MINISTRY OF HEALTH OF UKRAINE

KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of _____ Orthopedic Dentistry _____

Academic year _____ 2021-2022 _____

SYLLABUS OF THE DISCIPLINE

" ORTHOPED (name of education)	IC DENTISTRY" ational component)
Normative or selective educational component	Basic
Educational component format Mixed	ne; mixed; distance)
Field of knowledge <u>22 "Health ca</u> (code and nam	e of the field of knowledge)
Specialty221 "Dentistry", the second (code and	ame of the specialty)
Educational and professional program (educat	ional and scientific program) <u>"Dentistry"</u>
The second (master's) level of higher education	n
Course V	
The syllabus of the discipline was considered at the meeting of the department orthopedic dentistry	Approved by the methodical commission of KhNMU on problems dental profile
Protocol from	(name)
"30" August 2021 № 14	"02" September 2021year №_4
Head of Department	Head
drup	Affr
(signature) (surname and initials)	Ruzin G.P .

(signature) (surname and initials)

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(surname, name, position, academic title, academic degree)

2. Pogorila Alla Volodymyrivna, Head of Curriculum of the Department of Prosthetic Dentistry,

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scientific degree	Vanishen I V	
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Professional interacts links to the teacher 's	Masiovsky A. S.	
Floressional interests, miks to the teacher's	riosuleue dellusu y	
profile (on the website of the university,	stomatologivi/	
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Sumanie, name, position, academic title,	dentistry	
scientific degree	Tomilin V G	
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scientific degree	dentistry
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department, in the Moodle system and	stomatologiyi/
more.	http://distance.knmu.edu.ua/course/index.pnp?categoryid=45
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Consultations	According to the schedule of the educational department
Location	
Surnama nama position academic title	Condidate of Madical Sciences, Associate Professor of Prosthetic
scientific degree	dentistry
scientific degree	Yushchenko P. L.
Professional interests, links to the teacher 's	Prosthetic dentistry
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department, in the Moodle system and	stomatologiyi/
more.	http://distance.knmu.edu.ua/course/index.php?categoryid=45
Contact phone	nups://www.facebook.com/ortstom.knnmu
Cornorate mail of the teacher	nl vushchanko@knmu edu us
Consultations	According to the schedule of the advactional department
	LIDC KNMU
	UDC MIINVIU
sumaine, name, position, academic title,	Candidate of Medical Sciences, Assistant Professor of Prosthetic
scientific degree	Bogatvrenko M. V.
Professional interests, links to the teacher 's	Prosthetic dentistry

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department, in the Moodle system and	stomatologiyi/	
more.	http://distance.knmu.edu.ua/course/index.php?categoryid=45	
	https://www.facebook.com/ortstom.khnmu	
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Consultations	According to the schedule of the educational department	
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Surname, name, position, academic title,	Candidate of Medical Sciences, Assistant Professor of Prosthetic	
scientific degree	dentistry	
Professional interasts links to the teacher 's	German S. A.	
profile (on the website of the university	https://knmu.edu.ua/departments/kafedra-ortopedychnovi-	
department in the Moodle system and	stomatologivi/	
department, in the Moodle system and	http://distance.knmu.edu.ua/course/index.php?categoryid=45	
more.	https://www.facebook.com/ortstom.khnmu	
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Consultations	According to the schedule of the educational department	
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Surname, name, position, academic title,	assistant of the department of Prosthetic dentistry	
scientific degree	Pereshivailova I. A.	
Professional interests, links to the teacher 's	Prosthetic dentistry	
profile (on the website of the university.	https://knmu.edu.ua/departments/kafedra-ortopedychnoyi-	
department, in the Moodle system and	stomatologiyi/	
more.	http://distance.knmu.edu.ua/course/index.php?categoryid=45	
	https://www.facebook.com/ortstom.khnmu	
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Corporate mail of the teacher	io.pereshyvailova@knmu.edu.ua	
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scientific degree	Kulish S. A.	
Professional interests, links to the teacher 's	Prosthetic dentistry	
profile (on the website of the university,	https://knmu.edu.ua/departments/kafedra-ortopedychnoyi-	
department, in the Moodle system and	stomatologiyi/ http://distance.knmu.edu.ue/course/index.nhp?cotegoryid=45	
more.	https://www.facebook.com/ortstom.khnmu	
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Corporate mail of the teacher	sa kulish@knmu.edu.ua	
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Surname name position academic title	Candidate of Medical Sciences Assistant Professor of Prosthetic	
scientific degree	dentistry	
scientific degree	Movchan O. V.	
Professional interests, links to the teacher 's	Prosthetic dentistry	
profile (on the website of the university,	https://knmu.edu.ua/departments/kafedra-ortopedychnoyi-	
department, in the Moodle system and	stomatologiyi/	
more	http://distance.lanny.adv.yo/covers/index.nhn?coteconvid_15	
more.	$\frac{\text{nup://distance.knnu.edu.ua/course/index.pnp/categoryid=45}{1}$	
Contact phone	http://distance.khind.edu.ua/course/index.php?categoryid=45 https://www.facebook.com/ortstom.khnmu	
Contact phone	http://distance.khind.edu.ua/course/index.php?categoryid=45 https://www.facebook.com/ortstom.khnmu 063 052 30 30	
Contact phone Corporate mail of the teacher	http://distance.khndl.edu.ua/course/index.php?categoryid=45 https://www.facebook.com/ortstom.khnmu 063 052 30 30 ov.movchan@knmu.edu.ua	
Contact phone Corporate mail of the teacher Consultations	http://distance.khind.edu.ua/course/index.php?categoryid=45 https://www.facebook.com/ortstom.khnmu 063 052 30 30 ov.movchan@knmu.edu.ua According to the schedule of the educational department UDC_VI_NMU	
Contact phone Corporate mail of the teacher Consultations Location	http://distance.khnu.edu.ua/course/index.php?categoryid=45 https://www.facebook.com/ortstom.khnmu 063 052 30 30 ov.movchan@knmu.edu.ua According to the schedule of the educational department UDC KhNMU	

scientific degree	Bilobrov R. V.
Professional interests, links to the teacher 's	Prosthetic dentistry
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Consultations	According to the schedule of the educational department
	LIDC KENIMU
Location	ODC NIININU
sumaine, name, position, academic title,	Zanara P S
Scientific degree	Description description:
Professional interests, links to the teacher's	Prostnetic dentistry https://knmu.edu.ua/departments/kafedra_ortopedychnovi_
prome (on the website of the university,	stomatologivi/
department, in the Moodle system and	http://distance.knmu.edu.ua/course/index.php?categoryid=45
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scientific degree	dentistry
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Professional interests, links to the teacher's	Prosthetic dentistry
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scientific degree	Salia L. G.
Professional interests, links to the teacher 's	Prosthetic dentistry
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department, in the Moodle system and	stomatologiyi/ http://distance.knmu.edu.ue/course/index.nhn?categorvid=45
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Corporate mail of the teacher	lh.saliia@knmu.edu.ua
Consultations	According to the schedule of the educational department
Location	UDC KhNMU
Surname, name, position, academic title,	assistant of the department of Prosthetic dentistry
scientific degree	Biryukov V. A.
Professional interests, links to the teacher 's	Prosthetic dentistry
profile (on the website of the university,	https://knmu.edu.ua/departments/kafedra-ortopedychnoyi-
department, in the Moodle system and	stomatologiyi/
more.	http://distance.knmu.edu.ua/course/index.php?categoryid=45
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Cornorate mail of the teacher	vo biriukov@knmu edu us
	According to the schedule of the advectional department
	LIDC KNIMU
Location	

Surname, name, position, academic title,	assistant of the department of Prosthetic dentistry
scientific degree	Andrienko K. Y.
Professional interests, links to the teacher 's	Prosthetic dentistry
profile (on the website of the university,	https://knmu.edu.ua/departments/kafedra-ortopedychnoyi-
department, in the Moodle system and	stomatologiyi/
more	http://distance.knmu.edu.ua/course/index.php?categoryid=45
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Consultations	According to the schedule of the educational department
Location	UDC KhNMU

INTRODUCTION

The syllabus of the discipline "Orthopedic Dentistry" is compiled in accordance with the educationalprofessional program (hereinafter - OPP) "Dentistry" and the Standard of Higher Education of Ukraine (hereinafter - the Standard), the second (master's) level, field of knowledge 22 "Health", specialty 221 Dentistry ".

Description of the discipline (abstract) This course of orthopedic dentistry, which allows students to obtain a final block of knowledge about pathological conditions of the dental system that require orthopedic methods of treatment, taking into account previously acquired knowledge on the application, manufacture of basic orthopedic structures based on basic concepts of anatomy, physiology, biomechanics and biomechanics.

This course provides the ability to correctly diagnose various pathological conditions of the dental and maxillofacial system and to make a plan of orthopedic treatment of dental patients using modern methods of manufacturing various dental structures allows you to get a competent and effective specialist.

The subject study of the discipline is orthopedic treatment of diseases of the dental apparatus:

- defects of the coronal part of individual teeth
- partial loss of teeth

Interdisciplinary connections: The study involves the preliminary mastering of disciplines in medical biology, normal and pathological anatomy, histology, embryology and cytology of normal and pathological physiology, bioorganic and inorganic chemistry, biochemistry, medical physics, microbiology, materials science in dentistry, pediatrics, propaedeutics dentistry, prevention of dental diseases, propaedeutics of orthopedic dentistry, general hygiene, orthopedic dentistry, surgical dentistry, therapeutic dentistry, pediatric dentistry, orthodontics, radiation diagnostics and radiation therapy, medical informatics, bioethics ,. pharmacology and prescription, epidemiology and principles of evidence-based medicine, emergency and urgent medical care.

Prerequisites. The study of the discipline involves the prior mastering of disciplines in medical biology, normal and pathological anatomy, histology, embryology and cytology of normal and pathological physiology, bioorganic and inorganic chemistry, biochemistry, medical physics, microbiology, materials science in dentistry, dentistry, propaedeutics propaedeutics of pediatric therapeutic dentistry, general hygiene.

Postrequisites. The main provisions of the discipline should be applied in the study of related disciplines for 5 years of study, is the basis for preparation for the licensing exam EDKI, preparation for study in higher education institutions in the programs of the third educational and scientific level of higher education.

Link to the discipline page in MOODLE http://distance.knmu.edu.ua/course/index.php?categoryid=234

1. PURPOSE AND TASKS OF THE COURSE

1.1. The purpose of teaching the discipline "Orthopedic dentistry" is a professional formation of a future specialist who is able to solve clinical problems using the acquired knowledge and skills in the discipline, which involves the integration of teaching the discipline with therapeutic, surgical and pediatric dentistry.

1.2. The main tasks of studying the discipline "Orthopedic dentistry" is the acquisition by students of competencies in accordance with the general and professional competencies of the educational-professional program "Dentistry" of the second level of higher education in the specialty 221 Dentistry (discipline "Orthopedic Dentistry").

1.3. Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the OPP and Standard).

1.3.1. The study of the discipline provides students with the acquisition of competencies:

In accordance with the requirements of the standard, the discipline provides education for students

– integral:

ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

- general:

ability to abstract thinking, analysis and synthesis; ability to apply knowledge in practice; skills of using information and communication technologies; ability to search, process and analyze information from various sources; ability to adapt and act in a new situation; ability to work in a team; ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies. active recreation and leading a healthy lifestyle.

- special (professional, subject):

ability to collect medical information about the patient and analyze clinical data; ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergencies; ability to plan and carry out measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial region; ability to determine the tactics of management of patients with diseases of organs and tissues of the oral cavity and maxillofacial region; ability to treat major diseases of organs and tissues of the oral cavity and dental manipulations; ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region; ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region; ability to determine tactics, methods and provide emergency medical care; ability to organize and conduct screening examinations in dentistry; ability to maintain regulatory medical records; ability to provide legal support for one's own professional activity. ability to provide home care according to the protocols of tactical medicine.

1.3.2. The study of the discipline ensures the acquisition by students of the following program learning outcomes:

The course covers the main aspects of training a future orthopedic dentist.

According to the training program in the discipline "Orthopedic Dentistry" the applicant will acquire theoretical knowledge, methodological training, practical skills and abilities in the following areas:

1. Identify and identify the leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge about the person, his organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2).

2. Collect information about the general condition of the patient, assess the psychomotor and physical development of the patient, the condition of the maxillofacial organs, based on the results of laboratory and instrumental studies to assess information about the diagnosis (list 5).

3. Prescribe and analyze additional (mandatory and optional) methods of examination (laboratory, radiological, functional and / or instrumental) according to list 5, patients with diseases of organs and tissues of the oral cavity and maxillofacial region for differential diagnosis of diseases (for list 2).

4.Determine the final clinical diagnosis in accordance with the relevant ethical and legal norms, by making an informed decision and logical analysis of the obtained subjective and objective data of clinical, additional examination, differential diagnosis under the supervision of a physician-manager in a medical institution (according to list 2.1).

5. Establish a diagnosis of emergencies under any circumstances (at home, on the street, in a medical institution), in an emergency, martial law, lack of information and limited time (according to list 4).

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

8.Determine the approach, plan, type and principle of treatment of dental disease (according to list 2) by making an informed decision according to existing algorithms and standard schemes.

11. Carry out treatment of the main dental diseases according to the existing algorithms and standard schemes under the control of the doctor-manager in the conditions of medical institution (according to the list 2.1).

13.Determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances on the basis of a diagnosis of emergency in a limited time (according to list 4).

17. Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.

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

21. Perform medical manipulations on the basis of preliminary and / or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and in different conditions (according to list 6).

23. Manipulate the provision of emergency medical care, using standard schemes, under any circumstances on the basis of a diagnosis of emergency (according to list 4) in a limited time (according to lists 6, 7).

1.3.3. The study of the discipline provides students with the following social skills (Soft skills):

- communicativeness (realized through: the method of group work and brainstorming during the analysis of clinical cases, the method of presenting the results of independent work and their protection in the group),
- teamwork (implemented through: group work method and brainstorming during the analysis of clinical cases),
- conflict management (implemented through: business games),
- time management (implemented through: the method of self-organization during classroom work in groups and independent work),
- leadership skills (implemented through: the method of presenting the results of independent work and their defense in the group).

2. INFORMATION SCOPE OF THE COURSE

2.1 Description of the discipline

Name of indicators	Field of knowledge, specialty,	Characteristics of the discipline		
	education level	full-time education	evening form of study	
Number of credits - 8.5	Branch of knowledge <u>22 «Healthcare »</u> (code and name)	Nor	rmative	
		Year of preparation:		
The fefal mention of here is	Specialty:	5th	-and	
The total number of nours is	221 "Dentistry"	Semester		
233	(code and name)	9.10th	-and	
		Lectures		
		36 years	year	
form of study:	Educational and qualification level: second (master's)	Practical, seminar		
classrooms - 180		144 years	year	
independent work of the		Laboratory		
student - 75	<u> </u>	year	year	
		Individual work		

	75 years	year	
	Individua	l tasks: year	
	Type of cor	trol: diff. test	

2.2.1 Lectures

Nº s / n	Name topics	Number	Type of lecture
5711		nouis	lecture
1.	Modern methods of examination of dental patients in the clinic of	2	
	orthopedic dentistry, taking into account the musculoskeletal system of		
	the maximoracial area.	2	
2.	The patient's medical history in the clinic of orthopedic dentistry.	2	
3.	Anesthesia in the clinic of orthopedic dentistry.	2	
4.	Clinical aspects of application of all-ceramic constructions of dentures	2	
	in the clinic of orthopedic dentistry.		
5.	Orthopedic treatment with fixed dentures.	2	
6.	Production of dentures using CAD / CAM technologies in orthopedic	2	
	dentistry.		
7.	The main types of prosthetics on implants.	2	
8.	Orthopedic treatment with partial removable dentures.	2	
9.	Orthopedic treatment with complete removable dentures.	2	
10.	Orthopedic methods of treatment for injuries of the maxillofacial area.	2	
11.	Periodontitis and periodontitis. Clinic. Classifications. Research and	2	
	diagnostic methods.		
12.	Orthopedic methods of treatment in the complex therapy of periodontal	2	
	diseases.		
13.	Increased abrasion of the hard tissues of the teeth. Etiology.	2	
	Pathogenesis. Clinic. Diagnosis. Methods of orthopedic treatment.		
	Prevention. Forecast.		
14.	Etiology and pathogenesis of dental deformities. Diagnosis. Clinical	2	
	forms, classifications. Treatment of dental deformities.		
15.	Diseases of the temporomandibular joint. Etiology, clinic, diagnosis.	2	
	Methods of orthopedic treatment.		
16.	Legal aspects in the professional activity of a dentist-orthopedist.	2	
17.	Diseases of the oral mucosa caused by a reaction to denture materials.	2	
18.	Disinfection and sterilization in the clinic of orthopedic dentistry	2	
	Total hours of discipline	20	

2.2.2 Seminars

N⁰	Name topics	Number	Teaching	Forms of
s / n		hours	methods	control
1				
2				
	Hours in general			

2.2.3 Practical classes

N⁰	Name topics	Number	Teaching methods	Forms of control
s /		hours		
n				
45	Modern methods of	4	Narrative-explanation,	Oral interview (individual and frontal): written survey: test
	examination of dental		illustration, demonstration,	control; creative tasks;
	patients.		presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			debate, brainstorming method.	report and others.
46	Orthopedic treatment of	4	Narrative-explanation,	Oral interview (individual and
	defects of dental crowns		conversation, lecture,	frontal); written survey; test
	with veneers.		illustration, demonstration,	control; creative tasks;
			discussion modeling of	mutual control: self-control:
			processes and situations, case	report; declamation; poster
			method, project method,	report and others.
- 17		4	debate, brainstorming method.	
47	Restoration of teeth after	4	Narrative-explanation,	frontal): written survey: test
	endodonuc treatment.		illustration, demonstration.	control: creative tasks:
			presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			debate, brainstorming method.	report and others.
48	Retraction of the gums.	4	Narrative-explanation,	Oral interview (individual and
	Methods of obtaining		conversation, lecture,	frontal); written survey; test
	fingerprints. FINAL		illustration, demonstration,	control; creative tasks;
	LESSON.		discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			method, project method,	report and others.
49	Etiology and pathogenesis	4	Narrative-explanation.	Oral interview (individual and
	of dental deformities.		conversation, lecture,	frontal); written survey; test
			illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			processes and situations, case	report: declamation: poster
			method, project method,	report and others.
	A.1 C.1. 1. 1	4	debate, brainstorming method.	
50	Alignment of the occlusal	4	INARTATIVE-explanation,	frontal): written survey: test
	stage for prosthetics		illustration, demonstration.	control; creative tasks:
	stage for prostitutes.		presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case method	report; declamation; poster
			debate, brainstorming method.	
51	Excessive abrasion of the	4	Narrative-explanation,	Oral interview (individual and
	hard tissues of the teeth.		conversation, lecture,	frontal); written survey; test
	FINAL LESSON.		presentation videos videos	individual tasks abstracts
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			method, project method,	report and others.
			uedate, brainstorming method.	

50	Freed and seven line d	4	NI- mating and lange the m	
52	Focal and generalized	4	Narrative-explanation,	Oral interview (individual and
	periodontitis.		conversation, lecture,	frontal); written survey; test
			illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			discussion. modeling of	mutual control: self-control:
			processes and situations case	report: declamation: poster
			mothed project method	report, deciamation, poster
			method, project method,	report and others.
			debate, brainstorming method.	
53	Periodontitis. Etiology.	4	Narrative-explanation,	Oral interview (individual and
	Pathogenesis. Clinic.		conversation, lecture,	frontal); written survey; test
	EINALLESSON		illustration, demonstration,	control; creative tasks;
	FINAL LESSON		presentation videos videos	individual tasks abstracts
			discussion modeling of	mutual control: self_control:
			measure and situations	report declamation poster
			processes and situations, case	report, declamation, poster
			method, project method,	report and others.
			debate, brainstorming method.	
54	Etiology. Pathogenesis.	4	Narrative-explanation,	Oral interview (individual and
	Clinic and diagnosis of		conversation, lecture,	frontal); written survey; test
	TML diseases		illustration. demonstration.	control: creative tasks:
	T IVIJ UISEASES.		presentation videos videos	individual tasks: abstracts:
			discussion modeling of	mutual control: solf control:
			discussion, modeling of	inutual control, sen-control,
			processes and situations, case	report; declamation; poster
			method, project method,	report and others.
			debate, brainstorming method.	
55	Neuromuscular and	4	Narrative-explanation,	Oral interview (individual and
	occlusive-articulatory		conversation, lecture,	frontal); written survey; test
	dusfunctional syndromes		illustration. demonstration.	control: creative tasks:
	dystulictional syndromes		presentation videos videos	individual tasks abstracts
	of the TMJ.		discussion modeling of	mutual control: self-control:
			measure and situations	natural control, sen-control,
			processes and situations, case	report, declamation, poster
			method, project method,	report and others.
			debate, brainstorming method.	
56	Protection of medical	5	Narrative-explanation,	Oral interview (individual and
	history.		conversation, lecture,	frontal); written survey; test
			illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			discussion. modeling of	mutual control: self-control:
			processes and situations case	report declamation poster
			method project method	report and others
			debate brainstorming method	report and others.
67	T ' 1 (1	<i>г</i>	Net in the second secon	
57	Final control	5	Narrative-explanation,	Oral interview (individual and
			conversation, lecture,	frontal); written survey; test
			illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			method project method	report and others
			debate brainstorming method	report and others.
59	Replacement of defects of	6	Narrative_evolution	Oral interview (individual and
50	Replacement of defects of	0	aonyomotion 1-structure	frontal), written arman (ind
	hard tissues of teeth by		conversation, lecture,	fromai), written survey, test
	tabs.		illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			method, project method.	report and others.
			debate, brainstorming method	L
59	Aesthetic crowns: plastic	6	Narrative-explanation	Oral interview (individual and
	approvide motol substite,	0	conversation lecture	frontal), written survey, tost
	composite, metai-ceramic,		illustration demonstration	control: croative toster
	without metal. Indications		musuation, demonstration,	individual tasks;
			procontation Vidooc Vidooc	industration tooker obstractor

	and contraindications.		discussion, modeling of processes and situations, case method, project method, debate brainstorming method	mutual control; self-control; report; declamation; poster report and others.
60	Clinical and laboratory stages of manufacturing aesthetic crowns.	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
61	Replacement of partial defects of the dentition with bridges. Indications and contraindications.	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
62	Clinical and laboratory stages of manufacturing bridge-like prostheses. FINAL LESSON	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
63	Replacement of dentition defects with partial plate removable dentures. Clinical and laboratory stages of manufacture.	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
64	Indications and contraindications to the replacement of partial defects of the dentition with clasp dentures.	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
65	Orthopedic treatment of edentulous jaws. FINAL LESSON	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
66	Orthopedic interventions in the complex treatment of periodontal diseases.	6	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.

67	Increased abrasion of the	6	Narrative-explanation.	Oral interview (individual and
0.	hard tissues of the teeth	Ũ	conversation. lecture.	frontal): written survey: test
	hard fissues of the teeth.		illustration. demonstration.	control: creative tasks:
			presentation, videos, videos,	individual tasks: abstracts:
			discussion. modeling of	mutual control: self-control:
			processes and situations, case	report: declamation: poster
			method. project method.	report and others.
			debate, brainstorming method.	r · · · · · · · · · · · · · · · · · · ·
68	Tooth and jaw	6	Narrative-explanation.	Oral interview (individual and
	deformities forms	-	conversation, lecture,	frontal); written survey; test
	deformities. forms.		illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks: abstracts:
			discussion, modeling of	mutual control: self-control:
			processes and situations, case	report: declamation: poster
			method, project method,	report and others.
			debate, brainstorming method.	r
69	Diseases of the	6	Narrative-explanation,	Oral interview (individual and
	temporomandibular joint.		conversation, lecture,	frontal); written survey; test
			illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			method, project method,	report and others.
			debate, brainstorming method.	
70	Allergic conditions in	6	Narrative-explanation,	Oral interview (individual and
	orthopedic dentistry.		conversation, lecture,	frontal); written survey; test
			illustration, demonstration,	control; creative tasks;
			presentation, videos, videos,	individual tasks; abstracts;
			discussion, modeling of	mutual control; self-control;
			processes and situations, case	report; declamation; poster
			method, project method,	report and others.
71	Dractica of practical skills	6	Nerrative explanation	Oral interview (individual and
/1	Fractice of practical skills.	0	Narrative-explanation,	frontal): written survey: test
	FINAL LESSON		illustration demonstration	control: creative tasks:
			presentation, videos videos	individual tasks: abstracts:
			discussion modeling of	mutual control: self control:
			processes and situations case	report: declamation: poster
			method project method	report and others
			debate brainstorming method	report and others.
72	DIFFICULTY	6	Narrative-explanation	Oral interview (individual and
12		0	conversation.	frontal): written survey. test
			illustration. demonstration	control: creative tasks
			presentation, videos, videos	individual tasks: abstracts:
			discussion, modeling of	mutual control: self-control:
			processes and situations, case	report; declamation; poster
			method, project method.	report and others.
			debate, brainstorming method.	-
Hou	rs in general	144		

2.2.4. Laboratory classes

N⁰	Name topics	Number	Teaching	Forms of
s /		hours	methods	control
n				
1				
2				
	Hours in general			

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2.2.5. Individual work

No	Subject to take	Number	Teaching methods	Forms of control
s/		nours		
1	Algorithms of drug actions on orthopedic reception	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
2	Possibilities of aesthetic restorations. Execution technique	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
3	Features of orthopedic treatment with pin structures.	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
4	Principles of elimination of dento-alveolar deformations with changes in interalvular height in the partial absence of teeth.	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
5	Clinical complications are caused by excessive abrasion of the hard tissues of the teeth.	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
6	Influence of periodontal status of the patient on the choice of orthopedic treatment method.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
7	Morphological, physiological and functional properties of the TMJ.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
8	Possibilities of microprosthetics manufacturing means.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
9	Features of construction of bridges with dentition defects.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method. "Brainstorming".	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report: declamation: poster

			webinar, virtual consultation.	report and others.	
10	Comparative characteristics of removable and non- removable structures.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
11	Possibilities and advantages of a clasp prosthesis.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
12	Features of treatment of edentulous jaws and ways of their decision.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
13	Orthopedic methods of stabilization of dentitions in periodontal disease.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
14	The urgency of eliminating dento-alveolar deformities in the complex treatment of patients.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
15	Description of diagnostic features for the treatment of TMJ.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
16	Diseases of the temporomandibular joint.	5	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.	
Total hours of discipline			45		

3. EVALUATION CRITERIA

3.1. Evaluation of the success of education of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU"

IPA is considered fulfilled if the applicant in the current semester has completed all the missed classes and lectures, and the average score for all topics of the PC is 3 points or higher, in which case the statement is marked "completed" and indicates the average score in 4-point system (is calculated automatically within the functionality of the electronic journal of ACS), or "unfinished", if the applicant in the current semester has unfinished missed classes and lectures, or an average score below 3 points.

Final score for **HDPE** in the semester is defined as the arithmetic mean of national grades for each lesson and PC, rounded to 2 decimal places and converted into a multi-point scale according to Table 1 in accordance with "Instructions for evaluating the educational activities of higher education seekers in KhNMU ».

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General educational activity (CIS) is considered completed if the applicant has completed all the missed classes and lectures, and the average score for all PC topics is equal to 3 points and above. CIS scores for disciplines with the form of control "differentiated credit" are calculated as the arithmetic mean of PC scores for all topics of all semesters, during the entire period of study of the discipline (to the nearest hundredth) according to table 1 "Conversion of average score for current control within the functionality of the electronic journal of the ACS. FAR is defined in points from 70 to 120. FAR is defined in points from 120 to 200.

Table 1

	200-point]	4-point scale	200-point
4-point scale	scale			scale
5	120		3.91-3.94	94
4.95-4.99	119		3.87-3.9	93
4.91-4.94	118		3.83- 3.86	92
4.87-4.9	117		3.79- 3.82	91
4.83-4.86	116		3.74-3.78	90
4.79-4.82	115		3.7- 3.73	89
4.75-4.78	114		3.66- 3.69	88
4.7-4.74	113		3.62-3.65	87
4.66-4.69	112		3.58-3.61	86
4.62-4.65	111		3.54- 3.57	85
4.58-4.61	110		3.49- 3.53	84
4.54-4.57	109		3.45-3.48	83
4.5-4.53	108		3.41-3.44	82
4.45-4.49	107		3.37-3.4	81
4.41-4.44	106		3.33- 3.36	80
4.37-4.4	105		3.29-3.32	79
4.33-4.36	104		3.25-3.28	78
4.29-4.32	103		3.21-3.24	77
4.25-4.28	102		3.18-3.2	76
4.2-4.24	101		3.15-3.17	75
4.16-4.19	100		3.13- 3.14	74
4.12-4.15	99]	3.1-3.12	73
4.08-4.11	98]	3.07- 3.09	72
4.04- 4.07	97]	3.04-3.06	71
3.99-4.03	96]	3.0-3.03	70
3.95- 3.98	95		Less 3	Not enough

Recalculation of the average score for current activities in a multi-point scale (for disciplines ending in d / c)

13.2. Conducting and evaluating differentiated credit. For disciplines, the form of control is "differentiated credit" it is assumed that the admission to the DR is calculated in points of CIS from 70 to 120 points. Directly DZ is estimated from 50 to 80 points.

Differentiated credit is made by the teacher of the group, or another teacher of the department at the last practical lesson, the score is recalculated according to tables 5 and 6, according to "Instructions for evaluating the educational activities of higher education seekers in KhNMU.

Criteria for scoring practical skills, which are included in differentiated tests

Number of skills	«5»	«4»	«3»	The answer to the tickets of the practical part	For each practical skill the student receives from 5 to 8 points, which corresponds to:
1	8	6.5	5		"5" - 8 points;
2	8	6.5	5		"4" - 6.5 points;
3	8	6.5	5		"3" - 5 points.
4	8	6.5	5		
5	8	6.5	5		
	40	32.5	25		

Table 6

Criteria for scoring theoretical knowledge, which are included in differentiated tests

Number of questions	«5»	«4»	«3»	Oral answer for tickets, which include the theoretical part of the discipline	For each answer the student receives from 5 to 8 points, which
1	8	6.5	5		corresponds to:
2	8	6.5	5		"5" - 8 points;
3	8	6.5	5		"4" - 6.5 points;
4	8	6.5	5		"3" - 5 points.
5	8	6.5	5		
	40	32.5	25		

13.3.Evaluation of the discipline

For disciplines, the form of control is "differentiated credit" it is assumed that the admission to the DR is calculated in points of CIS from 70 to 120 points. Directly DZ is estimated from 50 to 80 points. The grade in the discipline is the sum of points for ZND, IZZ and DZ and ranges from 120 to 200 points.

After conducting semester control for the discipline, ending with the form of control "differentiated test", responsible for the organization of educational and methodical work at the department or the teacher is exhibited to the applicant the relevant assessment according to table 3 "Assessment scale in KhNMU", which is attached (Annex 3) to the individual curriculum of the student and fills in the progress of the discipline, according to "Instructions for evaluating the educational activities of higher education seekers in KhNMU "from 21.08.2021 N 181.

Table 3

Rating	Assessment on the ECTS	Score for
on a 200-point scale	scale	four-point scale
180–200	AND	Perfectly
160–179	IN	Fine
150–159	WITH	Fine
130–149	D	Satisfactorily
120–129	Е	Satisfactorily
Less than 120	F, Fx	Unsatisfactorily

Evaluation scale at KhNMU

3.2. Questions for credit and exam: Semester 9 "Orthopedic methods of treatment of diseases of the dental apparatus"

- 1. Methods of examination of the patient in the clinic of orthopedic dentistry. Medical history
- 2. Plan and tasks of orthopedic treatment
- 3. Types and tasks of prosthetics
- 4. Indications and scope of surgical preparation of the oral cavity for prosthetics
- 5. Indications for therapeutic training of abutment teeth
- 6. Orthodontic methods of preparing the oral cavity for prosthetics

- 7. Indications and contraindications to the manufacture of metal-ceramic structures
- 8. Sequence and rules of tooth preparation. Choice of tools. Forms of ledges
- 9. Choice of ash edge retraction method (mechanical, chemical, surgical and combined), in depending on the clinical situation
- 10. Accurate imprint technology. The choice of impression masses
- 11. Classification of metal alloys, precious and base metals, their advantages and

shortcomings, clinical significance

- 12. The value of the coefficient of thermal expansion when choosing ceramic masses
- 13. Connection of ceramic mass with metal by means of mechanical retention, chemical interaction and compression stress
- 14. Methods of surface preparation of a metal framework (grinding of a surface, heating at incomplete vacuum, acid pickling, heating in air)
- 15. Stages of layer-by-layer application of ceramic masses, the process of their sintering
- 16. Evaluation of the finished metal-ceramic structure. Possible errors and complications on
- different stages of manufacture, ways to prevent them and methods of elimination
- 17. Classification of dental defects (Kurylenko, Black). Index of destruction of the occlusal surface of the tooth (Milikevich)
- 18. Indications for the manufacture of veneers. Requirements. Comparative characteristics of veneers made by different technologies
- 19. General principles of preparation of teeth for veneers
- 20. Preparation of teeth for veneers in different clinical situations. Clinical and laboratory

stages of prosthetics with veneers

- 21. CAD / CAM manufacturing technology
- 22. Manufacturing technology on refractory models
- 23. Technology of making press ceramics
- 24. Fixation of veneers (adhesive technique of fixing on composite cements)
- 25. General principles of forming cavities for tabs. Formation of cavities I, II, III,
- IV, V class for Blak
- 26. Tab designs (inlay, online, overlay, reinlay). Clinical and laboratory stages
- prosthetics with cast metal inserts
- 27. Indications and contraindications to the replacement of defects in the hard tissues of the teeth, ceramic inlays, crowns technology of their manufacture
- 28. Cast and collapsible cast stump tabs: manufacturing technology and indications for use
- 29. Standard (anchor) pins, their classification, indications for use
- 30. Fiberglass, standard pins: indications and application technology
- 31. Indications and contraindications to the replacement of dentition defects with fixed structures
- 32. Biomechanics of bridges. Requirements and choice of abutment teeth for non-removable

bridge structures

- 33. Designs of bridge prostheses
- 34. Indications and clinical and laboratory stages of production of solid and
- metal-ceramic bridges
- 35. Errors and possible complications of fixed prosthetics
- 36. Temporary prosthetic indications and methods. Clinical and laboratory stages of manufacture

37. Requirements for temporary crowns. Comparative characteristics of different methods making temporary crowns

- 38. Clinical and laboratory stages of making temporary crowns
- 39. There may be complications in the preparation of hard tissues of the teeth and ways to prevent them.
- 40. Periodontal aspects of tooth preparation. Criteria for healthy gums
- 41. Methods of gum retraction. Methods of subgingival preparation

42. The location of the edges of the crowns depending on the type of artificial crown (stamped, cast, cast combined)

- 43. Factors that affect the quality of fixation of a fixed structure
- 44. Fixation of temporary structures by different types of fixing cements

45. Indications and contraindications to the manufacture of various designs of partial removable prostheses (plate, clasp, combined)

- 46. Biomechanics of functioning of a partial removable prosthesis
- 47. Design features of different types of partial removable dentures and methods of their fixation
- 48. The choice of support elements when planning the design of a partial removable prosthesis,
- preparation of abutment teeth, determination of denture boundaries.
- 49. Stages of manufacturing a partial removable prosthesis. Planning the frame of the clasp prosthesis
- 50. Parallelometry is a goal and a task. Methods of parallelometry. Types of parallelometers
- 51. Technology of making a cast frame of a clasp prosthesis on a refractory model
- 52. Milling. Types of lock fastenings
- 53. Requirements for the frame of the clasp prosthesis
- 54. Materials and technological features of manufacturing partial removable prostheses
- 55. Errors and complications in the restoration of dentition defects partially removable prostheses
- 56. Partial absence of teeth which is complicated by deformation of dentitions; morphological and functional changes of the dental apparatus
- 57. Mechanisms of formation of dental deformities. Clinical forms of deformities that arose due to the partial absence of teeth
- 58. Preparation of the dental system for prosthetics in the presence of dental
- deformations (prosthetic, surgical, orthodontic
- 59. Etiology and pathogenesis of pathological abrasion of the hard tissues of the teeth. Morphological features of human teeth in norm and at their pathological abrasion
- 60. Clinical manifestations of excessive abrasion of teeth. Classifications of pathological abrasion of teeth (Grozovsky, Courland, Gavrilov, Bushan)
- 61. Diagnosis of excessive abrasion of teeth and its complications. Compensated and decompensated forms
- 62. Complications of pathological abrasion of the teeth, which is accompanied by a decrease interalveolar height and TMJ dysfunction
- 63. Orthopedic treatment of pathological abrasion of the hard tissue of the teeth, depending on clinical forms and complications
- 64. Traumatic occlusion. Morphological and functional changes in the dental apparatus in the presence of traumatic occlusion
- 65. Diagnosis of traumatic occlusion. Clinical signs of traumatic occlusion
- 66. Etiology, clinic and treatment of direct traumatic node
- 67. Etiology, clinic and treatment of the reflected traumatic node
- 68. Indications, sequence and rules of selective grinding of teeth
- 69. Types of supercontacts. Supercontacts on the working and balancing side
- 70. The value of selective grinding for the prevention of functional
- overload of teeth
- 71. Anatomical and physiological characteristics of the masticatory apparatus in diseases of
- periodontitis and periodontitis
- 72. Classification of periodontal tissue diseases
- 73. Examination of a patient with periodontitis and periodontitis
- 74. Courland's odontoparodontogram: the concept of functional pathology; reserve and residual capacity of the periodontium
- 75. Types of dentition stabilization. Biomechanical bases of teeth splinting
- 76. Tasks of orthopedic interventions in the complex treatment of periodontal diseases
- 77. Preliminary preparation of dentitions before prosthetics. Temporary splinting. Types and indications for use
- 78. Etiology, diagnosis, clinic and orthopedic methods of localized treatment

periodontitis. The role of local factors

80. Etiology, diagnosis, clinic and orthopedic methods of generalized treatment

periodontitis and periodontitis

- 81. Indications and clinical and technological stages of manufacturing non-removable solid tires and prosthetic tires
- 82. Direct prosthetics. Indications, clinical and technological stages of manufacture and use of immediate prostheses
- 83. Errors and complications in the treatment of patients with periodontitis and periodontitis
- 84. Etiology and pathogenesis of TMJ dysfunction
- 85. Leading clinical symptoms and syndromes in occlusive articulation syndrome
- 86. Leading clinical symptoms and syndromes in neuromuscular syndrome
- 87. Types of displacement of articular heads (hypermobility, dislocation, subluxation)
- 88. Types of displacement of the articular disc (subluxation, dislocation, prolapse)
- 89. Clinical signs of dysfunctional conditions
- 90. Tactics of management of the patient with TMJ dysfunctions. Methods of orthopedic treatment
- 91. Caps, their classification, indications for use. Prevention of TMJ dysfunctions

Semester 10 "Subordination"

- 1. Clinical and functional methods of examination. Occlusiography. Axiography
- 2. Additional examination methods: radiography, galvanometry, electromyography, rheography, electroodontodiagnostics, gnathodynamometry, diagnostic models, periotest
- 3. Orthopedic dentistry. Definition of academic discipline, its purpose, tasks. The main directions of development of this science. The contribution of the staff of the department to the development of orthopedic dentistry
- 4. Diagnosis in orthopedic dentistry. Methods of examination of the patient Components of the diagnosis (etiological, functional, anatomical)
- 5. Methods of examination of the patient in the clinic of orthopedic dentistry. Medical history
- 6. X-ray research methods, techniques, informativeness for establishing the final diagnosis
- 7. Electromyography, methods, informativeness at the stages of orthopedic treatment
- 8. Gnatodynamometry. Reserve and residual capacity of the periodontium, practical significance. Static and dynamic methods for determining the effectiveness of chewing
- 9. Functional methods of chewing apparatus research
- 10. Preparation of the oral cavity for dental prosthetics, types of surgical, therapeutic, orthodontic, orthopedic, psychological) their scope and significance
- 11. Classification of dentition defects according to Bethelman, Kennedy. Their importance in the clinic of orthopedic dentistry
- 12. Bite. Physiological and pathological occlusion, their characteristics
- 13. Mobility and pliability of the oral mucosa. Classifications and meanings for removable prosthetics
- 14. Marginal periodontium. Anatomy of the gingival junction. Structure, functions and meanings.
- 15. Anatomy of the lower and upper jaws, their functional features
- 16. Components of the masticatory system and their functional interaction
- 17. Chewing muscle groups and their functions are normal. The phenomenon of coordinated antagonism, synergism in the work of the masticatory muscles
- 18. Facial muscles and its functions
- 19. Relative physiological rest of masticatory muscles, its value in the clinic of orthopedic dentistry
- 20. Neuromuscular system. Reflexes of the dental apparatus. The concept of periodontomuscular, gingivomuscular and myostatic reflexes. Their significance
- 21. Anatomical features of the temporomandibular joint. Basic structural elements and their functional significance
- 22. Articulation. Movements of the mandible in the sagittal plane and transverse. The main parameters of these movements
- 23. Movements of the lower jaw in the vertical, sagittal and transverse directions. Phases of masticatory movements according to Giza

- 24. The mechanism of movements of the lower jaw in the sagittal direction. Cutter and joint pathways, their relationship. The Christensen phenomenon. Significance in the design of complete removable dentures
- 25. Movements of the lower jaw in the transverse direction (Bennett's angle, the ratio of the dentition)
- 26. Sagittal and transverse occlusal curves, their importance in the design of artificial dentitions in the manufacture of complete removable dentures. Working and balancing parties (characteristics of occlusal contacts)
- 27. Methods of recording (registration) of mandibular movements (intraoral, extraoral)
- 28. Biomechanics of mandibular movements, its significance for the design of dentures. Definition of the concepts "articulation", "occlusion" and their meaning for the construction of dentures
- 29. The structure of the dentition. The concept of dental, alveolar and basal arches. Occlusal curves (Spee and Wilson).
- 30. Factors that ensure the stability of the teeth
- 31. Anatomy of the occlusal surface of teeth and dentitions. Occlusal contacts of teeth
- 32. Occlusion factors (articular path; Bennett's movement; occlusal plane Spee, Wilson; occlusion morphology; incisal path; distance between articular heads)
- 33. Structure and functions of the periodontium. Chewing pressure transformation
- 34. Structure and functions of the periodontium. Tooth mobility, diagnostic value. Periotest
- 35. Types of occlusion. Contacts of teeth at the central occlusion. The ratio of anterior and angular teeth in the position of central occlusion
- 36. Occlusal concepts in different types of prosthetics. Restoration of functional occlusion in various types of prosthetics
- 37. Contacts of teeth when extending the lower jaw to the front and its lateral movements. Premature contacts supracontacts
- 38. The main provisions of the articular theory of mandibular articulation and its practical significance
- 39. The main provisions of the spherical theory of articulation and its practical significance
- 40. Theory of articulatory equilibrium, basic provisions
- 41. Articulators. Purpose, types, basic principles of work. (average anatomical, semi-regulated)
- 42. Pain. Anesthesia. Methods of anesthesia in orthopedic dentistry. Medical and pharmacological analgesics
- 43. Possible errors and complications of analgesia (dizziness, collapse, anaphylactic shock), clinical signs, the amount of emergency care
- 44. Asepsis and antiseptics in the clinic of orthopedic dentistry
- 45. Disinfection and sterilization of instruments, prints. Preventing the spread of infectious diseases in the dental clinic
- 46. Imprints and their classification. Requirements for impression materials
- 47. Imprint materials. Requirements for them. Characteristics of thermoplastic impression materials, indications for their use
- 48. Imprint materials. Requirements for them. Characteristics of elastic impression materials, indications for their use
- 49. Imprint materials. Requirements for them. Characteristics of silicone impression materials, indications for their use
- 50. Complications in obtaining fingerprints and their prevention
- 51. Methods for determining masticatory efficiency (static and dynamic)
- 52. Preliminary treatment before prosthetics. Preparation of the oral cavity. Types and tasks of prosthetics
- 53. Classification of dental defects (Kurylenko, Black). Index of destruction of the occlusal surface of the tooth (Milikevich)
- 54. General principles of forming cavities for tabs. Tab designs (inlay, onlay, overlay, pinlay)
- 55. Clinical and laboratory stages of prosthetic prosthetics
- 56. Indications and contraindications to the replacement of defects of hard fabrics with cast metal, ceramic tabs, technology of their manufacture
- 57. Cast and collapsible cast stump tabs: manufacturing technology and indications for use
- 58. Standard (anchor) pins, their classification, indications for use
- 59. Fiberglass and standard pins: indications and application technology
- 60. The method of electroplating

- 61. Tabs on refractory models
- 62. Indications for the manufacture of artificial crowns. Requirements for artificial crowns. Comparative characteristics of artificial crowns (metal, plastic, composite, ceramic, metal-ceramic)
- 63. Classifications of artificial crowns. Clinical and laboratory stages of production of crowns (stamped metal and combined, metal cast and combined, plastic, composite, ceramic, metal-ceramic, metal-free)
- 64. Provisional crowns, indications for their use. Manufacturing methods.
- 65. Types of preparation of teeth for artificial crowns. Influence of tooth preparation on tooth structure and function
- 66. Possible complications of tooth preparation and ways to prevent them
- 67. Periodontal aspects of tooth preparation. Criteria for healthy gums, methods of subgingival preparation. Methods of gum retraction
- 68. Types of ledges. Choice depending on the type of artificial crown
- 69. The location of the edges of the crowns depending on the type of artificial crown. The problem of marginal fit of artificial crowns
- 70. Factors that affect the quality of fixation of a fixed structure. Types of fixing cements (zinc-phosphate, glass ionomer, carboxylate, composite)
- 71. CAD / CAM manufacturing technology
- 72. Manufacturing technology on refractory models
- 73. Technology of making press ceramics
- 74. Indications and contraindications to the replacement of dentition defects with non-removable (bridge-like) structures
- 75. Biomechanics of bridges. Requirements and selection of abutment teeth for fixed bridge structures
- 76. Preparation of abutment teeth for the manufacture of bridges
- 77. Constructions of bridges. Indications and clinical and laboratory stages of manufacturing stamped-soldered bridges; solid cast bridges, metal-ceramic bridges, adhesive
- 78. Errors and possible complications of fixed prosthetics
- 79. Indications and contraindications to the manufacture of various designs of partial removable dentures (plate, clasp, combined)
- 80. Biomechanics of functioning of a partial removable prosthesis. Chewing load distribution in orthopedic treatment with removable prostheses with different fixation systems (bent retaining bracket, support-retaining cast bracket, telescopic crowns, locks)
- 81. Anatomical and physiological features of the oral cavity with partial loss of teeth
- 82. Selection and substantiation of designs of partial removable dentures with included and distally unrestricted dentition defects
- 83. Obtaining impressions in the manufacture of partial removable dentures. Imprint requirements
- 84. Methods of fixation of partial removable prostheses. The role of biophysical and mechanical methods of strengthening removable prostheses
- 85. Support teeth, their importance for fixing dentures. Clasp line. Point, linear and planar reinforcement of prostheses. Selection of abutment teeth
- 86. Classification of staples. Methods of connecting clasps with prostheses
- 87. Values of anatomical retention elements for fixation of partial removable prostheses. Clampless prostheses. Indications for their use
- 88. Determination and fixation of central occlusion in groups I and II of dentition defects
- 89. Determination and fixation of central occlusion in group III dentition defects
- 90. Choice of denture design in the presence of one tooth on the upper or lower jaws
- 91. Laboratory stages of manufacturing partial removable dentures. Materials used for this purpose
- 92. Indications for the manufacture of partial removable dentures with a metal base. Clinical and laboratory stages of manufacture
- 93. Casting of metal frames. Metal alloys. Shrinkage compensation of metals
- 94. Replacement of dentition defects with clasp dentures. Indications and contraindications to the manufacture of clasp prostheses. Structural elements of clasp prostheses and their significance
- 95. Diagnostic models. Requirements for them, manufacturing rules. Planning the design of clasp prostheses

- 96. Parallelometry. Purpose, task. Methods of parallelometry. Selection of abutment teeth
- 97. Stages of parallelometry
- 98. Staples. Indications for their use. Classification. Components of staples
- 99. Ney staple system. Indications for the use of different types of staples
- 100. Attachments. Classification. Indications for use
- 101. Casting of clasp prosthesis frames on refractory models. Duplication of models. Duplicate materials
- 102. Shrinkage compensation of metals. Molding masses. Metal alloys for the manufacture of clasp prostheses
- 103. The shape, size and position of the arch of the clasp prosthesis on the upper and lower jaws depending on the topography of the defect of the dentition
- 104. Fitting the frame of the clasp prosthesis. Requirements for a solid frame.
- 105. Imposition and correction of a partial removable prosthesis
- 106. Mechanism and terms of adaptation to partial removable prostheses. Rules of use of partial removable prostheses
- 107. The effect of removable dentures on the tissues of the oral cavity. Diagnosis, clinic and treatment of prosthetic stomatitis
- 108. Methods of placing teeth with partial removable prosthetics
- 109. Artificial teeth. Methods of manufacture, materials. Rules of selection of artificial teeth for placement in removable dentures
- 110. Rules for setting artificial teeth. Fixation in the base of a removable prosthesis
- 111. Compression pressing of plastics. Materials, equipment. Methods of plastering models in a ditch, plastic packaging
- 112. Plastic packaging by injection molding. Plastering of models in a ditch. Properties of plastic for packaging
- 113. Stages of polymerization of plastics. Preparation of plastic for packaging
- 114. Polymerization modes. Insulating materials
- 115. Laboratory stages of manufacturing partial removable prostheses from thermoplastic materials. Comparative characteristics of prostheses with plastic and thermoplastic base
- 116. Materials used for the manufacture of removable dentures. Acrylic plastics. Thermoplastic materials. Composition, method of application. Positive and negative properties
- 117. Evaluation of the quality of polymerization of base materials. Porosity, types, causes and methods of elimination
- 118. Features of obtaining prints, making a working model and registration of central occlusion
- 119. Errors and complications in the restoration of dentition defects with partial removable dentures
- 120. Etiology and pathogenesis of abrasion of hard tissues of teeth. Morphological features of human teeth are normal and in their pathological abrasion
- 121. Clinical manifestations of pathological abrasion of teeth. Classifications of pathological abrasion of teeth (Grozovsky, Courland, Gavrilov, Bushan)
- 122. Diagnosis of pathological abrasion of the hard tissues of the teeth. (compensated and decompensated forms)
- 123. Complications of pathological abrasion of the teeth, which is accompanied by a decrease in interalveolar height and TMJ dysfunction
- 124. Orthopedic treatment of pathological abrasion of hard tissues of teeth depending on clinical forms and complications
- 125. Anatomical and physiological characteristics of the masticatory apparatus in diseases of periodontitis and periodontitis
- 126. Classification of periodontal tissue diseases
- 127. Examination of a patient with periodontitis and periodontitis
- 128. Courland's odontoparodontogram: the concept of functional pathology; reserve and residual capacity of the periodontium
- 129. Types of dentition stabilization. Biomechanical bases of teeth splinting
- 130. Tasks of orthopedic interventions in the complex treatment of periodontal diseases
- 131. Preliminary preparation of dentitions before prosthetics. Temporary splinting
- 132. Etiology, diagnosis, clinic and orthopedic methods of treatment of localized periodontitis
- 133. Removable and non-removable structures of dentures in the complex treatment of localized periodontitis

- 135. Indications and clinical and technological stages of manufacturing non-removable solid tires and prosthetic tires
- 136. Direct prosthetics. Indications, clinical and technological stages of manufacture and use of direct prostheses
- 137. Errors and complications in the treatment of patients with periodontitis and periodontitis
- 138. Investigation of occlusal-articulatory relations. Indications, sequence and methods of selective grinding of teeth
- 139. Types of supercontacts. Supercontacts on the working and balancing side
- 140. Selective grinding to prevent functional overload of teeth
- 141. Partial absence of teeth which is complicated by deformation of dentitions; morphological and functional changes of the dental apparatus
- 142. Mechanisms of formation of dental deformities. Clinical forms of deformities caused by partial absence of teeth. Theory of articulatory equilibrium
- 143. Preparation of the dental system for prosthetics in the presence of dental deformities (prosthetic, surgical, orthodontic
- 144. Clinical and morphological features of the dental system in the complete absence of teeth
- 145. Classifications of atrophy of the alveolar process. (after Schroeder, Keller, Oxman)
- 146. Methods of fixing prostheses on edentulous jaws
- 147. Methods of obtaining functional prints from edentulous jaws
- 148. Determination of the central ratio of the jaws in the complete absence of teeth
- 149. Placing teeth in full dentures
- 150. Check of a design and imposing of full removable prostheses. The mechanism of adaptation to complete prostheses
- 151. Classification of edentulous jaws. Morphological features of the structure of edentulous jaws, which should be taken into account in the manufacture of complete removable dentures
- 152. Classification of pliability of the mucous membrane of edentulous jaws (Lund, Suple). Buffer zones according to Gavrilov. Values for choosing the method of obtaining prints
- 153. Movable, immobile, passively mobile mucous membrane. Transitional fold. Neutral zone. Topography of the neutral zone on the upper and lower jaws
- 154. Anatomical features of edentulous jaws, which are important for fixing plate removable dentures
- 155. Classification of prints for the manufacture of complete removable dentures (by the height of the edges, the degree of displacement of the mucous membrane). Impression masses, their properties, indications for use
- 156. The boundaries of the prosthetic bed in the manufacture of complete removable prostheses. The concept of "valve zone", its topography
- 157. Fixation, stabilization, balance of complete removable dentures and factors that provide them
- 158. Methods of obtaining functional impressions of edentulous jaws
- 159. One-step method of making individual wax spoons on the upper and lower jaws. Method of obtaining functional prints with their help (Vasylenko's method)
- 160. Herbst's method of functional imprint. Functional tests, their clinical substantiation
- 161. Making hard individual spoons. Fitting of individual spoons according to the Herbst method on the upper and lower jaw (functional tests)
- 162. Compression and decompression prints. Rationale for their receipt
- 163. Method of obtaining functional impressions under masticatory pressure. Indications for use
- 164. Methods of obtaining an imprint with differentiated pressure on the mucous membrane
- 165. Determination of the central ratio of the jaws in the complete absence of teeth
- 166. Manufacturing rules and requirements for wax templates with occlusal rollers
- 167. Determination of the prosthetic plane when determining the central ratio
- 168. Anatomical and anthropometric methods for determining interalveolar height
- 169. Anatomical and physiological method for determining interalveolar height (bite height)
- 170. Aesthetic and functional disorders with changes in interalveolar height
- 171. Fixation of the lower jaw in a neutral position. Samples
- 172. Checking the correctness of determining the central ratio of the jaws

- 173. Guidelines for the installation of artificial teeth
- 174. Classification of devices that reproduce the movements of the lower jaw
- 175. Articular articulation theory (Gizi, Hanau, Bonneville)
- 176. Spherical theory of articulation (Monson, Sapozhnikov)
- 177. Extraoral methods of registration of individual movements of the mandible. (axiography)
- 178. Methods of Efron, Katz, Gelfand
- 179. Placement of artificial teeth in complete dentures
- 180. Anatomical placement of teeth
- 181. Teeth placement according to ME Vasiliev
- 182. Placing teeth on a spherical surface
- 183. Checking the design of complete removable dentures
- 184. Imposition of complete dentures. Adaptation. Rules and recommendations for the use of complete dentures
- 185. Pathological influence of materials used in orthopedic dentistry. Differential diagnosis, treatment and prevention
- 186. Etiology and pathogenesis of TMJ dysfunction. Leading clinical symptoms and syndromes in TMJ dysfunctions (occlusal-articulation syndrome, neuromuscular syndrome, habitual subluxation, dislocation, persistent functional displacement of the mandible, occlusion that decreases)
- 187. Clinical signs of dysfunctional conditions. Melkimo dysfunction index. Data of clinical and special (additional) methods for different clinical variants and complications
- 188. Methods of orthopedic treatment. Caps, their classification, indications for use. Prevention of TMJ dysfunctions
- 189. Organization of dental care in emergencies. Basic principles of staged treatment of the wounded
- 190. The amount of orthopedic care. Stages of evacuation, types and volume of honey. assistance. Dental prosthetics of patients with lesions of the thyroid gland
- 191. General characteristics of maxillofacial devices, their classification, design features. Distribution of devices by function, therapeutic value, by place of attachment
- 192. Types of transport tires. Ligature ligation of teeth
- 193. Etiology and pathogenesis of microstomy. Dentures for microstomy
- 194. Features of fingerprinting in patients with microstomy. Collapsible prostheses, as well as folding prostheses. Folding prosthesis manufacturing technique. Technique of making a collapsible prosthesis
- 195. Classification of fractures of the upper and lower jaws. Features and mechanism of displacement of mandibular fragments depending on the location of the fracture line and its type
- 196. Features of traumatic injuries of the maxillofacial area. Non-gunshot and gunshot wounds
- 197. Transport tires. Ligature binding. See. Indications for use
- 198. Etiology and clinic of microstomy. Dental prosthetics of maxillofacial wounded with microstomy. Features of fingerprinting and fabrication of prosthesis structures

The list of practical skills to be tested during the final module control in orthopedic dentistry.

Semester 9 "Orthopedic methods of treatment of diseases of the dental apparatus"

- 1. Examine the patient. Establish a preliminary and final diagnosis based on survey data (clinical and laboratory)
- 2. Suggest a plan for orthopedic treatment
- 3. Propose a plan to prepare the patient's oral cavity for prosthetics
- 4. Get an anatomical impression of the lower and upper jaws
- 5. To fix the central occlusion at the II group of defects
- 6. Determine and fix the central ratio of the jaws in group III defects
- 7. Preparation of teeth under a solid combined crown
- 8. Fit artificial crowns
- 9. Checking the design of the bridge
- 10. Fit a solid bridge
- 11. Fixation of crowns and bridges
- 12. Checking the design of a partial removable prosthesis

- 14. Correction of partial removable dentures.
- 15. Evaluate the diagnostic model in the parallelometer and plan the design of the clasp prosthesis on the diagnostic model
- 16. Fit the frame of the clasp prosthesis
- 17. Pass the clasp prosthesis
- 18. The choice of the design of the bridge
- 19. Prepare the tooth root to make a cast pin stump and model the stump
- 20. Analyze the odontoparadontogram of the patient
- 21. Carry out selective grinding of teeth
- 22. Occludogram
- 23. Removal of crowns
- 24. Obtaining prints for the manufacture of solid non-removable structures
- 25. Get an imprint with an open spoon
- 26. Preparation of teeth under tabs
- 27. Preparation of teeth for veneers
- 28. Fixing tabbed tabs and veneers

Semester 10 "Subordination"

- 1. Examine the patient. Establish a preliminary and final diagnosis based on survey data (clinical and laboratory)
- 2. To offer the plan of orthopedic treatment
- 3. To offer the plan of preparation of an oral cavity of the patient for prosthetics
- 4. Get an anatomical impression of the lower and upper jaws
- 5. Fitting a hard spoon and getting functional prints when full

lack of teeth

6. To fix the central occlusion at the II group of defects. Identify and record

the central ratio of the jaws in group III and group IV defects

- 7. Anesthesia during tooth preparation
- 8. Preparation of teeth under a metal stamped crown
- 9. Preparation of teeth under a solid combined crown
- 10. Fit artificial crowns
- 11. Checking the design of the bridge
- 12. Fit a solid bridge
- 13. Fixation of crowns and bridges
- 14. Check of a design of a partial and full removable prosthesis
- 15. To hand over partial or full removable prostheses
- 16. Correction of partial or complete removable dentures
- 17. Evaluate the diagnostic model in the parallelometer and plan the design of the clasp prosthesis on the diagnostic model
- 18. Fit the frame of the clasp prosthesis
- 19. Pass the clasp prosthesis
- 20. Placing teeth according to the method of Vasiliev
- 21. The choice of the design of the bridge
- 22. Ivy and Limberg ligature ligation of teeth
- 23. Prepare the root of the tooth to make a cast pin stump and hold stump simulation
- 24. Analyze the odontoparadontogram of the patient
- 25. Carry out selective grinding of teeth
- 26. Alignment of the occlusal curve by means of grinding teeth
- 27. Alignment of the occlusal curve with an orthodontic tool
- 28. Occludogram
- 29. Removal of crowns
- 30. Obtaining prints for the manufacture of solid non-removable structures

31. Prosthetics using implants

32. Preparation of teeth under tabs

33. Preparation of teeth for veneers

34. Fixing of veneer tabs.

LIST OF PRACTICAL SKILLS TO BE SUBJECTED CHECKS DURING COMPILATION OF THE PRACTICAL-ORIENTED STATE EXAM IN ORTHOPEDIC DENTISTRY

1. Examine the patient. Establish a preliminary and final diagnosis on the basis

survey data (clinical and laboratory)

2. To offer the plan of orthopedic treatment

3. To offer the plan of preparation of an oral cavity of the patient for prosthetics

4. Get an anatomical impression of the lower and upper jaws

5. Fitting a hard spoon and getting functional prints when full

lack of teeth

6. To fix the central occlusion at the II group of defects. Identify and record

the central ratio of the jaws in group III and group IV defects

- 7. Anesthesia during tooth preparation
- 8. Preparation of teeth under a metal stamped crown
- 9. Preparation of teeth under a solid combined crown

10. Fit artificial crowns

- 11. Checking the design of the bridge
- 12. Fit a solid bridge
- 13. Fixation of crowns and bridges
- 14. Check of a design of a partial and full removable prosthesis
- 15. To hand over partial or full removable prostheses
- 16. Correction of partial or complete removable dentures
- 17. Evaluate the diagnostic model in the parallelometer and plan the design of the clasp
- prosthesis on a diagnostic model
- 18. Fit the frame of the clasp prosthesis
- 19. Pass the clasp prosthesis
- 20. Placing teeth according to the method of Vasiliev
- 21. The choice of the design of the bridge
- 22. Ivy and Limberg ligature ligation of teeth
- 23. Prepare the root of the tooth to make a cast pin stump and hold

stump simulation

- 24. Analyze the odontoparadontogram of the patient
- 25. Carry out selective grinding of teeth
- 26. Alignment of the occlusal curve by means of grinding teeth
- 27. Alignment of the occlusal curve with an orthodontic tool
- 28. Occludogram
- 29. Removal of crowns
- 30. Obtaining prints for the manufacture of solid non-removable structures
- 31. Prosthetics using implants
- 32. Preparation of teeth under tabs
- 33. Preparation of teeth for veneers
- 34. Fixing of veneer tabs

LIST OF QUESTIONS FOR DIFFERENTIAL CREDIT FROM THE DISCIPLINE "ORTHOPEDIC DENTISTRY" PROGRAM

differentiated test in orthopedic dentistry for 5th year students of the dental faculty

1. Biomechanics of the mandible.

2. Morphological and functional changes in the TMJ with increased abrasion of the teeth.

3. Preparation of teeth for veneers made according to the CEREC method.

4. Etiology and pathogenesis of increased abrasion of the hard tissues of the teeth.

5. Biological and clinical justifications for choosing a method of treatment with clasp prostheses. Parts of the clasp prosthesis design and their characteristics.

6. The problem of stabilization of removable plate prosthetic structures on beds with complete adentia, their practical significance. The laws of articulation of Bonneville, Giza, and others.

7. Clinical picture of the compensated form of the increased attrition.

8. Partial adentia. The choice of abutment teeth for clamp fixation. Defining the boundaries of the basis. Selection of artificial teeth and method of their installation.

9. Impressions of the prosthetic bed. Classification. The difference between a functional imprint and an anatomical one. Methods of obtaining a functional imprint.

10. Fitting and imposition of a clasp prosthesis. Phases of adaptation. Hygienic bases of prosthesis storage.

11. Examination of a patient with complete adentia. Formulation of the diagnosis. Registration of medical history.

12. Methods of preparation of a dental patient for orthopedic treatment. Fundamentals of medical ethics and deontology.

13. Methods of making tabs. Clinical and laboratory stages of treatment with porcelain tabs.

14. Diseases of periodontal tissues. Clinic. Indications for splinting of movable teeth with fixed structures. Tire designs. Clinical and laboratory stages of treatment with crown and cap structures.

15. Types of pathological bites, their characteristics.

16. Partial removable plate structures. Terms of orthopedic treatment. Types of prostheses and their characteristics.

17. Types of stabilization of dentitions in generalized forms of periodontitis. Designs of removable tires. Clinical and laboratory stages of treatment.

18. X-ray picture of TMJ diseases.

19. Orthopedic methods of periodontal treatment: temporary splinting, orthodontic treatment, direct prosthetics and splinting, permanent splinting.

20. The structure and functions of the TMJ.

21. Design features of caps used to rearrange myotatic reflexes, their significance.

22. Method of obtaining impressions with elastic materials as a stage of treatment with splint-prostheses. Possible complications. Emergency aid. Prevention.

23. Technology of production of solid frames of clasp prostheses. Clinical and laboratory stages of treatment.

24. Clinical picture of the compensated form of the increased attrition.

25. Partial adentia. The choice of abutment teeth for clamp fixation. Defining the boundaries of the basis. Selection of artificial teeth and method of their installation.

26. Impressions of the prosthetic bed. Classification. The difference between a functional imprint and an anatomical one. Methods of obtaining a functional imprint.

27. The concept of "occlusion", "articulation". Traumatic occlusion and its effect on periodontal tissues. Traumatic nodes. Clinic. Diagnosis. Orthopedic treatment.

28. Indications for the use of pin structures of teeth.

29. Causes of inflammatory processes of the mucous membrane under the intermediate part of the bridge and at the edge of the supporting crowns. Indications for removal of a fixed bridge. Method.

30. Examination of a patient with periodontal disease. Odontoparodontogram. Analysis and its role in the complex treatment of periodontal diseases.

31. Clinical and laboratory stages of treatment with metal-plastic crowns.

32. Methods for determining the Christensen phenomenon and its elimination in determining the central ratio.

33. Biomechanical bases of splinting.

34. Verification of the design and method of fixation / cementation / bridges. Causes of cementation of the bridge. Prevention.

35. Fixing elements of clasp prostheses. Characteristic. Staple system Her. The choice of brackets depends on the defects of the dentition and the condition of periodontal tissues.

36. Features of examination of patients with periodontal disease.

37. Partial adentia. Types of dentures. Comparative characteristics of their positive and negative properties.

38. Possible complications when using removable plastic prostheses. Methods of repairing the base, welding the tooth, relocation, re-articulation.

39. Clinical picture of the decompensated form of the increased attrition.

40. Stainless steel bridges with a combined intermediate part. Characteristic. Indications for manufacture. Clinical and laboratory stages of orthopedic treatment.

41. Designs of bridges and their choice depending on the nature of the pathology of the dental-maxillary system.

42. Methods of fixation and stabilization of complete removable plate prostheses and the factors that provide them.

43. Classification of functional prints according to the degree of squeezing of the mucous membrane. Methods of obtaining functional-absorbing impressions in the conditions of using the force of masticatory muscles.

44. Differential diagnosis of TMJ diseases.

45. Features of construction of a partial lamellar prosthesis depending on the location of the defect of the dentition and the anatomy of the jaw.

46. Localized form of periodontitis. Orthopedic methods of treatment. Indication. Tire designs.

47. Bite. Definition. Classification. Functional and morphological characteristics of orthognathic occlusion.

48. Clinical and laboratory stages of treatment of patients with complete adentia with plate prostheses.

49. Clinic and diagnosis of periodontitis complicated by height reduction and occlusion deformation. Principles of prevention and orthopedic treatment.

50. Biomechanics of a clasp prosthesis: statics and dynamics of "included" and "final" saddle. Types of connection of brackets with a framework.

51. Anatomical setting of teeth. Methods of individualization of teeth placement in complete removable dentures.

52. Classification of removable and non-removable tires.

53. Motivation of methods of direct prosthetics. Functions of direct prosthesis.

54. Crowns for support-holding clamps and attachments. Characteristic. Indications for the use of telescopic crowns. Features of tooth preparation for these types of fixing elements.

55. Dispensary registration of patients with periodontal diseases.

56. Clinical and clinical-laboratory methods of transformation of removable direct prostheses.

57. Methods of determination and fixation of central occlusion in the treatment of bridge structures.

58. Construction of artificial dentitions in the articulator and occluder on glass and on individual occlusal curves. Comparative characteristics of production methods.

59. Orthopedic treatment of parafunctions of facial, masticatory and tongue muscles.

60. Comparative characteristics of the design of clasp dentures in I, II, III classes of defects of the dentition according to Kennedy.

61. Imposition of a complete plate structure on the prosthetic bed. Recommendations to the patient on use according to periods of adaptation. Articulation correction technique.

62. Materials for fixing fixed prostheses. Characteristic. Method of preparation of cement for fixing fixed prostheses. Possible complications, causes and prevention.

63. Possible complications in the treatment of clasp prostheses. Reasons. Prevention.

64. Functional pathology according to V. Yu. Courland. Types of traumatic nodes. Orthopedic treatment. Methods of selective grinding of teeth.

65. Orthopedic treatment of osteoarthritis of the TMJ.

66. Planning the design of the frame of the clasp prosthesis depending on the location and length of the defect of the dentition and the anatomical features of the prosthetic bed.

67. Odontoparodontography in persons with periodontal disease. Physiological bases, analysis of an odontoparodontogram. Advantages and disadvantages.

68. The mode of polymerization of plastics in an anhydrous medium under air pressure.

69. Fixation of partial removable dentures. Staples and their characteristics. Clasp lines.

70. Periodontitis and periodontitis. Clinic. Differential diagnosis. Indications for splinting of movable teeth with removable structures.

71. Types of toothless jaws. Factors contributing to the development of atrophy and their prevention. Classification.

72. Orthopedic treatment in the complex therapy of periodontitis and periodontitis. Classification of tires.

73. Methods of complex treatment of increased abrasion.

74. Treatment with complete adentia with dentures with porcelain teeth. Indication. Positive and negative properties.

75. Organization of the workplace of a dentist-orthopedist, safety, basics of occupational hygiene and prevention of occupational diseases of a dentist. Outpatient reception of patients in the department of orthopedic dentistry.

76. Non-removable bridges with a combined intermediate part. Characteristics, indications for manufacture. Clinical and laboratory stages of treatment.

77. Determination of central occlusion in I, II, III and IV groups of Betelmann defects.

78. Alginate impression materials. Characteristic. Methods of obtaining impressions and casting of gypsum models.

79. Crowns from porcelain. Characteristic. Construction materials. Indications for use. Clinical and laboratory stages of orthopedic treatment.

80. Direct prosthetics of dentition defects of patients with periodontal diseases. Indications, technology of implementation, preventive significance of the method.

81. Classification of TMJ diseases.

82. Stump tabs with a pin. Characteristic. Indications for manufacture. Clinical and laboratory stages of manufacture.

83. Clinical and laboratory stages of treatment of partial tooth loss with removable plate structures.

84. Thermoplastic impression materials. Characteristic. Methods of obtaining impressions of the prosthetic bed and casting of plaster models.

85. Preparation of the gingival stump of the root part of the tooth depending on the design of the crown with a pin. Complication. Reasons. Prevention.

86. Functional chewing test according to SE Gelman. Methods of conducting.

87. Combined method of making a tab. Clinical and laboratory stages of orthopedic treatment with plastic tabs.

88. Imposition of partial removable plate structures on the prosthetic bed. Methods of their correction. Recommendations to the patient. Phases of adaptation to dentures.

89. General principles, features and aesthetic aspects of preparation in the manufacture of veneers.

90. Features of construction of fixed bridges depending on the defect of the dentition, the condition of the abutment teeth and their antagonists.

91. Clinical picture of the generalized form of the increased attrition.

92. Features of preparation of abutment teeth for the manufacture of bridges. Requirements for the stump of the teeth under the supporting elements of the bridge. Possible complications. Reasons. Prevention.

93. Classification of clinical forms of increased attrition.

94. Combined crowns. Characteristic. Construction materials. Indications for use. Clinical and laboratory stages of orthopedic treatment.

95. Apparatus that reproduce the movements of the lower jaw.

96. Total defect of the crown of the tooth. Etiology. Pathogenesis. Clinic. Indications for treatment with pin structures.

97. Clinical and laboratory stages of treatment of patients with partial adentia with direct prostheses.

98. The main anatomically oriented groups of teeth and their anatomical and functional characteristics.

99. Method of tooth preparation for full metal stamped crown and anesthesia. Requirements for the stump of the prepared tooth.

100. Possible complications when using partial plate prostheses. Method of clasp transfer, tooth welding. Correction of articulation, relocation and adjustment of the base.

101. Deformations of dentitions and occlusion in the partial absence of teeth. Pathogenesis, clinic.

102. Pin tooth by Richmond. Characteristic. Indications for manufacture. Clinical and laboratory stages of manufacture.

103. Medical plaster. Characteristics and methods of plaster application for impressions and models of prosthetic bed. Stages of obtaining a plaster impression and model.

104. Method of tooth preparation for plastic and porcelain crowns. Requirements. Possible complications. Reasons. Prevention.

105. Methods of orthopedic treatment in the complex therapy of periodontal diseases. Indication. Goal. Task.

106. Etiology and pathogenesis of TMJ diseases.

107. Plastic crowns. Characteristic. Indications for use. Construction material for crowns. Clinical and laboratory stages of orthopedic treatment.

108. Basic plastics. Characteristics and methods of preparation of base plastics for polymerization. Stages / phases / polymerization. Varieties of plastic porosity, causes, prevention.

109. Metal-ceramic bridge prostheses. Characteristics, indications for manufacture. Clinical and laboratory stages of treatment.

110. Differential diagnosis of TMJ diseases.

111. Anatomical and functional structure of the periodontium. Function and endurance of periodontium to masticatory pressure. Reserve forces of the periodontium.

112. Artificial crowns. Classification. Indications for use. Requirements for artificial crowns.

113. Classification of deformations of dentitions and occlusion in the partial absence of teeth.

114. The concept of dental materials science. Classification. Medicobiological, physico-mechanical and technological requirements

115. Metal-ceramic crowns. Characteristic. Indications for manufacture. Clinical and laboratory stages of orthopedic treatment.

116. Indications for the treatment of periodontal diseases with removable tire structures, the logical sequence of clinical and laboratory stages.

117. Direct and indirect veneers, indications for production.

118. Method of fixing the tab in the tooth cavity / cementation /. There may be complications when fixing the tab. Reasons. Prevention.

119. Clinical and laboratory stages of treatment of patients with periodontal diseases with a plastic removable splint.

120. Articulation. Occlusion. Types of occlusions and their characteristics.

121. Rules of preparation of teeth for fixed prostheses. Tools. Complication. Prevention. Methods of anesthesia for tooth preparation.

122. Prevention of errors and complications in odontopreparation in the manufacture of veneers.

123. Types of pin teeth. Comparison. The choice of pin design depending on the condition of the gingival part of the tooth root. Requirements for elements of pin teeth.

124. Indications for the use of modern method of temporary splinting of teeth, the logical sequence of clinical and laboratory stages of treatment. Using the Fiber Splint system.

125. Anatomy of the dentition, their shape and structure on the upper and lower jaws. Factors that ensure the stability of the teeth.

126. Full stamped crowns. Characteristic. Indications for use. Clinical and laboratory stages of orthopedic treatment.

127. Classification of localization of cavities in dental crowns. Indications for treatment with tabs. Comparative characteristics of methods for replacing defects of crowns, tabs and fillings.

128. Usual dislocations and subdislocations of the lower jaw. Etiology, clinic, radiological picture.

129. Direct method of making a tab. Clinical and laboratory stages of orthopedic treatment with cast / metal / tabs.

130. Clinical and laboratory stages of treatment of periodontal diseases with fixed temporary splints.

131. Stages of odontopreparation in the manufacture of veneers and tools.

132. Physiological reserves of the periodontium. Causes of functional overload of abutment teeth or antagonist teeth in the treatment of bridges. Prevention.

133. Clinical and laboratory stages of treatment of patients with complete adentia on one jaw with a removable functional-suction prosthesis.

134. Anatomy of the face and its age. Anthropometric patterns. Physiological rest of the lower jaw.

135. Defects of hard tissues of teeth. Etiology. Pathogenesis. Clinic. Indications for orthopedic treatment. Types of prostheses.

136. Features of the clinical picture of generalized periodontitis: variants of occlusion disorders.

137. Criteria for assessing the quality of tooth preparation for veneers.

138. Pin tooth by Ilyina-Markosyan. Characteristic. Indications for manufacture. Clinical and laboratory stages of manufacture.

139. Replacement of wax reproductions of prostheses with basic plastic. Method. Polymerization mode. Types of porosity. Reasons. Prevention.

3.4. Individual tasks(the list approved at the meeting of the department with the determination of the number of points for their performance, which can be added as incentives):

Types of individual research work of students are the preparation of reports and presentations in accordance with the thematic plan of the module, as well as participation in the work of a scientific student group in orthopedic dentistry.

3.5. Other incentives

Assessment of individual tasks applicant (hereinafter - IZZ) contribute to a more in-depth study of the theoretical material by the student, the formation of skills to use knowledge to solve relevant practical problems. IE is performed by the applicant independently with the receipt of the necessary advice from the researcher.

- report of the student's abstract on a practical lesson 0 2 points;
- report with presentation at the practical lesson 0 3 points,
- report at scientific and practical conferences of the department, university, writing abstracts, articles 0 5 points;
- participation in the All-Ukrainian Olympiad 5 10 points

SRIs are evaluated in points (not more than 10), which are added to the points scored for ZND at the end of the study of the discipline, when conducting a "test.

The total amount of points for ZND and IZZ cannot exceed 200 points.

3.6. Rules for appealing the assessment

The appeal of the assessment received by the applicant of higher education is carried out according to

"Regulations on the appeal of the results of the final control of students of KhNMU", approved by the Order of KhNMU from 30.09.2020 No. 252.

4. DISCIPLINE POLICY

In order to successfully complete the relevant course, it is necessary to regularly attend practical classes; to have theoretical preparation for practical classes according to the subject; not to be late and not to miss classes; perform all necessary tasks and work in each lesson; be able to work with a partner or in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Applicants for education discuss different tasks, but their implementation is strictly individual. It is not allowed to write off, use various software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the educational process. Students are not allowed to be late for practical classes.

Applicants for education with special needs can meet with the researcher and warn him before the start of classes, at the request of the student, this can be done by the head of the group. If you have any questions, please contact the researcher.

The participation of students in conducting research and conferences on this topic is encouraged.

All students of KhNMU are protected by the Regulations on Prevention, Prevention and Settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to define an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. This Regulation is developed on the basis of the following normative legal acts of Ukraine: the Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Preventing and Combating Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation N_{2} 25 to paragraph 1 of Article 4 of the Convention on the Elimination of All Forms of Discrimination against Women; General Comment N_{2} 16 (2005) "Equal rights for men and women to enjoy economic, social and cultural rights" (Article 3 of the International Covenant on

Economic, Social and Cultural Rights; UN Economic, Social and Cultural Rights Committee); Recommendations on education in the spirit of international mutual understanding, cooperation and peace and education in the spirit of respect for human rights and fundamental freedoms (UNESCO), the Concept of the State Social Program for Equal Rights and Opportunities for Women and Men until 2021. Kharkiv National Medical University provides education and work that is free from discrimination, sexual harassment, intimidation or exploitation. The University recognizes the importance of confidentiality. All persons responsible for the implementation of this policy (staff of deans' offices, faculties, institutes and the Center for Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential about those who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities granted to students or employees of the University apply to all without exception, provided they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Code of Corporate Ethics and the Charter of KhNMU.

Behavior in the audience

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all faculty and staff, and are not fundamentally different from the generally accepted norms.

During classes

- allowed:
- to leave the audience for a short time if necessary and with the permission of the researcher;
- drink soft drinks;
- take photos of presentation slides;
- take an active part in the lesson).
 - forbidden:
- eat (except for persons whose special medical condition requires another in this case, medical confirmation is required);
- smoking, drinking alcohol and even low-alcohol beverages or drugs;
- to use obscene language or use words that offend the honor and dignity of colleagues and faculty;
- gaff;
- to damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

5. ACADEMIC INTEGRITY

The Department of Orthopedic Dentistry maintains zero tolerance for plagiarism. Applicants are expected to constantly raise their awareness of academic writing. The first classes will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

Occupational Health

The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that every higher education seeker should know where the evacuation exit closest to the audience is, where the fire extinguisher is, how to use it, and so on.

6. RECOMMENDED LITERATURE

Basic:

- Gasyuk PA, Kostenko EY, Machogan VR, Rosolovskaya SO, Vorobets AB, Radchuk VB Stud Book of Orthopedic Dentistry. Ternopil-Uzhhorod. 2018. - 369 p.
- 2. Rozhko MM, Nespryadko VP, Mikhailenko TN etc. Dental prosthetic equipment. К .: Книга-плюс, 2018. 604 с.
- 3. Dentistry. Textbook. In 2 books. Book. 1 / MM Rozhko, ZB Popovich, VD Kuroyedova and others; for order. Prof. М.М.Рожка. К .: BCB «Медицина», 2020. 872 с.
- 4. Gasyuk PA Almanac of orthopedic dentistry // PA Gasyuk, E. Ya. Kostenko, VR Machogan, SO Rosolovskaya, AB Vorobets // Ternopil: Bogdan 2018. 352p.
- 5. Gasyuk PA Technological aspects of manufacturing orthopedic structures // PA Gasyuk, DM Korol, SO Rosolovskaya, LS Korobeynikov, VB Radchuk, RV Kozak // Ternopil : ΦΟΠ Παρχίη Ρ. Α. 2017. 140c.
- King D.M. Fundamentals of clasp prosthetics / DM Korol, DD Kindiy, LS Korobeynikov, OD Odzhubeyskaya, RV Kozak, TP Malyuchenko // Poltava. - 20119 - 139p.
- 7. Korol MD Dental materials science / MD Korol, OD Odzhubeyskaya, DM Korol, IM Tkachenko, VM Petrushanko, MO Ramus, AD Dorubets, DD Kindiy, LS Korobeynikov // Poltava: FOP Myron IA 2018. 176p.
- 8. Fastovets OO Neznimne zubne protezuvannia: navchalno-metodychnyi posibnyk / OO Fastovets, RA Kotelevsky, SS Kobylyak // Dnipro: DMA. 2017. 212p.

Additional literature

 Gasyuk AP Human odontology / AP Gasyuk, PA Gasyuk, TV Novoseltseva // Saarbrucken: LAMBERT Academic Publishing. - 2017. - 181p.

Methodical instructions:

- 1. Order of patient orthopedic treatment stages. Golik VP, Yanishen IV, Grishanin GG, Tomilin VG, Diudina IL 2017
- 2. http://repo.knmu.edu.ua/handle/123456789/15536
- Replacement of partial defects of the dentition with bridges. Indications and contraindications. Yanishen IV, Pogorila AV, Pereshivailova IO, Shepenko AG - 2017 http://repo.knmu.edu.ua/handle/123456789/22228
- 4. Modern methods of examination of dental patients. Preparation of the oral cavity before orthopedic intervention. Drawing up a treatment plan for a dental patient. Yanishen IV, Pereshivailova IO, Pogorila AV, Yarina IM - 2018 http://repo.knmu.edu.ua/handle/123456789/22247
- Aesthetic crowns: plastic, composite, metal-ceramic, metal-free. Indications and contraindications. Yanishen IV, Pereshivailova IO, Pogorila AV, Yarina IM - 2018 http://repo.knmu.edu.ua/handle/123456789/22274

Lectures:

- 1. Examination of patients in the clinic of orthopedic dentistry. Krichka NV -2019;
- http://repo.knmu.edu.ua/handle/123456789/7011
- 2. Orthopedic treatment (restoration) of DENTition defects (partial adentia) by dental fixed bridges. Tomilin, VG- 2020.

http://repo.knmu.edu.ua/handle/123456789/12149

3. Maxillofacial orthopedics. Goals and objectives. Classification of jaw fractures. Clinical, diagnostic, orthopedic treatment. Tomilin, VG -2019.

http://repo.knmu.edu.ua/handle/123456789/12147

4. Orthopedic methods of treatment in the complex treatment of periodontal diseases. Maslovsky AS -2019 <u>http://repo.knmu.edu.ua/handle/123456789/12139</u>

5. Adaptation to removable prosthesis in orthopedic treatment of dentition partial defects. Mistakes and complications in orthopedic treatment by removable dentures. Tomilin, VG -2020. http://repo.knmu.edu.ua/handle/123456789/12144

8. OTHER

Active links:

- 1. http://www.nmu.edu.ua/kaf59.php
- 2. <u>http://eduport.nmu.edu.ua/</u>
- 3. <u>http://goo.gl/enEezy</u>.