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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

INTERNSHIP SYLLABUS

Observing and Assisting a Dentist (Pediatric)

internship title

Industrial

internship type

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Dentistry

higher education programme profile/specialisation title

2026 г.

1. INTERNSHIP GOAL(s)

"Observing and Assisting a Dentist (Pediatric)" is included in the program 31.05.03 "Dentistry" "Dentistry" and takes place "in the 9th semester" "5th year". Practice is implemented by the "Department of Pediatric Dentistry and Orthodontics".

The purpose of the "Observing and Assisting a Dentist (Pediatric)" course is to consolidate and deepen the student's theoretical knowledge in the field of prevention, diagnosis, and treatment of dental hard tissue diseases and their complications, dental injuries, oral mucosa diseases, and periodontal diseases in children and adolescents. The course also aims to acquire practical skills and competencies in the field of professional activities.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The "Observing and Assisting a Dentist (Pediatric)" course is aimed at developing the following competencies (parts of competencies) in students: PC-1, PC-2

Table 2.1. List of competences that students acquire during the internship

Competence code	Competence	Indicators of Competence Formation (within the framework of this discipline)
PC-1	Capable of conducting a patient examination in order to establish a diagnosis	PC-1.1 Conducts an initial and/or repeated examination of a patient in order to establish a preliminary diagnosis; PC-1.2 Obtains information from patients (their relatives/legal representatives), conducts a questionnaire survey of patients on the general state of health, detection of concomitant diseases in order to establish a preliminary diagnosis; PC-1.3 Identifies dental, maxillofacial, and facial abnormalities, deformations, and prerequisites for their development in patients, as well as defects in tooth crowns and dentition, based on patient examination, laboratory, instrumental, and additional examinations to establish a preliminary/final diagnosis; PC-1.5 Establishes a preliminary/final diagnosis based on patient examination, laboratory, and instrumental examinations; PC-1.6 Establishes a final diagnosis based on additional examinations of patients;
PC-2	Capable of prescribing, monitoring the effectiveness and safety of non-pharmacological and pharmacological treatment	PC-2.3 Provides patient counseling on methods of treating dental diseases, drawing up a comprehensive treatment plan with justification of the most appropriate tactics and assessing possible complications caused by the use of this technique; PC-2.4 Selects the type of local anesthesia/pain relief and assesses possible complications caused by their use; PC-2.5 Conducts a specialized reception for adults and/or children, monitoring the progress of treatment for caries, non-carious dental diseases,

		<p>pulpitis, periodontitis, periodontitis, bone tissue of the jaws, the peripheral nervous system of the maxillofacial region, the temporomandibular joint, the salivary glands, and diseases of the oral mucosa, with the exception of precancerous conditions, using modern treatment methods approved for medical practice;</p> <p>PC-2.8 Conducts monitoring and treatment of diseases of the oral mucosa and lips, with the exception of specialized treatment of precancerous conditions of the oral mucosa and lips, and treatment of children with manifestations of viral, bacterial, allergic, and other childhood infections in the oral cavity;</p> <p>PC-2.9 Conducts step-by-step oral cavity sanitation (excluding sanitation of children under anesthesia);</p>
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3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The internship refers to the core/variable/elective* component of (B2) block of the higher educational programme curriculum.

* Underline whatever applicable. The core component includes all introductory field internships, the variable component includes all advanced field internships, except for research and pre-graduate types of the internship. The elective module includes all research and pre-graduation types of the internship (if any).

Within the higher education programme students also master other disciplines (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the internship.

Table 3.1. The list of the higher education programme components that contribute to the achievement of the expected learning outcomes as the internship results.

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-1	Capable of conducting a patient examination in order to establish a diagnosis	Assistant Dentist (therapist); Assistant Dentist (surgeon); Assistant Dentist (orthopedist); Assistant Dentist (hygienist); Obstetrics; Fundamentals of military training. Life safety; Ophthalmology; Periodontology; Endodontics; Pediatric dentistry; Denture (simple prosthetics); Immunology, clinical	Assistant to a dentist (general practice), including research work; Gnathology and functional diagnostics of the temporomandibular joint; Pediatric maxillofacial surgery; Implantology and reconstructive surgery of the oral cavity; Maxillofacial and gnathic surgery; Maxillofacial prosthetics;

		<p>immunology; Cariesology and diseases of hard dental tissues; Orthodontics and children's prosthetics; Dentition prosthetics (complex prosthetics); Prosthetics in case of complete absence of teeth; Cone-beam Computed Tomography in Diagnosis, Planning, and Evaluation of the Effectiveness of Dental Solutions; Dental Tooth Modeling**; Pathophysiology - Pathophysiology of the Head and Neck; Pathological Anatomy - Pathology of the Head and Neck; Radiology; Local Anesthesia and Anesthesiology in Dentistry; Otorhinolaryngology; Propaedeutics dental diseases; Oral surgery; Maxillofacial and gnathic surgery; Three-dimensional X-ray diagnostic methods in dentistry**; Three-dimensional computer modeling of teeth**; Chemistry of biogenic elements**;</p>	<p>Gerontostomatology and diseases of the oral mucosa; Modern endodontics**; Aesthetic restoration of teeth**; Oncostomatology and radiation therapy;</p>
PC-2	<p>Capable of prescribing, monitoring, and evaluating the effectiveness and safety of non-pharmacological and pharmacological treatments</p>	<p>Organization of general care for patients; Assistant to a dentist (surgeon); Pediatric dentistry; Cariesology and diseases of hard dental tissues; Local anesthesia and anesthesiology in dentistry; Orthodontics and pediatric prosthetics; Oral surgery; Maxillofacial and gnathic surgery; Periodontology; Endodontics;</p>	<p>Implantology and reconstructive surgery of the oral cavity; Maxillofacial and gnathic surgery; Gerontostomatology and diseases of the oral mucosa; Modern endodontics**; Assistant to a dentist (general practitioner), including research work; Clinical pharmacology; Aesthetic restoration of teeth**; Clinical dentistry;</p>

		Innovative technologies in dentistry; Assistant to a dentist (therapist); Bioelements in Medicine**; Medical Elementology**; Propaedeutics of Dental Diseases; Dental Prosthetics (Simple Prosthetics); Dental Row Prosthetics (Complex Prosthetics); Prosthetics for Complete Tooth Loss; Infectious Diseases, Phthisiology;	Gnatology and functional diagnostics of the temporomandibular joint; Pediatric maxillofacial surgery; Oral and maxillofacial prosthetics;
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* - filled in accordance with the matrix of competencies of higher education programme.

4. INTERNSHIP WORKLOAD

The total workload of the internship is 3 credits (108 academic hours).

5. INTERNSHIP CONTENTS

*Table 5.1. Practice content**

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Section 1 Organization of work of a pediatric dentist. Aseptic and antiseptic regime of the therapeutic and surgical offices. Completion of case histories and reporting documentation.	1.1 Familiarization with the organization of work of a pediatric dentist, with the equipment of the rooms, with the aseptic regime of the therapeutic and surgical rooms, with safety and occupational health, with the organization of the clinic and the duties of the assistant of a pediatric dentist. Preparation of the dental office for receiving patients. Assisting the pediatric dentist and performing individual manipulations independently. During the production practice, it is required to maintain medical documentation (filling out the form 043/u Medical Card of a Dental Patient).	7,5
Section 2 Types of anesthesia: application, infiltration, and conduction.	2.1 Studying the features of anesthesia in children of different ages. Indications and contraindications for application, infiltration, and conduction anesthesia in children. Selection of an anesthetic. Preparing the dental office for patient visits. Assisting a pediatric dentist and performing individual procedures independently.	7,5

Section 3 Caries of temporary teeth and its characteristics.	3.1 Study of the features of etiology, pathogenesis, clinical picture, localization of caries in early childhood, preschool age and primary school age. Preparation of the dental office for reception of patients. Assisting the dentist-children and independent performance of separate manipulations.	7,5
Section 4 Methods of caries treatment of temporary teeth.	4.1 Study of the features of the choice of methods of treatment of caries of temporary teeth depending on the depth of the lesion. When treating enamel caries, the following methods are used: impregnation, remineralization, fluorization (caries in the stage of a spot); grinding of enamel and carrying out remineralization and fluorization or preparation and filling of the carious cavity (superficial caries). When treating dentin caries, preparation and formation of the carious cavity and its filling are carried out. The principles of the choice of filling materials are studied.	7,5
Section 5 Caries of permanent teeth.	5.1 Study of the etiology, pathogenesis, classification, clinical picture of caries of permanent teeth in children. Study of the causes of hypomineralization of hard tissues of permanent teeth in the first years after eruption, indications for preventive sealing of fissures.	7,5
Section 6 Methods of treatment of caries of permanent teeth.	6.1 The features of the choice of methods for the treatment of caries of permanent teeth, depending on the depth of the lesion, have been studied. When treating enamel caries, the following methods are used: infiltration, remineralization, and fluorization (caries in the stage of a spot); grinding of the enamel and remineralization and fluorization, or preparation and filling of the carious cavity (superficial caries). When treating dentin caries, preparation and formation of a carious cavity and its filling. Studying the principles of choosing filling materials.	7,5
Section 7 Pulpitis of temporary teeth.	7.1 Study of the features of etiology, pathogenesis, course, clinical picture of pulpitis of temporary teeth. Study of the cause of asymptomatic course of pulpitis, the cause of a hypersensitive reaction in acute and exacerbation of chronic pulpitis, asymptomatic course of pulpitis.	7,5
Section 8 Treatment of pulpitis of temporary teeth.	8.1 Study of the features of the choice of methods of treatment of pulpitis of temporary teeth depending on the diagnosis, group affiliation of the tooth, degree of formation of the root/roots or their resorption. Disassembling algorithms of methods of pulpotomy, high amputation, extirpation (vital and devital), indications and contraindications.	7,5
Section 9 Pulpitis of permanent teeth.	9.1 Study of the etiology, pathogenesis, classifications, and clinical picture of pulpitis of permanent teeth with unformed and formed roots.	7,5

Section 10 Treatment of pulpitis of permanent teeth.	10.1 Studying the features of the choice of methods of treatment of pulpitis of permanent teeth depending on the diagnosis and the degree of formation of the root/roots. Unraveling the algorithms of methods of pulpotomy, high amputation, extirpation (vital and devital), indications and contraindications.	7,5
Section 11 Periodontitis of temporary and permanent teeth.	11.1 Study of the etiology, pathogenesis, classifications, clinical picture of periodontitis of temporary and permanent teeth in children. Study of the features of the choice of methods of treatment of periodontitis of temporary and permanent teeth. Apexification is a method of treatment of periodontitis of permanent teeth with unformed roots. Necrectomy is a method of treatment of periodontitis of permanent teeth with formed roots.	7,5
Section 12 Prevention of dental diseases in children.	12.1 Study of methods for preventing dental diseases in children of different ages. Study of methods for primary, secondary, and tertiary prevention.	7,5
Completion of the practice report		9
Preparation for the defense and defense of the practice report		9
TOTAL:		108

* - The content of the practice by sections and types of practical training is FULLY reflected in the student's practice report.

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

1. Dental unit, turbine handpiece, increasing and decreasing handpiece;
2. Diamond and carbide burs, filling materials;
3. Filling materials, adhesive materials;
4. Injections for infiltration anesthesia;
5. Auxiliary products for hygiene and instrument processing.

7. INTERNSHIP LOCATION AND TIMELINE

The practice can be conducted both in the structural units of RUDN University or in organizations in Moscow (stationary), and at bases located outside of Moscow (field).

The practice at the base of an external organization (outside of RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions of the practice at the base organization.

The terms of the practice correspond to the period specified in the calendar study schedule of the HEI. The terms of the practice may be adjusted upon agreement with the Department of Educational Policy and the Department of Practice Organization and Assistance in Employment of Graduates at RUDN University.

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Pediatric Therapeutic Dentistry. National Guidelines/ edited by V.K. Leontiev, L.P. Kiselnikova. – 2nd edition, revised and expanded. – Moscow, GEOTAR-Media, 2017. - 952 p.: ill. - ISBN 978-5-

9704-4019-3.

2. Situational Tasks in Pediatric Dentistry: Workbook: Educational and Methodological Guide / O. M. Davydyan, N. S. Tuturov, and I. Katbeh. – Moscow: Russian University of Friendship of Peoples (RUDN), 2023. – 103 p. – ISBN 978-5-209-11592-2. – EDN ASKMTI.
3. Pediatric Dentistry: Textbook/ edited by O.O. Yanushevich, L.P. Kiselnikova, and Sh.Z. Topolnitsky. – Moscow: GEOTAR-Media, 2020. – 744 p.: ill.. – ISBN 978-5-9704-5318-6.
4. Atlas of Dental Diseases in Children: A Study Guide/ T.F. Vinogradova. – Moscow: MEDpress-inform, 2007. – 167 p.: ill. – ISBN 5-98322-244-9.
5. Industrial practice: Assistant to a Dentist (Children's Dentist) / O. M. Davydyan, N. S. Tuturov, I. Katbeh. – Moscow: Peoples' Friendship University of Russia (RUDN), 2024. – 48 p. – ISBN 978-5-209-12215-9. – EDN ZKQGXE.

Additional readings:

1. Infectious Diseases in Children: Textbook. Uchaykin V.F., Nisevich N.I., Shamsheva O.V. 2013. – 688 p.: ill.
2. Dental Caries in Children. Modern Methods of Diagnosis and Treatment: A Study Guide/ A.E. Anurova, T.F. Kosyreva, V.V. Safroshkina, and O.M. Davydyan. Moscow: RUDN University, 2017. – 95 p.: ill.
3. Modern Methods of Diagnostics and Treatment of Pulpitis in Children: A Study Guide/ A.E. Anurova, O.M. Davydyan, T.F. Kosyreva, and V.V. Safroshkina. – Moscow: RUDN University, 2016. – 72 p.: ill.
4. Medications in Pediatric Dentistry: A Textbook. – Minsk: Vysheyschaya Shkola, 2017. – 320 p. – Bibliogr.: p. 305 – ISBN 978-985-06-2717-9 ; The same [Electronic resource]. – URL: <http://biblioclub.ru/index.php?page=book&id=480060> (08.04.2019).
5. Periodontal Diseases in Children: Educational and Methodological Guide / M. V. Samoylova, N. S. Tuturov, T. F. Kosyreva, and I. Katbeh. – Moscow: Russian University of Friendship of Peoples (RUDN), 2023. – 49 p. – ISBN 978-5-209-11952-4. – EDN AKGTWZ.
6. Acute herpetic stomatitis in children: An educational and methodical manual / M. V. Samoilova, N. S. Tuturov, T. F. Kosyreva, I. Katbekh. – Moscow : Peoples' Friendship University of Russia. Patrice Lumumba, 2023. – 30 p. – ISBN 978-5-209-11953-1. – EDN UCCTVV.
7. Application of Nitrous Oxide Sedation in Pediatric Dentistry / A. E. Karlash, V. A. Zhurbenko // Regional Bulletin. – 2021. – No. 2(58). – Pp. 3-4. – EDN GYDKGG.

Resources of the Internet information and telecommunication network:

1. RUDN EBS and third-party EBS, to which university students have access on the basis of concluded contracts
 - RUDN Electronic Library System – RUDN EBS <https://mega.rudn.ru/MegaPro/Web>
 - University Library Online EBS <http://www.biblioclub.ru>
 - EBS Yurayt <http://www.biblio-online.ru>
 - EBS Consultant of the Student www.studentlibrary.ru
 - EBS Znanium <https://znanium.ru/>
2. Databases and search engines
 - Sage <https://journals.sagepub.com/>
 - Springer Nature Link <https://link.springer.com/>
 - Wiley Journal Database <https://onlinelibrary.wiley.com/>
 - Lens.org scientometric database <https://www.lens.org>

Educational and methodological materials for passing the practice, filling in the diary and drawing

up the report on the practice *:

1. Safety rules for passing the practice "Assistant Dentist (Children's)" (initial briefing).
2. General device and principle of operation of technological production equipment used by students during the practice; technological maps and regulations, etc. (if necessary).
3. Guidelines for students to fill in the diary and draw up the report on the practice "Observing and Assisting a Dentist (Pediatric)".

DEVELOPERS:

Associate professor, Department of
Pediatric Dentistry and
Orthodontics

Position, educational department

Signature

D.S. Bulycheva

name and surname.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Pediatric Dentistry
and Orthodontics

educational department

Signature

N.S. Tuturov

name and surname.

**HEAD OF
HIGHER EDUCATION PROGRAMME:**

Deputy Director for Academic
Affairs, Medical Institute, Head
department, professor of the
Department of propaedeutics of
dental diseases

Position, educational department

Signature

S.N. Razumova

name and surname.