


**MINISTRY OF HEALTHCARE OF THE REPUBLIC OF BELARUS**  
Educational Institution  
**BELARUSIAN STATE MEDICAL UNIVERSITY**

**APPROVED**  
by Vice-Rector for Academic Affairs  
of the Educational Institution  
«Belarusian State Medical University»  
Y.A.Sokolov  
30.04.2025



**STATE EXAMINATION PROGRAM**  
**«ORAL AND MAXILLOFACIAL SURGERY»**  
in the specialty 1-79 01 07 «Dentistry»

The program of the state examination is developed on the basis of:  
the higher education standard in the specialty 1-79 01 07 «Dentistry», approved and put into effect by the Resolution of the Ministry of Education of the Republic of Belarus, dated 30.08.2013 № 88;  
the curriculum for the academic discipline «Oral and Maxillofacial surgery» in the specialty 1-79 01 07 «Dentistry», approved 08.10.2018, registration # UD-L.641/1819/edu;  
the curriculum in the academic discipline «Pediatric Dentistry» in the specialty 1-79 01 07 «Dentistry», approved 20.12.2019, registration # UD-L.634/1920/edu.

#### **COMPILERS:**

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#### **RECOMMENDED FOR APPROVAL BY:**

Department of Maxillofacial Surgery and Facial Plastic Surgery with Advanced Training and Retraining Course of the Educational Institution «Belarusian State Medical University»

(protocol № 14 dated 03.04.2025);

Department of Surgical Dentistry of the Educational Institution «Belarusian State Medical University»

(protocol № 14 dated 31.03.2025);

Council of the Medical Faculty for International Students of the Educational Institution «Belarusian State Medical University»

(protocol № 7 dated 24.04.2025)

## STATE EXAMINATION PROCEDURE

### List of academic disciplines included in the state examination:

1. «Oral and Maxillofacial surgery»
2. «Pediatric Dentistry (chapter «Pediatric Outpatient and Hospital Oral Surgery)»).

### State examination form and procedure

The state examination is conducted orally using examination cards at an open meeting of the state examination commission (hereinafter referred to as the SEC).

The student is given at least 30 minutes to prepare for the answer to the state examination. In order to clarify the examination mark, the SEC members may ask the student additional questions in accordance with the state examination program. The number of additional questions asked by one of the SEC member should not exceed three.

Information on the results of the assessment of practical skills mastering degree is provided to the SEC members by the graduating departments.

## STRUCTURE OF THE EXAMINATION CARD

An examination card for an oral interview includes four theoretical questions: three questions are devoted to the academic discipline «Oral and Maxillofacial surgery» (propedeutics, dental surgery, inflammatory diseases, trauma), one question is devoted to the academic discipline «Pediatric Dentistry (chapter «Pediatric Outpatient and Hospital Oral Surgery)»).

## CONTENT OF THE STATE EXAMINATION PROGRAM

### LIST OF ISSUES FOR THE ACADEMIC DISCIPLINE «ORAL AND MAXILLOFACIAL SURGERY»

#### 1. INTRODUCTION TO THE ACADEMIC DISCIPLINE «MAXILLOFACIAL SURGERY AND SURGICAL DENTISTRY»

##### 1.1. History of development and organization of maxillofacial surgery and surgical dentistry in the Republic of Belarus

History of development of surgical dentistry in the Republic of Belarus. Scientists - founders of maxillofacial surgery and surgical dentistry in the Republic of Belarus. Goals and objectives of surgical dentistry and maxillofacial surgery.

Structure and organization of the work of the maxillofacial surgery and surgical dentistry service in the Republic of Belarus. Staffing standards in the maxillofacial surgery and surgical dentistry service in the Republic of Belarus. Job responsibilities of dental surgeons and maxillofacial surgeons.

##### 1.2. Structure and equipment of the department of maxillofacial surgery

Structure of the maxillofacial surgery department (office), equipment, work regulations, accounting and reporting documentation. Filling out accounting and reporting documentation.

### **1.3. Preparation of the hands of the dentist-surgeon and the surgical field. Disinfection and sterilization of medical instruments and dressings**

Sanitary and epidemiological regime in departments and offices Maxillofacial surgery. Requirements for premises and equipment in the maxillofacial surgery department and surgical dental office.

Hand treatment of a dentist-surgeon. Treatment of the surgical field. Preparation of instruments and dressings for sterilization. Disinfection, classification of disinfectants . Sterilization methods and their modes.

### **1.4. Examination of patients with surgical diseases of the maxillofacial region and neck**

Collection of complaints, anamnesis of life and anamnesis of the patient's disease. Examination of the maxillofacial region, neck and oral cavity of the patient. Clinical and additional methods of examination of patients with diseases of the maxillofacial region and neck.

## **2. ANESTHESIA IN MAXILLOFACIAL SURGERY AND SURGICAL DENTISTRY**

### **2.1. Types of local anesthesia. Local anesthetics in dentistry**

Local anesthesia in maxillofacial surgery and surgical dentistry: types, anesthetics, instruments for anesthesia. Indications and contraindications for local anesthesia.

Local anesthetics approved for use in the Republic of Belarus, their pharmacological characteristics. Instrumentation for local anesthesia.

### **2.2. Infiltration anesthesia in the maxillofacial region**

Types of infiltration anesthesia. Methods of infiltration anesthesia.

### **2.3. Conduction anesthesia on the lower jaw**

Anatomical and topographic landmarks for conducting conduction anesthesia in the lower jaw area. Methods for conducting conduction anesthesia in the lower jaw area.

### **2.4. Conduction anesthesia on the upper jaw**

Anatomical and topographic landmarks for conducting conduction anesthesia in the upper jaw. Methods for conducting conduction anesthesia in the upper jaw.

### **2.5. Local complications of injection anesthesia in maxillofacial surgery and surgical dentistry**

Types of local complications injection anesthesia, causes of development, clinical picture, treatment. Possible errors during injection anesthesia, their prevention.

### **2.6. General anesthesia in maxillofacial surgery. Potentiated analgesia: neuroleptanalgesia, ataralgesia. Acupuncture analgesia, analgesia using transcutaneous electrical neurostimulation**

Indications and contraindications for general anesthesia in maxillofacial surgery. Tracheal intubation routes in patients with surgical diseases of the maxillofacial region.

Medicines, instruments and hardware for general anesthesia. General anesthesia in maxillofacial surgery in inpatient and outpatient settings.

Indications, contraindications for the implementation of potentiated analgesia: neuroleptanalgesia, ataralgesia, methods of implementation. Indications,

contraindications for the implementation of acupuncture analgesia, analgesia using transcutaneous electrical neurostimulation , methods of implementation.

### **3. DENTAL SURGERY**

#### **3.1. Indications and contraindications for tooth extraction surgery**

Indications for tooth extraction surgery: general and local. Contraindications for tooth extraction surgery.

#### **3.2. Instrumentation and methods for performing operations to remove teeth on the upper jaw**

Anatomical features of the structure of the upper jaw. Instrumentation for performing operations to remove teeth on the upper jaw. Stages of the operation to remove a tooth on the upper jaw.

#### **3.3. Instrumentation and methods for performing operations to remove teeth on the lower jaw**

Anatomical features of the structure of the lower jaw. Instrumentation for performing operations to remove teeth on the lower jaw. Stages of the operation to remove a tooth on the lower jaw.

#### **3.4. Methods of performing operations of atypical, complex tooth extraction on the upper and lower jaws**

Classification of the spatial arrangement of the third molars of the lower jaw. Methods of operations for atypical, complex tooth extraction on the upper and lower jaw. Instrumentation required for performing an operation for atypical, complex tooth extraction.

#### **3.5. Local complications arising during tooth extraction surgery**

Causes leading to complications during tooth extraction surgery. Prevention of complications. Provision of specialized medical care for complications that arise during tooth extraction surgery.

#### **3.6. Local complications arising after tooth extraction surgery**

Causes leading to complications after tooth extraction. Prevention of complications. Provision of specialized medical care for complications that arise after tooth extraction.

#### **3.7. Features of local anesthesia and tooth extraction surgery in patients with general somatic diseases**

Planning a tooth extraction surgery and choosing a local anesthetic for patients with cardiovascular diseases, connective tissue, liver, kidneys, nervous system, and systemic blood diseases. Prevention of complications. Features of anesthesia and tooth extraction surgery in pregnant women and nursing mothers.

Toxic reactions to local anesthetics: emergency medical care, prevention of complications.

#### **3.8. Somatic complications arising during outpatient dental appointments. Providing emergency medical care**

Complications occurring during outpatient dental appointments: hypertensive crisis, acute cerebrovascular accident, angina attack, acute myocardial infarction, asthma attack, comatose states in diabetes mellitus, convulsive syndrome. Clinical manifestations of emergency conditions. Providing emergency medical care in emergency conditions.

### **3.9. Drug-induced anaphylactic shock**

Risk factors, clinical manifestations, diagnostics, differential diagnostics of drug-induced anaphylactic shock. Tactics of a dentist in case of development of anaphylactic shock in a patient, provision of emergency medical care.

## **4. ODONTOGENIC INFLAMMATORY PROCESSES**

### **4.1. Odontogenic infectious and inflammatory diseases of the maxillofacial region**

The problem of odontogenic infection in maxillofacial surgery and surgical dentistry. Modern classification, etiology, pathogenesis of odontogenic infectious and inflammatory diseases of the maxillofacial region. Routes of infection spread in the maxillofacial region.

#### **4.2. Apical periodontitis**

Classification, clinical manifestations of apical periodontitis. Peculiarities of the clinical course of apical periodontitis on the upper and lower jaw, diagnostic methods. Differential diagnostics of apical periodontitis, treatment.

#### **4.3. Surgical methods of treatment of apical periodontitis**

Surgical methods of treatment of apical periodontitis: classification of surgical interventions, indications, contraindications to surgical methods of treatment, complications and their prevention. Examination of temporary disability, medical examination of patients with apical periodontitis.

#### **4.4. Difficult eruption of teeth, retention, dystopia**

Etiological factors leading to retention and dystopia of teeth. Classification of diseases of teething, clinical and radiation diagnostics, surgical treatment. Exercise therapy, physiotherapy and reflexology as part of complex treatment. Examination of temporary disability, medical examination of patients with teething diseases.

#### **4.5. Periostitis of the jaws**

Classification Periostitis of the jaws. Peculiarities of the clinical course of periostitis on the upper and lower jaws. Treatment of patients with periostitis of the jaws. Tactics of a dentist-surgeon in relation to the causative tooth. Stages of primary surgical treatment for periostitis of the jaws of various localizations, drug treatment of patients. Exercise therapy, physiotherapy and reflexology as part of the complex treatment of periostitis of the jaws. Examination of temporary disability, medical examination of patients with periostitis of the jaws.

#### **4.6. Acute odontogenic osteomyelitis of the jaws**

Etiology, theories of development of acute odontogenic osteomyelitis of the jaws, classification. Clinical picture of acute odontogenic osteomyelitis on the lower and upper jaws, diagnostics, treatment, prevention of complications. Examination of temporary disability, medical examination of patients with acute odontogenic osteomyelitis of the jaws.

#### **4.7. Chronic odontogenic osteomyelitis of the jaws**

Peculiarities of the clinical course of chronic odontogenic osteomyelitis on the lower and upper jaws. Diagnostics, modern radiation methods of examination in chronic odontogenic osteomyelitis of the jaw. Chronic ossifying osteomyelitis of Garre. Surgical and drug treatment of patients with chronic odontogenic osteomyelitis. Exercise therapy, physiotherapy and reflexology as part of complex

treatment. Examination of temporary disability, medical examination of patients with chronic odontogenic osteomyelitis of the jaws.

#### **4.8. Odontogenic lymphadenitis of the maxillofacial region**

Topography of the lymphatic apparatus of the maxillofacial region. Clinical picture, diagnostics, differential diagnostics of odontogenic lymphadenitis of the maxillofacial region, indications for surgical treatment and its methods. Exercise therapy, physiotherapy and reflexology as part of complex treatment. Examination of temporary disability, medical examination of patients with odontogenic lymphadenitis of the maxillofacial region.

#### **4.9. Differential diagnostics of infectious and inflammatory processes of the maxillofacial region and neck (periodontitis, periostitis, odontogenic osteomyelitis of the jaws, lymphadenitis)**

Comparative characteristics of clinical manifestations, radiological and laboratory research methods in patients with periodontitis, periostitis, odontogenic osteomyelitis of the jaws, lymphadenitis.

#### **4.10. Furuncles and carbuncles of the maxillofacial region**

Clinical picture, diagnostics, treatment of furuncles and carbuncles in the maxillofacial region. Peculiarities of the clinical course of furuncles and carbuncles in the maxillofacial region, their complications and prevention. Complex treatment of patients with furuncles and carbuncles of the maxillofacial region, examination of temporary disability, medical examination.

#### **4.11. Severe complications of infectious and inflammatory processes of the maxillofacial region and neck (phlebitis of the facial veins, thrombosis of the cavernous sinus)**

Etiology, pathogenesis, routes of spread, clinical picture, special diagnostic methods, planning of anesthetic care and surgical treatment of complications of infectious and inflammatory processes of the maxillofacial region and neck. Surgical and drug treatment of patients with phlebitis of the facial veins, thrombosis of the cavernous sinus. Examination of temporary disability, medical examination of patients with complications of infectious and inflammatory processes of the maxillofacial region and neck.

#### **4.12. Severe complications of infectious and inflammatory processes of the maxillofacial region and neck (anaerobic infection, odontogenic mediastinitis)**

Anaerobic infection, mediastinitis: etiology, pathogenesis, routes of infection, clinical picture, diagnostics, planning of anesthetic care and surgical treatment. Surgical and drug treatment of patients with anaerobic infection of the maxillofacial region and neck, odontogenic mediastinitis. Examination of temporary disability, medical examination of patients with severe complications of infectious and inflammatory processes of the maxillofacial region and neck.

#### **4.13. Severe complications of infectious and inflammatory processes of the maxillofacial region and neck (sepsis). Prediction of the course of infectious and inflammatory processes in the maxillofacial region**

Etiology, pathogenesis, clinical picture, diagnostics of sepsis. Systemic inflammatory response, criteria. Determination of treatment tactics for patients with sepsis. Characteristics of modern indices used in surgical dentistry and maxillofacial

surgery to predict the course of infectious and inflammatory processes. Complex treatment of patients with sepsis. Prevention of sepsis. Examination of temporary disability, medical examination of patients with sepsis.

#### **4.14. Modern principles of treatment of purulent wounds of the maxillofacial region and neck. Medical rehabilitation of patients with infectious and inflammatory processes of the maxillofacial region in outpatient settings**

Principles of primary surgical treatment of the maxillofacial region and neck. Local treatment of infectious and inflammatory processes depending on the phase of the course. Types of wound drainage. Timing of secondary early and late sutures. Modern principles of drug therapy of infectious and inflammatory processes of the maxillofacial region. Antibacterial, detoxifying, desensitizing, immunoreactive, restorative, symptomatic treatment. Basic principles of using medical rehabilitation as part of complex treatment in patients with infectious and inflammatory processes of the maxillofacial region and neck.

### **5. SPECIFIC INFLAMMATORY PROCESSES OF THE MAXILLOFACIAL REGION**

#### **5.1. Actinomycosis of the maxillofacial region**

Clinical picture, diagnostics, differential diagnostics, methods of laboratory and immunological diagnostics, complex treatment, prevention of actinomycosis of the maxillofacial region. Examination of temporary disability, medical examination of patients with actinomycosis of the maxillofacial region.

#### **5.2. Syphilis, tuberculosis, HIV infection in the maxillofacial region**

Clinical manifestations, stages of the disease, methods of laboratory and immunological diagnostics of syphilis, tuberculosis, HIV infection in the maxillofacial region. The structure of medical care for patients with syphilis, tuberculosis, HIV infection. Prevention of syphilis, tuberculosis, HIV infection. Examination of temporary disability, medical examination of patients with syphilis, tuberculosis, HIV infection in the maxillofacial region.

### **6. DISEASES OF THE MAXILLARY SINUS**

#### **6.1. Odontogenic sinusitis of the maxillary sinus**

Etiology, pathogenesis, classification, clinical picture, diagnostics, differential diagnostics of sinusitis maxillary sinus. Treatment of patients with sinusitis in outpatient and inpatient settings. Prevention of sinusitis. Examination of temporary disability, medical examination of patients with sinusitis.

#### **6.2. Perforation and fistulas of the maxillary sinus**

Causes of development of perforations and fistulas of the maxillary sinus. Clinical picture, diagnostics, surgical tactics for perforations and fistulas of the maxillary sinus. Prevention of perforations and fistulas of the maxillary sinus. Examination of temporary disability, medical examination of patients with perforations and fistulas of the maxillary sinus.

### **7. PHLEGMONS AND ABSCESES OF THE MAXILLOFACIAL REGION**

#### **7.1. Superficial phlegmons and abscesses of the perimaxillary tissues of the lower jaw**

Topography of the cellular spaces of the paramaxillary tissues of the lower jaw. Features of clinical manifestations, diagnostics, complex treatment, prevention of abscess of the maxillo-lingual groove, abscess and phlegmon of the submental,

submandibular, parotid-masticatory and retromaxillary areas, submasticatory space. Examination of temporary disability, medical examination of patients with superficial phlegmon and abscesses of the perimaxillary tissues of the lower jaw.

### **7.2. Deep phlegmons and abscesses of the perimaxillary tissues of the lower jaw**

Features of clinical manifestations, diagnostics, complex treatment, prevention of abscesses and phlegmon of the parapharyngeal, pterygomandibular, and oral floor. Examination of temporary disability, medical examination of patients with deep phlegmons and abscesses of the perimaxillary tissues of the lower jaw.

### **7.3. Superficial phlegmons and abscesses of the perimaxillary tissues of the upper jaw**

Topography of the cellular spaces of the maxillary perimaxillary tissues. Features of clinical manifestations, diagnostics, complex treatment, prevention abscess (phlegmon) of the temporal, infraorbital and buccal regions. Examination of temporary disability, medical examination of patients with superficial phlegmon and abscesses of the perimaxillary tissues of the upper jaw.

### **7.4. Deep phlegmons and abscesses of the perimaxillary tissues of the upper jaw**

Peculiarities of clinical manifestations, diagnostics, complex treatment, prevention of abscess and phlegmon of the pterygopalatine and infratemporal fossae, orbit. Examination of temporary disability, medical examination of patients with deep phlegmon and abscesses of the perimaxillary tissues of the upper jaw.

### **7.5. Treatment of patients with abscesses and phlegmons of the maxillofacial region and neck. Healthcare-associated infections**

Anesthetic aid, surgical approaches, indications for the use of various types of drainage, basic principles of treatment: complex anti-inflammatory treatment abscesses and phlegmons of the maxillofacial region and neck. Infections associated with the provision of health care. Medical rehabilitation of patients with abscesses and phlegmons of the maxillofacial region in outpatient and inpatient settings, examination of temporary disability, medical examination.

## **8. DISEASES OF THE SALIVARY GLANDS**

### **8.1. Inflammatory diseases of the salivary glands**

Etiology, pathogenesis, classification, clinical picture, diagnostics, differential diagnostics, treatment of acute and chronic sialoadenitis. Prevention of inflammatory diseases of the salivary glands and possible complications. Examination of temporary disability, medical examination of patients with inflammatory diseases of the salivary glands .

### **8.2. Dystrophic diseases of the salivary glands**

Etiology, pathogenesis, classification of sialosis. Sjogren's disease and syndrome. Clinical manifestations, diagnostics, complex treatment and prevention sialozov. The structure of providing specialized medical care to patients with degenerative diseases of the salivary glands. Examination of temporary disability, medical examination of patients with degenerative diseases of the salivary glands.

### **8.3. Salivary stone disease**

Etiology, theories of pathogenesis, clinical picture, diagnostics, complex treatment and prevention salivary stone disease. Surgical tactics depending on the location of the salivary calculus, in case of exacerbation of salivary stone disease. Examination of temporary disability, medical examination of patients with salivary stone disease .

## **9. DISEASES OF THE TEMPOROMANDIBULAR JOINT**

### **9.1. Arthritis of the temporomandibular joint**

Classification, etiology, pathogenesis, clinical picture, diagnostics of arthritis of the temporomandibular joint (TMJ). Planning complex treatment of patients with arthritis of the TMJ together with doctors of other specialties, disease prevention . Examination of temporary disability, medical examination of patients with and rtrit ami TMJ .

### **9.2. Arthrosis of the temporomandibular joint**

Clinical manifestations and diagnostics of TMJ arthrosis. Conducting a clinical examination of patients with TMJ arthrosis . Planning complex treatment of patients with TMJ arthrosis together with doctors of other specialties, disease prevention . Examination of temporary disability, medical examination of patients with and arthrosis ami TMJ .

### **9.3. Ankylosis of the temporomandibular joint**

Clinical manifestations and diagnostics of TMJ ankylosis . Planning complex treatment of patients with TMJ ankylosis together with doctors of other specialties, disease prevention. Temporary disability examination, medical examination of patients with TMJ ankylosis.

### **9.4. Pain syndrome of dysfunction, internal disorders of the temporomandibular joint**

Clinical picture of muscular-articular dysfunction, jaw dislocations and intra-articular disc. Diagnostics, treatment planning for patients with dysfunction pain syndrome, internal TMJ disorders together with general practitioners and orthopedic dentists, disease prevention. Temporary disability examination, medical examination of patients with dysfunction pain syndrome, internal TMJ disorders .

## **10. LESIONS OF THE FACIAL NERVES**

### **10.1. Trigeminal neuralgia**

Etiology, pathogenesis theories, pain formation mechanism, clinical picture, diagnostics of trigeminal neuralgia. Study of principles of conservative and surgical treatment methods, terms and indications for surgical methods of treating trigeminal nerve diseases, disease prevention. Temporary disability examination, medical examination of patients with trigeminal neuralgia .

### **10.2. Trigeminal neuropathies**

Etiology, pathogenesis, diagnostics of trigeminal neuropathies. Study of principles of conservative and surgical methods of treatment of trigeminal nerve diseases (decompression of the nerve in case of traumatic compression by a foreign body, bone fragment), disease prevention. Examination of temporary disability, medical examination of patients with trigeminal neuropathies.

### **10.3. Neuritis and neuropathy of the facial nerve**

Etiology, pathogenesis, diagnostics of facial nerve lesions. Temporary disability examination, clinical examination of patients with facial nerve lesions. Conservative treatment methods, surgical methods of treating facial nerve diseases, disease prevention.

## **11. SURGICAL METHODS OF TREATMENT OF DISEASES OF THE MARGINAL PERIODONTIUM**

### **11.1. Gingival operations**

Preparation of a treatment plan for a patient with marginal periodontal disease together with general dentists and orthopedic dentists. Identification of clinical manifestations, diagnostics, and comprehensive treatment of patients with marginal periodontal disease . Preoperative preparation of patients, selection of surgical treatment method. Operations within the free and attached gingiva ( curettage (open/closed), gingivotomy , gingivectomy (simple, radical)): indications, surgical techniques, postoperative patient management.

### **11.2. Mucogingival operations**

Drawing up a treatment plan for the patient together with general dentists and orthopedic dentists. Preoperative preparation of the patient, selection of the surgical treatment method. Operations within the free, attached gum and the mucous membrane of the alveolar process ( frenulotomy , plastic surgery of the short frenulum of the lips and tongue, vestibuloplasty , closure of isolated gum recessions): indications, surgical techniques, postoperative patient management.

### **11.3. Osteomucongival operations**

Preparation of a treatment plan for a patient with marginal periodontal disease in collaboration with general dentists and orthopedic dentists. Preoperative preparation of patients with marginal periodontal disease, selection of surgical treatment method. Operations on the gum, alveolar mucosa and alveolar bone (Widman flap operations ; Neumann flap operations ; modified Kirkland , Ramfiord , Nissle flap operations ; apical flap displacement operations): indications, surgical techniques, postoperative patient management. Guided tissue regeneration. Osteoinductive materials.

## **12. TRAUMATOLOGY OF THE MAXILLOFACIAL REGION**

### **12.1. Damage to soft tissues of the maxillofacial region and neck**

Classification of soft tissue injuries of the maxillofacial region and neck. Determination of the true size of the wound. Identification of the features of clinical manifestations and diagnostics of injuries of the major salivary glands and their main excretory ducts. Diagnostics of facial nerve injuries. Diagnostics of penetrating wounds of the maxillofacial region and neck.

### **12.2. Surgical treatment of soft tissue injuries of the maxillofacial region and neck. Prevention of tetanus, rabies**

Stages of surgical treatment of wounds soft tissues of the maxillofacial region and neck, stopping bleeding, features of wound treatment in the area of natural openings and wounds penetrating into the oral cavity. Features of drainage and selection of suture material, suturing methods. Prevention of tetanus, rabies.

### **12.3. Dislocations and fractures of teeth. Fractures of the alveolar process of the jaws**

Classification of traumatic dental injuries. Diagnostics and surgical tactics for partial and complete tooth dislocation. Carrying out the operation of fixing teeth (for complete and partial dislocation, tooth replantation), dressing a patient with traumatic injuries of the maxillofacial region. Indications and timing of endodontic treatment for complete and partial tooth dislocation. Clinical picture, diagnostics, methods of orthopedic and surgical treatment fractures of the alveolar process of the jaws, immobilization periods, postoperative patient management. Conducting a comprehensive examination of patients with traumatic injuries to teeth and the alveolar process.

#### **12.4. Fractures of the lower jaw**

Classification of mandibular fractures. Mechanism of bone fragment displacement in mandibular fracture. Mandibular fractures within the dental arch. Closed mandibular fractures (branch, condylar and coronoid process).

#### **12.5. Treatment of fractures of the lower jaw**

Types of temporary immobilization, orthopedic treatment methods fractures of the lower jaw, types of splints, indications for osteosynthesis, osteosynthesis methods, drug treatment.

#### **12.6. Fractures of the upper jaw**

Classification of fractures of the upper jaw. Mechanism of displacement of bone fragments in fractures of the upper jaw. Clinical picture, diagnosis of fracture of the upper jaw.

#### **12.7. Treatment of fractures of the upper jaw**

Types of temporary immobilization, orthopedic methods of treating fractures of the upper jaw, indications for osteosynthesis, osteosynthesis methods, drug treatment.

#### **12.8. Fractures of the zygomatic bone, arch and nasal bones**

Classification, clinical picture, diagnostics of fractures of the zygomatic bone, arch and bones of the nose, zygomatic-orbital complex. Surgical and non-surgical methods of treating patients with fractures of the zygomatic arch and bone, nasal bones.

### **12.9. Combined and combined trauma of the maxillofacial region. Polytrauma**

Treatment and diagnostic tactics for combined and multiple injuries of the maxillofacial region, multiple injuries. Diagnostics of hidden liquorrhea. Provision of primary and specialized medical care jointly with doctors of other specialties for combined and multiple injuries and multiple injuries. Optimal timing of surgical treatment.

#### **12.10. General complications of maxillofacial injuries**

Traumatic, hemorrhagic shock, asphyxia. Transportation of victims. Providing medical care to patients with general complications of maxillofacial injuries in healthcare organizations of various levels: trauma center, district hospital, city and regional hospitals.

#### **12.11. Local complications of maxillofacial injuries**

Suppuration of a bone wound, chronic traumatic osteomyelitis, delayed consolidation, pseudoarthrosis formation, muscle contractures and ankylosis of the TMJ. Clinical picture, diagnostics, surgical treatment of local complications of

maxillofacial injuries: indications, contraindications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management. Exercise therapy, physiotherapy as part of complex treatment of patients with local complications of injuries to the maxillofacial region.

#### **12.12. Medical rehabilitation of patients with fractures of the facial bones of the skull**

Immobilization periods for various types of facial bone fractures. Determination of clinical signs of bone fragment consolidation. Timing of control radiography. Physiotherapeutic treatment, exercise therapy for fractures of the facial bones: methods, indications, timing.

#### **12.13. Burns and frostbite of the face**

Classification of burns and frostbite of the face and oral mucosa, determination of the affected area. Provision of primary and specialized medical care to patients with burns and frostbite of the face. Transportation of victims. Surgical treatment of patients with burns and frostbite of the face: indications, contraindications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

### **13. ONCOLOGY OF THE MAXILLOFACIAL REGION AND NECK**

#### **13.1. Organization of oncological medical care in the Republic of Belarus. Examination of patients with neoplasms of the maxillofacial region and neck**

Structure and equipment of oncological healthcare organizations. The procedure for referring patients with neoplasms of the maxillofacial region for examination and treatment, documentation. Study of thematic tables, slides. Verification of oncological disease: types of biopsies, collection of biological material for cytological examination. Examination of patients with neoplasms of the maxillofacial region.

#### **13.2. Medical examination of patients with neoplasms of the maxillofacial region. Dental care for patients with oncological diseases**

Medical examination of patients with neoplasms of the maxillofacial region. Groups of medical observation of patients. Dental care for patients with oncological diseases before, during and after radiation therapy and/or chemotherapy .

#### **13.3. Precancerous diseases of the maxillofacial region**

Factors contributing to the development of precancerous diseases of the maxillofacial region. Classification, clinical picture, diagnostics, treatment of precancerous diseases of the maxillofacial region. Surgical treatment of precancerous diseases of the maxillofacial region: indications, contraindications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

#### **13.4. Malignant neoplasms of the skin**

Etiology, classification, clinical picture of malignant neoplasms of the skin. Diagnostics, differential diagnostics, ways of metastasis of skin cancer, melanoma. Combined, comprehensive and combined treatment, medical rehabilitation of patients with malignant neoplasms of the skin.

### **13.5. Malignant neoplasms of the oral mucosa and lips**

Etiology, classification, clinical picture, diagnostics, differential diagnostics, routes of metastasis, combined, comprehensive and combined treatment of malignant neoplasms of the oral cavity and lip. Surgical treatment of malignant neoplasms of the oral mucosa and lip: indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management. Medical rehabilitation of patients with malignant neoplasms of the oral mucosa and lip.

### **13.6. Malignant neoplasms of the facial bones**

Etiology, classification, clinical picture, diagnostics, differential diagnostics, routes of metastasis of cancer and sarcoma of the facial bones. Combined, comprehensive and combined treatment of malignant neoplasms of the facial bones. Medical rehabilitation of patients with malignant neoplasms of the facial bones.

### **13.7. Modern principles of treatment of malignant neoplasms of the maxillofacial region**

Radical, palliative, symptomatic, combined, comprehensive, combined treatment of neoplasms of the maxillofacial region. Principles and methods of radiation therapy, surgical treatment, chemotherapy. Clinical protocols for the treatment of malignant neoplasms.

### **13.8. Metastasis of malignant neoplasms of the maxillofacial region. Operations on the lymphatic apparatus**

Distribution and levels of lymphogenous regional metastasis of neoplasms of the maxillofacial region, clinical picture, diagnostics. Operations on the lymphatic system (cervical lymph node dissection, radical cervical lymph node dissection, selective cervical lymph node dissection): indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

### **13.9. Tumor-like diseases of the facial bones**

Classification, etiology, pathogenesis theories of tumor-like diseases of the facial bones. Clinical picture, diagnostics, surgical treatment, treatment tactics for suppuration of a jaw cyst. Preoperative preparation of a patient with an odontogenic jaw cyst. Criteria for preserving the causal and adjacent teeth.

### **13.10. Benign neoplasms and tumor-like diseases of soft tissues of the maxillofacial region**

Classification, clinical picture, diagnostics, surgical methods of treatment of papilloma and papillomatosis, fibroma, lipoma, neurofibroma, atheroma, retention cyst of the minor salivary gland, pigmented lesions of the face, alveolar ridge epulis. Benign cystic neoplasms of the neck: dermoid and epidermoid cysts, median and lateral fistulas and cysts. Differential diagnostics with chemodectoma, carotid artery aneurysm, lymphoma Hodgkin's, branchiogenic cancer, specific and non-specific lymphadenitis. Surgical methods of treatment of benign neoplasms of the neck: indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

### **13.11. Odontogenic neoplasms of the jaws**

Classification, clinical picture, diagnostics, methods of surgical treatment of ameloblastoma, odontoma, cementoma, odontogenic fibroma: indications, methods

of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management. Postoperative medical rehabilitation of patients with odontogenic neoplasms of the jaws.

### **13.12. Osteogenic neoplasms of the jaws**

Classification, clinical picture, diagnostics, surgical methods of treatment of osteoblastoclastoma, osteoma, osteoid osteoma: indications, methods of implementation, optimal terms of surgical treatment, possible complications, postoperative patient management. Postoperative medical rehabilitation of patients with osteogenic neoplasms of the jaw bones.

### **13.13. Non-osteogenic neoplasms of the jaws**

Classification, clinical picture, diagnostics, surgical methods of treatment of hemangioma, hemangioendothelioma, fibroma, neurofibroma, cholesteatomas, myxomas, chondromas: indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management. Postoperative medical rehabilitation of patients with non-osteogenic neoplasms of the jaws.

### **13.14. Differential diagnostics of jaw cysts**

Etiology, pathogenesis of non-odontogenic jaw cysts, differential diagnostics with odontogenic cysts and cystic forms of neoplasms. Preoperative preparation of patients with non-odontogenic jaw cyst.

### **13.15. Vascular neoplasms of the maxillofacial region**

Classification, clinical picture, diagnostics, differential diagnostics of vascular neoplasms of the maxillofacial region. Indications for surgical treatment methods: electrocoagulation, cryodestruction, laser coagulation, sclerosing therapy. Surgical and combined methods of treating vascular neoplasms of the maxillofacial region: indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

### **13.16. Neoplasms of the salivary glands**

Classification, clinical picture, diagnostics of cystic formations of major salivary glands, pleomorphic and monomorphic adenomas, oxyphilic cell tumors, mucoepidermoid tumors of varying degrees of differentiation, cylinders (adenocystic carcinomas), adenocarcinomas. Types of treatment of benign and malignant neoplasms of the salivary glands.

## **14. FUNDAMENTALS OF RESTORATIVE AND RECONSTRUCTIVE SURGERY OF THE MAXILLOFACIAL REGION**

### **14.1. Planning of restorative surgeries in the maxillofacial area. Indications and contraindications for plastic, reconstructive and aesthetic surgeries**

Modern capabilities, goals and objectives of reconstructive surgery. Planning of plastic reconstructive surgeries in the maxillofacial area. Indications and contraindications for plastic, reconstructive and aesthetic surgeries. Determining the size of the defect. Selecting a plastic material to close the defect. Planning the stages of the operation. Timing of the operation. Preparing the patient for reconstructive surgery. Law of the Republic of Belarus «On Transplantation of Human Organs and Tissues».

#### **14.2. Plastic replacement of defects and deformations of the maxillofacial region with local tissues**

Indications for the use of plastic compensation of defects and deformations with local tissues in maxillofacial surgery, preoperative preparation of patients. Methods of plastic surgery with local tissues: advantages and disadvantages, indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative rehabilitation of patients. Plastic surgery with local tissues according to Shimanovsky, Limberg.

#### **14.3. Plastic replacement of defects and deformations of the maxillofacial region with flaps on a feeding pedicle**

Types of pedicle flaps in plastic surgery for soft tissue defects. Determining the size of the defect. Fundamentals of microsurgical vascular plastic surgery. Advantages and disadvantages of the pedicle flap plastic surgery method. Indications for the use of pedicle flaps in maxillofacial surgery, preoperative preparation of patients. Stages of surgical treatment, postoperative patient management.

#### **14.4. Free soft tissue grafting in maxillofacial surgery**

Types of transplants. Types of autodermal grafts, methods of their collection. Indications and contraindications for the use of certain types of skin autodermal grafts. Selection of a donor site for collection of split autodermal grafts. Methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

#### **14.5. Free grafting of cartilage and bone tissue in maxillofacial surgery**

Types of transplants. Selection of donor site for collection of split autografts. Auto- and allotransplantation of supporting tissues in maxillofacial surgery. Indications for surgical treatment, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

#### **14.6. Surgical methods of treatment for paralysis of facial muscles**

Etiology, pathogenesis, classification of facial nerve lesions. Surgical aspects of facial nerve injury treatment. Timing and indications for surgical palliative operations for facial muscle paralysis. Postoperative rehabilitation of patients with facial muscle paralysis.

#### **14.7. Surgical methods of treatment of anomalies and deformations of the lower jaw**

Classification of anomalies and deformations of the lower jaw. Assessment of anthropometric data, planning of surgery. Operations on the frontal and horizontal segments of the lower jaw, on the branch of the lower jaw. Compact osteotomy on the lower jaw, contour plastic surgery of the lower jaw: indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

#### **14.8. Surgical methods of treatment of anomalies and deformations of the midface**

Classification of anomalies and deformations of the upper jaw. Assessment of anthropometric data, planning of operations. Operations on the body of the upper jaw and alveolar process. Compactosteotomy on the upper jaw, operations for malunion of fractures of the upper jaw, zygomatic bone and arch, contour plastic surgery of the

lower orbital margin: indications, methods of implementation, optimal timing of surgical treatment, possible complications, postoperative patient management.

## **15. SURGICAL PREPARATION OF THE ORAL CAVITY FOR PROSTHETICS**

### **15.1. Tooth-preserving operations**

Resection of the tooth root apex, amputation of the tooth root, hemisection of the tooth, coronary-radicular separation. Examination and planning of complex orthopedic -surgical treatment. Indications and technique for performing tooth-preserving operations.

### **15.2. Bone preprosthetic operations**

Alveoloplasty , removal of osteophytes, palatine torus, increase in height (augmentation) of alveolar processes, sinus lifting. Examination and planning of complex orthopedic -surgical treatment. Indications and technique of bone preprosthetic operations.

### **15.3. Dental implantation: types of dental implants, indications, contraindications, patient examination**

Types of dental implants. Indications and contraindications for dental implantation and selection of implant types. Examination of patients and planning of complex orthopedic and surgical treatment.

### **15.4. Dental implantation: methods of implementation, complications**

Technical support and methodology for performing one-stage and two-stage dental implantation techniques. Early and late complications of dental implantation.

## **16. SELECTED SECTIONS OF SURGICAL DENTISTRY AND MAXILLOFACIAL SURGERY**

### **16.1. Differential diagnostics of benign and tumor-like lesions of the facial bones**

Tumor-like lesions of the facial bones: Braitsev-Lichtenstein disease (features of manifestation in the maxillofacial region), Taratynov disease (eosinophilic granuloma), Angle-Recklinghausen disease (parathyroid osteodystrophy), Paget's disease (deforming osteosis). Differential diagnostics of tumor-like lesions of the facial bones with odontogenic, osteogenic and other types of neoplasms of the facial bones.

### **16.2. Differential diagnostics of temporomandibular joint diseases**

Differential diagnostics of TMJ diseases and injuries. Diagnostics of pain syndrome in the TMJ area, differential diagnostics with other facial pain syndromes, treatment principles. Etiology, pathogenesis, classification, clinical picture, treatment of TMJ arthrosis, TMJ arthritis.

### **16.3. Differential diagnostics of salivary gland diseases**

Diagnostics of dystrophic, inflammatory diseases of the salivary glands, salivary stone disease, neoplasms and tumor-like diseases. Differential diagnostics of diseases of the salivary glands.

### **16.4. Differential diagnostics of facial pain syndromes**

Differential diagnostics neuralgia, trigeminal neuropathy, facial nerve neuropathy. Etiology, theories of pathogenesis, mechanism of pain formation, clinical picture, diagnostics of trigeminal neuralgia. Principles of conservative and surgical methods of treatment, terms and indications for surgical methods of treatment of trigeminal nerve diseases, disease prevention.

### **16.5. Features of diagnostics and treatment of fractures of the midface bones**

Features of the clinical picture, results of radiation diagnostics, differences in surgical tactics for the treatment of isolated fractures of the zygomatic bone, upper jaw and zygomatico-orbital complex.

### **16.6. Differential diagnostics of lymphadenopathies of the maxillofacial region and neck**

Differential diagnostics of inflammatory and secondary diseases of the lymphatic system of the face and neck. Diagnostics lymphadenopathies, dentist's tactics, treatment.

### **16.7. Differential diagnostics of diseases of the maxillary sinuses**

Odontogenic, rhinogenic, allergic, traumatic sinusitis: clinical picture, diagnostics, differential diagnostics, treatment during exacerbation of the process. Differential diagnostics of sinusitis and neoplasms of the maxillary sinus (primary cysts, odontogenic cysts, tumors).

### **16.8. Topical diagnostics of abscesses and phlegmons of the maxillofacial region**

Topography of the cellular spaces of the paramaxillary tissues of the upper and lower jaw. Peculiarities of clinical manifestations and diagnostics of abscess and phlegmon of the parapharyngeal, pterygomandibular, submasticatory spaces, phlegmon of the parotid-masticatory and retromaxillary regions, phlegmon of the floor of the oral cavity, infraorbital fossa, phlegmon of the infraorbital and buccal regions, infratemporal, temporal regions, pterygopalatine fossa, orbit, abscess of the myloglossal groove, sublingual ridge; abscess and phlegmon of the submental, submandibular regions. Features of the spread of purulent-inflammatory process through cellular spaces.

## **LIST OF ISSUES FOR THE ACADEMIC DISCIPLINE «PEDIATRIC DENTISTRY» (CHAPTER «PEDIATRIC OUTPATIENT AND HOSPITAL ORAL SURGERY»)**

### **1. Outpatient and hospital pediatric surgical dentistry**

#### **1.1. Pain relief during surgical interventions in children. Tooth extraction surgery**

Types of local anesthesia in pediatric dentistry (application, infiltration, conduction): indications, technique, anesthetics. Rules for injection anesthesia. Anesthetics, indications for use. General complications of injection anesthesia (fainting, collapse, anaphylactic shock). Local complications of injection anesthesia (hematoma, inflammatory contracture of the lower jaw, infection, needle fracture, soft tissue necrosis, traumatic neuritis, etc.). Prevention of anesthesia complications and emergency care for complications.

Anesthesia in pediatric dentistry. Types of anesthesia. Indications and contraindications for anesthesia in children on a planned and emergency basis. Preparing a child for anesthesia. The scope of examination of a child in preparation for anesthesia. Inhalation and non-inhalation types of anesthesia. Premedication,

sedative preparation of a child, principles of implementation, drugs. Features of resuscitation in childhood.

Tooth extraction surgery in children: indications, contraindications, features of extraction technique, complications and their prevention. Tooth extraction forceps. Complications during and after tooth extraction surgery in children.

### **1.2. Features of the course of inflammatory diseases of the maxillofacial region in children**

Features of the anatomical structure of teeth, jaws, lymph nodes that affect the course of odontogenic inflammatory diseases in children. Physiological features of the child's body that affect the course of inflammatory diseases. Ways of spreading odontogenic infection (lymphatic, hematogenous, along the length) from the teeth of the upper and lower jaws. Etiology, pathogenesis, features of the clinical course, diagnosis and treatment of acute purulent periostitis of the jaws in children. Etiology, pathogenesis, clinical and radiological picture, diagnosis and treatment of chronic periostitis in children. Indications for hospitalization of children with acute and chronic periostitis.

#### **1.3. Osteomyelitis of the jaws in children**

Acute osteomyelitis of the jaws in children: etiology, pathogenesis, clinical features, diagnostics, treatment, complications and prevention of acute odontogenic, acute hematogenous, acute traumatic osteomyelitis in children. Indications for hospitalization of children with acute osteomyelitis.

Chronic osteomyelitis of the jaws in children: etiology, pathogenesis, clinical and radiological picture, diagnostics and treatment of children with destructive, destructive-productive and productive (hyperplastic) forms of chronic odontogenic osteomyelitis of the jaw. Chronic hematogenous and chronic traumatic osteomyelitis of the jaws in children. Complications and outcomes of chronic osteomyelitis of the jaws in children. Medical examination and medical rehabilitation of children with chronic osteomyelitis of the jaw.

#### **1.4. Odontogenic maxillary sinusitis in children. Furuncles of the face in children**

Acute and chronic odontogenic maxillary sinusitis in children: etiology, clinical course, diagnostics and treatment. Clinical manifestations and tactics of a dentist when opening the bottom of the maxillary sinus during tooth extraction. Indications for hospitalization of children with odontogenic maxillary sinusitis.

Furuncles of the face in children. Etiology, pathogenesis, clinical features and diagnostics of furuncles in the infiltration and abscessing stage. Treatment of furuncles of the face in children, complications and their prevention. Indications for hospitalization of children with furuncles of the face.

#### **1.5. Lymphadenitis, abscesses, phlegmon and actinomycosis of the maxillofacial region in children**

Etiology, pathogenesis and classification of lymphadenitis of the maxillofacial region in children.

Peculiarities of the clinical course, diagnostics of acute, chronic and specific lymphadenitis of the maxillofacial region in children. Differential diagnostics of lymphadenitis and its treatment in children.

Etiology, classification, clinical features, diagnostics and treatment of abscesses and phlegmons in children. Indications for hospitalization of children with lymphadenitis, abscesses and phlegmons.

Etiology, pathogenesis and classification of actinomycosis of the maxillofacial region in children. Features of the clinical course and diagnostics of the subcutaneous form of actinomycosis, actinomycosis of the lymph nodes, periosteum and bones of the facial skeleton. Treatment and prevention of actinomycosis of the maxillofacial region in children.

### **1.6. Inflammatory diseases of the salivary glands in children**

Classification of inflammatory diseases of the salivary glands in children. Methods of examination of children with inflammatory diseases of the salivary glands. Etiopathogenesis, features of the clinical course, diagnosis and treatment of epidemic and non-epidemic parotitis, influenza sialadenitis in children. Etiopathogenesis, features of the clinical course, diagnosis, treatment of chronic parenchymatous parotitis in the acute stage and in the remission stage. Etiopathogenesis, features of the clinical course, diagnosis and treatment of children with salivary stone disease. Medical examination of children with inflammatory diseases of the salivary glands.

### **1.7. Diseases of the temporomandibular joint in children**

Features of the structure of the temporomandibular joint (TMJ) in children at different age periods.

Classification of diseases of the temporomandibular joint in children and adolescents.

Arthritis of the TMJ in children and adolescents: classification, etiology, clinical features, diagnosis, treatment.

Secondary deforming osteoarthritis of the TMJ in children and adolescents: etiology, pathogenesis, clinical course features, diagnosis and treatment.

Bone ankylosis of the TMJ in children and adolescents, neoarthrosis: etiology, pathogenesis, clinical features, diagnosis and treatment.

Etiology and pathogenesis of functional TMJ diseases in adolescents. Juvenile TMJ dysfunction, clinical features, diagnostics and treatment.

Inflammatory and degenerative diseases of the TMJ, clinical features, diagnosis and treatment.

TMJ dislocations in children and adolescents: classification, clinical course features, diagnostics.

### **1.8. Congenital malformations of the maxillofacial region in children**

Etiology of congenital malformations of humans (exogenous factors, endogenous factors). Pathogenesis of congenital malformations of the face and their prevention. Congenital systemic malformations of the face and neck (syndromes). Clinical picture and treatment regimen of some syndromes.

Classification of congenital clefts of the lip and palate.

Clinical picture (anatomical and functional disorders) in various forms of congenital clefts of the upper lip and palate.

Features and methods of feeding and caring for children with congenital clefts of the upper lip and palate.

Cheiloplasty and uranoplasty: tasks, methods of implementation and age indications for surgery, preparation of patients for surgery. Medical rehabilitation of children with congenital clefts of the upper lip and palate. Timing and content of the dispensary period in children with congenital malformations of the maxillofacial region.

### **1.9. Trauma of the facial bones in children. Traumatic injuries of soft tissues and teeth in children**

Features of the clinical and radiological picture, diagnosis and treatment of fractures of the lower and upper jaw in children. Features of the clinical and radiological picture, diagnosis and treatment of fractures of the zygomatic bone and arch in children. Features of the clinical and radiological picture, diagnosis and treatment of gunshot fractures of the facial bones in children.

Emergency medical care for children with maxillofacial trauma (prevention of shock, bleeding, asphyxia).

Traumatic osteomyelitis of the jaws in children: clinical features, diagnostics, prevention and treatment. Clinical examination of children with facial bone fractures.

Traumatic injuries of soft tissues and teeth in children. Classification and characteristics of injuries of soft tissues of the maxillofacial region in children.

Closed and open mechanical injuries of soft tissues of the maxillofacial region in children: features of the clinical course, diagnosis and treatment.

Burns and frostbite of the maxillofacial region in children: features of the clinical course, diagnosis and treatment.

Classification and features of dental injuries in children. Bruises, dislocations and fractures of teeth in children: features of clinical course, diagnostics and treatment.

### **1.10. Congenital anomalies of the frenulum of the lips and tongue. Shallow vestibule of the oral cavity. Anomalies of eruption and number of teeth**

Short frenulum of the upper and lower lips: clinical features, indications for surgery, timing and methods of surgical treatment. Shallow vestibule of the oral cavity: clinical features, indications for surgery, vestibular plastic surgery technique. Short frenulum of the tongue: clinical features, indications for surgery, timing and methods of surgical intervention. Complex treatment of children with short frenulum of the lips, tongue and shallow vestibule of the oral cavity.

Anomalies in the number of teeth and anomalies in the eruption of teeth in children: etiology, clinical course features, diagnosis and treatment.

### **1.11. Benign tumors and tumor-like formations of soft tissues of the maxillofacial region in children. Benign osteogenic and non-osteogenic tumors and tumor-like formations of the facial bones in children**

Classification of benign soft tissue tumors of the maxillofacial region in children. Soft tissue tumors of the maxillofacial region of ectodermal origin (papilloma, nevus, epitheloma, atheroma, etc.). Soft tissue tumors of the maxillofacial region of mesodermal origin (fibroma, myoma, lipoma, gingival fibromatosis, neurofibroma, etc.). Features of the clinical course, diagnosis and treatment of benign tumors and tumor-like formations of soft tissues of the maxillofacial region in children.

Vascular tumors of the maxillofacial region in children. Hemangiomas. Classification, clinical features, diagnostics and treatment of facial hemangiomas in children depending on the nosology.

Lymphangiomas of the maxillofacial region and neck in children: classification, clinical features, diagnostics and treatment. Medical examination of children with benign tumors of the soft tissues of the maxillofacial region.

Classification of facial bone tumors in children (A.A.Kolesova). Osteoblastoclastoma of the jaws. Classification, clinical features, diagnostics and treatment of central osteoblastoclastoma in children.

Chondroma of the jaws: classification, clinical course features, diagnosis and treatment.

Osteoma of the jaws: classification, clinical features, diagnostics and treatment. Fibrous dysplasia of the facial bones, cherubism: classification, clinical features, diagnostics and treatment. Fibroma of the facial bones: clinical features, diagnostics and treatment.

Intraosseous hemangioma of the facial bones, myxoma of the facial bones: features of the clinical course, diagnosis and treatment.

Medical examination and rehabilitation of children with benign tumors of the facial bones.

### **1.12. Odontogenic tumors of the facial bones in children. Odontogenic cysts of the jaws in children. Benign tumors and tumor-like formations of the salivary glands in children**

Classification of odontogenic tumors and tumor-like formations of the maxillofacial region (I.I.Ermolaeva).

Ameloblastoma (adamantinoma) in children. Odontogenic cysts (follicular, primary or keratocyst, eruption cyst). Features of the clinical course, diagnosis, differential diagnosis and treatment of ameloblastoma, odontogenic cysts in children.

Cementoma, hard odontoma in children: features of the clinical course, diagnosis and treatment.

Epulis (epulides) in children: classification, clinical features, diagnosis and treatment.

Odontogenic cysts of the jaws in children. Pathogenesis, clinical and radiological picture, diagnostics and methods of treatment of odontogenic cysts of the jaws in children.

Classification of odontogenic cysts in children. Etiology, pathogenesis, clinical features, differential diagnostics of radicular, dentigerous, paradental and follicular cysts.

Etiology, pathogenesis, clinical features, differential diagnosis of primary cyst and eruption cyst.

Indications for cystotomy and cystectomy. Stages and technique of cystotomy and cystectomy. Rehabilitation of children with odontogenic cysts of the jaws.

Benign tumors of the salivary glands in children (adenoma, adenolymphoma, mixed tumor). Cysts of the salivary glands in children. Etiology, features of the clinical course, diagnostics and treatment of benign tumors of the salivary glands in children, cysts of the salivary glands in children.

### **1.13. Malignant tumors of the maxillofacial region and neck in children**

Classification of malignant tumors of the maxillofacial region and neck in children. Malignant melanoma in children: clinical features, early diagnosis and treatment regimen.

Lymphogranulomatosis, lymphosarcoma in children: features of the clinical course, diagnostic methods, differential diagnostics and treatment regimen.

Adenocystic carcinoma (cylindroma), mucoepidermoid tumor of the salivary glands in children: features of the clinical course, early diagnosis and treatment regimen.

Osteogenic sarcoma and chondrosarcoma of the jaws in children: features of the clinical course, early diagnosis and treatment regimen.

Ewing's sarcoma and reticular sarcoma of the facial bones in children: features of the clinical course, early diagnosis and treatment regimen.

Oncovigilance and medical examination of children with malignant tumors of the maxillofacial region.

## **QUESTIONS FOR STATE EXAM**

### **LIST OF QUESTIONS FOR THE ACADEMIC DISCIPLINE «ORAL AND MAXILLOFACIAL SURGERY»**

1. Organization of the maxillofacial surgery and surgical dentistry service in the Republic of Belarus. Structure and equipment of the department of maxillofacial surgery.

2. Clinical methods of examination of a patient with surgical pathology of the maxillofacial region.

3. Special methods of examination of a patient with surgical pathology of the maxillofacial region.

4. Local anesthetics in maxillofacial surgery. Classification, selection criteria.

5. Tuberal anesthesia (intraoral and extraoral access). Indications, anesthesia zone, local complications.

6. Infraorbital anesthesia (intraoral and extraoral methods). Indications, anesthesia zone, local complications.

7. Anesthesia at the greater palatine foramen. Indications, anesthesia zone, local complications.

8. Anesthesia at the incisive foramen. Indications, anesthesia zone, local complications.

9. Mandibular anesthesia (intraoral and extraoral access). Types, indications, anesthesia zone, local complications.

10. Torus anesthesia (according to Weissbrem). Indications, anesthesia zone, local complications.

11. Anesthesia at the mental foramen (intraoral and extraoral) methods). Indications, anesthesia zone, local complications.

12. Local complications of injection anesthesia on the lower jaw. Types, diagnostics, treatment, prevention.

13. Local complications of injection anesthesia in the upper jaw. Types, diagnostics, treatment, prevention.
14. General complications arising during anesthesia in the maxillofacial region.
15. Local complications arising during tooth extraction surgery: alveolar bleeding. Provision of medical care, prevention.
16. Local complications arising during tooth extraction surgery: soft tissue trauma. Providing assistance, prevention.
17. Local complications arising during tooth extraction surgery: perforation of the maxillary sinus floor. Provision of medical care, prevention.
18. Local complications arising during tooth extraction surgery: fractures of tooth roots. Provision of medical care, prevention.
19. Local complications arising during tooth extraction: fractures and dislocations of adjacent teeth and antagonist teeth. Provision of medical care, prevention.
20. Indications and contraindications for tooth extraction surgery.
21. Features of local anesthesia and tooth extraction surgery in patients with somatic pathology (cardiovascular diseases).
22. Features of local anesthesia and tooth extraction surgery in patients with somatic pathology (endocrine system diseases).
23. Features of local anesthesia and tooth extraction surgery in patients with somatic pathology (kidney disease).
24. Features of local anesthesia and tooth extraction surgery in patients with somatic pathology (liver diseases).
25. Features of local anesthesia and tooth extraction surgery in patients with somatic pathology (blood diseases).
26. Features of local anesthesia and tooth extraction surgery in patients with somatic pathology (diseases of the nervous system).
27. Emergency conditions in the practice of a dentist (drug-induced anaphylactic shock). Provision of medical care, prevention.
28. Surgical methods of treatment of apical periodontitis. Indications, methods of performing operations (resection of the root apex, coronary-radicular separation).
29. Surgical methods of treatment of apical periodontitis. Indications, methods of performing operations (root amputation, hemisection).
30. Diseases of teething. Acute pericoronitis. Clinical manifestations, diagnostics, treatment.
31. Diseases of teething. Chronic pericoronitis. Clinical manifestations, diagnostics, treatment.
32. Retention and dystopia of teeth. Clinical manifestations, diagnostics, treatment.
33. Treatment of odontogenic periostitis of the jaws.
34. Clinical signs of systemic inflammatory response syndrome.
35. Mediastinal symptoms in anterior odontogenic mediastinitis.
36. Mediastinal symptoms in posterior odontogenic mediastinitis.
37. Clinical forms of anaerobic infection in the maxillofacial region and neck.
38. Principles of drug therapy for infectious and inflammatory processes of the maxillofacial region and neck.

39. Acute odontogenic maxillary sinusitis. Clinical manifestations, diagnostics, treatment.
40. Chronic odontogenic maxillary sinusitis. Clinical manifestations, diagnostics, treatment.
41. Differential diagnostics of odontogenic and rhinogenic maxillary sinusitis.
42. Perforations and fistulas of the floor of the maxillary sinuses. Clinical manifestations, diagnostics, treatment, prevention.
43. Pre-prosthetic preparation of the oral cavity - Operations on soft tissues of the oral cavity. Pre-operative preparation, types of surgical treatment
44. Pre-prosthetic preparation of the oral cavity - Operations on the jaw bones. Pre-operative preparation, types of surgical treatment
45. Dental implantation: indications and contraindications for the use of the method. Indications and contraindications for choosing the type of dental implant.
46. Dental implantation: patient examination plan, planning of complex orthopedic and surgical treatment.
47. Dental implantation: early and late complications.
48. Odontogenic cysts of the jaws. Classification, diagnostics.
49. Odontogenic cysts of the jaws. Clinical presentation, differential diagnostics.
50. Odontogenic cysts of the jaws. Diagnostics, treatment
51. Non-odontogenic cysts of the jaws. Clinic, diagnostics, treatment
52. Non-odontogenic cysts of the jaws. Clinical presentation, differential diagnostics.
53. Non-odontogenic cysts of the jaws. Diagnostics, treatment
54. Surgical methods of treatment of jaw cysts
55. Median cysts and fistulas of the neck. Clinical presentation, diagnostics, differential diagnostics, surgical treatment.
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57. Obligatory precancerous diseases of the skin. Clinical presentation. Diagnostics. Treatment.
58. Optional precancerous skin diseases Clinical presentation. Diagnostics. Treatment
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60. Osteoblastoclastoma (peripheral form). Clinical presentation, diagnostics. Treatment.
61. Osteoma. Clinical presentation, diagnostics. Treatment.
62. Osteoid osteoma. Clinical presentation, diagnostics. Treatment.
63. Ameloblastoma. Clinical presentation, diagnostics, treatment.
64. Odontoma. Clinical presentation diagnostics, treatment.
65. Cementoma. Clinical presentation, diagnostics, treatment.
66. Vascular tumors. Classification.
67. Vascular tumors. Principles of diagnosis and treatment.
68. Cavernous hemangioma Clinical presentation, diagnostics, treatment methods.

69. Capillary hemangioma. Clinical presentation, diagnostics, treatment methods
70. Branched hemangioma. Clinical presentation, diagnostics, treatment methods
71. Lymphangioma. Clinical presentation, diagnostics, treatment methods.
72. Benign tumors of the salivary glands. Classification.
73. Benign tumors of the salivary glands. Principles of diagnosis
74. Benign tumors of the salivary glands. Surgical treatment options.
75. Benign epithelial tumors of the salivary glands. Classification, clinical signs.
76. Malignant tumors of the salivary glands. Clinical signs.
77. Malignant tumors of the salivary glands. Classification.
78. Malignant tumors of the salivary glands. Principles of diagnosis
79. Malignant tumors of the salivary glands. Principles of treatment.
80. Malignant tumors of the facial skin. Classification.
81. Malignant tumors of the facial skin. Principles of diagnosis
82. Malignant tumors of the facial skin. Principles of treatment
83. Basal cell skin cancer. Clinical presentation, diagnostics, treatment.
84. Squamous cell skin cancer. Clinical presentation, diagnostics, treatment.
85. Lip cancer. Clinical classification, diagnostics, treatment Clinical classification. Principles of diagnostics.
86. Lip cancer. Clinical signs of primary tumor, principles of treatment
87. Malignant lesions of the oral mucosa. Clinical classification. Principles of diagnosis.
88. Malignant lesions of the oral mucosa. Clinical signs of the primary tumor, principles of treatment.
89. Malignant lesions of the tongue. Clinical classification. Principles of diagnosis.
90. Malignant lesions of the tongue. Clinical signs of the primary tumor, principles of treatment
91. Malignant lesions of the mucous membrane of the floor of the oral cavity. Clinical classification. Principles of diagnostics.
92. Malignant lesions of the oral mucosa. Clinical signs of primary tumor, principles of treatment
93. Classification of malignant tumors of the facial bones.
94. Principles of diagnostics of malignant tumors of the facial bones.
95. Sarcomas of the facial bones. Clinical signs, diagnostics.
96. Cancer of the upper jaw. Clinical signs depending on localization, diagnostics.
97. Levels of lymphogenous metastasis of malignant tumors of the maxillofacial region.
98. Operations on the lymphatic apparatus of the neck for malignant tumors of the maxillofacial region – Types of cervical lymph node dissections.
99. Methods of treatment of malignant tumors of the maxillofacial region. (combined, complex and combined)
100. Radical treatment of malignant tumors of the maxillofacial region.

101. Palliative, symptomatic treatment of malignant tumors of the maxillofacial region.

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103. Basic biological principles of plastic surgery of the maxillofacial region

104. Basic principles of planning plastic surgeries in the maxillofacial area

105. Basic operational and technical principles of restorative and reconstructive operations.

106. Local plastic surgeries. Indications. Distinctive features of the technique.

107. Plastic surgery with pedicle flaps. Indications. Distinctive features of the technique.

108. Free transplantation of organs and tissues. Indications. Distinctive features of the technique.

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110. Developmental anomalies and deformations of the lower jaw. Clinical presentation, diagnostics, surgical treatment methods.

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112. Phlegmon of the submandibular region. Topography of the cellular space, etiology, clinical features, diagnostics.

113. Submandibular abscess. Topography of the cellular space, choice of anesthetic technique, surgical approach.

114. Phlegmon of the submandibular region. Topography of the cellular space, choice of anesthetic aid, surgical access.

115. Abscess of the submental region. Topography of the cellular space, etiology, clinical features, diagnostics.

116. Phlegmon of the submental region. Topography of the cellular space, etiology, clinical features, diagnostics.

117. Submental abscess. Topography of the cellular space, choice of anesthetic technique, surgical approach

118. Phlegmon of the submental region. Topography of the cellular space, choice of anesthetic technique, surgical approach.

119. Abscess of the myloglossal groove. Topography of the cellular space, etiology, clinical picture, diagnostics, choice of anesthetic technique, surgical approach.

120. Sublingual abscess. Topography of the cellular space, etiology, clinical picture, diagnostics, choice of anesthetic method, surgical approach.

121. Abscess of the pterygomandibular space. Topography of the cellular space, etiology, clinical features, diagnostics.

122. Phlegmon of the pterygomandibular space. Topography of the cellular space, etiology, clinical features, diagnostics.

123. Abscess of the pterygomandibular space. Topography of the cellular space, choice of anesthetic technique, surgical approach.

124. Phlegmon of the pterygomandibular space. Topography of the cellular space, choice of anesthetic technique, surgical approach.

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126. Phlegmon of the parapharyngeal space. Topography of the cellular space, etiology, clinical picture, diagnostics

127. Abscess of the parapharyngeal space. Topography of the cellular space, choice of anesthetic technique, surgical approach.

128. Phlegmon of the parapharyngeal space. Topography of the cellular space, choice of anesthetic aid, surgical access

129. Phlegmon of the submandibular region. Topography of the cellular space, etiology, clinical picture.

130. Phlegmon of the submandibular region. Clinical presentation, diagnostics, choice of anesthetic aid, surgical access

131. Abscess of the submandibular region. Topography of the cellular space, etiology, clinical picture.

132. Abscess of the submandibular region. Clinical presentation, diagnostics, choice of anesthetic aid, surgical access.

133. Phlegmon of the floor of the oral cavity. Topography of the cellular space, etiology, pathogenesis, clinical picture.

134. Phlegmon of the floor of the oral cavity. Clinical presentation, diagnostics, anesthetic assistance, surgical approaches.

135. Phlegmon of the parotid-masticatory region. Topography of the cellular space, etiology, clinical picture, diagnostics.

136. Phlegmon of the parotid-masticatory region. Topography of the cellular space, choice of anesthetic technique, surgical approach.

137. Submasseterial space abscess. Topography of the cellular space, etiology, clinical picture.

138. Abscess of the submasseterial space. Clinical presentation, diagnostics, choice of anesthetic aid, surgical access.

139. Abscess of the buccal region. Topography of the cellular space, etiology, clinical features, diagnostics.

140. Phlegmon of the buccal region. Topography of the cellular space, etiology, clinical features, diagnostics.

141. Abscess of the buccal region. Topography of the cellular space, choice of anesthetic technique, surgical approach.

142. Phlegmon of the buccal region. Topography of the cellular space, choice of anesthetic aid, surgical access

143. Abscess of the infraorbital region. Topography of the cellular space, etiology, clinical features, diagnostics.

144. Phlegmon of the infraorbital region. Topography of the cellular space, choice of anesthetic aid, surgical access

145. Abscess of the infraorbital region. Topography of the cellular space, choice of anesthetic aid, surgical access.

146. Abscess of the zygomatic region. Topography of the cellular space, etiology, clinical features, diagnostics.

147. Abscess of the zygomatic region. Topography of the cellular space, choice of anesthetic technique, surgical approach.

148. Phlegmon of the zygomatic region. Topography of the cellular space, etiology, clinical picture, diagnostics, choice of anesthetic method, surgical approach.

149. Phlegmon of the zygomatic region. Topography of the cellular space, choice of anesthetic technique, surgical approach.

150. Superficial phlegmon of the temporal region. Topography of the cellular space, etiology, clinical features, diagnostics.

151. Superficial phlegmon of the temporal region. Topography of the cellular space, choice of anesthetic technique, surgical approach.

152. Deep phlegmon of the temporal region. Topography of the cellular space, etiology, clinical features, diagnostics.

153. Deep phlegmon of the temporal region. Topography of the cellular space, choice of anesthetic aid, surgical access.

154. Abscess of the temporal fossa. Topography of the cellular space, etiology, clinical features, diagnostics.

155. Abscess of the temporal fossa. Topography of the cellular space, choice of anesthetic technique, surgical approach.

156. Abscess of the pterygopalatine fossa. Topography of the cellular space, etiology, clinical features, diagnostics.

157. Abscess of the pterygopalatine fossa. Topography of the cellular space, choice of anesthetic technique, surgical approach.

158. Anaerobic infection of the maxillofacial region. Features of surgical and drug treatment.

159. Purulent wound of the maxillofacial region and neck: types of drainage, choice of antiseptic in the first phase of the wound process (inflammation).

160. Purulent wound of the maxillofacial region and neck: local treatment of the second phase of the wound process (regeneration).

161. Purulent wound of the maxillofacial region and neck: local treatment of the third phase of the wound process (epithelialization).

162. Sequence of actions of the doctor during surgical treatment of a purulent focus in the maxillofacial region with abscesses and phlegmons.

163. Expertise of temporary loss of working capacity due to purulent-inflammatory processes in the maxillofacial region.

164. Epidemic mumps. Etiology, clinical features, diagnostics, treatment.

165. Acute bacterial sialadenitis. Etiology, clinical features, diagnostics, treatment.

166. Chronic parenchymatous sialadenitis. Clinical presentation, diagnostics, treatment.

167. Chronic interstitial sialadenitis. Clinical presentation, diagnostics, treatment.

168. Classification of inflammatory processes of the salivary glands

169. Diagnosis of inflammatory diseases of the salivary glands

170. Salivary stone disease. Clinical presentation, diagnostics, treatment

171. Organ-preserving operations for salivary stone disease.

172. Classification of dystrophic diseases of the salivary glands (sialosis).
173. Sjogren's syndrome (disease). Clinical presentation, diagnostics, treatment
174. Mikulicz disease (syndrome). Clinical presentation, diagnostics, treatment.
175. Classification of diseases of the temporomandibular joint.
176. Modern principles of diagnostics of TMJ diseases.
177. Features of planning treatment of TMJ diseases.
178. Acute bacterial arthritis of the TMJ. Clinic, diagnostics, treatment.
179. Reactive arthritis of the TMJ. Clinic, diagnostics, treatment
180. Osteoarthritis of the TMJ. Clinic, diagnosis, treatment.
181. TMJ arthritis Classification.
182. Non-articular TMJ diseases. Classification.
183. Pain syndrome of TMJ dysfunction. Clinic, diagnostics, treatment.
184. Classification of intra-articular disorders of the TMJ.
185. Trigeminal neuralgia. Clinic, diagnostics, treatment.
186. Traumatic neuropathies of the trigeminal nerve. Clinical presentation, diagnostics, treatment.
187. Iatrogenic neuropathies of the branches of the trigeminal nerve. Clinical presentation, diagnostics, treatment.
188. Differential diagnostics of facial pain syndromes (dental plexalgia, odontogenic neuralgia).
189. Differential diagnosis of facial pain syndromes: pulpitis, neuralgia, neuritis, neuropathy.
190. Vestibuloplasty. Types of operations (according to Artyushkevich, according to Clark). Indications, technique of operation.
191. Frenuloplasty: indications, types of operations, preoperative preparation.
192. Closed curettage. Indications, surgical technique
193. Open curettage. Indications, technique of operation.
194. Flap operations. Indications, operation technique
195. Damage to soft tissues of the maxillofacial region without breaking the integrity of the skin.
196. Damage to soft tissues of the maxillofacial region with disruption of the integrity of the skin.
197. Clinical presentation, diagnostics, treatment of penetrating wounds of the maxillofacial region.
198. Clinical presentation, diagnostics, treatment of wounds of the major salivary glands and their main excretory ducts.
199. Topical diagnostics of arterial bleeding by facial regions. Temporary and final stopping of bleeding in the maxillofacial region.
200. Sequence of actions of the doctor during surgical treatment of wounds of soft tissues of the maxillofacial region and neck.
201. Features of drainage during primary surgical treatment of wounds of soft tissues of the face and neck. Selection of suture material, methods of suturing.
202. Features of surgical treatment of wounds in the maxillofacial region when they are localized in the area of natural openings.

203. Prevention of tetanus in injuries to the maxillofacial region.
204. Prevention of rabies in cases of maxillofacial injuries.
205. Prevention of clostridial infection in maxillofacial injuries.
206. Tooth dislocations. Clinical presentation, diagnostics, treatment.
207. Tooth fractures. Clinical presentation, diagnostics, treatment.
208. Alveolar process fractures. Clinical presentation, diagnostics, treatment.
209. Fractures of the lower jaw. Classification, clinical features, diagnostics.
210. Transport immobilization for fractures of the lower jaw.
211. Orthopedic treatment of patients with fractures of the lower jaw: indications for the use of dental splints, rules for splinting.
212. Orthopedic treatment of patients with fractures of the lower jaw: indications for the use of dental splints, types of dental splints.
213. Orthopedic treatment of patients with fractures of the lower jaw: indications for the use of removable orthopedic structures.
214. Surgical treatment of patients with mandible fractures. Indications and types of osteosynthesis.
215. Functional method of treatment of patients with closed fractures of the mandible (branch, condylar and coronoid process).
216. Fractures of the upper jaw according to For-1 (lower): clinical presentation, diagnostics.
217. Fractures of the upper jaw according to For-2 (medium): clinical presentation, diagnostics.
218. Fractures of the upper jaw according to For-3 (upper): clinical features, diagnostics.
219. Surgical treatment of fractures of the upper jaw.
220. Orthopedic treatment of fractures of the upper jaw
221. Fractures of the zygomatic bone: classification, clinical presentation, diagnostics.
222. Fractures of the zygomatic arch: classification, clinical presentation, diagnostics.
223. Fractures of the zygomatic bone: indications and types of surgical treatment.
224. Fractures of the nasal bones. Clinical presentation, diagnostics, treatment.
225. Nasal bone fractures. Types of fractures, diagnostics, treatment.
226. Differential diagnostics of fractures of the zygomatic bone, maxilla and zygomatic-orbital complex.
227. Combined craniofacial trauma. Clinical presentation, diagnostics.
228. Combined craniofacial trauma. Organization and implementation of surgical treatment.
229. Traumatic shock. Clinical presentation, diagnostics, assistance.
230. Hemorrhagic shock. Clinical presentation diagnostics, provision of assistance.
231. Types of asphyxia. Clinical presentation, diagnostics, assistance.

232. General complications in traumatic injuries of the facial bones: asphyxia. Transportation of victims. Provision of assistance in various healthcare institutions (emergency room, district hospital, regional hospital, specialized center).

233. Early local complications in traumatic injuries of the facial bones: subcutaneous emphysema. Clinical presentation, diagnostics, surgical treatment.

234. Early local complications in traumatic injuries of the facial bones: bleeding from the fracture line. Clinical presentation, diagnostics, surgical treatment.

235. Early local complications in traumatic injuries of the facial bones: hematoma of soft tissues in the fracture area. Clinical presentation, diagnostics, surgical treatment.

236. Late local complications in traumatic injuries of the facial bones: chronic traumatic osteomyelitis. Clinical features, diagnostics, surgical treatment.

237. Late local complications in traumatic injuries of the facial bones: chronic traumatic osteomyelitis. Clinical features, diagnostics, surgical treatment.

238. Late local complications in traumatic injuries of the facial bones: formation of a pseudoarthrosis. Clinical presentation, diagnostics, surgical treatment.

239. Late local complications in traumatic injuries of the facial bones: cicatricial contracture of the masticatory muscles. Clinical presentation, diagnostics, surgical treatment.

240. Late local complications in traumatic injuries of the facial bones: ankylosis of the TMJ. Clinical presentation, diagnostics, surgical treatment.

241. Providing first medical aid to patients with maxillofacial trauma

242. Provision of specialized medical care to patients with maxillofacial trauma.

243. Time periods for immobilization for various types of facial bone fractures.

244. Determination of clinical signs of consolidation of bone fragments. Timing of control radiography.

245. Rehabilitation of patients with facial bone fractures: physiotherapy, exercise therapy. Indications and terms of administration.

246. Facial burns. Clinical presentation, diagnostics, organization of treatment.

247. Burn disease. Clinical presentation, diagnostics, organization of treatment

248. Frostbite of the face. Clinical picture, diagnostics, organization of treatment.

**LIST OF QUESTIONS FOR THE ACADEMIC DISCIPLINE  
«PEDIATRIC DENTISTRY» (CHAPTER «PEDIATRIC OUTPATIENT AND  
HOSPITAL ORAL SURGERY»)**

1. Types of local anesthesia in pediatric dentistry: indications, technique, anesthetics. Rules for injection anesthesia. Anesthetics, indications for use.

2. General complications of injection anesthesia. Local complications of injection anesthesia. Prevention of complications of anesthesia and provision of emergency care in case of complications.

3. Anesthesia in pediatric dentistry. Types of anesthesia. Indications and contraindications for anesthesia in children on a planned and emergency basis. Preparing a child for anesthesia. The scope of examination of a child in preparation

for anesthesia. Premedication, sedative preparation of a child, principles of implementation, drugs. Features of resuscitation in childhood.

4. Tooth extraction surgery in children: indications, contraindications, features of the extraction technique, complications and their prevention. Tooth extraction forceps. Complications during and after tooth extraction surgery in children.

5. Peculiarities of the anatomical structure of teeth, jaws, lymph nodes, influencing the course of odontogenic inflammatory diseases in children. Physiological features of the child's body influencing the course of inflammatory diseases. Pathways of spreading odontogenic infection from the teeth of the upper and lower jaws.

6. Etiology, pathogenesis, clinical features, diagnostics and treatment of acute purulent periostitis of the jaws in children. Etiology, pathogenesis, clinical and radiological picture, diagnostics and treatment of chronic periostitis in children. Indications for hospitalization of children with acute and chronic periostitis.

7. Acute osteomyelitis of the jaws in children: etiology, pathogenesis, clinical features, diagnostics, treatment, complications and prevention of acute odontogenic, acute hematogenous, acute traumatic osteomyelitis in children. Indications for hospitalization of children with acute osteomyelitis.

8. Chronic osteomyelitis of the jaws in children: etiology, pathogenesis, clinical and radiological picture, diagnostics and treatment. Complications and outcomes of chronic osteomyelitis of the jaws in children. Medical examination and medical rehabilitation of children with chronic osteomyelitis of the jaw.

9. Acute and chronic odontogenic maxillary sinusitis in children: etiology, clinical course, diagnostics and treatment. Clinical manifestations and tactics of a dentist when opening the bottom of the maxillary sinus during tooth extraction. Indications for hospitalization of children with odontogenic maxillary sinusitis.

10. Furuncles of the face in children. Etiology, pathogenesis, clinical features and diagnostics of furuncles in the infiltration and abscessing stage. Treatment of furuncles of the face in children, complications and their prevention. Indications for hospitalization of children with furuncles of the face.

11. Etiology, pathogenesis and classification of lymphadenitis of the maxillofacial region in children.

12. Peculiarities of the clinical course, diagnostics of acute, chronic and specific lymphadenitis of the maxillofacial region in children. Differential diagnostics of lymphadenitis and its treatment in children.

13. Etiology, classification, clinical features, diagnostics and treatment of abscesses and phlegmons in children. Indications for hospitalization of children with lymphadenitis, abscesses and phlegmons.

14. Etiology, pathogenesis and classification of actinomycosis of the maxillofacial region in children. Treatment and prevention of actinomycosis of the maxillofacial region in children.

15. Classification of inflammatory diseases of the salivary glands in children. Methods of examination of children with inflammatory diseases of the salivary glands. Medical examination of children with inflammatory diseases of the salivary glands.

16. Etiopathogenesis, clinical course features, diagnosis and treatment of epidemic and non-epidemic mumps, influenza sialadenitis in children.

17. Etiopathogenesis, clinical features, diagnosis, treatment of chronic parenchymatous mumps in the acute stage and in the remission stage.

18. Etiopathogenesis, clinical features, diagnosis and treatment of children with salivary stone disease.

19. Features of the structure of the temporomandibular joint (TMJ) in children at different age periods.

20. Classification of diseases of the temporomandibular joint in children and adolescents.

21. TMJ arthritis in children and adolescents: classification, etiology, clinical features, diagnosis, treatment.

22. Secondary deforming osteoarthritis of the TMJ in children and adolescents: etiology, pathogenesis, clinical course features, diagnosis and treatment.

23. Bone ankylosis of the TMJ in children and adolescents, neoarthrosis: etiology, pathogenesis, clinical course features, diagnosis and treatment.

24. Etiology and pathogenesis of functional TMJ diseases in adolescents. Juvenile TMJ dysfunction, clinical features, diagnostics and treatment.

25. Inflammatory and degenerative diseases of the TMJ, features of the clinical course, diagnosis and treatment.

26. Dislocations of the TMJ in children and adolescents: classification, features of the clinical course, diagnostics.

27. Etiology of congenital malformations of humans. Pathogenesis of congenital malformations of the face and their prevention. Congenital systemic malformations of the face and neck (syndromes). Clinical picture and treatment regimen of some syndromes.

28. Classification of congenital clefts of the upper lip and palate. Clinical picture in various forms of congenital clefts of the upper lip and palate. Features and methods of feeding and caring for children with congenital clefts of the upper lip and palate.

29. Cheiloplasty and uranoplasty: tasks, methods of implementation and age indications for surgery, preparation of patients for surgery. Medical rehabilitation of children with congenital clefts of the upper lip and palate. Timing and content of the dispensary period in children with congenital malformations of the maxillofacial region.

30. Features of the clinical and radiological picture, diagnosis and treatment of fractures of the lower and upper jaw in children.

31. Features of the clinical and radiological picture, diagnosis and treatment of fractures of the zygomatic bone and arch in children.

32. Features of the clinical and radiological picture, diagnosis and treatment of gunshot fractures of the facial bones in children.

33. Emergency medical care for children with maxillofacial trauma (prevention of shock, bleeding, asphyxia).

34. Traumatic osteomyelitis of the jaws in children: clinical course, diagnostics, prevention and treatment. Clinical examination of children with facial bone fractures.

35. Traumatic injuries of soft tissues and teeth in children. Classification and characteristics of injuries of soft tissues of the maxillofacial region in children.

36. Closed and open mechanical injuries of soft tissues of the maxillofacial region in children: features of the clinical course, diagnosis and treatment.

37. Burns and frostbite of the maxillofacial region in children: features of the clinical course, diagnosis and treatment.

38. Classification and characteristics of dental injuries in children. Bruises, dislocations and fractures of teeth in children: characteristics of the clinical course, diagnostics and treatment.

39. Short frenulum of the upper and lower lips: clinical features, indications for surgery, timing and methods of surgical treatment. Shallow vestibule of the oral cavity: clinical features, indications for surgery, vestibular plastic surgery technique. Short frenulum of the tongue: clinical features, indications for surgery, timing and methods of surgical intervention. Complex treatment of children with short frenulum of the lips, tongue and shallow vestibule of the oral cavity.

40. Anomalies in the number of teeth and anomalies in the eruption of teeth in children: etiology, features of the clinical course, diagnosis and treatment.

41. Classification of benign tumors of soft tissues of the maxillofacial region in children. Features of the clinical course, diagnosis and treatment of benign tumors and tumor-like formations of soft tissues of the maxillofacial region in children.

42. Vascular tumors of the maxillofacial region in children. Hemangiomas. Classification, features of the clinical course, diagnosis and treatment of facial hemangiomas in children depending on the nosology.

43. Lymphangiomas of the maxillofacial region and neck in children: classification, clinical features, diagnostics and treatment. Medical examination of children with benign tumors of the soft tissues of the maxillofacial region.

44. Classification of facial bone tumors in children (A.A.Kolesova). Osteoblastoclastoma of the jaws. Classification, clinical features, diagnostics and treatment of central osteoblastoclastoma in children.

45. Chondroma of the jaws: classification, features of the clinical course, diagnosis and treatment.

46. Osteoma of the jaws: classification, clinical features, diagnostics and treatment. Fibrous dysplasia of the facial bones, cherubism: classification, clinical features, diagnostics and treatment. Fibroma of the facial bones: clinical features, diagnostics and treatment.

47. Intraosseous hemangioma of the facial bones, myxoma of the facial bones: features of the clinical course, diagnosis and treatment.

48. Medical examination and rehabilitation of children with benign tumors of the facial bones.

49. Classification of odontogenic tumors and tumor-like formations of the maxillofacial region (I.I.Ermolaeva).

50. Ameloblastoma (adamantinoma) in children. Odontogenic cysts (follicular, primary or keratocyst, eruption cyst). Features of the clinical course, diagnosis, differential diagnosis and treatment of ameloblastoma, odontogenic cysts in children.

51. Cementoma, hard odontoma in children: features of the clinical course, diagnosis and treatment.

52. Epulis (epulides) in children: classification, features of the clinical course, diagnosis and treatment.

53. Odontogenic cysts of the jaws in children. Pathogenesis, clinical and radiological picture, diagnostics and methods of treatment of odontogenic cysts of the jaws in children.

54. Classification of odontogenic cysts in children. Etiology, pathogenesis, clinical course features, differential diagnostics of radicular, dentigerous, paradental and follicular cysts.

55. Etiology, pathogenesis, features of the clinical course, differential diagnosis of primary cyst and eruption cyst.

56. Indications for cystotomy and cystectomy. Stages and technique of cystotomy and cystectomy. Rehabilitation of children with odontogenic cysts of the jaws.

57. Clinical reception of patients: collection of complaints and medical history; preparation of a patient examination plan; conducting a clinical and radiographic examination; diagnosis; conducting all stages of treatment; medical examination of patients with odontogenic cysts of the jaws in children.

58. Benign tumors of the salivary glands in children. Salivary gland cysts in children. Etiology, clinical features, diagnostics and treatment of benign tumors of the salivary glands in children, salivary gland cysts in children.

59. Classification of malignant tumors of the maxillofacial region and neck in children. Malignant melanoma in children: features of the clinical course, early diagnosis and treatment regimen.

60. Lymphogranulomatosis, lymphosarcoma in children: features of the clinical course, diagnostic methods, differential diagnostics and treatment regimen.

61. Adenocystic carcinoma (cylindroma), mucoepidermoid tumor of the salivary glands in children: features of the clinical course, early diagnosis and treatment regimen.

62. Osteogenic sarcoma and chondrosarcoma of the jaws in children: features of the clinical course, early diagnosis and treatment regimen.

249. Ewing's sarcoma and reticular sarcoma of the facial bones in children: features of the clinical course, early diagnosis and treatment regimen.

63. Oncovigilance and medical examination of children with malignant tumors of the maxillofacial region.

## INFORMATION AND METHODOLOGICAL UNIT

### LITERATURE

#### **Basic:**

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#### **Additional:**

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5. Contemporary Oral and Maxillofacial Surgery/ James R. Hupp DMD MD JD MBA, Myron R. Tucker DDS, Edward Ellis III DDS MS. – 7th edition. – Mosby, 2018. – 721 p.
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