

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS  
EDUCATIONAL INSTITUTION  
BELARUSIAN STATE MEDICAL UNIVERSITY

**Контрольный  
экземпляр**



**APPROVED**

by First Vice-Rector, Professor

\_\_\_\_\_ I.N.Moroz

27.06.2023

Reg. # UD-07-21/2324/edu.

**ORAL SURGERY AND PROPAEDEUTICS OF  
MAXILLOFACIAL SURGICAL DISEASES**

**Curriculum of educational institution  
in the educational discipline for the specialty:**

**1-79 01 07 «Dentistry»**

Curriculum is based on the educational program « Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases», approved 27.06.2023, registration # УД-07-21/2324/уч.; on the educational plan in the specialty 1-79 01 07 «Dentistry», approved 17.05.2023, registration # 7-07-0911-03/2324/mf.

**COMPILERS:**

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**RECOMMENDED FOR APPROVAL:**

by the Department of Oral Surgery of the educational institution «Belarusian State Medical University»  
(protocol # 12 of 17.04.2023);

by the Scientific and Methodological Council of the educational institution «Belarusian State Medical University»  
(protocol # 6 of 27.06.2023)

## EXPLANATORY NOTE

«Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases» - the academic discipline of the module «Oral and Maxillofacial Surgery», containing systematized scientific knowledge about the etiology, pathogenesis, clinical symptoms, methods of special, laboratory diagnostics, differential diagnostics; medical prevention and complex surgical treatment of diseases of the maxillofacial region and neck; postoperative medical rehabilitation of patients.

The aim of the discipline «Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases» is the formation of specialized competencies for solving interpersonal and professional interaction problems; problems of professional activity; building a clinical diagnosis; surgical treatment of major diseases of the maxillofacial region and neck on an outpatient basis.

The objectives of the discipline «Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases» are to form students' scientific knowledge about:

- principles of organization of maxillofacial surgery and surgical dentistry in the Republic of Belarus;

- principles of examination of patients;

- methods of local anesthesia, which are used in maxillofacial surgery and surgical dentistry;

- methods for predicting and diagnosing infectious inflammatory processes in the maxillofacial region;

- methods of treatment and medical rehabilitation of patients with infectious inflammatory processes of the maxillofacial area in an outpatient setting;

- methods for predicting and diagnosing odontogenic diseases of the maxillary sinuses;

- methods of treatment of odontogenic diseases of the maxillary sinuses in an outpatient setting;

- skills and abilities necessary for:

- interpreting the results of laboratory and instrumental research methods; making a diagnosis;

- first aid in the development of general complications of local injection anesthesia and during outpatient surgical dental interventions;

- implementation of medical care for patients with surgical pathology of the maxillofacial region and neck in the pre- and postoperative period.

The knowledge, skills, and abilities acquired during the study of the academic discipline «Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases» are necessary for successful mastering of the discipline «Maxillofacial Surgery and Outpatient Maxillofacial Surgery».

Studying the educational discipline «Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases» should ensure the formation of students' following competencies.

SC-5. Conduct examination of patients with pathology of the maxillofacial region, apply methods of anesthesia in maxillofacial surgery and dentistry, apply methods of dental surgery, methods of diagnosis and treatment of patients with

odontogenic and non-odontogenic inflammatory processes of the maxillofacial region at the outpatient department, diagnostics of odontogenic diseases of the maxillary sinuses.

**As a result of studying the discipline «Oral Surgery and Propaedeutic of Maxillofacial Surgical Diseases» the student should**

**know:**

organizational and economic aspects of the activities of healthcare organizations to provide medical care to patients with surgical diseases of the maxillofacial region;

etiology, pathogenesis, classification, clinical picture, methods of prediction, diagnosis and treatment of odontogenic and non-odontogenic infectious and inflammatory processes of the maxillofacial region and neck;

indications and contraindications for general and local anesthesia;

indications and contraindications for tooth extraction;

methods of providing emergency medical care on an outpatient basis;

features of the provision of surgical dental care to patients with specific infectious and inflammatory processes;

basic principles of dynamic monitoring of patients with surgical diseases of the maxillofacial region and neck;

**be able to:**

conduct examination of patients with surgical diseases of the maxillofacial region and neck;

perform local anesthesia in the maxillofacial area;

perform certain types of outpatient surgical interventions (tooth extraction operation; atypical complex tooth extraction operation; tooth-saving operations; incisional biopsy);

to carry out primary surgical treatment of purulent wounds of soft tissues of the maxillofacial region;

provide emergency medical care for shock, asphyxia, bleeding;

draw up medical documentation;

**master:**

rules for the treatment of hands, antiseptic treatment of the surgical field; covering the surgical field with sterile linen;

methods of collecting complaints, anamnesis of life and anamnesis of the disease;

methodological rules for examining patients with surgical diseases of the maxillofacial region and neck;

methods of palpation of regional lymph nodes of the maxillofacial region, all parts of the tongue, bimanual palpation of the salivary glands, determination of the symptom of fluctuation;

by auscultation in the maxillofacial region;

methods of infiltration anesthesia in the maxillofacial region and on the neck;

methods of conducting conduction anesthesia on the lower and upper jaws;

the method of providing emergency medical care in the development of local complications of injection anesthesia;

methods of preparing the patient for general anesthesia;  
 method of performing a tooth extraction operation;  
 methods of resuscitation;

methods for predicting the course of infectious and inflammatory processes in the maxillofacial region and neck, determining the dynamics of the development of the disease;

methods of temporary and permanent stop of bleeding from the wound;  
 skills of medical care for patients with surgical pathology of the maxillofacial region and neck in the pre- and postoperative period.

**Total number** of hours for the study of the discipline is 312 academic hours. Classroom hours according to the types of studies: lectures - 28 hours, practical classes - 165 hours, student independent work (self-study) - 119 hours.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of a credit (5 semester), examination (6 semester).

Form of higher education – full-time.

### ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name of the specialty	semester	Number of academic hours						Form of intermediate assessment
		total	in-class	including			out-of-class self-studies	
				lectures	supervised student independent work	laboratory studies (practical classes and seminars)		
<b>1-79 01 07 «Dentistry»</b>	5	136	99	14	-	85	37	Credit
	6	176	94	14	-	80	82	Exam

## THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
<b>1. Introduction to the specialty</b>	<b>2</b>	<b>15</b>
1.1. History of development and organization of maxillofacial surgery and oral surgery in the world and in the Republic of Belarus	2	-
1.2. Deontology in maxillofacial surgery and oral surgery. Dental surgery room	-	5
1.3. Preparation of the hands of the dentist-surgeon and the operating field. Disinfection and sterilization	-	5
1.4. Examination of patients with surgical pathology in maxillofacial area	-	5
<b>2. Anesthesia in maxillofacial surgery and oral surgery</b>	<b>3</b>	<b>30</b>
2.1. Local anesthesia in dentistry. Local anesthetics	1	5
2.2. Infiltration anesthesia in the maxillofacial region		5
2.3. Nerve block anesthesia on the lower jaw	1	5
2.4. Nerve block anesthesia on the upper jaw		5
2.5. Local complications of injecting anesthesia		5
2.6. General anesthesia. Multimodal anesthesia	1	5
<b>3. Oral Surgery</b>	<b>10</b>	<b>40</b>
3.1. Indications and contraindications for tooth extraction	2	5
3.2. The tools and techniques for teeth removal in the upper jaw		5
3.3. The tools and techniques for teeth removal in the lower jaw		5
3.4. Methods of operation of complex extraction of teeth on the upper and lower jaws	2	5
3.5. Local complications of tooth extraction	2	5
3.6. Local anesthesia peculiarities and teeth removal in patients with somatic pathology	2	5
3.7. Common complications associated with tooth extraction, the provision of emergency medical services	2	10
<b>4. Infectious inflammatory processes of the maxillofacial region and neck</b>	<b>11</b>	<b>70</b>
4.1. Odontogenic infectious inflammatory diseases in the maxillofacial region and neck	1	5
4.2. Apical periodontitis	2	5
4.3. Diseases of eruption, retention, dystopia	-	5
4.4. Periostitis of the jaws	-	5
4.5. Acute odontogenic osteomyelitis of the jaws	1	5
4.6. Chronic odontogenic osteomyelitis of the jaws	1	5

Section (topic) name	Number of class hours	
	lectures	practical
4.7. Odontogenic lymphadenitis of the maxillofacial area and neck	-	5
4.8. Differential diagnosis of periodontitis, periostitis, odontogenic osteomyelitis of the jaws, lymphadenitis	1	5
4.9. Furuncles and carbuncles of the maxillofacial area and neck	-	5
4.10. Phlebitis of the facial veins, thrombosis of the cavernous and other sinuses of the dura mater	1	5
4.11. Anaerobic infection, odontogenic mediastinitis	1	5
4.12. Sepsis in patients with infectious inflammatory processes in maxillofacial area and neck	2	5
4.13. Prognosis of infectious inflammatory processes in maxillofacial area and neck		5
4.14. Modern principles of purulent wounds treatment in the maxillofacial area and neck. Medical rehabilitation of patients with infectious inflammatory diseases of maxillo-facial area in outpatient clinics	1	5
<b>5. Specific inflammatory processes in maxillofacial area</b>	<b>1</b>	<b>5</b>
<b>6. Diseases of the maxillary sinus</b>	<b>1</b>	<b>5</b>
<b>Total hours</b>	<b>28</b>	<b>165</b>

## CONTENT OF THE EDUCATIONAL MATERIAL

### 1. INTRODUCTION TO THE SPECIALTY

#### 1.1. History of development and organization of maxillofacial surgery and oral surgery in the world and in the Republic of Belarus

History of development and organization of the service of maxillofacial surgery and oral surgery in the Republic of Belarus and in the world. Scientists, who have made a significant contribution to the development of maxillofacial surgery and oral surgery. Aims and objectives of oral surgery and maxillofacial surgery.

#### 1.2. Deontology in maxillofacial surgery and oral surgery. Dental surgery room

Deontological aspects of the work of dentists-surgeons and maxillofacial surgeons. Organization of doctor's relationship with patients, with medical personnel.

The service structure of maxillofacial surgery and surgical dentistry in the Republic of Belarus. Staff standards in the service of maxillofacial surgery and surgical dentistry in the Republic of Belarus. Job responsibilities of dental surgeons and maxillofacial surgeons.

Organizational structure of the dental department (cabinet) of maxillofacial surgery.

Accounting and reporting documentation, filling rules.

Practical skills training - preparation of medical documentation.

### **1.3. Preparation of the hands of the dentist-surgeon and the operating field. Disinfection and sterilization**

Sanitary and epidemiological regime in the departments and offices of maxillofacial surgery. Requirements for the premises and equipment in the department of maxillofacial surgery and surgical dental office. Basic provisions and requirements in the organization of the workplace of a dentist-surgeon and maxillofacial surgeon.

Ensuring epidemiological safety in the provision of medical care to outpatient surgical dental patients.

Rules for processing the surgical field and hands of a dentist-surgeon. Preparation of instruments, dressings for sterilization. Methods and modes of sterilization. Disinfection, classification of disinfectants.

Practical skills training - processing the hands of a dentist-surgeon, the operating field in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus.

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

Examination of the maxillofacial region, neck and oral cavity of the patient. Palpation of soft tissues and bones of the face, oral cavity, lymph nodes, salivary glands. Clinical and paraclinical methods of examination of patients with diseases of the maxillofacial region and neck. Stages of treatment planning in accordance with the current clinical protocols of the Ministry of Health of the Republic of Belarus.

Principles of care for patients with surgical pathology of the maxillofacial region and neck: preparation of patients for surgery, postoperative care, control of the correctness of the fulfillment of medical prescriptions by middle and junior medical personnel.

Examination of patients with surgical diseases of the maxillofacial region and neck: collection of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics. Registration of medical documentation in the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus.

## **2. ANESTHESIA IN MAXILLOFACIAL SURGERY AND ORAL SURGERY**

### **2.1. Local anesthesia in dentistry. Local anesthetics**

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

Local anesthetics approved for use on the territory of the Republic of Belarus, their pharmacological characteristics. Anesthesia instruments.

Practical skills training -write a prescription for local anesthetics approved for use on the territory of the Republic of Belarus.



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

Types of infiltration anesthesia. Infiltration anesthesia technique. Types of local complications of infiltration anesthesia: clinical picture, causes of development, treatment. Possible errors during injection anesthesia, prevention.

Practical skills training -practicing anesthesia skills on simulation equipment.

## **2.3. Nerve block anesthesia on the lower jaw**

Nerve block anesthesia on the lower jaw. Anatomical and topographic landmarks during nerve block anesthesia in the lower jaw. Separate techniques for conducting nerve block anesthesia on the lower jaw.

Practicing the skills of nerve block anesthesia in the region of the lower jaw on simulation equipment.

## **2.4. Nerve block anesthesia on the upper jaw**

Nerve block anesthesia on the upper jaw. Anatomical and topographic landmarks during nerve block anesthesia in the region of the upper jaw. Separate techniques for nerve block anesthesia on the upper jaw.

Practicing the skills of conducting nerve block anesthesia in the region of the upper jaw on simulation equipment.

## **2.5. Local complications of injection anesthesia**

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

Examination of patients with local complications of injection anesthesia: collection of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

## **2.6. General anesthesia. Multimodal anesthesia**

Indications and contraindications for general anesthesia. Methods of tracheal intubation in patients with surgical pathology of the maxillofacial region.

Medicines, instrumental and hardware for general anesthesia. Carrying out general anesthesia in maxillofacial surgery in inpatient and outpatient settings.

Multimodal analgesia: neuroleptanalgesia, ataralgesia, complex anesthesia with acupuncture analgesia, analgesia with transcutaneous electrical nerve stimulation. Indications, contraindications for carrying out.

Practicing general anesthesia skills on simulation equipment.

# **3. ORAL SURGERY**

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

Tooth extraction operations: general and local (sanitation, sanitation-prosthetic and orthodontic, functional-sanitation, aesthetic), absolute (permanent), relative indications. Contraindications to tooth extraction surgery: absolute (permanent) and relative (temporary) general, absolute (permanent) and relative (temporary) local.

Determination of indications and contraindications for tooth extraction surgery in outpatient dental patients. Analysis of the results of radiation and laboratory

research methods with determination of indications and contraindications for tooth extraction surgery..

### **3.2. The tools and techniques for teeth removal in the upper jaw**

Anatomical features of the structure of the upper jaw. Instrumentation for the operation of removing teeth on the upper jaw, a sign of the angle and bending («curvature») of the handles, the convergence of the cheeks, the side, the width of the cheeks for forceps intended for removing teeth on the upper jaw. Axle and mirror rules. Stages of tooth extraction surgery in the upper jaw. Basic principles of ergonomics when performing tooth extraction surgery on the upper jaw. The position of the doctor and the patient during the operation of removing teeth on the upper jaw. Removing the roots of the upper jaw teeth using forceps and an elevator.

Practicing the practical skills of performing a tooth extraction operation in the upper jaw using simulation equipment.

### **3.3. The tools and techniques for teeth removal in the lower jaw**

Anatomical features of the structure of the lower jaw. Tools for performing the operation teeth removal on the lower jaw, a sign of the angle and plane of bending of the forceps, the convergence of the cheeks, the width of the cheeks for forceps intended for removing teeth on the lower jaw. Mirror rule. Stages of the operation of tooth extraction in the lower jaw. Basic principles of ergonomics when performing tooth extraction surgery on the lower jaw. The position of the doctor and the patient during the operation of removing teeth on the lower jaw. Removing the roots of the lower jaw teeth using forceps and an elevator.

Practicing practical skills for performing a tooth extraction operation on the lower jaw using simulation equipment.

### **3.4. Methods of operation of complex extraction of teeth on the upper and lower jaws**

Etiological and pathogenetic factors leading to surgery - atypical complex tooth extraction. Dystopia, inclusion, tooth retention. Classification of the spatial arrangement of the third molars of the mandible. Classification of medially inclined impacted mandibular third molars. Classification of vertically impacted mandibular third molars. Classification of distally impacted mandibular third molars. Classification of horizontally impacted mandibular third molars. Classification of impacted mandibular third molars in the buccal (buccoversion) and lingual (linguoversion) directions. Classification of anomalies of the roots of impacted third molars of the mandible. Classification of root bends of impacted third molars of the mandible. Basic principles of radiological diagnostic methods in preparation for surgery for atypical complex removal of the third molar. Determination of the localization of the apexes of the roots of the third molar relative to the mandibular canal based on data from radiological research methods. Basic rules of ergonomics when performing an operation of atypical complex removal of the third molar. Methods of operations for atypical complex tooth extraction on the upper and lower jaw. Instrumentation necessary for performing an atypical complex tooth extraction operation.

Practicing practical skills for complex and atypical tooth extraction in the upper and lower jaws using simulation equipment.

### **3.5. Local complications of tooth extraction**

Reasons leading to complications during and after the operation of tooth extraction. Prevention of complications. Providing specialized medical care for complications that arose during and after the operation of tooth extraction.

Examination of patients with local complications that occurred during and after the operation of tooth extraction: collection of complaints and anamnesis of the disease; determination of treatment tactics in the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus; surgical and medical treatment of local complications. Making medical documentation.

### **3.6. Local anesthesia peculiarities and teeth removal in patients with somatic pathology**

The tactics of a dentist-surgeon in providing medical care to patients with somatic diseases, planning a tooth extraction operation and choosing an anesthetic in patients with diseases of the cardiovascular system, connective tissue, liver, kidneys, nervous system, and systemic blood diseases. Prevention of complications. Features of anesthesia and tooth extraction in pregnant women and nursing mothers.

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

Examination of surgical dental patients with somatic diseases: collection of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

### **3.7. Common complications associated with tooth extraction, the provision of emergency medical services**

Complications that occur at a dentist's procedures: hypertensive crisis, acute cerebrovascular accident, angina attack, acute myocardial infarction, bronchial asthma attack, coma in diabetes mellitus, convulsive syndrome. Clinical manifestations of emergency conditions. Providing first aid in emergency situations.

Risk factors, clinical manifestations, diagnosis, differential diagnosis of drug-induced anaphylactic shock. Tactics of a dentist in the development of anaphylactic shock in a patient. Providing emergency medical care.

Practicing practical skills in providing emergency medical care on simulation equipment.

## **4. INFECTIOUS INFLAMMATORY PROCESSES OF THE MAXILLOFACIAL REGION AND NECK**

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

Odontogenic infections in maxillofacial surgery and dentistry. Modern classification, etiology, pathogenesis of odontogenic infectious and inflammatory diseases of the maxillofacial region and neck. Ways of spreading infection in the maxillofacial region.

Examination of surgical dental patients with odontogenic infectious and inflammatory diseases, survey of complaints and anamnesis of the disease; clinical

examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

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

Apical periodontitis: classification, clinical manifestations, diagnosis, differential diagnosis, treatment. Features of the clinical course of apical periodontitis in the upper and lower jaws.

Radiological (X-ray) and laboratory research tests in apical periodontitis.

Examination of surgical dental patients with apical periodontitis, survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

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. Dynamic monitoring of patients with apical periodontitis.

Examination of patients with apical periodontitis: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics, examination of temporary disability in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

#### **4.3. Diseases of eruption, retention, dystopia**

Retention and dystopia of teeth: etiology, pathogenesis, classification, clinical picture, diagnosis, possible complications, indications for extraction of impacted and dystopic teeth, complex treatment.

Factors leading to retention and dystopia of teeth. Classification of teething diseases, diagnosis, surgical treatment. Therapeutic exercise, physiotherapy / reflexology as part of complex treatment. Examination of temporary disability. Dynamic monitoring of patients with teething diseases.

Examination of patients with retention and dystopia of teeth: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

#### **4.4. Periostitis of the jaws**

Periostitis of the jaws: classification, clinical course, diagnosis, differential diagnosis, treatment. Stages of primary surgical treatment, drug and complex treatment of patients in accordance with the current clinical protocols of the Ministry of Health of the Republic of Belarus. Examination of temporary disability. Dynamic monitoring of patients with jaw periostitis.

Examination of patients with jaw periostitis: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

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

Acute odontogenic osteomyelitis of the jaws: etiology, theories of development, classification, clinical picture, differential diagnosis, treatment in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus, prevention of complications. Examination of temporary disability. Dynamic monitoring of patients with acute odontogenic osteomyelitis of the jaws.

Examination of patients with acute odontogenic osteomyelitis of the jaws: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

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

Chronic odontogenic osteomyelitis: causes of the transition into a chronic form, the clinical course of chronic odontogenic osteomyelitis in the lower and upper jaws. diagnostics, differential diagnostics, treatment in accordance with the current clinical protocols of the Ministry of Health of the Republic of Belarus. Medicamentous and complex treatment. Examination of temporary disability. Dynamic monitoring of patients with chronic odontogenic osteomyelitis of the jaws.

Definition of a sequester. The structure of the sequester capsule.

Chronic ossifying osteomyelitis Garre: diagnosis, differential diagnosis, treatment.

Examination of patients with chronic osteomyelitis of the jaws: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

#### **4.7. Odontogenic lymphadenitis of the maxillofacial area and neck**

Topography of the lymphatic apparatus of the maxillofacial region. Clinical picture, diagnosis, differential diagnosis of odontogenic lymphadenitis of the maxillofacial region. Indications for surgical treatment. Methods of surgical treatment, drug and complex treatment in accordance with the current clinical protocols of the Ministry of Health of the Republic of Belarus. Examination of temporary disability. Dynamic monitoring of patients with odontogenic lymphadenitis of the maxillofacial region.

Examination of patients with odontogenic lymphadenitis of the jaws: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for

an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

#### **4.8. Differential diagnosis of periodontitis, periostitis, odontogenic osteomyelitis of the jaws, lymphadenitis**

Comparative characteristics of clinical manifestations, radiation and laboratory research methods in patients with periodontitis, periostitis, odontogenic jaw osteomyelitis, lymphadenitis.

Examination of patients with odontogenic infectious and inflammatory processes of the maxillofacial region and neck: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

#### **4.9. Furuncles and carbuncles of the maxillofacial area and neck**

Clinical picture, diagnosis, treatment of boils and carbuncles in the maxillofacial region and neck. Features of the clinical course of boils and carbuncles in the maxillofacial region. Establishing diagnosis. Complications and their prevention.

Complex treatment of patients with boils and carbuncles of the maxillofacial region. Examination of temporary disability. Dynamic monitoring of patients with boils and carbuncles of the maxillofacial region and neck.

Examination of patients with boils and carbuncles of the maxillofacial region and neck: survey of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; results interpretation of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

#### **4.10. Phlebitis of the facial veins, thrombosis of the cavernous and other sinuses of the dura mater**

Etiology, pathogenesis, ways of spreading infection. Clinical picture, special research methods. Differential diagnosis of phlebitis of the veins of the face, thrombosis of the cavernous and other sinuses of the meninges. Establishing diagnosis. Planning of anesthesia and surgical complications treatment of infectious and inflammatory processes in the maxillofacial region and neck. Surgical treatment and intensive care of patients with facial vein phlebitis, thrombosis of the cavernous sinus and other sinuses of the meninges. Examination of temporary disability. Dynamic monitoring of patients with complications of infectious and inflammatory processes in the maxillofacial region and neck (phlebitis of the facial veins, thrombosis of the cavernous sinus).

Clinical analysis of medical documentation of thematic patients, results interpretation of laboratory and instrumental research methods. Studying tables, slides, training videos.

#### **4.11. Anaerobic infection, odontogenic mediastinitis**

Anaerobic infection of the maxillofacial region and neck. Classification. Clinic, differential diagnostics. Establishing diagnosis. Features of primary surgical treatment and postoperative local treatment in patients with anaerobic infection of the maxillofacial region and neck. Organizational management for the treatment of patients with anaerobic infection of the maxillofacial region and neck.

Odontogenic mediastinitis: etiology, pathogenesis, ways of spreading the infection. Classification. Clinical picture, differential diagnosis. Establishing diagnosis. Planning of anesthesia and surgical treatment. Surgical treatment and intensive care of patients with odontogenic mediastinitis.

Examination of temporary disability. Dynamic monitoring of patients with severe complications of infectious and inflammatory processes in the maxillofacial region and neck (anaerobic infection, odontogenic mediastinitis).

Clinical analysis of medical documentation of thematic patients, interpretation of the results of laboratory and instrumental research methods. Studying tables, slides, training videos.

#### **4.12. Sepsis in patients with infectious inflammatory processes in maxillofacial area and neck**

Etiology, pathogenesis, clinical picture, diagnosis of sepsis. Systemic inflammatory response criteria. Stages of the systemic inflammatory response. Establishing diagnosis. Prevention of the development of sepsis in patients with infectious and inflammatory processes of the maxillofacial region and neck.

Sepsis in patients with infectious and inflammatory processes of the maxillofacial region and neck. Stages of development of sepsis. Establishing diagnosis.

Determination of tactics of surgical treatment and intensive care of patients with infectious and inflammatory process of the maxillofacial region and neck complicated by sepsis. Multiple organ failure and its prevention. Examination of temporary disability. Dynamic monitoring of patients with infectious and inflammatory process of the maxillofacial region and neck complicated by sepsis.

Clinical analysis of medical documentation of thematic patients, interpretation of the results of laboratory and instrumental research methods. Studying tables, slides, training videos.

#### **4.13. Prognosis of infectious inflammatory processes in maxillofacial area and neck**

Indexes of intoxication. Classification. Characteristics of the leukocyte index of intoxication (LII) Ya.Ya. Kalf-Kalifa. Characteristics of the leukocyte index of intoxication V.K. Ostrovsky (LIIO). Characteristics of the integral index of severity (IPI) M.M. Soloviev, T.M. Alekhova. Characteristics of the nuclear intoxication index (NI) G.A. Dashtoyants. Non-integral methods for predicting the course of infectious and inflammatory processes in the maxillofacial region and neck.

Predicting the course of odontogenic inflammatory processes in the maxillofacial region according to the contact thermometry test in the skin projection of acupuncture points in the maxillofacial region. Predicting the course of infectious

and inflammatory processes in the maxillofacial region and neck according to microcrystallization of the oral fluid.

Clinical analysis of medical documentation of thematic patients, interpretation of the results of laboratory and instrumental research methods. Studying tables, slides, training videos.

#### **4.14. Modern principles of purulent wounds treatment in the maxillofacial area and neck. Medical rehabilitation of patients with infectious inflammatory diseases of maxillo-facial area in outpatient clinics**

Principles of primary surgical treatment in the maxillofacial region and neck. Local treatment of infectious and inflammatory processes, depending on the phase of the course of the pathological process. Types of wound drainage. The timing of the imposition of secondary early and late sutures. Modern principles of drug therapy for infectious and inflammatory processes in the maxillofacial region and neck. Antibacterial, detoxifying, desensitizing, immunocorrecting, general strengthening, symptomatic treatment. Basic principles of the use of medical rehabilitation as part of complex treatment in patients with infectious and inflammatory processes of the maxillofacial region and neck.

Clinical analysis of medical documentation of thematic patients. Observation of the course of local surgical purulent wounds treatment in the maxillofacial region and neck on an outpatient basis. Laboratory research methods, their analysis. Studying tables, slides, training videos.

### **5. SPECIFIC INFLAMMATORY PROCESSES IN MAXILLOFACIAL AREA**

Actinomycosis of the maxillofacial region and neck: classification, clinical picture, diagnosis, differential diagnosis, treatment in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Prevention of actinomycosis of the maxillofacial region and neck. Examination of temporary disability. Dynamic monitoring of patients with actinomycosis of the maxillofacial region and neck.

Syphilis, tuberculosis, HIV infection in the maxillofacial region and neck: clinical manifestations, stages of the course, diagnosis, differential diagnosis, treatment in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus.

Features of providing medical care to patients with syphilis, tuberculosis, HIV infection. Prevention of syphilis, tuberculosis, HIV infection. Examination of temporary disability. Dynamic monitoring of patients with syphilis, tuberculosis, HIV infection in the maxillofacial region and neck.

Clinical analysis of medical documentation of thematic patients. X-ray and laboratory research methods, their analysis.

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

Odontogenic maxillary sinusitis: etiology, pathogenesis, classification, clinical picture, differential diagnosis. Treatment. Prevention of odontogenic maxillary sinusitis.

Perforation and fistula of the maxillary sinus: clinical picture, diagnosis, differential diagnosis, surgical tactics. Causes and prevention of perforation and



fistula formation of the maxillary sinus. Examination of temporary disability. Dynamic monitoring of patients.

Examination of patients with odontogenic maxillary sinusitis: asking about complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; interpretation of the results of laboratory and instrumental research methods, determination of treatment tactics in accordance with the relevant current clinical protocols of the Ministry of Health of the Republic of Belarus. Making medical documentation.

## ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	number of hours		Self-studies	Form of control
		lectures	practical or (laboratory or seminars)		
	<b>5 semester</b>				
<b>1.</b>	<b>Introduction to the specialty</b>	<b>2</b>	<b>15</b>	<b>7</b>	
1.1.	History of development and organization of maxillofacial surgery and oral surgery in the world and the Republic of Belarus	2	-	1	interviews
1.2.	Deontology in maxillofacial surgery and oral surgery. Dental surgery room	-	5	2	tests, interviews
1.3.	Preparation of the hands of the dentist-surgeon and the operating field. Disinfection and sterilization	-	5	2	tests, interviews
1.4.	Examination of patients with surgical pathology in maxillofacial area	-	5	2	tests, interviews
<b>2.</b>	<b>Anesthesia in maxillofacial and oral surgery</b>	<b>3</b>	<b>30</b>	<b>11</b>	
	Local anesthesia in dentistry. Local anesthetics. Infiltration anesthesia in the maxillofacial region	1	-	-	
2.1.	Local anesthesia in dentistry. Local anesthetics		5	2	tests, interviews
2.2.	Infiltration anesthesia in the maxillofacial region		5	2	
2.3.	Nerve block anesthesia on the lower jaw		5	3	tests, interviews, abstracts
2.4.	Nerve block anesthesia on the upper jaw	2	5	2	tests, interviews
2.5.	Local complications of injecting anesthesia		5	2	tests, interviews
2.6.	General anesthesia. Multimodal anesthesia	1	5	2	tests, interviews, abstracts

		10	40	19	
<b>3. Oral Surgery</b>					
	Indications and contraindications for tooth extraction. The tools and techniques for teeth removal	2	-	-	
3.1.	Indications and contraindications for tooth extraction		5	3	tests, interviews
3.2.	The tools and techniques for teeth removal in the upper jaw	2	5	2	tests, interviews
3.3.	The tools and techniques for teeth removal in the lower jaw		5	2	tests, interviews
3.4.	Methods of operation of complex extraction of teeth on the upper and lower jaws	2	5	2	tests, interviews, abstracts
3.5.	Local complications of tooth extraction	2	5	2	tests, interviews, written reports
3.6.	Local anesthesia peculiarities and teeth removal in patients with somatic pathology	2	5	2	tests, interviews, abstracts
3.7.	Common complications associated with tooth extraction, the provision of emergency medical services	1	5	2	tests, abstract, interviews
	Drug anaphylactic shock	1		2	tests, interviews, abstracts
	Final lesson on the sections «Introduction to the specialty», «Anesthesia in maxillofacial and oral surgery», «Oral Surgery»	-	5	2	electronic tests, interviews. Credit
<b>4. Infectious inflammatory processes of the maxillofacial region and neck</b>		<b>11</b>	<b>70</b>	-	
4.1.	Odontogenic infectious inflammatory diseases of maxillofacial area and neck	<b>1</b>	-	-	
	<b>6 semester</b>				
4.1.	Odontogenic infectious inflammatory diseases of maxillofacial area and neck	-	5	4	tests, interviews
4.2.	Apical periodontitis. Surgical treatment of apical periodontitis	1 1	5	4	tests, interviews, written reports
4.3.	Diseases of eruption, retention, dystopia	-	5	5	tests, interviews, written reports
4.4.	Periodontitis of the jaws	-	5	5	tests, interviews
4.5.	Acute odontogenic osteomyelitis of the jaws	1	5	5	tests, interviews, abstract

4.6.	Chronic odontogenic osteomyelitis of the jaws	1	5	5	5	tests, interviews, abstract
4.7.	Odontogenic lymphadenitis of the maxillofacial area and neck	-	5	5	5	tests, interviews
4.8.	Differential diagnosis of periodontitis, periostitis, odontogenic osteomyelitis of jaws, lymphadenitis	1	5	5	5	tests, interviews, solving of situational cases;
4.9.	Furuncles and carbuncles of the maxillofacial area and neck	-	5	5	5	tests, interviews, abstracting of articles
4.10.	Phlebitis of facial veins, thrombosis of the cavernous and other sinuses of the dura mater	1	5	5	5	tests, control survey, abstracting of articles
4.11.	Anaerobic infection, odontogenic mediastinum	1	5	5	5	tests, control survey, abstracting of articles
4.12.	Odontogenic sepsis in patients with infectious inflammatory processes in maxillofacial area and neck	2	5	5	5	tests, control survey, abstracting of articles
4.13.	Prognosis of infectious inflammatory processes in maxillofacial area and neck		5	5	5	tests, control survey, abstracting of articles
4.14.	Modern principles of purulent wounds treatment in the maxillofacial area and neck. Medical rehabilitation of patients with infectious inflammatory diseases of maxillo-facial area in outpatient clinics	1	5	5	5	tests, interviews, abstract, solving of situational cases;
<b>5.</b>	<b>Specific inflammatory processes in maxillofacial area</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>tests, interviews, abstract</b>
<b>6.</b>	<b>Diseases of the maxillary sinus</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>8</b>	<b>filling out an educational medical record for an inpatient (outpatient) patient. Exam</b>
		<b>28</b>	<b>165</b>	<b>165</b>	<b>119</b>	

## INFORMATION AND INSTRUCTIONAL UNIT

### LITERATURE

#### **Basic (relevant):**

1. Oral and maxillofacial surgery : textbook/ Ed. by prof. V. Malanchuk/ part. 1. – 2nd ed. - 2018. – 440 p.
2. Oral and maxillofacial surgery : textbook/ Ed. by prof. V. Malanchuk/ part. 2. – 2nd ed. - 2018. – 440 p.

#### **Additional:**

3. Perioperative Assessment of the Maxillofacial Surgery Patient: Problem-based Patient Management / Ferneini Elie M., Bennett Jeffrey D. (eds.). - Springer, 2018. — 702 p.
4. Minimally Invasive Oral and Maxillofacial Surgery / Oded Nahlieli. - 1st Edition. – Springer, 2018. – 203 p.
5. New Insights into Oral and Maxillofacial Surgery / Gideon Schmidt. - HAYLE MEDICAL, 2019. – 209 p.
6. 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.
7. Clinician's Handbook of Oral and Maxillofacial Surgery / Daniel M. Laskin, Eric R. Carlson. – 2nd edition. - Quintessence Pub Co, 2018. – 624 p.

### METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF SUPERVISED STUDENT INDEPENDENT WORK IN THE ACADEMIC DISCIPLINE

The time allocated for independent work can be used by students to:

- preparation for lectures and practical classes;
- preparation for tests and exams in the academic discipline;
- performing research and creative tasks;
- preparation of thematic reports, abstracts, presentations;
- performing practical tasks;
- taking notes of educational and scientific literature on a given topic;
- compiling a review of scientific literature on a given topic;
- preparation of information and demonstration materials (presentations for SERW, etc.);
- compiling a thematic selection of literary sources and Internet sources;
- compiling tests for students to organize mutual control.

#### LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms are used for competences assessment:

##### Oral form:

interviews;

Written form:

tests;  
 abstracts;  
 control survey;  
 abstracting of articles.

Oral-written form:

filling out an educational medical record for an inpatient (outpatient) patient;  
 solving of situational cases;  
 credit;  
 exam.

Technical form:

electronic tests.

**LIST OF AVAILABLE TEACHING METHODS**

Traditional method (lecture, laboratory practicals);

Active (interactive) methods:

training based on simulation technologies;  
 Problem-Based Learning (PBL);  
 Team-Based Learning (TBL);  
 Case-Based Learning (CBL);  
 Research-Based Learning (RBL).

**LIST OF PRACTICAL SKILLS**

1. Examination and questioning of a dental patient.
2. Palpation of soft tissues and bones of the face, oral cavity, lymph nodes, salivary glands.
3. Percussion of the tooth.
4. Probing and bougienage of the salivary ducts.
5. Sampling of biological material for cytological examination by smear-imprint, scraping, flushing.
6. Carrying out a puncture biopsy.
7. Collection of biological material for histopathological examination by incisional biopsy, excisional biopsy.
8. Carrying out a puncture of the maxillary sinus.
9. Interpretation of additional research methods.
10. The imposition of bandage bandages (desmurgy) - an eight-shaped bandage, bandage on the head, «Hippocratic hat», «bonnet», «Neapolitan» bandage, bandage on one eye / both eyes, bandage «bridle» on the chin area, bandage on the parotid-masticatory region, bandage «bridle» on the upper lip, bandage on the parietal-temporal region, bandage in the maxillofacial region with adhesive fixation.
11. Performing anesthesia (infiltration, torus, mandibular, at the mental foramen, according to Bershe-Dubov, according to Bershe, II branch of the trigeminal nerve at the round and III branches of the trigeminal nerve of the foramen ovale, infraorbital, tuberal, infratemporal, incisive, at the foramen magnum).

12. Carrying out the operation of a simple extraction of teeth and their roots using forceps.
13. Carrying out the operation of a complex extraction of teeth and their roots using an elevator.
14. Operation of complex tooth extraction.
15. Carrying out the operation of resection of the root apex, hemisection, amputation of the root, coronary radicular separation.
16. Stop alveolar socket bleeding.
17. Carrying out the operation of the primary surgical treatment of the infectious and inflammatory focus with a boil.
18. Carrying out the operation of primary surgical treatment of the infectious and inflammatory focus with periostitis of the jaws.
19. Operation of primary surgical treatment of an infectious and inflammatory focus in pericoronitis.
20. Dressing a patient with an infectious and inflammatory process of the maxillofacial region and neck: change drains, replace of turunda with iodine-formalin.
21. Predicting the course of infectious and inflammatory processes in the maxillofacial region and neck, determining the dynamics of the development of the disease.
22. Conducting surgical and medical treatment of local complications after tooth extraction (alveolitis, bottom perforation of the maxillary sinus).
23. The imposition of secondary early sutures on purulent wounds.
24. Provision of resuscitation measures for anaphylactic shock.
25. Provision of emergency medical care for fainting, collapse.
26. Maintaining medical records.
27. Issuance of doctor's prescriptions.

#### **LIST OF EQUIPMENT USED**

Tools for removing teeth.  
 Instruments for primary surgical treatment of a purulent focus.  
 Phantoms for anesthesia and tooth extraction.  
 Negatoscope.  
 Conicotomy trainer.

#### **LIST OF LECTURES**

##### **5 semester**

1. History of development and organization of maxillofacial surgery and oral surgery.
2. Local anesthesia in dentistry. Infiltration anesthesia in the maxillofacial region.
3. Nerve block anesthesia on the lower and upper jaws.
4. General anesthesia in maxillofacial surgery. Multimodal anesthesia.

5. Indications and contraindications for tooth extraction. Instruments and methods for performing tooth extraction operations.
6. Methods for performing operations of complex extraction of teeth.
7. Local complications during tooth extraction.
8. Features of local anesthesia and outpatient operations in the maxillofacial region in patients with somatic diseases.
9. General complications arising at the dentist appointment. Provision of emergency medical services.
10. Drug anaphylactic shock.
11. Odontogenic infectious inflammatory diseases of the maxillofacial region and neck.

### **6 semester**

1. Apical periodontitis.
2. Surgical treatment of apical periodontitis.
3. Acute odontogenic osteomyelitis of the jaws.
4. Chronic odontogenic osteomyelitis of the jaws.
5. Differential diagnosis of infectious inflammatory processes of the maxillofacial region and neck (periodontitis, periostitis, odontogenic osteomyelitis of the jaws, lymphadenitis).
6. Phlebitis of the veins of the face, thrombosis of the cavernous sinus.
7. Anaerobic infection, odontogenic mediastinitis.
8. Sepsis in patients with pyoinflammatory processes in maxillofacial area and neck. Prognosis of inflammatory processes in the maxillofacial region and neck.
9. Modern principles of purulent wounds treatment in the maxillofacial region and neck. Medical rehabilitation of patients with infectious and inflammatory processes of the maxillofacial region on an outpatient basis.
10. Specific inflammatory processes of the maxillofacial region and neck.
11. Diseases of the maxillary sinus.

### **LIST OF PRACTICAL SKILLS**

#### **5 semester**

1. Deontology in maxillofacial surgery and oral surgery. Dental surgery room.
2. Preparation of the hands of the dentist-surgeon and the operating field. Disinfection and sterilization.
3. Examination of patients with surgical diseases of the maxillofacial region and neck.
4. Local anesthesia in dentistry. Local anesthetics medications.
5. Infiltration anesthesia in the maxillofacial area.
6. Nerve block anesthesia on the lower jaw.
7. Nerve block anesthesia in the upper jaw.
8. Local complications of injecting anesthesia.
9. General anesthesia in maxillofacial surgery. Multimodal anesthesia.
10. Indications and contraindications for tooth extraction.
11. The tools and techniques for teeth removal in the upper jaw.



12. The tools and techniques for teeth removal in the lower jaw.
13. Methods of operation of complex extraction of teeth on the upper and lower jaws.
14. Local complications of tooth extraction.
15. Local anesthesia peculiarities and teeth removal in patients with somatic pathology.
16. Common complications associated with tooth extraction. Provision of emergency medical services. Drug anaphylactic shock.
17. Final lesson on the sections «Introduction to the specialty», «Local anesthesia in dentistry», «Oral surgery».

### **6 semester**

1. Odontogenic infectious inflammatory diseases of the maxillofacial region and neck.
2. Apical periodontitis. Surgical methods of treatment of apical periodontitis.
3. Diseases of eruption, retention, dystopia.
4. Periostitis of the jaws.
5. Acute odontogenic osteomyelitis of the jaws.
6. Chronic odontogenic osteomyelitis of the jaws.
7. Odontogenic lymphadenitis of the maxillofacial region and neck.
8. Differential diagnosis of infectious inflammatory processes in the maxillofacial region and neck (periodontitis, periostitis, odontogenic osteomyelitis of the jaws, lymphadenitis).
9. Furuncles and carbuncles of the maxillofacial region and neck.
10. Phlebitis of the facial veins, thrombosis of the cavernous sinus.
11. Anaerobic infection, odontogenic mediastinitis.
12. Sepsis in patients with pyoinflammatory processes in maxillofacial area and neck. Prognosis of inflammatory processes in the maxillofacial region and neck.
13. Prognosis of inflammatory processes in the maxillofacial region and neck.
14. Modern principles of purulent wounds treatment in the maxillofacial region and neck. Medical rehabilitation of patients with infectious and inflammatory processes of the maxillofacial region on an outpatient clinics.
15. Specific inflammatory processes of the maxillofacial region and neck.
16. Diseases of the maxillary sinus.

### **THE THEMES OF THE STUDENT'S EDUCATIONAL RESEARCH WORK (SERW = WRITTEN ABSTRACTS TOPICS)**

#### **5 semester**

1. Characteristics of local anesthetics permitted for use on the territory of the Republic of Belarus.
2. General anesthesia in maxillofacial surgery. Types of general anesthesia.
3. Variants of intraoral conduction anesthesia (mandibular, torusal, Akinosi-Vazirani, Gow-Gates): indications, methods, differences, tools for their implementation.

4. Possibilities of combining different types of anesthesia to provide anesthesia during surgical interventions in the maxillofacial region and on the neck.
5. Local complications arising during the operation of tooth extraction.
6. Local complications arising after the operation of tooth extraction.
7. Features of the choice of local anesthetics in patients with somatic pathology.

#### **6 semester**

1. Methods of tooth-saving operations in the treatment of chronic apical periodontitis.
2. Features of the operation of removing the third molars in the lower jaw.
3. Acute odontogenic osteomyelitis of the jaws. Etiology. Pathogenesis. Diagnostics. Treatment. Prevention of complications.
4. Chronic odontogenic osteomyelitis of the jaws. Etiology. Pathogenesis. Diagnostics. Treatment.
5. Chronic ossifying osteomyelitis of Garre. Features of manifestation, diagnosis and treatment in the maxillofacial region.
6. Principles of primary surgical treatment of the infectious and inflammatory focus of the maxillofacial region and neck. Features of drainage of purulent wounds.
7. Principles of modern drug therapy for infectious and inflammatory processes in the maxillofacial region and neck.
8. Syphilis in the maxillofacial region and neck. Features of the clinic, diagnosis, treatment, prevention.
9. Tuberculosis of the maxillofacial region and neck. Features of the clinic, diagnosis, treatment, prevention.
10. Manifestation of HIV infection of the maxillofacial region and neck. Features of the clinic, diagnosis, treatment, prevention.

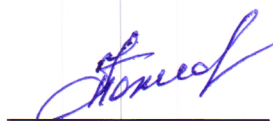
**PROTOCOL OF THE CURRICULUM APPROVAL  
BY OTHER DEPARTMENTS**

Title of the discipline requiring approval	Department	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum (date, protocol # )
1. Radiagnostics and radiotherapy	Radiagnostics and radiotherapy Department	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.
3. Orthodontics	Orthodontics Department	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.
4. Removable prosthetics 5. Fixed prosthetics	Prosthetic dentistry Department	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.
6. Pediatric therapeutic dentistry 7. Pediatric maxillofacial surgery	Pediatric Dentistry Department	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.
8. Conservative dentistry	Department of conservative dentistry	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.

9. Endodontics	Department of Endodontics	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.
10. Clinical periodontology 11. Complex Periodontology	Department of Periodontology	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.
12. Otorhinolaryngology	Diseases of ear, throat, nose	No comments	Approved at department meetings Oral Dentistry 17 April 2023, minutes № 11.

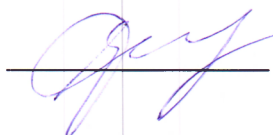
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Curriculum content, composition and the accompanying documents comply with the established requirements.

Dean of the Medical Faculty for  
International Students of the  
educational institution «Belarusian  
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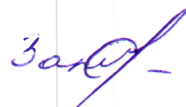
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