.
93. Demonstrate removal 13.
94. Demonstrate the stages of removal of retained teeth 13, 23.
95. Demonstrate tooth extraction 14.
96. Demonstrate tooth extraction 15.
97. Demonstrate tooth extraction 24.
98. Demonstrate tooth extraction 16.
99. Demonstrate tooth extraction 26.
100. Demonstrate tooth extraction 17.
101. Demonstrate tooth extraction 27.
102. Demonstrate tooth extraction 18.
103. Demonstrate tooth extraction 28
104. Demonstrate the removal of the retained third large root teeth of the mandible.
105. Demonstrate tooth extraction 31.
106. Demonstrate tooth extraction 41.
107. Demonstrate the removal of tooth roots 42.
108. Demonstrate the removal of tooth roots 33.
109. Demonstrate the removal of the roots of teeth 46 and 47.
110. Demonstrate the removal of the roots of teeth 35 and 36.
111. Demonstrate tooth extraction 46.
112. Demonstrate tooth extraction 47.
113. Demonstrate the removal of tooth roots 48
114. Demonstrate the stages of the operation to remove tooth 38 in its dystopia .
115. Demonstrate the removal of incisors on the upper jaw.
116. Demonstrate the removal of tooth 48 during its retention .
117. Demonstrate the removal of the canines of the upper jaw.
118. Demonstrate tooth extraction on the right upper jaw.
119. Demonstrate tooth extraction 28.
120. Demonstrate the removal of molars on the right upper jaw.
121. Demonstrate the removal of molars on the left upper jaw.
122. Demonstrate tooth extraction 18.
123. Demonstrate the removal of incisors on the lower jaw.

124. Demonstrate the removal of canines on the lower jaw.
125. Demonstrate the removal of the premolars on the lower jaw on the left.
126. Demonstrate the removal of molars on the lower jaw on the left.
127. Demonstrate the removal of molars on the lower jaw on the right.
128. Demonstrate the removal of the roots of the molars of the upper jaws.
129. Demonstrate the removal of the roots of the premolars on the upper jaws.
130. Demonstrate the removal of the roots of the molars of the mandible.
131. Demonstrate the removal of tooth roots 18.
132. Demonstrate tooth extraction 23.
133. Demonstrate tooth extraction 13.
134. Demonstrate the removal of a tooth retained tooth 13.
135. Demonstrate tooth extraction 35.
136. Demonstrate tooth extraction 25.

Form of final control of learning success Final modular control

Module 3 "Oncology of the maxillofacial region" - final modular control
Module 4 "Traumatology of the maxillofacial region" - semester final certification
Module 5 "Reconstructive surgery of the maxillofacial region" Final modular control
Module 6 "Subordination" Final modular control

Current and final control system

Evaluation of current educational activities is carried out by scientific and pedagogical (pedagogical) employees during seminars and practical classes, industrial practice. The main purpose of current control is to provide feedback between the researcher and the graduate in the learning process and the formation of learning motivation of higher education. The information obtained during the current control is used both by the researcher and pedagogical worker - to adjust technologies, methods and teaching aids, and by higher education seekers - to plan independent work.

Ongoing control can take the form of an oral interview, solving situational tasks, assessing the performance of manipulations, written control, written or software computer testing in practical classes, assessing the performance of higher education students in discussions at seminars, discussions, etc. Forms of current control and evaluation criteria are defined in the work program specifically for each discipline.

Standardized generalized criteria for assessing the knowledge of higher education students in PSMU

For 4-point
scale Evaluation in ECTS Evaluation criteria

5 (excellent) A student shows special creative abilities, is able to acquire knowledge independently, without the help of a teacher finds and processes the necessary information, is able to use the acquired knowledge and skills to make decisions in unusual situations, convincingly argues answers, independently reveals their talents and inclinations. has at least 90% knowledge of the topic both during the survey and all types of control.
4 (good) B Applicant is fluent in the studied amount of material, applies it in practice, freely solves exercises and problems in standardized situations, independently corrects errors, the number of which is insignificant, has at least 85% knowledge of the topic as during the survey , and all types of control.
C The student is able to compare, summarize, systematize information under the guidance of a scientific and pedagogical worker, in general, independently apply it in practice, control their own activities; to correct mistakes, among which there are significant ones, to choose arguments to confirm opinions, has at least 75% of knowledge on the topic both during the survey and all types of control.
3 (satisfactory) D The student reproduces a significant part of the theoretical material, shows knowledge and understanding of the basic provisions with the help of research and teaching staff can analyze educational material, correct errors, among which there is a significant number of significant, has at least 65% knowledge of during the survey, and all types of control.
E The student has the educational material at a level higher than the initial, a significant part of it reproduces at the reproductive level. has at least 60% knowledge of the topic both during the survey and all types of control.
2 (unsatisfactory) FX The student has the material at the level of individual fragments, which make up a small part of the material, has less than 60% knowledge of the topic both during the survey and all types of control.
F The student has the material at the level of elementary recognition and reproduction of individual facts, elements, has less than 60% knowledge of the topic as during the survey, and all types of control.

The final module control is carried out upon completion of the study of the program material of the module in the discipline and is carried out, as a rule, at the last lesson of the module. Usually the number of modules in one discipline does not exceed three. Compilation and re-compilation of the final modular control is carried out in accordance with the "Regulations on the organization and methodology of assessment of educational activities of higher education in the PSMU"
Applicants for higher education who have scored the required minimum number of points during the current control (average grade point average 3.0 and above), do not have missed vacancies for lectures, seminars and practical classes, have mastered the topics for independent work within the module and completed all requirements for each university discipline, which are provided by the working curriculum for the discipline (protection of medical history, positive assessments of meaningful modules, received permission to compile final module control during the test control, etc.). The hours provided in the working curriculum are used for final module

control. Final module control is accepted by scientific and pedagogical (pedagogical) employees appointed by the head of the department. In order to objectively impartial assessment of knowledge of higher education students, it is recommended to involve in the reception of final module control scientific and pedagogical staff of the department who did not conduct practical classes in these university groups in this category of students. The final module control score is evaluated in points and is not converted into a traditional 4-point score. The maximum number of final module control points is 80 points. The minimum number of final module control points at which the control is considered completed is 50 points. The maximum number of points per module is 200 points (of which up to 120 points for current performance).

The questions (tasks, situational tasks) that are submitted to the final module control should be formulated in such a way that the reference answer of the higher education applicant to each lasts approximately 3-5 minutes. The questions should cover the most important sections of the working curriculum, which are sufficiently covered in the literature sources recommended as the main (basic) in the study of the discipline. Examination tickets for final module control are formed on the issues, which are approved at the meeting of the department. The total number of questions (tasks, situational tasks) in each ticket should not exceed three. The PMC must be asked questions, which are determined for self-study within the module. In case of violation by the applicant of higher education of the rules of university integrity (p.2.2.5. Of the Rules of Procedure), the evaluation results obtained during the preparation of the final module control to the applicant for the answer is graded "unsatisfactory".

Applicants for higher education who during the study of the module, which is the final control, had an average score of current performance from 4.50 to 5.0 are exempt from final module control and automatically (by consent) receive a final grade in accordance with table 2, with the presence of the applicant education at the final module control is mandatory. In case of disagreement with the assessment, this category of higher education seekers is final module control according to the general rules.

The obtained points for the module are presented by the research and pedagogical worker in the "Statement of final module control" (and the individual curriculum of the student.

Unified table of correspondence of scores for current performance, scores for final module control, *exam, and traditional four-point score.*

Average score for current performance (A)	Points for current success in the module (A * 24)	Points for final module control from the module (A*16)	Points for the module and / or exam (A*24 + A*16)	Category ECTS	By 4-point scale
2	48	32	80	**F FX**	**2 unsatisfactorily**
2,1	50	34	84		
2,15	52	34	86		

2,2	53	35	88		
2,25	54	36	90		
2,3	55	37	92		
2,35	56	38	94		
2,4	58	38	96		
2,45	59	39	98		
2,5	60	40	100		
2,55	61	41	102		
2,6	62	42	104		
2,65	64	42	106		
2,7	65	43	108		
2,75	66	44	110		
2,8	67	45	112		
2,85	68	46	114		
2,9	70	46	116		
2,95	71	47	118		
3	72	50	122	**E**	**3 satisfactorily**
3,05	73	50	123		
3,1	74	50	124		
3,15	76	50	126		
3,2	77	51	128		
3,25	78	52	130	**D**	
3,3	79	53	132		
3,35	80	54	134		
3,4	82	54	136		
3,45	83	55	138		
3,5	84	56	140		
3,55	85	57	142		
3,6	86	58	144	**C**	**4 good**
3,65	88	58	146		
3,7	89	59	148		
3,75	90	60	150		
3,8	91	61	152		
3,85	92	62	154		
3,9	94	62	156		
3,95	95	63	158		
4	96	64	160	**B**	
4,05	97	65	162		
4,1	98	66	164		
4,15	100	66	166		
4,2	101	67	168		
4,25	102	68	170		
4,3	103	69	172		
4,35	104	70	174		
4,4	106	70	176		

4,45	107	71	178		
4,5	108	72	180	**A**	**5 perfectly**
4,55	109	73	182		
4,6	110	74	184		
4,65	112	74	186		
4,7	113	75	188		
4,75	114	76	190		
4,8	115	77	192		
4,85	116	78	194		
4,9	118	78	196		
4,95	119	79	198		
5	120	80	200		

Information about students who are not enrolled in final module control, with the exact reason for non-enrollment is also included in the "Statement of final module control" and individual curricula of students. The reasons for non-enrollment may be the following:

a) the applicant for higher education has unfulfilled absences from classes and (or) lectures, industrial practice. Mark "n / v" (failed) in the column "points for final module control ";

b) the applicant of higher education attended all classes (practical, seminar, lecture), but did not score the minimum number of points for the current educational activity and is not allowed to final module control. Mark "n / a" (not allowed) in the column "points for final module control ";

c) the higher education student attended all classes, scored points for current educational activities and was admitted to the final module control, but did not appear at the final module control. The mark "n / z" (did not appear) in the column "points for final module control ".

The applicant for higher education has the right to compile and re-compile final module control

Permission for reorganization of final module control is issued by the dean, director of the institute (or his deputy) in the form of "Personal statement of reorganization of final control" which the student receives in the dean's office under personal signature upon presentation of individual curriculum and (if necessary) information from the debt liquidation department. (absence of "nb", average grade point average of 3.0 or more). In the case of organized reorganization of the final module control by a group of applicants for higher education, the general statement is used.

The personal list of rearrangement of the final modular control (general statement) is filled in by the head of the department or his authorized person in two copies, one of which remains at the department, the other is returned to the dean's office by the head of the educational part (responsible teacher).

Applicants for higher education have the right to retake final module control, until the end of the study of the discipline.

If the applicant for higher education has not passed the final module control, in the discipline, except for the semester control in the form of an exam, he can not be admitted to the semester control in the relevant discipline.
An uncompiled final module control in one discipline is not a ground for not admitting a higher education applicant to take the final semester control in another discipline, except for admission to the final certification.
If the discipline ends with a credit, the credit will be given only to those students who have attended all classes (or completed missed classes in the prescribed manner) and scored a convertible amount of points not less than the minimum (72 points). In the "Statement of final module control" in the column "Current control (points)" the researcher enters points after their conversion from the average score according to table 2, in the column "Final control (points)" the teacher makes a record "credited".
If the applicant has not passed at least one final module test before the beginning of the new semester, he receives for the discipline the traditional grade "2" and ECTS grade "F", which is the basis for deduction.
With the permission of the rector or the first vice-rector of the university, individual applicants for higher education may be individually determined an additional term for compiling (re-compiling) the final module tests.

Teaching methods

Verbal (lecture, explanation, story, conversation, instruction);
Graphically (observation, illustration, demonstration);
Practical (different to practice, experiment, practice).

Control methods

Oral interview.
Written survey.
Testing.

Methodical support

- Working curriculum in the discipline "Surgical Dentistry" (module 3 "Oncology of the maxillofacial region" and module 4 "Traumatology of the maxillofacial region");
- Thematic plans of lectures and practical classes from modules 3 and 4;
- Multimedia presentations of lectures.
- Complexes of test tasks for practical classes
- Models for splinting and ligature bonding of teeth to develop practical skills.

- Radiographs and photos of thematic patients.
- Tickets for the theoretical parts and SEMESTER FINAL CERTIFICATION in the discipline "Surgical Dentistry" (each contains 3 questions from Module 2, Module 3 and Module 4).
- Working curriculum in the discipline "Surgical Dentistry" (module 5 "Reconstructive and reconstructive surgery of the maxillofacial region" and module 6 "Subordination");
- Thematic plans of lectures and practical classes from module 5;
- Multimedia presentations of lectures.
- Complexes of test tasks for practical classes
- Models for splinting and ligature bonding of teeth to develop practical skills.
- Radiographs and photos of thematic patients.
- Tickets for the theoretical parts and Final modular control in the discipline "Surgical Dentistry".

Recommended reading

Basic literature

1. Oral and maxillofacial surgery: textbook for the students of stomatological faculties of higher medical education establishments of the IV level of accreditation. Pt. 1/ ed. V.O. Malanchuk, J.A. Kulbashna, A.V. Kopchak, R.O. Mamonov; Ministry of PublicHealth of Ukraine, National O.O. Bogomolets Medical University, Department of Oraland Maxillofacial Surgery. – Vinnytsia: Nova Knyha publ., 2011. – 423 p.: il. – на англ. мові.

2. V.O. Malanchuk et al. Oral and maxillofacial surgery. Pt. 2: textbook/ National O.O. Bogomolets Medical University, Department of Oraland Maxillofacial Surgery. – Vinnytsia: Nova knyha publ., 2011 – 288 p.: – на англ. мові.

3. Rybalov O.V. Clinical practice on surgical stomatology / O.V. Rybalov, D.S. Avetikov, O.S. Ivanyts'ka, I.O. Ivanyts'ky, V.M. Havryl'iev. – Poltava, 2015. – 110 p.

4. Tkachenko P.I. Propaedeutics of surgical stomatology and inflammatory diseases of maxillofacial region / P.I. Tkachenko, A.I. Pan'kevich, K.Yu. Rezvina / part one. – Poltava. – ASMI, 2011. – 284 p.

5. Tkachenko P.I. Propaedeutics of surgical stomatology and inflammatory diseases of maxillofacial region / P.I. Tkachenko, A.I. Pan'kevich, K.Yu. Rezvina / part two. – Poltava. – ASMI, 2011. – 226 p.

6. Textbook of Preclinical Conservative Dentistry / Nisha Garg / Jaypee Brothers Medical Pub; 2nd edition (January 31, 2017).- New Delhi, India.- 218 p.

Supplementary

1. Operative Dentistry: in 2 volumes. – Volume 1: Endodontics = Оперативна стоматологія: в 2 томах. – Том 1: Ендодонтія: підручник / за ред. А.В. Борисенка – Київ: Медицина, 2016. – 384 с.

2. Dental caries. Pulpitis. Apical periodontitis. Oral sepsis: a textbook/ A.V. Borysenko, M.Yu.Antonenko, Yu.G.Romanova, S.A.Shnayder [et al.]; ed. By A.V.Borysenko. – Odessa: Astro, 2015. – 314 p.
3. Oral mucosa diseases. / A.V. Borysenko, M.Yu.Antonenko, Yu.G.Romanova, S.A.Shnayder [et al.]; ed. By A.V.Borysenko. – Odessa: Print house, 2015. – 328 p.
4. Borysenko A.V. et al. Periodontal and Oral Mucosa Diseases. – Kyiv, AUS Medicine Publishing, 2018. – 624 p.
5. L.A. Khomenko, A.V. Savychuk, Ye.I. Ostapko, V.I. Shmatko, N.V. Bidenko, I.N. Golubeva , S.F. Lubarets. Pediatric therapeutic dentistry. – Kiev: Book-plus, 2012. – 240 p.
6. В.П. Неспрядько, З.Е. Жегулович, В.В. Ботвинко, С.В. Лисюк, В.В. Парій, Т.С. Неспрядько, Л.О. Етніс. Prosthetic Dentistry. Part I. Fixed Prosthodontics – Житомир: «Полісся», 2015. – 260 с., іл. Англ. Мовою
7. M.M.Rozhko, V.P.Nespryadko, I.V.Palyichuk, T.M.Mikhailenko, M.V.Melnichuk, H.S.Parasiyk, U.S.Dusko, S.V.Hulchuk Dental-Prosthetic technique. Under the Editorship of professor M.M.Rozhko, professor V.P.Nespryadko. – підручник, 2016. – 560 с.
8. Oral surgery self-training album for III, IV years study of dental faculty students (parts I and II) / Malanchuk V.A., Kulbashna Ya.A., Astapenko O.A.–Kyiv, 2013.
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12. Master dentistry / P. Coulthard, K. Horner PH. Sloan, E Theaker. – Edinburg, London, New York, Philadelphia, St Louis, Toronto, Churchill Livingstone, 2003. – 267 p.
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15. Peter Banks, Andrew Brown. Fractures of the Facial Skeleton. − Edinburgh, London, New York, Oxford, Philadelphia, St. Louis, Sydney, Toronto. − 2001.
16. Peter F. Mahoney, James M. Ryan, Adam J. Brooks, C. William Schwab. Ballistic Trauma. A Practical Guide. − Springer-Verlag London Limited. − 2005. – 662 p.
17. Peterson Larry, Ellis Edward, Hupp James, Tuker Myron. Oral and maxillofacial Surgery. − Mosby. − 2003. − 776 p.
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Electronic resource

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3. https://chirurgieomfio.usmf.md/wp-content/blogs.dir/109/files/sites/109/2017/09/Oral_and_Maxillofacial_Surgery_E-Book.pdf
4. https://www.baoms.org.uk/_userfiles/pages/files/professionals/careers_in_omfs/omfs_for_medical_students_and_allied_healthcare_professionals_1.pdf
5. https://www.slideshare.net/slideshow/a-concise-textbook-of-oral-and-maxillofacial-surgery/63300506
6. https://www.academia.edu/44784994/Textbook_of_Oral_and_Maxillofacial_Surgery_PDF_Drive_
7. https://s1.dentic.ir/book-3/145-contemporary-oral-maxillofacial-surgery.pdf
8. https://www.jpmedpub.com/jpadmin/tablecontents/978-81-8448-157-0/toc/toc.pdf

Developers:

Lokes K.P., Candidate of Medical Sciences, associate professor
Skikevych M.G., Candidate of Medical Sciences, associate professor*
Avetikov D. S.Doctor of medicine, prof.

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