

**Thematic plan of seminar-type classes
in the discipline " Oral Surgery "
for students of 2022 year of admission
according to the educational program specialization 31.05.03 Dentistry,
direction Dentistry (specialty),
full-time education form
2024-2025 academic year**

№	Topic	Ac.hours
5 semester		
1.	History of discovery and development of local anaesthetics. Clinical and pharmacological characteristics of modern carpule anaesthetics. Indications for use. Vasoconstrictors: mechanism of action, classification, indications and contraindications for use in anaesthetics. ¹ Physicochemical features of local anaesthetics. Classification and mechanism of action of anaesthetics. Concepts of anaesthetic activity and toxicity of anaesthetics. Release forms of medications. Storage of carpules and their defects. Instruments for local anaesthesia. ²	2
2.	Definition of the concepts of potentiated local anesthesia, premedication. Classification of methods. Types of medication used for premedication, mechanism of their action. ¹ Indications, contraindications for their use. The concept of the dental scale. Criteria for selection of premedication agents in outpatient dental practice. ²	2
3.	Infiltration methods of anesthesia (submucosal, intramucosal, subperiosteal). ¹ Periodontal methods of local anesthesia: intraligamentary anesthesia, intraseptal anesthesia, intrapulpal and intracanal anesthesia. Indications and contraindications. ²	2
4.	Methods of local anesthesia in the upper jaw. ¹ Infraorbital nerve block and nasopalatine nerve block. Intraoral and extraoral methods. Indications, technique of administration. ²	2
5.	Methods of anesthesia in the upper jaw. ¹ Block of the upper bulbous nerves (tuberal anesthesia) by intraoral and extraoral methods, block of the greater palatine nerve. Indications, technique. ²	2
6.	Anesthesia techniques in the upper jaw. ¹ Stem anesthesia for block of the 2nd branch of the trigeminal nerve. Indications, technique of administration. ²	2
7.	Methods of anesthesia in the lower jaw. ¹ Thorusal anesthesia. Indications, technique. ²	2
8.	Methods of anesthesia on the lower jaw. ¹ The technique of Gow-Gates anesthesia. Indications, technique of anesthesia. ²	2
9.	Methods of anesthesia on the lower jaw. ¹ Mandibular anesthesia by apodactyl methods (according to Verlotsky, according to Egorov, according to Alexandrov and other modifications). Indications, technique of	2

	anesthesia. ²	
10.	Methods of anesthesia on the lower jaw. ¹ Mandibular anesthesia by palpation method (according to Weissblatt). Indications, technique of anesthesia. ²	2
11.	Methods of anesthesia on the lower jaw. ¹ Technique of mandibular anesthesia by extraoral accesses. Indications, technique. ²	2
12.	Methods of anesthesia on the lower jaw. ¹ Blockades according to Bershe, Bershe-Dubov, Indications, technique of anesthesia. ²	2
13.	Methods of anesthesia on the lower jaw. ¹ Stem anesthesia for numbness of the 3rd branch of the trigeminal nerve according to Weissblatt. Indications, technique. ²	2
14.	Methods of anesthesia on the lower jaw. ¹ Trunk anesthesia for numbness of the 3rd branch of the trigeminal nerve according to Bershe-Dubov-Uvarov. Indications, technique. ²	2
15.	Methods of anesthesia on the lower jaw. ¹ Mental anesthesia and its modifications (according to Malamed). Indications, technique of anesthesia. Blockade of cheek and lingual nerves. Intraoral and extraoral methods. Indications, technique. ²	2
16.	Mistakes and complications of local anesthesia. ¹ Local complications of local anesthesia: damage to nerves, vessels, muscles, infection, local tissue necrosis, post-injection contractures and others. Methods of prevention and treatment. ² Causal factors of somatic complications in outpatient dental appointments. ¹ General complications of local anesthesia. Syncope. Collapse. ²	2
17.	Anaphylactic shock. Urticaria, Quincke's edema. ¹ Clinical picture, diagnostics. Hyperventilation. Asthmatic status. Asphyction. Foreign body in the upper respiratory tract. Clinic, diagnosis. ² Hypertensive crisis. Hypotension. Angina attack. Acute myocardial infarction. ¹ Clinic, diagnosis. Thyrotoxic crisis. ²	2
18.	Convulsive attack. ¹ Clinical picture, diagnosis. Hyperglycemic, hypoglycemic coma. Clinical picture, diagnosis. Differential diagnosis of common complications of local anesthesia. ² Pharmacologic agents for emergency care on the appointment. ¹ Rationale for the use of drugs in respiratory, cardiac and circulatory disorders. Rationale for the choice of analgesics and sedatives in emergency conditions. ²	1
19.	Fundamentals of cardiopulmonary resuscitation in outpatient dental practice. ¹ Intensive therapy of acute respiratory failure, allergic reactions, endocrine disorders and other complications. ² General anesthesia in dentistry. Classification of types of general anesthesia. Neuroleptanalgesia, ataralgesia. Indications and contraindications for their realization. ¹ Justification of the choice of medicine and method of anesthesia in outpatient dental practice. ²	2

20.	Organization of the department for dental surgery. ¹ Principles of organization of dental surgical care in the dental polyclinic. Basic hygienic requirements for the rooms, appearance, clothes of the oral surgeon. ²	1
21.	Asepsis and antisepsis in the oral surgery office. ¹ Rules of sterilization of materials, instruments. Preparation of the surgeon's hands for surgery. Stages of patient examination in the clinic of oral surgery. ²	1
22.	Stages of examination of the patient in the clinic of oral surgery. ¹ Medical records, filling out the medical history.	2
23.	Tooth extraction surgery. ¹ Indications and contraindications. Stages of the operation of tooth extraction. Technique of tooth and root extraction on the lower jaw. Instruments. ²	2
24.	Tooth extraction surgery. ¹ Indications and contraindications. Stages of the operation of tooth extraction. Technique of tooth and root extraction on the upper jaw. Instruments. ²	2
25.	Stages of healing of the socket after tooth extraction, the study of Verlotsky. ¹ Features of the operation of tooth extraction in persons with concomitant diseases. Main and additional tools. ²	2
26.	Local complications during tooth extraction surgery. ¹ Prevention and elimination of complications. ²	1
27.	Complications after tooth extraction. ¹ Early and late. Alveolitis. Prevention and methods of elimination. ²	2
28.	Teething diseases. ¹ Dystopia and retention of teeth. Surgery of atypical tooth extraction. Methods of surgical treatment for teeth dystopia and retention. ²	1
29.	Teething disorders. ¹ Troubled eruption of the wisdom teeth. Causes, classification. Studies of Lvov, Rudenko, Magid. Clinical picture, diagnostics. ²	2
30.	Teething diseases. ¹ Complications. Classification. Indications for surgical treatment. ²	2
31.	Periodontitis - etiology, pathogenesis, pathologic anatomy, ways of spreading the infectious process. ¹ Chronic periodontitis. Classification, clinical and radiologic diagnosis, differential diagnosis. ²	1
32.	Surgical methods of treatment of chronic periodontitis. ¹ Root amputation, hemisection, crown-radicular separation, tooth replantation and transplantation. Root apex resection, apical surgery. ²	2
33.	Cysts of the jaws. ¹ Etiology, pathogenesis, pathologic anatomy, clinical picture, diagnosis, differential diagnosis, methods of treatment. Radicular cyst. Features of the clinical picture, diagnosis, differential diagnosis, methods of treatment. ²	2
6 semester		

34.	Periostitis of the jaws. ¹ Acute purulent periostitis of the jaws. Palatine abscess. Etiology, pathogenesis, pathological anatomy. Pathogenetic association with periodontitis and spread of the inflammatory process depending on the location of the roots of different groups of teeth. ²	2
35.	Periostitis of the jaws. ¹ Clinical picture. Differential diagnosis, surgical treatment. Chronic periostitis of the jaws. ²	2
36.	Odontogenic osteomyelitis of the jaws. ¹ Etiology. Theories of pathogenesis of osteomyelitis (Bobrov-Lesker, allergic theory of Derijanov, neuro-trophic changes), the role of microflora, immunological status and anatomical features of the jaws. Modern ideas about the pathogenesis of osteomyelitis of the jaws. Pathological anatomy and classification. ²	2
37.	Acute stage of osteomyelitis of the jaws. ¹ Clinical picture, diagnosis and differential diagnosis of the acute stage. Complex pathogenetic treatment: surgical (tooth extraction - 'source of infection'), maxillary abscesses and phlegmon incision, decompression osteoperforation; medication (antibacterial, anti-inflammatory, detoxification, desensitising immunotherapy). ² Complex pathogenetic treatment: use of physical methods. Efferent methods of extracorporeal detoxification. Results and possible complications. ²	2
38.	Subacute and chronic stages of osteomyelitis of the jaws. ¹ Clinical and radiological picture of different forms (sequestrating, rarifying, hyperplastic, primary-chronic), differential diagnosis. ²	2
39.	Subacute and chronic stages of osteomyelitis of the jaws. ¹ Treatment (indications and duration of sequestrectomy). ²	2
40.	Differential diagnosis of acute periodontitis, periostitis and odontogenic osteomyelitis of the jaws. ¹ Principles of differential diagnosis of odontogenic inflammatory diseases of the jaws. ²	2
41.	Lymphadenitis of the face and neck. ¹ Topographical anatomy of the lymphatic system of the maxillofacial area. ²	1
42.	Lymphadenitis of the face and neck. ¹ Classification, etiology, pathogenesis. Clinical picture of acute lymphadenitis. Diagnosis, differential diagnosis. Treatment. Manifestation. ²	1
43.	Lymphadenitis of the face and neck. ¹ Classification, etiology, pathogenesis. Clinical picture of chronic lymphadenitis. Abscessed lymphadenitis. Diagnosis, differential diagnosis. Treatment. ²	1
44.	Odontogenic maxillary sinusitis. ¹ Etiology, pathogenesis. Classification. ²	2
45.	Odontogenic maxillary sinusitis. ¹ Clinical picture, diagnosis, differential diagnosis. Surgical treatment. ²	2
46.	Perforation and fistula of the maxillary sinus. ¹ Causes. Clinical picture, diagnosis. ²	2
47.	Perforation and fistula of the maxillary sinus. ¹ Methods of surgical closure of perforation of the maxillary sinus floor. ²	2

48.	Specific inflammatory processes of the face, neck and jaw. ¹ Actinomycosis. Etiology, pathogenesis. Classification. Clinical picture, diagnostics, differential diagnostics. Treatment of actinomycosis of the face, neck and jaw area. Tuberculosis of the face, neck and jaw area. Clinical picture, manifestations in the oral cavity, diagnostics. Differential diagnosis. Features of treatment. ²	2
49.	Specific inflammatory processes of the face, neck and jaw. ¹ Syphilis of the face and jaw. Diphtheria. Features of clinic, diagnostics, treatment. Manifestations in the oral cavity. ²	1
50.	Specific inflammatory processes of the face, neck and jaw area. ¹ Erysipelas. Etiology, clinical picture, diagnosis.1 Differential diagnosis, treatment. ²	1
51.	Specific inflammatory processes of the face, neck and jaw region. ¹ HIV infection in the maxillofacial area. Diagnosis. Differential diagnosis. AIDS. Manifestations in the maxillofacial region. Clinical picture, diagnosis, prevention of spread. ²	1
Total		60

¹ - topic

² – essential content (if necessary)

Considered at the meeting of the Department for Oral Surgery and Maxillofacial Surgery “8” June 2024, protocol №9.

Head of the department



Е.Н.Ярыгина