Federal State Budgetary Educational Institution of Higher Education "NORTH OSSETIAN STATE MEDICAL ACADEMY" of the Ministry of Health of the Russian Federation

УТВЕРЖДАЮ

Ректор ФГБОУ ВО СОГМА Минздрава России

«17» april 2024 г.

WORKING PROGRAM OF THE DISCIPLINE GNATOLOGY AND FUNCTIONAL DIAGNOSTICS OF THE TEMPOROMANDIBULAR JOINT

the main professional educational program of higher education is the specialty program in the specialty 31.05.03 Dentistry, approved on 17.04.2024.

Form of education	f	ull - time	
Term of development MPEP	HE	5 years	
Chair	dentistr	v № 1	

Vladikavkaz, 2024

When developing the educational training programme, the discipline is based on:

- 1. Federal State budget educational standards of Higher Education on specialty 31.05.03 Dentistry, approved by the Ministry of Education and Science of the Russian Federation. August «12», 2020 N984
- 2. The curriculum for specialty 31.05.03 Dentistry,

Стом-21-01-21

Стом-21-02-22

Стом-21-03-23

Стом-21-04-24

approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation, 17.04.2024, protocol № 6

The educational training programme of the discipline was approved at the meeting of the department on 27.03.2024, protocol №7

The educational training programme of the discipline was approved at the meeting of the central coordinating training and methodological council from 02.02.2024, Protocol № 4

The educational training programme is approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation, 17.04.2024, protocol № 6

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CONTENT OF THE WORK PROGRAM

- 1. name of the discipline;
- 2. a list of planned results of training in the discipline, correlated with the planned results of mastering the educational program;
- 3. indication of the place of the discipline in the structure of the educational program;
- 4. the volume of the discipline in credit units with an indication of the number of academic or astronomical hours allocated for contact work of students with the teacher (by type of training sessions) and for independent work of students;
- 5. the content of the discipline is structured according to topics (sections) with an indication of the number of academic or astronomical hours allocated to them and the types of training sessions.
- 6. the list of educational and methodological support for independent work of students in the discipline;
- 7. fund of assessment funds for conducting intermediate certification of students in the discipline;
- 8. a list of basic and additional educational literature required for mastering the discipline;
- 9. the list of resources of the information and telecommunication network "Internet", necessary for mastering the discipline;
- 10. methodological guidelines for mastering the discipline for students;
- 11. a list of information technologies used in the implementation of the educational process in the discipline, including a list of software and information reference systems (if necessary);
- 12. description of the material and technical base necessary for the implementation of the educational process in the discipline.
- 13. conducting educational activities using e-learning and distance learning technologies.

2. The list of planned results of training in the discipline and the results of mastering the educational program

No /	a Number / index of	Content of the	Tonio of the leaven (restion)	Indicators of achievement	Results of mastering		
№ n /	competence	competence (or part thereof)	Topic of the lesson (section)	of competencies	know	be able	to master
1	2	3	4	5	6	7	8
	OPK-5	is able to conduct a patient's examination in order to establish a diagnosis in solving professional problems	1. Diagnosis of chewing disorders in the partial absence of teeth.	ID-1 OPK-5 Master the algorithm of clinical examination of the patient. ID-2 OPK-5 Be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 OPK-5 Master the algorithm of clinicallaboratory and functional diagnostics in solving professional problems. ID-4 OPK-5 Be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	 Diagnosis of chewing disorders with partial absence of teeth. Orthopedic treatment. K08. 	Diagnose gnatological disorders, conduct differential diagnostics.	Fundamentals of examination for gnatological pathology
	OPK-5	is able to conduct an examination of the patient in order to establish a diagnosis in solving professional problems	 Diagnostics and orthopedic treatment of functional overload of periodontal tissues. K05.3 Diagnostics and orthopedic treatment of patients with deformities of the dentition and bite. K08 Diagnostics and orthopedic treatment of patients with TMJ pathology. K07. 6 	ID-1 OPK-5 Master the algorithm of clinical examination of the patient. ID-2 OPK-5 Be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 OPK-5 Master the algorithm of clinicallaboratory and functional diagnostics in solving professional problems. ID-4 OPK-5 Be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	 orthopedic treatment of functional overload of periodontal tissues. K05. 3 orthopedic treatment of patients with deformities of dentition and bite. K08 orthopedic treatment of patients with TMJ pathology. 	 plan orthopedic treatment of functional overload of periodontal tissues. K05. 3 plan orthopedic treatment of patients with dentition and bite deformities. K08 plan orthopedic treatment of patients with TMJ 	 Treat functional overload of periodontal tissues. K05. 3 Treat patients with dentition and bite deformities. K08 To treat patients with TMJ pathology. K07. 6

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				K07. 6	pathology. K07. 6	
OPK-5 is	able to conduct a patient's examination in order to establish a diagnosis when solving professional problems	functional (laboratory) and static ones).	ID-1 OPK-5 Master the algorithm of clinical examination of the patient. ID-2 OPK-5 Be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 OPK-5 Master the algorithm of clinicallaboratory and functional diagnostics in solving professional problems. ID-4 OPK-5 Be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	1. Diagnostic methods for TMJ pathology in orthopedic dentistry 2. Methods for collecting anamnesis in the clinic of orthopedic dentistry 3. Clinical examination methods	1. To diagnose TMJ in orthopedic dentistry 2. Collect anamnesis in the clinic of orthopedic dentistry 3. Conduct a clinical examination of the TMJ	by the method of TMJ diagnosis in orthopedic dentistry By the method of collecting anamnesis in the clinic of orthopedic dentistry by the method of clinical examination of the TMJ
OPK-5	is able to conduct a patient's examination in order to establish a diagnosis when solving professional problems	 of chewing function disorders with partial absence of teeth. functional overload of periodontal tissues. K05. 3 pathology of the TMJ. K07. 6 	ID-1 OPK-5 Master the algorithm of clinical examination of the patient. ID-2 OPK-5 Be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 OPK-5 Master the algorithm of clinicallaboratory and functional diagnostics in solving professional problems. ID-4 OPK-5 Be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	 disorders of chewing function with partial absence of teeth. functional overload of periodontal tissues. K05. 3 pathology of the TMJ. K07. 6 	 determine disorders of chewing function with partial absence of teeth. Diagnose functional overload of periodontal tissues. K05. 3 Diagnose TMJ pathology. K07. 6 	 By the method of determining the violation of chewing function in the partial absence of teeth. Methods for determining functional overload of periodontal tissues. K05. 3 Methods for diagnosing TMJ pathology. K07. 6
PK-3	Development, implementation and monitoring of the effectiveness of individual	Treatment tactics for impaired chewing function with partial absence of teeth. Tactics of treatment of	ID-1 Develop a rehabilitation plan for patients with diseases of the maxillofacial region ID-2 Carry out rehabilitation	equipment and treatment tactics in case of chewing dysfunction with	Prescribe treatment for impaired chewing function with	By the method of treatment for impaired chewing function with partial

rehabilitation functional overload of measures for diseases of the partial absence partial absence absence of teeth. programs periodontal tissues. K05. maxillofacial region of teeth. of teeth. 2. Methods of ID-3 Apply methods of 2. Tactics of 2. Prescribe the treatment of 3. Tactics of treatment of comprehensive rehabilitation treatment of treatment of functional patients with TMJ of patients with dental overload of functional functional pathology. K07. 6 diseases, taking into account overload of overload of periodontal the general condition of the periodontal periodontal tissues. K05. 3 body and the presence of tissues. K05. 3 tissues. K05. 3 3. Methods of concomitant pathology 3. Tactics of 3. Prescribe the treatment of ID-4 Apply personal tactics of treatment of patients with TMJ pathology. protective patients with treatment of TMJ pathology. patients with K07. 6 K07. 6 TMJ pathology. K07. 6 ID-1 Develop a rehabilitation 1. Evaluation of the quality 1. Criteria for the 1. Evaluate the 1. Bases of plan for patients with of treatment of patients quality of examination of quality of maxillofacial diseases with TMJ pathology. the quality of treatment of treatment of ID-2 Carry out rehabilitation K07. 6 patients with patients with treatment of programs measures for TMJ pathology. TMJ patients with Development, diseases of the maxillofacial K07. 6 pathology.K07. TMJ pathology. implementation region K07. 6 and monitoring of ID-3 Apply methods of PK-3 the effectiveness comprehensive rehabilitation of individual of patients with dental rehabilitation diseases, taking into account programs the general condition of the body and the presence of concomitant pathology ID-4 Apply personal protective equipment

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3. Place of the discipline in the structure of educational programs

The academic discipline belongs to the part formed by the participants of the educational relations of Block 1 of the Federal State Educational Standard for Higher Education in the specialty "Dentistry"

Types of professional activities underlying the teaching of this discipline:

Preventive work.

Diagnostic information.

Therapeutic area.

4. Scope of the discipline

№ n /	a Type of work		a Type of work Total credits		Semesters 10 hours
1	2		3	4	5
1	Students ' contact work with the teacher (total), including:		2	72	72
2	Lectures (L)		-8	8	8
3	Clinical practical exercises (PZ)		-64	64	64
4	Seminars (S)		-	-	-
5	Laboratory wor	k (LR)	-	-	-
6	Student's independe	nt work (SR)	1	36	36
7	Type of intermediate	credit (S)	-	credit	credit
7	certification	exam (E)	-	-	-
0	TOTAL: Total	intensity of hours	-	108	108
8	labor	Z	3		3

5. Content of the discipline

Semester number		a no. semesra Module section name		ivities epend idents	educat , inclue ent wo (in ho	Current performance monitoring forms (by semester	
			L	PZ	SRS	Only	week)
1	10	Diagnosis of chewing disorders in the partial absence of teeth. Orthopedic treatment. K08. 1	2	16	9	27	S, TZ, NW,
2	10	Diagnosis and orthopedic treatment of functional overload of periodontal tissues. K05.	2	16	9	27	S, NW,
3	10	Diagnosis and orthopedic treatment of patients with dental deformities rows and overbite. K08	2	16	9	27	S, TK, NW,
4	10	Diagnostics and orthopedic treatment of patients with TMJ pathology. K07. 6		16	9	27	S, TK, NW,
			8	64	36	108	

Note: S – interview, TK-test tasks, SZ-situational tasks, UZ – training tasks

6. List of educational and methodological support for independent work of students in the discipline

No./p	№ Semester number	Name of the educational
and		Gnatology and functional pathology of the TMJ. Methodological
methodological	10	recommendations for practical classes for students of the 5th year of the
development 1		9th semester. Dzgoeva M. G., Khetagurov S. K., Kanukova L. S.
2	10	Practical exercises on orthopedic dentistry for students of the Faculty of
2	10	Dentistry. Dzgoeva M. G., Khetagurov S. K.
		Methodological guidelines for students to self-study in the discipline
3	10	"Gnatology and functional pathology of TMJ". Dzgoeva M. G.,
		Khetagurov S. K., Kanukova L. S.

7. Fund of assessment funds for conducting intermediate certification of students in the discipline

n/	a List of competencies	№ Semester No	. Assessment indicator(s) Assessment	criterion (s) Assessment	scale	Name of FOS
1	2	3	4	5	6	7
1	OPK-5 PC-3	10	cm standard for assessing the quality of education, approved by the Ministry of Education of the Russian Federation. By Order No. 264 / o of the SOGMA Federal	the Russian Federation dated 10.07.2018, see standard for assessing the quality of education, approved by the Ministry of Education of the Russian Federation. By	the Russian Federation dated 10.07.2018, see standard for assessing the quality of education, approved by the Ministry of Education of the Russian Federation. By	Test tasks; Control tasks.

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State B	udgetary	Order No. 264 /	Order No. 264 of	_
Educa	ational	o of the	the Federal State	
Institu	ition of	SOGMA Federal	Budgetary	
Hig	gher	State Budgetary	Educational	
Educati	on of the	Educational	Institution of	
Minis	stry of	Institution of	Higher	
Hea	lth of	Higher	Professional	
		Education of the	Education of the	
		Ministry of	Ministry of	
		Health of	Health of the	
			Russian	
			Federation dated	
			10.07.2018 / o	

8. List of basic and additional educational literature required for mastering the discipline

Basic literature

n /	Year,		Number	r of copies.	Name of the	
No No	a no. Name	Author(s)	place of publication	in	to the	EBS/ link in the
31⊻			place of publication	the bible	department.	EBS
1.	Orthopedic dentistry: textbook	ed. by I. Y. Lebedenko.	Moscow: GEOTAR-Media, 2011, 2012	36 copies	-	"Student's consultant" http://www.studme dlib.ru/book/ISBN9 785970420881.htm
2.	Orthopedic dentistry: textbook	by N. G. Abolmasov et al	.: MEDpress- inform, 2007, 2008, 2009, 2011.	51	ex	

Additional literature

n/			Year,	Number	of copies.	Name of the
No No	a no. Name	Author(s)	place of	in	to the	EBS/ link in
745			publication	the bible	department.	the EBS
1.	Orthopedic dentistry : a national guide	ed. by I. Y. Lebedenko	Moscow: GEOTAR- Media, 2016	2 copies.	-	
2.	Orthopedic treatment of pathological erasability, dentoalveolar anomalies and secondary deformities of the dentition rows: method. recommendations for practical classes in orthopedic dentistry	by M. G. Dzgoeva, S. K. Khetagurov	Vladikavkaz, 2011	88 copies.	-	
3.	Encyclopedia of orthopedic dentistry	Trezubov V. N., Mishnev L. M.	St. Petersburg: Foliant, 2007	1 copy		



9 List of resources of the information and telecommunication network "Internet" required for mastering the discipline

#	Resource name	Address
1	ModernLib-Electronic Library	modernlib.ru
2	Archive of Poly Media Press Publishing	stomgazeta.ru
3	Information resource for medical university	studmedlib.ru
4	Dental Information	denta-info.ru
5	Medical literature on стоматологии.mmbook.ru	mmbook.ru
6	Russian Dental Institute Портал.stom.ru	stom.ru
7	eDentWorld Dental Portal	edentworld.ru
8	Federal Electronic Medical Library (FEMB)	feml.scsml.rssi.ru/feml
9	Electronic books on dentistry.	web-4-u.ru/stomatinfo

10. Guidelines for students on mastering the discipline

The training consists of classroom sessions (72 hours), including a lecture course and practical exercises, and independent work (336 hours). The main academic time is allocated for practical work on mastering theoretical knowledge, acquiring practical skills and abilities.

When studying an academic discipline, it is necessary to use the entire resource of basic and additional educational literature, lecture material, visual aids and demonstration material, and master practical skills acquired during working with visual demonstration aids, working with patients and solving situational problems.

Practical classes are conducted in the form of preclinical and clinical practice. Preclinical practice is carried out in classrooms with the use of video and photo materials, and situational tasks are solved. Then the analysis of clinical patients is carried out.

In accordance with the requirements of the Federal State Educational широко используются Standard for Higher Education, interactive forms of teaching are widely used in the educational process (developing and problem-based learning in the form of role-playing games, mastering practical skills on phantoms, analyzing a specific situation, discussing a theoretical analysis of a topic, multimedia training). The share of classes conducted in interactive forms is at least 10% of classroom classes.

Independent work of students implies preparation for seminars and practical classes and includes: working with visual materials, educational basic and additional literature, Internet resources, writing a medical history, an abstract.

Working with educational literature is considered as a type of educational work in the specialty "Dentistry" and is performed within the hours allotted for its study (in the section SRS).

Each student is provided with access to the library collections of the Academy and the Department.

Methodological recommendations for students and guidelines for teachers have been developed for each section of the discipline.

During the study of the academic discipline, patients are examined independently, a medical history is drawn up, and an abstract is submitted.

Writing an abstract contributes to the formation of skills in working with educational literature, systematization of knowledge and contributes to the formation of general cultural and professional skills.

Writing an educational medical history forms the ability to analyze medical problems, contributes to mastering the culture of thinking, the ability to correctly formulate its results in writing, the formation of a systematic approach to the analysis of medical information, and the perception of innovations.

The student's work in a group creates a sense of teamwork and sociability.

The training of students contributes to the development of communication skills with the patient, taking into account the ethical and deontological features of pathology and patients. Independent work with patients contributes to the formation of professional behavior, responsibility, accuracy, discipline.

The initial level of knowledge of students is determined by testing, the current control of mastering the subject is determined by an oral survey during classes, during clinical reviews, when solving typical situational problems and answering test tasks.

11. List of information technologies used in the implementation of the educational process in the discipline

The educational technologies used in the study of this discipline include at least 15% of interactive classes from the total volume of classroom classes. \setminus

- simulation, a) non-game simulation technologies, contextual learning; b) game simulation technologies, role-playing business games.
 - non-simulation technologies: problem lectures.

Semester	Type of classes L, PR,S,	Educational technologies used (active, interactive)	Number of hours	% of interactive classes	Software list
10	L	Set of slides, videos for a traditional lecture	8	-	Microsoft Office PowerPoint; Internet Exploer
10	PR	Set of questions and tasks for practical tasks, a set of situational tasks for emergency situations, a set of case histories for analyzing clinical cases.	64	20	Microsoft Office Test Program
10	S	Questions and tasks for independent work	36	-	Microsoft Office Internet Exploer

12. Description of the material and technical base necessary for the implementation of the educational process in the discipline

The Department of Dentistry No. 1 is located on the basis of the dental polyclinic of SOGMA (66 Kirova St.). The total area used by the department for the educational process is 61 sq. m².

Part of the classes are held in the educational building No. 2 on the territory of the Federal State Budgetary Educational Institution of Higher Education of the Russian State Medical Academy, in the classrooms allocated for this purpose.

The department has three rooms:

- an orthopedic office equipped with a dental unit, combined with the office of the head of the department (9 sq. m⁻²), in which classes are also held with students,
 - one phantom class for 5 phantoms and 8 computers (32 sq. m²),
- orthopedic office for 3 dental units ($20 \text{ sq. } \text{m}^2$), which also provides practical classes for students.

n/ p	a Equipment Name	Quantity	Technical condition				
1	2	3	4				
Special equipment							
1	Laptop	1	Good				
2	Projector	1	satisfactory				

3 Camera 1 Good PC 4 6 Good 5 Dental installations 3 satisfactory **Phantoms** 1 Dental phantoms 5 satisfactory **Dummies** 1 Preparation jaws 20 satisfactory

13. Conducting educational activities using e-learning and distance learning technologies

In the context of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection, and other force majeure events that do not allow conducting face-to-face training sessions, it is possible to study this discipline or part of it using e-learning and distance educational technologies.

Teaching the discipline in the situations described above will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various tasks. When conducting training sessions, current monitoring of academic performance, as well as intermediate certification of students, platforms of the electronic information and educational environment of the academy and/or other e-learning systems recommended for use in the academy, such as Moodle, Zoom, Webinar, etc. can be used.

Lectures can be presented in the form of audio, video files, "live lectures", etc.

Seminars and practical classes can be held on-line in both synchronous and asynchronous modes. Seminars can be held in the form of web conferences.

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