

MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION

PENZA STATE UNIVERSITY

MEDICAL INSTITUTE



APPROVED

by Director of the Medical Institute

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«05» 03 2016

STUDY PROGRAM OF THE DISCIPLINE (MODULE)

C1.1.48 Dentistry (Oral Surgery)

Program (specialty) - *31.05.03 Dentistry*

Major - *Dentist*

Graduate's qualification (degree) – *specialist*

Study format - *full-time*

Penza, 2016

1. Goals of the discipline

The main goal of mastering the discipline C1.1.48 Dentistry (Oral Surgery) is forming professional competences to develop methods of examination and diagnosis, to increase the effectiveness of treatment of oral surgical pathology and maxillofacial area subject to inflammatory odontogenic and non-odontogenic diseases, to prevent them and to provide emergency care in dental outpatient practice of oral surgeon.

The objectives of mastering C1.1.48 Dentistry (Oral Surgery) are:

- to study the principles of organizing surgical dental care in the conditions of outpatient visit;
- to master diagnostic methods used during examination of patients who have surgical dental pathology in outpatient;
- to obtain theoretical knowledge and practical skills such as extracting various groups of teeth and performing outpatient oral surgery;
- to study clinical characteristics and methods of surgical treatment of various inflammatory oral diseases.

2. Place of the discipline in Basic Professional Educational Program (BPEP)

The discipline Dentistry (Oral Surgery) is studied in 5th and 6th semesters and is applied to basic part of block 1 "Subject (module)" of curriculum for the specialty 31.05.03 Dentistry.

This discipline is based on the previously studied disciplines: Local Anesthesia and Anesthesiology in Dentistry, Topographic Anatomy and Operative Surgery of Oral Cavity, Pathological Anatomy, Anatomy of Head and Neck, Dentistry (Pre-Clinical Course), Pharmacology, Dentistry (Science of Dental Materials), and Management in Dentistry.

Dentistry (Oral Surgery) is the fundamental discipline for further study of following disciplines: Dentistry (Implantology and Oral Reconstructive Surgery); Dentistry (Gnatology and Functional Diagnostics of Temporomandibular Joint); Clinical Dentistry; Head and Neck Diseases; Periodontology, Gerontodentistry and Diseases of Oral Mucous Membrane; Oral and Maxillofacial Surgery.

The study of the discipline (module) following knowledge are required:

1. Topographic anatomy of head, maxillofacial area, features of blood supply, innervation and lymphatic system, teeth structure.
2. Etiology, pathogenesis, diagnosis of common diseases.
3. Relationship between structure and functions of dentition with nasopharynx, respiratory and digestive systems, musculoskeletal system disorders.
4. Clinical manifestations of major syndromes which require surgical treatment.
5. Value of special and additional examination methods for differential diagnostics of dental diseases.
6. Medical indications and contraindications to use x-ray and other additional examination methods.
7. Medical devices used in dentistry (device principles and rules of operations).
8. International statistical classification of diseases and health problems.
9. Conditions requiring medical care in emergency and urgent cases.
10. Sanitary and epidemiological requirements.
11. Clinical manifestations and course of common diseases, injuries and conditions in elderly and senile patients.
12. Rules of personal protective equipment application.
13. Principles of medical ethics and deontology during work with patients (their relatives/ legal representatives), colleagues.

Skills:

1. To justify necessity to refer patients for general practitioners consultations.
2. To analyze examination results.
3. To justify and plan additional examination.
4. To interpret results of information from patients (or their relatives/ legal representatives).

5. To identify clinical symptoms of acute and chronic craniofacial pain of somatic, neurogenic and psychogenic origin.

6. To interpret data of laboratory examination.

7. To interpret data of instrumental examination.

8. To interpret data of patient general practitioners consultations.

9. To interpret data of additional examination (including radiographs, teleroentgenograms, radiovisiography, orthopantomograms, computer tomography (film and digital media).

Working abilities:

1. Initial examination of patients.

2. Referral of patients to laboratory examination.

3. Referral of patients to instrumental examination.

4. Referral of patients to general practitioners consultations.

5. Interpretation of results of collecting information from patients (their relatives/ legal representatives).

6. Interpretation of data of initial examination of patients.

7. Interpretation of instrumental examination data.

8. Interpretation of data of general practitioners consultations.

9. Interpretation of additional patient examination data (including radiographs, teleroentgenograms, radiovisiography, orthopantomograms, computer tomography (films and digital media).

10. Obtaining information from patients (their relatives/ legal representatives)

11. Questioning of patients about their general health, identification of concomitant diseases.

3. Student competences acquired through successful completion of the discipline

The process of studying the discipline is aimed at forming the components of the following competences in accordance with Federal State Educational Standards of Higher Education (hereinafter – FSES HE) in this field of study:

Competence code	Title of competence	Structural elements of competence (having mastered the discipline students should have knowledge, skills, working abilities)
1	2	3
GPC-4	Strict adherence to the rules of medical ethics in professional activities	<p>Knowledge: basic ethical documents; main philosophical and religious concepts in modern society.</p> <p>Skills: to adhere to the principles of humanism and universal values in their practical activities; to stick to ethical and deontological principles of communication with medical personnel and patients.</p> <p>Working abilities: methods of ethical analysis and evaluation of dental care cases; principles of deontology.</p>
SPC-1	Ability to perform various measures aimed at protecting and promoting health and safety of the public, including fostering healthy lifestyle, preventing the distribution of dental diseases, their early diagnosis, identifying causes and circumstances of their origin and development, other activities aimed at eliminating the harmful factors of the habitat on human health.	<p>Knowledge: laws of organism functioning and health mechanisms; essence of examination techniques of various human functions for evaluating their health state; methodological bases of medicinal and non-medicinal methods of preventing and treating common human dental diseases.</p> <p>Skills: to recognize and explain basic laws of formation and regulation of physiological functions of man during life; to use theoretical basis for preparing a set of measures aimed at health preservation and promotion, including formation of healthy lifestyles; to identify and prevent causes of inflammatory odontogenic diseases.</p> <p>Working abilities: methods of examining patients: extraoral examination, palpation of lymph nodes, intraoral examination, assessment of dentition, state of oral mucous membrane, writing of tooth numbering systems; recording of received information in patient's medical history; performing of infiltration anesthesia, nerve blocks.</p>
SPC-5	Ability to analyze patients complaints and medical history, results of medical examinations, laboratory tests, special equipment diagnostics and others to determine the presence or absence of dental	<p>Knowledge: clinical and paraclinical methods of dental examination of patients; scheme and stages of examining dental patients; diagnostic possibilities of modern methods of clinicolaboratory, instrumental, pathological or other examination of dental patients; international statistical classification of diseases and health-</p>

	disorders.	<p>related problems (ICD).</p> <p>Skills: to outline additional examination to clarify diagnosis; to conduct basic examination, modern laboratory and instrumental radiological examination; to evaluate results of collected complaints and anamnesis.</p> <p>Working abilities: examination of patient, extraoral examination, palpation of lymph nodes, intraoral examination, assessment of dentition, state of oral mucous membrane, record tooth numbering systems; record information obtained in patient's medical history; conduction of infiltration anesthesia and nerve blocks; interpretation of radiographs; choose and correct application of surgical instruments during surgery.</p>
SPC-6	Ability to determine the pathological states and conditions, symptoms and syndromes, nosology forms according to the International Classification of Diseases (N revision)	<p>Knowledge: clinical symptoms of main oral diseases; classification of major dental diseases according to the ICD; algorithm of diagnosis, etiology, pathogenesis, clinical picture of oral odontogenic inflammatory diseases (periodontitis, periostitis, osteomyelitis, pericoronitis, sinusitis) requiring surgical treatment on outpatient basis; differential diagnosis of these diseases.</p> <p>Skills: to determine main pathological conditions, symptoms and syndromes of dental diseases; to palpate submandibular lymph nodes; to make plan of laboratory and instrumental examination; to interpret results of laboratory and instrumental examination of patient; to diagnose acute and chronic oral odontogenic inflammation.</p> <p>Working abilities: skills of workplace organization at preventive visit; technique of diagnosis statement according to the International Classification of Diseases.</p>
SPC-8	Ability to determine the optimum strategy for treating patients with various dental disorders	<p>Knowledge: methods (principles) of treatment, rehabilitation and prevention of major dental diseases; stages of tooth extraction; indications and procedure of medical and technical work; equipment (diagnostic and therapeutic) used during work with dental patients; features of treatment tactics during work with dental patients who have risk factors; volume of professional dental procedures; basics of oral surgery; indications and contraindications for tooth extraction; surgical dental instruments; stages of operation; local complications during and after surgery, especially while extracting impacted teeth; methods of treatment of oroantral communication; principles of treatment of purulent wounds.</p> <p>Skills: to make dental professional procedures; to use medical equipment (diagnostic and therapeutic), surgical dental instruments; to choose methods of surgical treatment, to carry out</p>

		<p>simple surgical treatment of oral diseases with patients of different ages; to perform tooth extraction; to carry out periostotomy and drainage of subperiosteal abscess, alveolectomy; to conduct apicoectomy, cystectomy, tooth extraction, amputation of root.</p>
		<p>Working abilities: technique of surgical treatment of oral diseases with patients of different ages; technique of simple tooth extraction; methods of treating acute purulent pericoronitis; palpation of submandibular lymph nodes; periostotomy and drainage of subperiosteal abscess; technique of alveolotomy surgery; technique of staging and removal of drainage; wound suturing; antiseptic treatment of wound.</p>

2.1.	Topic 2.1. Tooth extraction. Tooth extraction as surgical intervention and features of operational equipment.	5	5	6	2	4		2	2				5	5				
2.2.	Topic 2.2. Indications and contraindications for tooth extraction.	5	6	4		4		2	2				6	6				
2.3.	Topic 2.3. Features of patient preparation and surgery in pregnant women, patients with diseases of cardiovascular system, blood diseases and other systemic disorders.	5	7	6	2	4		2	2				7	7				
2.4.	Topic 2.4. Methods of tooth extraction due to anatomical conditions, biomechanics and mechanism of action of instruments. Position of surgeon and patient during tooth extraction. Instruments. Types of forceps and their functions. Removal of teeth using forceps. Technique of applying various elevators.	5	8	6	2	4		2	2				8	8				8
2.5	Topic 2.5. Techniques of surgical tooth extraction. Selection of access for surgical tooth extraction of anterior and posterior teeth of upper and lower jaws. Technique of surgical extraction of impacted and semimpact dislocated third mandibular molar on lower jaw with incomplete eruption.	5	9	6	2	4		2	2				9	9				
2.6.	Topic 2.6. Perioperative complications. Fracture of alveolar process, fracture of mandible and dislocation of temporomandibular joint. Oroantral communication. Dislocation of root tip into maxillary sinus. Diagnostics. Treatment. Prevention.	5	10	4	2	2		2	2				10	10				

2.7.	Topic 2.7. Perioperative complications. Tooth aspiration of respiratory or digestive tract. Fracture and dislocation of adjacent tooth.	5	11	4		4		2	2				11	11				
2.8.	Topic 2.8. Postoperative complications. Hemorrhage. Methods of hemostasis. Surgical, pharmacological and biological methods of hemostasis.	5	12	6	2	4		2	2				12	12				12
2.9.	Topic 2.9. Postoperative complications. Alveolitis, painful postextraction socket. Causes, diagnostics, prevention, treatment. Control test.	5	13	4		4		2	2				13	13				13
3.	Section 3. Odontogenic inflammatory diseases of jaws.	6																
3.1.	Topic 3.1. Acute oral odontogenic inflammatory diseases. Statistics, classification, etiology and pathogenesis.	6	1	6	2	4		2	2				1	1				
3.2.	Topic 3.2. Periodontitis. Etiology, pathogenesis, pathological anatomy, ways of spreading of infectious process. Classification, clinical and radiological diagnostics, differential diagnostics. Surgical methods of treatment of chronic periodontitis: apicoectomy, hemisection and root amputation.	6	2	6	2	4		2	2				2	2				2
3.3.	Topic 3.3. Tooth replantation and transplantation. Indications and contraindications. Preparation of tooth for replantation, removal technique, tooth treatment, replantation. Features of engraftment, possible complications and prognosis.	6	3	6	2	4		2	2				3	3				
3.4.	Topic 3.4. Periostitis. Pathological anatomy. Clinical and differential	6	4	6	2	4		2	2				4	4				4

	diagnosis, treatment. Chronic periostitis.																		
3.5.	Topic 3.5. Osteomyelitis odontogenic, contact, hematogenous. Odontogenic osteomyelitis: role of microflora, nonspecific resistance, immunological status of patient and anatomical features of jaws. Modern ideas about pathogenesis of osteomyelitis of jaws. Pathological anatomy and classification. Odontogenic osteomyelitis (acute and subacute stages). Etiology, pathogenesis, clinical and differential diagnosis, treatment.	6	5	6	2	4		4	4				5	5					5
3.6.	Topic 3.6. Chronic stage of osteomyelitis. Clinical and radiological signs of various forms, differential diagnosis. Complex treatment.	6	6	6	2	4		2	2				6	6					
4.	Section 4. Dislocation and impaction of teeth.	6																	
4.1.	Topic 4.1. Difficult eruption. Reasons. Clinical symptoms. Diagnostics. Indications for surgical treatment. Complications. Methods of surgery.	6	7	6	2	4		2	2				7	7					7
5.	Section 5. Odontogenic maxillary sinusitis.	6																	
5.1	Topic 5.1. Odontogenic maxillary sinusitis. Etiology, pathogenesis. Acute and chronic odontogenic sinusitis: methods of diagnosis and treatment.	6	8	6	2	4		2	2				8	8					
6.	Section 6. Lymphadenitis of face and neck.	6																	
6.1.	Topic 6.1. Lymphadenitis. Acute and chronic lymphadenitis. Diagnosis, differential diagnosis, clinical symptoms, treatment. Purulent lymphadenitis.	6	9	6	2	4		2	2				9	9					

	Adenophlegmon. Diagnosis, differential diagnosis, clinical symptoms, treatment.																			
6.2.	Topic 6.2. Lymphadenopathies. Symptoms of HIV infection in oral and maxillofacial region. Control test.	6	10	4		4		2	2				10	10						
	Pass-fail exam	5						6				6								
	Exam	6						36				36								
	Total workload, in hours				36	90		90	48		6	36								
				216									Semester							
													5	<i>Pass-fail exam</i>						
													6	<i>Exam</i>						

Practical classes are held in cycles

4.2. Discipline's (module's) content

Basics of the profession. Organization of surgical dental care. Research target and content of oral surgery. Stages of development. Organization of surgical dental care. Features of examining surgical dental patient. Surgical interventions in oral cavity, face and jaws. Features of oral surgery. Preparation of patient and treatment of surgical field. Incisions and methods of their implementation in various pathological processes in oral cavity. Wound suturing in oral cavity.

Tooth extraction. Tooth extraction. Tooth extraction as surgical intervention and features of operational equipment. Indications and contraindications for tooth extraction. Features of patient preparation and surgery in pregnant women, patients with diseases of cardiovascular system, blood diseases and other systemic disorders. Methods of tooth extraction due to anatomical conditions, biomechanics and mechanism of action of instruments. Position of surgeon and patient during tooth extraction. Instruments. Types of forceps and their functions. Removal of teeth with forceps. Technique of application of various elevators. Techniques of surgical tooth extraction. Selection of access for surgical tooth extraction of anterior and posterior teeth of upper and lower jaws. Technique of surgical extraction of impacted and semimpacted dislocated third mandibular molar on the lower jaw with incomplete eruption. Perioperative complications. Fracture of alveolar process, fracture of mandible and dislocation of temporomandibular joint. Oroantral communication. Dislocation of root tip into maxillary sinus. Diagnostics. Treatment. Prevention. Perioperative complications. Tooth aspiration of respiratory or digestive tract. Fracture and dislocation of adjacent tooth. Postoperative complications. Hemorrhage. Methods of hemostasis. Surgical, pharmacological and biological methods of hemostasis. Postoperative complications. Alveolitis, painful postextraction socket. Causes, diagnostics, prevention, treatment.

Odontogenic inflammatory diseases of jaws. Acute oral odontogenic inflammatory diseases. Statistics, classification, etiology and pathogenesis. Periodontitis. Etiology, pathogenesis, pathological anatomy, ways of spreading of infectious process. Classification, clinical and radiological diagnostics, differential diagnostics. Surgical methods of treatment of chronic periodontitis: apicoectomy, hemisection and root amputation. Tooth replantation and transplantation. Indications and contraindications. Preparation of tooth for replantation, removal technique, tooth treatment, replantation. Features of engraftment, possible complications and prognosis. Periostitis. Pathological anatomy. Clinical and differential diagnosis, treatment. Chronic periostitis. Osteomyelitis odontogenic, contact, hematogenous. Odontogenic osteomyelitis: role of microflora, nonspecific resistance, immunological status of patient and anatomical features of jaws. Modern ideas about pathogenesis of osteomyelitis of jaws. Pathological anatomy and classification. Odontogenic osteomyelitis (acute and subacute stages). Etiology, pathogenesis, clinical and differential diagnosis, treatment. Chronic stage of osteomyelitis. Clinical and radiological signs of various forms, differential diagnosis. Complex treatment.

Dislocation and impaction of teeth. Difficult eruption. Reasons. Clinical symptoms. Diagnostics. Indications for surgical treatment. Complications. Methods of surgery.

Odontogenic maxillary sinusitis. Odontogenic maxillary sinusitis. Etiology, pathogenesis. Acute and chronic odontogenic sinusitis: methods of diagnosis and treatment.

Lymphadenitis of face and neck. Lymphadenitis. Acute and chronic lymphadenitis. Diagnosis, differential diagnosis, clinical symptoms, treatment. Purulent lymphadenitis. Adenophlegmon. Diagnosis, differential diagnosis, clinical symptoms, treatment. Lymphadenopathies. Symptoms of HIV infection in oral and maxillofacial region.

Lectures topics

№	Lectures topics	Amount of hours
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5 th semester		
1.	Features of examining surgical dental patient.	2
2.	Surgical interventions in oral cavity, face and jaws. Features of oral surgery. Preparation of patient and treatment of surgical field.	2
3.	Incisions and methods of their implementation in various pathological processes in oral cavity. Wound suturing in oral cavity.	2
4.	Tooth extraction. Tooth extraction as surgical intervention and features of operational equipment	2
5.	Features of patient preparation and surgery in pregnant women, patients with diseases of cardiovascular system, blood diseases and other systemic disorders.	2
6.	Methods of tooth extraction due to anatomical conditions, biomechanics and mechanism of action of instruments. Position of surgeon and patient during tooth extraction. Instruments. Types of forceps and their functions. Removal of teeth with forceps. Technique of application of various elevators.	2
7.	Techniques of surgical tooth extraction. Selection of access for surgical tooth extraction of anterior and posterior teeth of upper and lower jaws. Technique of surgical extraction of impacted and semimpacted dislocated third mandibular molar on the lower jaw with incomplete eruption. Treatment. Prevention.	2
8.	Perioperative complications. Fracture of alveolar process, fracture of mandible and dislocation of temporomandibular joint. Oroantral communication. Dislocation of root tip into maxillary sinus. Diagnostics. Treatment. Prevention.	2
9.	Postoperative complications. Hemorrhage. Methods of hemostasis. Surgical, pharmacological and biological methods of hemostasis.	2
	Total	18
6 th semester		
1.	Acute oral odontogenic inflammatory diseases. Statistics, classification, etiology and pathogenesis.	2
2.	Periodontitis. Etiology, pathogenesis, pathological anatomy, ways of spreading of infectious process. Classification, clinical and radiological diagnostics, differential diagnostics. Surgical methods of treatment of chronic periodontitis: apicoectomy, hemisection and root amputation.	2
3.	Tooth replantation and transplantation. Indications and contraindications. Preparation of tooth for replantation, removal technique, tooth treatment, replantation. Features of engraftment, possible complications and prognosis.	2
4.	Periostitis. Pathological anatomy. Clinical and differential diagnosis, treatment. Chronic periostitis.	2
5.	Osteomyelitis odontogenic, contact, hematogenous. Odontogenic osteomyelitis: role of microflora, nonspecific resistance, immunological status of patient and anatomical features of jaws. Modern ideas about pathogenesis of osteomyelitis of jaws. Pathological anatomy and classification. Odontogenic osteomyelitis (acute and subacute stages). Etiology, pathogenesis, clinical and differential diagnosis, treatment.	2
6.	Chronic stage of osteomyelitis. Clinical and radiological signs of various forms, differential diagnosis. Complex treatment.	2
7.	Difficult eruption. Reasons. Clinical symptoms. Diagnostics. Indications for surgical treatment. Complications. Methods of surgery.	2
8.	Odontogenic maxillary sinusitis. Etiology, pathogenesis. Acute and chronic odontogenic sinusitis: methods of diagnosis and treatment.	2
9.	Lymphadenitis. Acute and chronic lymphadenitis. Diagnosis, differential diagnosis, clinical symptoms, treatment. Purulent lymphadenitis. Adenophlegmon. Diagnosis, differential diagnosis, clinical symptoms, treatment.	2
	Total	18

Practice topics

№	Practice topics	Amount of hours
5 th semester		
1.	Research target and content of oral surgery. Stages of development. Organization of surgical dental care.	4
2.	Features of examining surgical dental patient.	4
3.	Surgical interventions in oral cavity, face and jaws. Features of oral surgery. Preparation of patient and treatment of surgical field.	4
4.	Incisions and methods of their implementation in various pathological processes in oral cavity. Wound suturing in oral cavity.	4
5.	Tooth extraction. Tooth extraction as surgical intervention and features of operational equipment.	4
6.	Indications and contraindications for tooth extraction.	4
7.	Features of patient preparation and surgery in pregnant women, patients with diseases of cardiovascular system, blood diseases and other systemic disorders.	4
8.	Methods of tooth extraction due to anatomical conditions, biomechanics and mechanism of action of instruments. Position of surgeon and patient during tooth extraction. Instruments. Types of forceps and their functions. Removal of teeth with forceps. Technique of application of various elevators.	4
9.	Techniques of surgical tooth extraction. Selection of access for surgical tooth extraction of anterior and posterior teeth of upper and lower jaws. Technique of surgical extraction of impacted and semimpacted dislocated third mandibular molar on the lower jaw with incomplete eruption.	4
10.	Perioperative complications. Fracture of alveolar process, fracture of mandible and dislocation of temporomandibular joint. Oroantral communication. Dislocation of root tip into maxillary sinus. Diagnostics. Treatment. Prevention.	2
11.	Perioperative complications. Tooth aspiration of respiratory or digestive tract. Fracture and dislocation of adjacent tooth.	4
12.	Postoperative complications. Hemorrhage. Methods of hemostasis. Surgical, pharmacological and biological methods of hemostasis.	4
13.	Postoperative complications. Alveolitis, painful postextraction socket. Causes, diagnostics, prevention, treatment. Control test.	4
	Total	50
6 th semester		
1.	Acute oral odontogenic inflammatory diseases. Statistics, classification, etiology and pathogenesis.	4
2.	Periodontitis. Etiology, pathogenesis, pathological anatomy, ways of spreading of infectious process. Classification, clinical and radiological diagnostics, differential diagnostics. Surgical methods of treatment of chronic periodontitis: apicoectomy, hemisection and root amputation.	4
3.	Tooth replantation and transplantation. Indications and contraindications. Preparation of tooth for replantation, removal technique, tooth treatment, replantation. Features of engraftment, possible complications and prognosis.	4
4.	Periostitis. Pathological anatomy. Clinical and differential diagnosis, treatment. Chronic periostitis.	4
5.	Osteomyelitis odontogenic, contact, hematogenous. Odontogenic osteomyelitis: role of microflora, nonspecific resistance, immunological status of patient and anatomical features of jaws. Modern ideas about pathogenesis of osteomyelitis of jaws. Pathological anatomy and classification. Odontogenic osteomyelitis (acute and subacute stages). Etiology,	4

	pathogenesis, clinical and differential diagnosis, treatment.	
6.	Chronic stage of osteomyelitis. Clinical and radiological signs of various forms, differential diagnosis. Complex treatment.	4
7.	Difficult eruption. Reasons. Clinical symptoms. Diagnostics. Indications for surgical treatment. Complications. Methods of surgery.	4
8.	Odontogenic maxillary sinusitis. Etiology, pathogenesis. Acute and chronic odontogenic sinusitis: methods of diagnosis and treatment.	4
9.	Lymphadenitis. Acute and chronic lymphadenitis. Diagnosis, differential diagnosis, clinical symptoms, treatment. Purulent lymphadenitis. Adenophlegmon. Diagnosis, differential diagnosis, clinical symptoms, treatment.	4
10	Lymphadenopathies. Symptoms of HIV infection in oral and maxillofacial region. Control test.	4
	Total	48

5. Educational technologies

In the process of teaching Dentistry (Oral Surgery) the following educational technologies are used:

- 1) In-class-work: visualization lecture, problem solving lecture, role playing educational games, videos and multimedia presentations, analysis of case tasks, participation in scientific conferences.
- 2) Out-of-class work: preparing for practical classes, writing overview thematic papers, preparing thematic reports on topical discipline issues, producing sanitary shutters for children and teenagers, preparing for interviews, working with additional literature for in-depth study of the discipline, working in the Internet (dental websites).

The use of case tasks contributes to the formation of clinical thinking, encourages creative debate, motivates students and gives them sense of job satisfaction.

The cases are integrated complex cases tasks; method of analyzing specific situation (situation analysis, analysis of specific situations). Case-study is the pedagogical technology based on situation modeling or use of real situation in order to analyze different cases, identify problems, search for alternative solutions and apply optimal problem solving.

Monothematic case «Chronic granulomatous periodontitis of 2.2 tooth" within the topic: "Periodontitis".

Etiology, pathogenesis, pathological anatomy, ways of spreading of infectious process. Classification, clinical and radiological diagnostics, differential diagnostics. Surgical methods of treatment of chronic periodontitis: apicoectomy, hemisection and root amputation.

Objectives: in the process of completing monothematic case students should diagnose the state of patient within one nosological form; study how to make treatment plan and carry out its adjustment as necessary.

Abstract. At the first stage students get acquainted with proposed clinical situation and questions for discussion. Timing of training is discussed, reading is recommended. At the second stage during the training session students are divided into small groups, which offer plan of examination of patient versed in the case. Students discuss the proposed issues and various additional issues; research methods required for diagnosis, optimal treatment plan for this patient are considered.

Lecturer gives introductory and final speech, organizes small groups and discussion on diagnosis and alternative treatment regimens, evaluates contribution of students to analysis of clinical situation.

Case task. Patient S is 32 years old. Complaints: periodic aching pain in region of tooth 2.2, increased during biting. Intraoral examination: crown of tooth 2.2 is destroyed by 1/3, probing of tooth cavity is painless, percussion is painful. Color of mucous membrane in projection of root apex is not changed, it is painless during palpation. X-ray examination: there is an area of destruction of bone tissue, size is 0.8 cm in diameter, with clear smooth contour in the area of root apex of tooth 2.2, root canal is nonhomogeneously obturated, 1/3 of root canal length is obturated.

Questions for discussion:

1. Make preliminary diagnosis.
2. Make differential diagnosis.
3. On the basis of what data and why will final diagnosis be established?
4. What are the main etiological and pathogenic factors of the disease?
5. What are treatment of this pathology and sequence of its implementation?

In order to implement an individual approach to teaching students undergoing special learning process within the framework of an individual work plan, the study of this discipline is based on the following possibilities: providing out-of-class work with students including in the electronic educational environment using appropriate software equipment, forms of distance learning, possibilities of Internet resources, and individual consultations, etc.

6. Educational and methodological support of students' out-of-class work.
Forms of current and interim assessment

6.1 Plan of students' out-of-class work.

№	Topic	Out-of-classwork type	Task	Recommended literature	Amount of hours
1.	Research target and content of oral surgery. Stages of development. Organization of surgical dental care..	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
2.	Features of examining surgical dental patient.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2

				19946. html	
3.	Surgical interventions in oral cavity, face and jaws. Features of oral surgery. Preparation of patient and treatment of surgical field.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
4.	Incisions and methods of their implementation in various pathological processes in oral cavity. Wound suturing in oral cavity.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
5.	Tooth extraction. Tooth extraction as surgical intervention and features of operational equipment.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970419946.html	2

				31375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	
6.	Indications and contraindications for tooth extraction.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
7.	Features of patient preparation and surgery in pregnant women, patients with diseases of cardiovascular system, blood diseases and other systemic disorders.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2

				19946. html	
8.	Methods of tooth extraction due to anatomical conditions, biomechanics and mechanism of action of instruments. Position of surgeon and patient during tooth extraction. Instruments. Types of forceps and their functions. Removal of teeth using forceps. Technique of applying various elevators.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
9.	Techniques of surgical tooth extraction. Selection of access for surgical tooth extraction of anterior and posterior teeth of upper and lower jaws. Technique of surgical extraction of impacted and semimpacted dislocated third mandibular molar on the lower jaw with incomplete eruption.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
10.	Perioperative complications. Fracture of alveolar process, fracture of mandible and dislocation of temporomandibular joint. Oroantral communication. Dislocation of root	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970419946.html	2

	tip into maxillary sinus. Diagnostics. Treatment. Prevention.			31375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	
11.	Perioperative complications. Tooth aspiration of respiratory or digestive tract. Fracture and dislocation of adjacent tooth.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
12.	Postoperative complications. Hemorrhage. Methods of hemostasis. Surgical, pharmacological and biological methods of hemostasis.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2

				19946. html	
13.	Postoperative complications. Alveolitis, painful postextraction socket. Causes, diagnostics, prevention, treatment. Control test.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
14.	Preparation for test	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	6
15.	Acute oral odontogenic inflammatory diseases. Statistics, classification, etiology and pathogenesis.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970419946.html	2

				31375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	
16.	Periodontitis. Etiology, pathogenesis, pathological anatomy, ways of spreading of infectious process. Classification, clinical and radiological diagnostics, differential diagnostics. Surgical methods of treatment of chronic periodontitis: apicoectomy, hemisection and root amputation.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
17.	Tooth replantation and transplantation. Indications and contraindications. Preparation of tooth for replantation, removal technique, tooth treatment, replantation. Features of engraftment, possible complications and prognosis.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2

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18.	Periostitis. Pathological anatomy. Clinical and differential diagnosis, treatment. Chronic periostitis.	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
19.	Osteomyelitis odontogenic, contact, hematogenous. Odontogenic osteomyelitis: role of microflora, nonspecific resistance, immunological status of patient and anatomical features of jaws. Modern ideas about pathogenesis of osteomyelitis of jaws. Pathological anatomy and classification. Odontogenic osteomyelitis (acute and subacute stages). Etiology, pathogenesis, clinical and differential diagnosis, treatment.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	4
20.	Chronic stage of osteomyelitis. Clinical and radiological signs of various forms, differential diagnosis. Complex treatment.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970419946.html	2

				<p>31375.html</p> <p>2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html</p>	
21.	<p>Difficult eruption. Reasons. Clinical symptoms. Diagnostics. Indications for surgical treatment. Complications. Methods of surgery.</p>	<p>Preparation for practical classes</p>	<p>To study theory, to prepare for practical skills tasks, to answer questions.</p>	<p>1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html</p> <p>2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html</p>	2
22.	<p>Odontogenic maxillary sinusitis. Etiology, pathogenesis. Acute and chronic odontogenic sinusitis: methods of diagnosis and treatment.</p>	<p>Preparation for practical classes</p>	<p>To study theory, to answer questions.</p>	<p>1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html</p> <p>2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html</p>	2

				19946. html	
23.	Lymphadenitis. Acute and chronic lymphadenitis. Diagnosis, differential diagnosis, clinical symptoms, treatment. Purulent lymphadenitis. Adenophlegmon. Diagnosis, differential diagnosis, clinical symptoms, treatment.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
24.	Lymphadenopathies. Symptoms of HIV infection in oral and maxillofacial region. Control test.	Preparation for practical classes	To study theory, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970431375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html	2
25.	Preparation for exam	Preparation for practical classes	To study theory, to prepare for practical skills tasks, to answer questions.	1. Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - http://www.studmedlib.ru/book/ISBN9785970419946.html	36

				<p>31375.html 2. Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. http://www.studmedlib.ru/book/ISBN9785970419946.html</p>	
Total					90

6.2. Instructional guidelines on organizing students' out-of-class work

Requirements for creating case task:

they should be consistent with the curriculum and contribute to:

- testing algorithm of diagnosis (syndrome, preliminary, clinical);
- ability to interpret results of instrumental, laboratory examination;
- decision-making on tactics of assistance to the patient.

Case-task should be as close as possible to real diagnostic and treatment process and should include:

- complaints, life and disease history, extraoral, intraoral and x-ray examination;
- results of examination methods, including "distracting values" for differential diagnosis and choice of treatment.

Questions need to be formulated correctly in order to assess students' readiness to act in a professional environment.

The decision on diagnosis and treatment should be based on knowledge of fundamental disciplines.

The work with case-task include:

- preparing for practical classes;
- exploring the evaluation criteria of case-tasks;
- careful study of algorithm for solving case-tasks, understanding essence of work;
- group discussion of problem (in case of group solution form);
- developing options for decision-making, selecting criteria, evaluating and forecasting options decisions;
- presenting solution of case-tasks (in written or oral form);
- participating in general discussion;
- obtaining assessment and its understanding.

6.3. Materials to carry out current and interim assessment of students' knowledge

Competence mastering assessment

№	Assessment type	Monitored topics (sections)	Competences that include components under assessment
1	Test	Topics: 1,1-1,4; 2,1-2,9; 3,1-3,6; 4,1; 5,1; 6,1; 6,2.	GPC-4, SPC-1, 5, 6, 8.
2	Interview (questions and case-tasks)	Topics: 1,1-1,4; 2,1-2,9; 3,1-3,6; 4,1; 5,1; 6,1; 6,2.	GPC-4, SPC-1, 5, 6, 8.
3	Practical skills tasks	Topics: 1,2; 1,3; 1,4; 2,4; 2,8;2,9; 3,2; 3,4; 4,1.	GPC-4, SPC-1, 5, 6, 8.

Demonstrative test variant

1. Straight forceps are used to remove

- a) molars
 - b) premolars
 - c) wisdom teeth
 - d) maxillary incisors
- d) incisors of lower jaw**

2. S-shaped forceps without points are used to remove

- a) roots of teeth
 - b) molars of lower jaw
 - c) molars of upper jaw
 - d) premolars of upper jaw
- d) third molars of mandible**

3. S-shaped forceps with points are used to remove

- a) third molars
- b) molars of upper jaw
- c) premolars of upper jaw**
- d) third molars of mandible

4. Beak-shaped forceps with converging cheeks are used to remove

- a) incisors of lower jaw
- b) molars of lower jaw
- c) premolars of upper jaw
- d) third molars of upper jaw
- e) roots of teeth of mandible**

5. Beak-shaped forceps with diverging cheeks without points are used to remove following teeth of lower jaw

- a) incisors**
- b) molars
- c) roots of teeth

6. On lower jaw angled elevators are used to remove

- a) canines
- b) incisors
- c) premolars
- d) roots of teeth**

7. Complications arising immediately after tooth extraction include

- a) mumps
- b) bleeding**
- c) trigeminal neuralgia
- d) arthritis of temporomandibular joint
- e) ankylosis of temporomandibular joint

Criteria for assessing test

"Excellent" ("5") – 91% and more correct answers to test tasks.

"Good" ("4") – 81-90% correct answers to test tasks.

"Satisfactory" ("3") – 71-80% correct answers to test tasks.

"Unsatisfactory" ("2") – 70% and fewer correct answers to test tasks.

Questions for interview

1. Surgical interventions in oral cavity, face and jaws. Features of oral surgery.
2. Preparation of patient and treatment of surgical field. Incisions and methods of their implementation in various pathological processes in oral cavity.
3. Wound suturing in oral cavity.
4. Tooth extraction as surgical intervention and features of operational equipment.
5. Indications and contraindications for tooth extraction.
6. Perioperative complications.
7. Fracture of alveolar process. Diagnostics. Treatment. Prevention.
8. Fracture of mandible and dislocation of temporomandibular joint. Diagnostics. Treatment. Prevention.
9. Oroantral communication. Diagnostics. Treatment. Prevention.
10. Dislocation of root tip into maxillary sinus. Diagnostics. Treatment. Prevention.
11. Alveolitis. Diagnostics. Treatment. Prevention.

Criteria for assessing interview answers

"Excellent" ("5") – Student is able to present the content of basic (additional) questions in full using data of additional literature. Student demonstrates comprehensive knowledge of content of the discipline.

"Good" ("4") – Student is able to present the content of basic (additional) questions in full. Student demonstrates the ability to fully generalize and compare used material.

"Satisfactory" ("3") – Student is able to partially present the content of basic (additional) questions. Student demonstrates the ability to partially generalize and compare used material.

"Unsatisfactory" ("2") – Student cannot present the content of basic (additional) questions, there is no knowledge of the discipline. Student demonstrates inability to generalize and compared used material.

Demonstrative pass-fail exam questions

1. Sutures. Suture types. Suture sizes. Suture needles.
2. Local hemostatic drugs.
3. Materials for covering or filling a surgical wound
4. Materials for tissue regeneration.
5. Tooth extraction. Simple tooth extraction. Surgical tooth extraction. Definitions. Preparation of surgical field.
6. Indications for extraction.
7. Contraindications for extraction.
8. Tooth extraction. Stages of extraction.
9. Position of patient and surgeon during tooth extraction.
10. Simple tooth extraction. Extraction of maxillary teeth.
11. Simple tooth extraction. Extraction of mandibular teeth.
12. Extraction of single-rooted teeth and multi-rooted teeth with destroyed crown.

Criteria for assessing pass-fail exam answers

- "Passed" - student shows good knowledge of material studied within the discipline, can properly diagnose, prescribe examination for differential diagnosis, and appoint treatment. Student logically and coherently presents the material topics, properly answers question, and gives satisfactory answers to additional questions.
- "Failed" - student has superficial knowledge of the discipline, cannot properly diagnose, prescribe examination for differential diagnosis, and appoint treatment, gives partial answers to questions from basic literature recommended for the discipline.

Demonstrative case-task

Patient is 35 years old.

Complaints: acute pain in maxillary right teeth, edema of soft tissues of the face, body temperature is 38°C.

Disease history: a year ago patient had apicoectomy of 1.4 tooth and surgical removal of cyst. Three days ago there was an acute pain in 1.4 tooth, which then spread to adjacent teeth and jaw area.

Malaise, body temperature increased to 39°C. Patient tells that he has no allergic reactions, as well as syphilis, hepatitis B, C, AIDs.

Extraoral examination: face configuration is changed due to collateral edema of soft tissues of the infraorbital and buccal regions from the right side. Opening of mouth is free.

Intraoral examination: mucous membrane of alveolar process and muco-gingival junction in the area of 1.3, 1.4, 1.5 teeth is hyperemic, edemic from both vestibular and palatal sides. Dense, sharply painful infiltration is determined during palpation. 1.3, 1.4, 1.5 teeth are movable, percussion of 1.4 tooth is slightly painful, of 1.3 and 1.5 teeth are sharply painful. Gingival around tooth 1.4 is endemic, cyanotic, detached from the alveolar bone, there is suppuration from under gingiva by pressure.

X-ray examination: destruction of bone tissue in the periapical area of 1.4 tooth roots. Its contours are fuzzy, in the form of "flames".

Questions:

1. Make a diagnosis and indicate the most significant symptoms for the disease.
2. Make a differential diagnosis.
3. Treatment.
4. List possible local and general complications.

Criteria for assessing case-tasks

- "excellent" - student has profound knowledge of material, correctly and fully performs case-tasks (all tasks are completed, all questions are correctly answered);
- "good" - student gives strong answer but makes minor mistakes, has good enough skills, correctly answers additional questions but makes minor mistakes during answer;
- "satisfactory" - student is not confident enough, makes significant errors during answer and demonstrates poorly mastered skills, completes case-tasks, but has difficulties during answer, but is able to solve such case-tasks in practice;
- "unsatisfactory" — student demonstrates poor understanding of the discipline and makes significant errors while answering to most questions of case-task, incorrectly answers additional questions, is not able to solve such case-tasks in practice.

Demonstrative practical skills tasks

1. Interpretation of intraoral x-ray.
2. Palpation of maxillofacial region.
3. Percussion of teeth.
4. Application anesthesia.
5. Infiltration anesthesia.
6. Simple interrupted suture.

Criteria for assessing practical skills

- "Passed" - development of basic practical skills, abilities and manipulations, ability to use them in standard clinical situations.
- "Failed" - lack of clear understanding, practical skills, abilities and manipulations, lack of ability to use practical skills in specific situations.

Demonstrative exam questions

1. Periodontitis. Etiology, pathogenesis.
2. Periodontitis. Pathological anatomy, ways of spreading of infectious process. Classification.
3. Periodontitis. Clinical and radiological diagnostics, differential diagnostics.
4. Periodontitis. Surgical methods of treatment of chronic periodontitis: apicoectomy.
5. Periodontitis. Surgical methods of treatment of chronic periodontitis: hemisection.
6. Periodontitis. Surgical methods of treatment of chronic periodontitis: root amputation.
7. Periostitis. Pathological anatomy. Clinical and differential diagnosis, treatment. Chronic periostitis
8. Periostitis. Pathological anatomy.
9. Periostitis. Clinical and differential diagnosis.

10. Periostitis. Treatment.

11. Chronic periostitis Clinical and differential diagnosis, treatment.

Demonstrative exam card

1. Periodontitis. Etiology, pathogenesis.
2. Periostitis. Treatment.
3. Patient is 35 years old. Complaints: acute pain in maxillary right teeth, edema of soft tissues of the face, body temperature is 38°C. Disease history: a year ago patient had apicoectomy of 1.4 tooth and surgical removal of cyst. Three days ago there was an acute pain in 1.4 tooth, which then spread to adjacent teeth and jaw area. Malaise, body temperature increased until 39°C. Patient tells that he has no allergic reactions, as well as syphilis, hepatitis B, C, AIDs. Extraoral examination: face configuration is changed due to collateral edema of soft tissues of the infraorbital and buccal regions from the right side. Opening of mouth is free. Intraoral examination: mucous membrane of alveolar process and muco-gingival junction in the area of 1.3, 1.4, 1.5 teeth is hyperemic, edemic from both vestibular and palatal sides. Dense, sharply painful infiltration is determined during palpation. 1.3, 1.4, 1.5 teeth are movable, percussion of 1.4 tooth is slightly painful, of 1.3 and 1.5 teeth are sharply painful. Gingival around tooth 1.4 is endemic, cyanotic, detached from the alveolar bone, there is suppuration from under gingiva by pressure. X-ray examination: destruction of bone tissue in the periapical area of 1.4 tooth roots. Its contours are fuzzy, in the form of "flames".

Questions:

1. Make a diagnosis and indicate the most significant symptoms for the disease.
2. Make a differential diagnosis.
3. Treatment.
4. List possible local and general complications.

Criteria for assessing exam answers

- "excellent" - student demonstrates comprehensive knowledge of studied material, explores basic literature and studies additional literature recommended for preparing for practical classes. Student is able to relate basic concepts of the discipline in their value for acquired profession, shows creativity in understanding, presentation and use of educational and program material. Student is capable of fully disclosing the content of case-task using data from additional literature, demonstrates comprehensive knowledge of the content of the discipline. Student is able to apply theoretical material in practice, correctly observes the algorithm of using practical skills. The number of correct answers in test tasks is from 91% to 100%.
- "good" - student demonstrates knowledge of material studied in basic literature. Student shows systematic nature of knowledge in the discipline and is capable of self-development and self-improvement in course of further training and professional activity. Student is able to apply theoretical material in practice, follows the algorithm of using practical skills with minor mistakes. The number of correct answers in test task is from 81% to 90%.
- "satisfactory" - student shows knowledge of material enough for the study of subsequent disciplines. Minor mistakes are made in interpreting material, disclosing issues and coming to conclusions. Logical sequence is violated. Examples and arguments are not always reasoned and in some cases they do not reflect the issue essence. Student is able to partially reveal main content of case tasks, demonstrates knowledge of classifications, and has a general idea of the

discipline. Student demonstrates the ability to partially generalize and compare used material. Student partially applies theoretical material in practice, violates the algorithm of using practical skills. The number of correct answers in test task is from 71% to 80%.

- "unsatisfactory" - student demonstrates poor knowledge of basic material, makes significant errors while answering questions. Student can not disclose the main content of case-tasks, has no knowledge of general issues within the discipline. Student demonstrates inability to generalize and correlate the used material. Student does not know how to apply theoretical material in practice, significantly violates the algorithm of using practical skills. The number of correct answers in test task is fewer than 71%.

In the end of discipline students' knowledge are assessed according to the score-rating system.

7. Educational, methodological and informational means provided for the discipline (module) Dentistry (Oral Surgery)

№	Name and brief description of electronic publications and information databases	Number of access points
Basic literature		
1	Oral surgery : textbook / [Afanasyev V. V. and others] ; under the General ed. Afanasiev V.V. — 2nd ed., Rev. and extra.: GEOTAR-Media, 2015. — 792 p. - ISBN 978-5-9704-3137 http://www.studmedlib.ru/book/ISBN9785970431375.html - "Consultant of a student" for the password.	Unlimited
2	Pediatric oral and maxillofacial surgery. Collector of illustrated clinical tasks and tests: textbook/ Under the editorship of O. Z. Topol'nitskiy, S. V. Dyakova, V. P. Vashkevich. 2011. - 192c. - ISBN 978-5-9704-1994 - http://www.studmedlib.ru/book/ISBN9785970419946.html - "Consultant of a student" for the password.	Unlimited
3	Pediatric maxillofacial surgery. A guide to practical classes / ed. by O. Z. Topol'nitskiy, and A. P. Gurgenadze. - Moscow : GEOTAR-Media, 2015. - 168 p.: Il. - ISBN 978-5-9704-3353-9 http://www.studmedlib.ru/book/ISBN9785970433539.html - "Consultant of a student" for the password.	Unlimited
4	Atlas of pediatric surgical dentistry and maxillofacial surgery: textbook. Topolnitskiy O. Z., Vasiliev A. Yu. 2011. - 264 p.: Il. - ISBN 978-5-9704-1826-0. http://www.studmedlib.ru/book/ISBN9785970418260.html - ELS "Consultant of a student" for the password.	Unlimited
5	Atlas of human anatomy for dentists. Sapin M. R. Nikitiuk D. B., Litvinenko L. M. 2013. - 600 p. - ISBN 978-5-9704-2489-6. http://www.studmedlib.ru/book/ISBN9785970424896.html - ELS "Consultant of a student" for the password.	Unlimited
6	Local anesthesia in dentistry: studies. Handbook for University students / [Bazikyan E. A. et al.]; ed. E. A. Bazikyan. - Moscow : GEOTAR-Media, 2014. - 144 p.: Il. - ISBN 978-5-9704-3095-8. http://www.studmedlib.ru/book/ISBN9785970430958.html - "Consultant of a student", password	Unlimited
Additional literature		
1	Oral and maxillofacial surgery. Thematic tests: textbook. In 2 parts. Part 2. Panin A. M., Biberman, A. M., Bizyaev A. F., etc. / Under the editorship of A. M. Panin, V. V. Afanas'eva. 2009. - 768 p. - ISBN 978-5-9704-1246 - 6. http://www.studmedlib.ru/book/ISBN9785970412466.html - "Consultant of a student" for the password.	Unlimited

2	Oral surgery: tutorial / [Afanas'ev V. V. and others] ; under the General editorship of V. V. Afanasiev. - Moscow : GEOTAR-Media, 2010. - 880 p. - ISBN 978-5-9704-1153 - 7. http://www.studmedlib.EN/book/ISBN9785970411537.html , "Consultant of a student" for the password.	Unlimited
3	General anesthesia and sedation in pediatric dentistry: Manual/ V. I. Stosh, S. A. Rabinovich and others - M.: Geotermia, 2007. - 184 p. - ISBN 978-5-9704-0505-5. http://www.studmedlib.ru/book/ISBN9785970405055.html - "Consultant of a student" for the password.	Unlimited
4	Dentistry. Record and case management : manual / Under the editorship of V. V. Afanas'ev, O. O. Yanushevich. - 2nd ed., Rev. and extra - M.: GEOTAR-Media, 2013. - 160 p. - ISBN 978-5-9704-2708- http://www.studmedlib.EN/book/ISBN9785970427088.html , "Consultant of a student" for the password.	Unlimited
5	Dental instruments: Atlas. Bazikyan E. A. 2007. - 168 p. - ISBN 978-5-9704-0591-8. http://www.studmedlib.ru/book/ISBN9785970405918.html - "Consultant of a student" for the password.	Unlimited
6	Dentistry: textbook for universities / Ed.N. Bazhanov, - 7th edition., Rev. and extra., - M.: GEOTAR-Media, 2008. - 416 p. - ISBN 978-5-9704-0832-2. http://www.studmedlib.ru/book/ISBN9785970408322.html - "Consultant of a student" for the password.	Unlimited
7	Military dentistry and maxillofacial surgery: textbook. Afanasyev V. V., Ostanin A. A. 2009. - 240 p.: Il. - ISBN 978-5-9704-1165-0. http://www.studmedlib.ru/book/ISBN978970411650.html - "Consultant of a student" for the password.	Unlimited
8	Organization and equipment of dental clinics, Cabinet. Sanitary and hygienic requirements. Ergonomic basics of the dentist : studies. the allowance / under the editorship of E. A. Bazikyan. - Moscow : GEOTAR-Media, 2014. - 96 p.: Il. -ISBN 978-5 - 9704-3057-6. http://www.studmedlib.ru/book/ISBN9785970430576.html -"Consultant of a student" for the password.	Unlimited
9	Dictionary of professional dental terms : studies. manual / E. S. Calibration, E. A. Bragin, S. I. Abakarov, and others - M. : GEOTAR-Media, 2014. - 208 p. - ISBN 978-5-9704-2823-8. http://www.studmedlib.ru/book/ISBN9785970428238.html -"Consultant of a student" for the password.	Unlimited
10	Oral surgery. Inflammatory and dystrophic diseases of the salivary glands: the textbook / Under the editorship of A. M. Panin. 2011. - 208 p.: Il. (Series "Library of the dentist") - ISBN 978-5-4235-0001-6. http://www.studmedlib.ru/book/ISBN9785423500016.html -"Consultant of a student" for the password.	Unlimited
Online resources and Software		
1	http://www.studmedlib.ru - "Consultant of a student", electronic library	Unlimited
2	http://elibrary.ru/ – Scientific electronic library eLibrary.ru	Unlimited
3	http://www.e-stomatology.ru – Dental Association Russia	Unlimited
4	www.stom.ru – Russian Dental Portal	Unlimited
5	Licensed software: «Microsoft Windows»; registration number 00037FFEBACF8FD7, agreement no. SD-130712001 dated 12.07.2013; freely distributed SOFTWARE: Open Office; Adobe Acrobat Reader	Unlimited

**8. Material and technical means provided for
the discipline (module) C1.1.48 Dentistry (Oral Surgery)**

№	Name of the discipline (module), practice in accordance with academic plan	Name of special premises for in-class and out-of-class work	Equipment of special room and facilities for in-class and out-of-class work	List of licensed software. Confirmation details document's
1	2	3	4	5
	Dentistry (Oral Surgery)	Classrooms 17-202, 17-204 for lectures, current and interim assessment	Set of educational furniture: desks, teacher table, chairs, and blackboard. Multimedia learning tools (portable): projector, screen, laptop.	Licensed software: "Consultant plus", cooperation agreement dated 03 January 2002
		Classroom 7b-207 for lectures	Set of educational furniture: desks, teacher table, chairs, and blackboard. Multimedia learning tools (portable): projector, screen, laptop.	Licensed software: "Consultant plus", cooperation agreement dated 03 January 2002
		Classroom 17-104 for practical classes	Set of educational furniture: desks, teacher table, chairs, and blackboard. Dental equipment: dental unit – 6 ones; autoclave, autoclave for tips; apparatus for ultrasonic removal of supra-and subgingival calculus; Air-Flow; aquadistillator (medical); polymerization lamp for composite material (intraoral); camera-storage sterile instruments; machine packaging; ultrasonic cleaner (device ultrasonic cleaning and disinfection tools and products); bactericidal lamp (irradiator) for premises; apparatus for determining length of root canal (apex locator), device for air sterilization of dental instrumentation (hot-box), device to clean tips. Dental instruments: dental cassette, college tweezers, dental probe, dental mirror, extraction forceps (straight, s-shaped, bayonets, for removal of wisdom teeth), extraction forceps (converging and diverging beak-shaped forceps), elevators (straight, angled from itself, to itself), surgical flat steel instruments, periapical curettes. Consumables: cleaning products and lubricants, burst hooks to ultrasonic scaler, suture material, surgical dressings,	Licensed software: "Consultant plus", cooperation agreement dated 03 January 2002

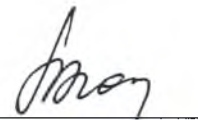
			sterile gauze balls, anesthesia Multimedia learning tools (portable): projector, screen, laptop.	
		Classroom 17-105 for group and individual consultations	Set of educational furniture: desks, teacher table, chairs, and blackboard. Dental equipment: dental unit – 6 ones; autoclave, autoclave for tips; apparatus for ultrasonic removal of supra-and subgingival calculuss; Air-Flow; aquadistillator (medical); polymerization lamp for composite material (intraoral); camera-storage sterile instruments; machine packaging; ultrasonic cleaner (device ultrasonic cleaning and disinfection tools and products); bactericidal lamp (irradiator) for premises); apparatus for determining length of root canal (apex locator), device for air sterilization of dental instrumentation (hot-box), device to clean tips. Dental instruments: dental cassette, college tweezers, dental probe, dental mirror, extraction forceps (straight, s-shaped, bayonets, for removal of wisdom teeth), extraction forceps (converging and diverging beak-shaped forceps), elevators (straight, angled from itself, to itself), surgical flat steel instruments, periapical cures. Consumables: cleaning products and lubricants, burst hooks to ultrasonic scaler, suture material, surgical dressings, sterile gauze balls, anesthesia Multimedia learning tools (portable): projector, screen, laptop.	Licensed software: "Consultant plus", the cooperation agreement of 03 January 2002; free software: Libre Office, OpenOffice; Adobe Acrobat Reader; Mozilla Firefox; Opera; Google Chrome.
		Computer class 17-205 for out-of-class students' work	Set of educational furniture: desks, teacher table, chairs, and blackboard. Computer equipment with the access to the Internet and electronic information environment of the organization-12 ones.	Licensed software: "Consultant plus", the cooperation agreement of 03 January 2002; free software: Libre Office, OpenOffice; Adobe Acrobat Reader; Mozilla

				Firefox; Opera; Google Chrome.
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The study program of the discipline C1.1.48 Dentistry (Oral Surgery) was composed in compliance with the requirements of FSES HE and curriculum for the specialty 31.05.03 Dentistry.

The program was compiled by:

1. L.A. Zyul'kina, Head of the sub-Department of Dentistry



2. O.O. Ilyunina, Assistant of the sub-Department of Dentistry



*Verification and correction is executed by T.O. Tokareva
Diploma № 5824003 30966 06.07.2018*

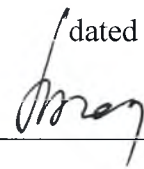
The present study programme is protected by copyright and cannot be reproduced in any form without written consent of the department developed the program.

The program was approved at the meeting of the Department of Dentistry

Record no. 6

dated «05» 03 2016

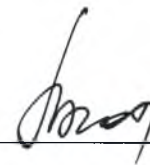
Head of the sub-Department of Dentistry



L.A. Zyul'kina

The program was approved by

Dean of the Faculty of Dentistry



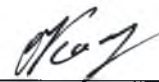
L.A. Zyul'kina

The program was approved by the methodological committee of the Medical Institute

Record no. 7




dated «05» 03.2016

Head of the methodological committee of the Medical Institute



O.V. Kalmin

Data on re-approval of the program for consecutive academic years and record of amendments

Academic year	Department decision (Record no. date, signature of head of the department)	Introduced amendments	Page numbers		
			changed	new	annulled
2016/2017	Record no. 9 dated 13.06.2017  L.A. Zyul'kina	Change of title page in accordance with the order of the Ministry of Education of the Russian Federation No. 320 dated 10.04.2017 from "General practice dentist" to "Dentist»	1	1	-
2017/2018	Record no. 1 dated 30.08.2017  L.A. Zyul'kina	Re-approved for 2017/2018 academic year. Unchanged	-	-	-
2018/2019	Record no. 12 dated 02.07.2018  L.A. Zyul'kina	Re-approved for 2018/2019 academic year. Updated section № 7 "Material and technical means provided for the discipline (module)"	2	-	-