

**Federal State Budgetary Educational Institution higher education  
NORTH OSSETIAN STATE MEDICAL ACADEMY  
Ministry of Health of the Russian Federation**

APPROVED

by the Rector of the FSBEI of HE  
SOGMA Ministry of Health of the  
Russian Federation



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"30" march 2022

**INTERNSHIP PROGRAM**

**CLINICAL PRACTICE  
(METHODS OF EXAMINATION IN ORTHODONTICS)**

the main professional educational program of higher education is the specialty program in the specialty 31.05.03 Dentistry, approved on 30.03.2022.

**Specialty** \_\_\_\_\_ 31.05.03 Dentistry (specialty) \_\_\_\_\_

**Form of study** \_\_\_\_\_ full-time \_\_\_\_\_

**The term of development of OPOP in** \_\_\_\_\_ 5 years \_\_\_\_\_  
(standard training period)

**Department** \_\_\_\_\_ of Dentistry No. 1 \_\_\_\_\_

When developing the work program, the disciplines are based on:

1. Federal State Educational Standard for the specialty 31.05.03 Dentistry, approved by the Ministry of Education and Science of the Russian Federation on 12.08.2020, No. 984

2. The curriculum of the OPOP in the specialty 31.05.03 Dentistry

Stom-21-01-21

Stom-21-02-22

approved by the Academic Council of the Federal State Budgetary Educational Institution of the Ministry of Health on March 30, 2022, Protocol No. 6

The working program of the discipline was approved at the meeting of the Department of Dentistry No. 1 dated March 10, 2022, Protocol No. 2.

The working program of the discipline was approved at the meeting of the central coordinating educational and Methodological Council on March 22, 2022, Protocol No. 4

The working program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of the Ministry of Health of the Russian Federation on March 30, 2022, Protocol No. 6

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## **Content of the practice program**

1. indication of the type of practice, method and form (forms) of its implementation;
2. a list of planned learning outcomes during internship, correlated with the planned results of mastering the educational program;
3. indication of the place of practice in the structure of the educational program;
4. an indication of the amount of practice in credit units and its duration in weeks or in academic or astronomical hours;
5. the content of the practice;
6. indication of reporting forms for practice;
7. a fund of assessment tools for conducting intermediate certification of students in practice;
8. a list of educational literature and Internet resources necessary for the practice;
9. a list of information technologies used in the practice, including a list of software and information reference systems (if necessary);
10. description of the material and technical base necessary for the practice.
11. conducting educational activities using e-learning and distance learning technologies.

**1. Type of practice** - educational practice

**Type of practice** - clinical practice.

**Method of carrying out** - stationary, exit

**Conduct form** - discrete

**2. List of planned learning outcomes during internship, correlated with the planned results of mastering the educational program**

No. p / f	Number / index of competence	Content of competence (or parts of it)	Topic of the lesson (section)	Achievement indicators competencies	Development results		
					know	be able to	own
one	2	3	four	5	6	7	eight
	OPK-5	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	<ol style="list-style-type: none"> <li>1. Relapses in orthodontic treatment</li> <li>2. Ethics and deontology in orthodontics</li> </ol>	ID-1 GPC-5 Own the algorithm clinical examination of the patient. ID-2 GPC-5 To be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 GPC-5 Own the algorithm of clinical laboratory and functional diagnostics in solving professional problems. ID-4 GPC-5 To be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	<ol style="list-style-type: none"> <li>1. Pathogenetic mechanisms of recurrence in orthodontics</li> <li>2. Deontological foundations in orthodontics</li> </ol>	<ol style="list-style-type: none"> <li>1. Recognize and eliminate relapses in orthodontics</li> <li>2. Determine the psychotype of the patient</li> </ol>	<ol style="list-style-type: none"> <li>1. Algorithm for the manufacture and use of retainers.</li> <li>2. Algorithm of subject-oriented communication with patients</li> </ol>
	OPK-1.	Able to implement moral and legal norms, ethical and deontological principles in professional activities	<ol style="list-style-type: none"> <li>1. Method of examination of patients with AF.</li> <li>2. Methods for determining the functional state of the dental system (clinical, functional (laboratory) and static).</li> <li>3. Features of the examination and</li> </ol>	ID-1 OPK-1 Be able to observe moral and legal standards in professional activities. ID-2 OPK-1 Be able to express professional information in the process of intercultural interaction, observing the principles of ethics and deontology	<ol style="list-style-type: none"> <li>1. Methods of diagnostics in orthodontics defects and injuries of the maxillofacial area, the presence of AP</li> </ol>	<ol style="list-style-type: none"> <li>1. Carry out diagnostics for AF</li> <li>2. Collect anamnesis in the orthodontics clinic</li> <li>3. Conduct a clinical</li> </ol>	<ol style="list-style-type: none"> <li>1. Method of diagnostics in case of AFA</li> <li>2. The method of collecting anamnesis in the clinic of orthopedic dentistry</li> </ol>

			laboratory methods for the study of patients with AFA		2. The method of collecting an anamnesis in the clinic of orthodontics 3. Clinical examination methods for AFA	examination for AFA	3. Methods of clinical examination in case of AFA
	OPK-5	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	1. Diagnosis of dentoalveolar anomalies: Pona, Ton, Gerlach, Korhaus method 2. Diagnosis of dental anomalies. Photos in orthodontics 3. TRG. TRG calculation	ID-1 GPC-5 Own the algorithm clinical examination of the patient. ID-2 GPC-5 To be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 GPC-5 Own the algorithm of clinical laboratory and functional diagnostics in solving professional problems. ID-4 GPC-5 To be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	1. Indications for the use of the Pona, Ton, Gerlach, Korhaus methods 2. Methods for diagnosing AF 3. Indications for the use of various types of bending	1. Carry out calculations according to the method of Pohn, Ton, Gerlach, Korhaus 2. Take a series of orthodontic images 3. Create bends of different orders	1. Calculation algorithm in orthodontics 2. An algorithm for analyzing orthodontic images 3. Algorithm for creating bends of I, II, III, IV order
	OPK-5	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	1. Methods for determining the functional state of the dental system (clinical, functional (laboratory) and static).	ID-1 GPC-5 Own the algorithm clinical examination of the patient. ID-2 GPC-5 To be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 GPC-5 Own the algorithm of clinical laboratory and functional diagnostics in solving professional problems. ID-4 GPC-5 To be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	1. Fundamentals and principles of evidence-based medicine 2. Fundamentals of working with medical search engines	1. Analyze the information obtained while working with medical search engines	1. Public speaking skills in a professional environment



### 3. Indication of the place of practice in the structure of the educational program

Practice refers to the basic part of Block 2 of Practice, including the research work of the Federal State Educational Standard of Higher Education in the specialty 31.05.03 Dentistry.

Types of professional activity underlying the teaching of this discipline:

Medical

Organizational - managerial

Research.

### 4. Indication of the amount of practice in credit units and its duration in weeks or in academic or astronomical hours

No. p / p	Type of work	Total credits	Total hours	Semester	
				9	
				hours	
one	2	3	four	5	
one	<b>Contact work of students with the teacher (total), including:</b>	-	72	72	
2	<b>Student Independent Work (SIW)</b>	-	36	36	
3	<b>Type of intermediate certification</b>	credit (G)	-	offset	offset
		exam (E)	-		
four	<b>TOTAL:</b> Total labor intensity	hours	-	108	108
		Z	3		

## 5. Content of practice

No./n	No. semester	Name of the topic (section) of practice	Contact. watch	Myself. Slave.	Total hour in
one	9	Preparatory stage.	four	four	eight
2	9	Orthodontic examination of the patient.	ten	four	fourteen
3	9	Method of examination of patients with AF.	ten	6	16
four	9	Diagnosis of dentoalveolar anomalies: Pona, Ton, Gerlach, Korhaus method	ten	four	fourteen
5	9	Diagnosis of dental anomalies. Photos in orthodontics	ten	four	fourteen
6	9	TRG. TRG calculation	ten	four	fourteen
7	9	Algorithm for creating bends of I, II, III, IV order	eight	four	12
eight	9	Drawing up a treatment plan for a patient in an orthodontic clinic	ten	6	16
<b>TOTAL:</b>			<b>72</b>	<b>36</b>	<b>108</b>

## 6. Indication of reporting forms in practice

Based on the results of the practice, students draw up a diary of practice in the prescribed form, and the head of the practice - a report according to the form.

## 7. Fund of assessment tools for conducting intermediate certification of students in practice

No./n	List of competencies	No. semester	Indicator(s) evaluation	Evaluation criterion(s)	Evaluation scale	Name FOS
<b>one</b>	<b>2</b>	<b>3</b>	<b>four</b>	<b>5</b>	<b>6</b>	<b>7</b>
one	GPC1, GPC5	9	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	Test tasks; Control tasks.



## 8. List of educational literature and Internet resources necessary for the practice

### Main literature

p/n No.	Name	The authors)	Year, place of publication	Number of copies		Namenov. EBS, link in EBS
				in bible	on the cafe	
1.	Dentistry of children's age: Part 3. Orthodontics: textbook	Persin L. S.	M. : GEOTAR-Media, 2016	10 copies	-	<a href="http://www.studmedlib.ru/book/ISBN9785970435540.html">http://www.studmedlib.ru/book/ISBN9785970435540.html</a>
2.	Orthodontics. Diagnosis and treatment of dentofacial anomalies and deformities: textbook	Persin L. S.	M. : GEOTAR-Media, 2015	23 copies	-	<a href="http://www.studmedlib.ru/book/ISBN9785970432273.html">http://www.studmedlib.ru/book/ISBN9785970432273.html</a>
3.	Dentistry of childhood: a textbook	Persin L. S., Elizarova V. M.	M. : Medicine, 2006	24 copies	-	

### additional literature

p/n No.	Name	The authors)	Year, place of publication	Number of copies		Namenov. EBS, link in EBS
				in bible	on the cafe	
1.	Orthodontics. Complex treatment of dentofacial anomalies: orthodontic, surgical, orthopedic: textbook. allowance. Book. 3	F. Ya. Khoroshilkina, L. S. Persin.	M. : Ortodent-Info, 2001. - 174 p.	1 copy	-	
2.	Manual on orthodontics : textbook. allowance	Distel V. A.	M.: Medical book; N. Novgorod: NGMA, 2000	41 copies	-	

**9. List of information technologies used in the practice, including a list of software and information reference systems (if necessary)**

No. p / p	Resource name	Website address
one	ModernLib - electronic library,	<a href="http://modernlib.ru">http://modernlib.ru</a>
2	Russian Dental Portal.	<a href="http://www.stom.ru">www.stom.ru</a>
3	Electronic books on dentistry.	<a href="http://www.web-4-u.ru/stomatinfo">www.web-4-u.ru/stomatinfo</a>
four	Aesthetic restorations of teeth.	<a href="http://www.esthetics.ru">www.esthetics.ru</a>
5	Medical literature on dentistry.	<a href="http://www.mmbook.ru">www.mmbook.ru</a>
6	Information dental resource.	<a href="http://denta-info.ru">denta-info.ru</a>
7	Information resource for students of medical universities	<a href="http://www.studmedlib.ru">www.studmedlib.ru</a>
eight	Federal Electronic Medical Library (FEMB)	<a href="http://feml.scsmr.rssi.ru/feml">feml.scsmr.rssi.ru/feml</a>

**10. Description of the material and technical base necessary for the practice**

The Department of Dentistry No. 1 is located on the basis of the SOGMA Dental Clinic (Kirov St., 66). The total area used by the department for the educational process is 61 sq. m<sup>2</sup>.

The department has three rooms:

- an orthopedic room equipped with a dental unit, combined with the office of the head of the department (9 sq m<sup>2</sup>), which also holds classes for students,
- one phantom class for 5 phantoms and 8 computers (32 sq. m<sup>2</sup>),
- an orthopedic room for 3 dental units (20 sq.m<sup>2</sup>), which also holds practical classes for students.

No./ P	equipment identification	Quantity	Technical condition
<b>one</b>	<b>2</b>	<b>3</b>	<b>four</b>
<b>Special equipment</b>			
one	notebook	one	Good
2	projector	one	satisfactory
3	camera	one	Good
four	PC	6	Good
5	Dental units	3	satisfactory
<b>phantoms</b>			
one	Dental phantoms	5	satisfactory
<b>dummies</b>			
one	Preparation jaws	twenty	satisfactory

**11. 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 training sessions in full-time mode, it is possible to study this discipline or part of it using e-learning and distance learning technologies.

Teaching 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 progress, as well as intermediate certification of students, the 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.

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