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Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University
Institute of Medicine

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

INTERNSHIP CURRICULUM

GENERAL MEDICAL PRACTICE: PEDIATRICIAN'S ASSISTANT

internship title

professional

internship type

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

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

General Medicine

higher education programme profile/specialisation title

2024г.

1. INTERNSHIP GOAL(s)

The goal of the internship “General medical practice: pediatrician’s assistant” is to consolidate theoretical bases and improve practical skills which are aimed at preserving and enhancing the health of children, and are necessary in the professional activities of a pediatrician.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship “General medical practice: assistant pediatrician” is aimed at developing the following competences in students: GPC-1, PC-1, PC-2, PC-3, PC-5.

Table 2.1. List of competences that students develop during the internship (results of training based on the overall results of internship)

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activity	GPC-1.1. Able to abide by the ethical standards and legal regulations in professional activity. GPC-1.2. Able to present professional information in the process of intercultural interaction observing the principles of ethics and deontology.
PC-1	Able to provide emergency or urgent medical care to a patient	PC-1.1. Able to assess the condition of a patient who needs emergency or urgent medical care. PC-1.2. Able to recognize conditions that arise from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient’s life, as well as those requiring emergency medical care. PC-1.3. Able to provide emergency medical care to patients with sudden acute diseases and conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient’s life. PC-1.4. Able to recognize conditions which pose a threat to the patient’s life, including conditions of clinical death (cessation of the vital bodily functions (blood circulation and/or respiration) which require emergency medical care. PC-1.5. Able to provide emergency medical care to patients in conditions which pose a threat to the patient’s life, including clinical death (cessation of the vital bodily functions (blood circulation and/or respiration). PC-1.6. Able to use drugs and medical devices when providing medical care in emergency or urgent situations.
PC-2	Able to examine a patient in order to determine a diagnosis	PC-2.1. Possesses the skills to take complaints and history of the patient’s life and disease, as well as conduct a complete physical examination of the patient (inspection, palpation, percussion, auscultation). PC-2.2. Able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient. PC-2.3. Able to refer a patient for laboratory examination when there are medical indications in accordance with the current procedures for the

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account standards of medical care.</p> <p>PC-2.4. Able to refer a patient for instrumental examination when there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.5. Able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.6. Able to refer a patient to receive specialized medical care in an inpatient setting or in a day hospital where there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.7. Able to carry out differential diagnosis with other diseases/conditions, including urgent ones, as well as to make a diagnosis taking into account the current international statistical classification of diseases and problems related to health (ICD).</p>
PC-3	Able to prescribe treatment and monitor its efficacy and safety	<p>PC-3.1. Able to develop a treatment plan for a disease or condition taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.2. Able to prescribe drugs, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease, and in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.3. Able to prescribe non-pharmacological treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.4. Able to assess the efficacy and safety of the use of drugs, medical devices, therapeutic nutrition and other treatment methods.</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-5	Able to carry out preventive measures and measures to promote a healthy lifestyle, as well as sanitation and hygiene education of the population and also monitor their effectiveness	PC-5.1. Able to organize and conduct medical examinations taking into account age, health status, profession in accordance with applicable legislative acts and other documents. PC-5.4. Able to carry out follow-up care of patients with diagnosed chronic non-communicable diseases.

3. INTERNSHIP IN THE STRUCTURE OF EDUCATIONAL PROGRAMME OF HIGHER EDUCATION (EP HE)

The internship “General medical practice: pediatrician’s assistant” belongs to the mandatory part of block B2 of the EP HE.

As part of the EP HE, students also master other disciplines and/or practicals that contribute to the achievement of planned learning outcomes as results of the internship “General medical practice: pediatrician’s assistant”

Table 3.1. 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*
GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activity	Jurisprudence, psychology and pedagogy, propaedeutics of internal diseases, general surgery, practicals in diagnostics: ward nurse assistant, practice to gain primary professional skills and professional experience: procedural nurse assistant, practicals in surgical field: surgeon’s assistant, practicals in obstetrics and gynecology: gynecologist’s assistant, assistant physician in medical field: physician’s assistant, practicals in general practice: physician’s assistant in outpatient clinic, practicals in obstetrics and gynecology: obstetrician’s assistant, basics of medical law, history of medicine, Latin language, psychology and pedagogy	Forensic Medicine

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-1	Able to provide emergency or urgent medical care to a patient	Propaedeutics of internal diseases, general surgery, neurology, medical genetics, neurosurgery, faculty therapy, faculty surgery, obstetrics and gynecology, urology, infectious diseases, hospital therapy, outpatient therapy, hospital surgery, pediatric surgery, pediatrics, traumatology, orthopedics, surgery practicals : surgeon's assistant, obstetrics and gynecology practicals: gynecologist's assistant, diagnostics practicals: assistant ward nurse, practicals in emergency medical procedures (simulation center), practicals in general practice: physician's assistant in outpatient clinic, practicals for obtaining primary professional skills and professional experience: procedural nurse assistant, therapeutic physician assistant: general practitioner assistant, obstetrics and gynecology practicals: obstetrician's assistant, therapeutic physician assistant: general practitioner's assistant, jurisprudence, psychology and pedagogy, basics of medical law, emergency medicine for life-threatening conditions, history of medicine, Latin, ophthalmology.	Obstetrics and gynecology, hospital therapy, outpatient therapy, hospital surgery, pediatric surgery, pediatrics, traumatology, orthopedics, anesthesiology, resuscitation, intensive care, oncology, radiation therapy, endocrinology, allergology, endoscopic urology, forensic medicine, disaster medicine, emergency conditions.
PC-2	Able to examine a patient in order to determine a diagnosis	Propaedeutics of internal diseases, general surgery, neurology, medical genetics, neurosurgery,	Obstetrics and gynecology, hospital therapy, outpatient therapy, hospital surgery, pediatric surgery, pediatrics,

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
		faculty therapy, faculty surgery, obstetrics and gynecology, otorhinolaryngology, ophthalmology, urology, infectious diseases, psychiatry, medical psychology, hospital therapy, outpatient therapy, hospital surgery, pediatric surgery, pediatrics, traumatology and orthopedics, surgical practice: surgeon's assistant, obstetrics and gynecology practice: gynecologist's assistant, therapeutic physician assistant: general practitioner assistant, practicals in general practice: outpatient physician's assistant, obstetrics and gynecology practicals: obstetrician's assistant, dermatovenerology, occupational diseases, cardiology in quests, microbiology, virology, immunology, evidence-based medicine, medical enzymology, molecular genetic methods, microbiological diagnostic methods, clinical dentistry, pathological anatomy, clinical pathological anatomy, pathophysiology, clinical pathophysiology, radiation diagnostics, medical elementology, topical issues of neonatology,	traumatology and orthopedics, anesthesiology, resuscitation, intensive care, oncology, radiation therapy, phthisiology, endocrinology, allergology, maxillofacial surgery, reproductive health, endoscopic urology, telemedicine, general medical skills, emergency conditions, sectional course.
PC-3	Able to prescribe treatment and monitor its efficacy and safety	Dermatovenerology, neurology, medical genetics, neurosurgery, faculty therapy, faculty surgery, obstetrics and gynecology, otorhinolaryngology,	Obstetrics and gynecology, hospital therapy, outpatient therapy, hospital surgery, pediatric surgery, pediatrics, traumatology, orthopedics, clinical pharmacology, oncology, radiation therapy,

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
		ophthalmology, urology, occupational diseases, infectious diseases, psychiatry, medical psychology, hospital therapy, outpatient therapy, hospital surgery, pediatric surgery, pediatrics, traumatology, orthopedics, topical issues of neonatology, surgical practice: surgeon's assistant, obstetrics and gynecology practice: gynecologist's assistant, therapeutic physician assistant: physician's assistant, practicals in general practice: outpatient physician's assistant, practicals in obstetrics and gynecology: obstetrician's assistant, cardiology in quests, basics of integrative medicine, pharmacology, clinical research, basics of therapeutic nutrition, experimental oncology	phthisiology, endocrinology, allergology, maxillofacial surgery, endoscopic urology, telemedicine, outpatient cardiology
PC-5	Able to carry out preventive measures and measures to promote a healthy lifestyle, as well as sanitation and hygiene education of the population and also monitor their effectiveness	Propaedeutics of internal diseases, obstetrics and gynecology, urology, clinical dentistry, outpatient therapy, pediatrics, general practice: physician's assistant in an outpatient clinic, ophthalmology	Obstetrics and gynecology, outpatient therapy, pediatrics, reproductive health, endoscopic urology, outpatient cardiology

* To be filled in according with the competence matrix of the higher education programme.

4. INTERNSHIP WORKLOAD

The total labor intensity of the practice “General medical practice: pediatrician's assistant” is 3 credit units (108 academic hours)

5. INTERNSHIP CONTENT

*Table 5.1. Internship content**

Modules	Content (topics, types of practical activities)	Workload, academic hours
Module 1 Basics of organizing pediatric care	Topic 1.1 Instruction on safety precautions. Work safety of medical personnel while providing care. Topic 1.2 Legal aspects of medical care	6
Module 2 Work as pediatrician's assistant	Topic 2.1. Examination of children to establish a diagnosis Topic 2.2. Prescribing treatment for children and monitoring its effectiveness and safety Topic 2.3. Carrying out preventive measures, including sanitation education, among children and their parents Topic 2.4. Organizing the activities of medical personnel and maintaining medical documentation	90
Module 3	Preparation of a report on practicals. Final lesson.	9
Module 4	Test	3
	TOTAL:	108

* The contents of internship through modules and types of practical activities shall be FULLY reflected in the student's internship report.

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Clinical facility for internship - State budgetary healthcare institution "Children's City Clinical Hospital No. 9 named after G.N. Speransky of the Moscow City Health Department" (GBUZ "Children's City Clinical Hospital No. 9 named after G.N. Speransky DZM")

Residents' room, 11th Infectious diseases department,

Moscow, Shmitovskiy proezd, No 29, corpus 1, building 10, sector A, 6th floor

Residents' room, 10th Infectious diseases department,

Moscow, Shmitovskiy proezd, No 29, corpus 1, building 10, sector A, 5th floor

Clinical facility for internship - State budgetary healthcare institution of the city of Moscow "Morozovskaya Children's City Clinical Hospital of the Moscow City Health Department" (GBUZ "Morozovskaya Children's City Clinical Hospital of the Moscow City Health Department")

Pediatric unit Residents' room,

Moscow, 4th Dobryninsky lane, 1/9, building 16

Residents' rooms of the pediatric department of combined pathology, rheumatology, pulmonology departments, department of emergency cardiology and interventional cardiology

Moscow, 4th Dobryninsky lane, 1A

Residents' room of the pediatric somatic and endocrinology departments

Moscow, 4th Dobryninsky lane, 1

Automatic blood pressure and pulse rate meter Omron M2 Basic

Medical electric infrared non-contact thermometer WF-5000

Changing table "examination" SP.03.00, stadiometer, electronic medical floor scales VMEN-150, scales for newborns "Baby"

Ultraviolet bactericidal air recirculator irradiator ORUB-3-5-"KRONT"

Portable electrocardiograph that automatically transmits measurement results to the ECG-RAPID telemedicine system

Kits for emergency preventive and therapeutic measures

7. METHODS OF CONDUCTING THE INTERNSHIP

"General medical practice: pediatrician's assistant" may be carried out both in the structural divisions of the RUDN University and in organizations (healthcare institutions) in Moscow (inpatient).

Conducting internships at the facilities of an external organization (outside RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions of the internship in the main organization.

The duration of the internship corresponds to the period specified in the educational calendar of the EP HE. The duration of the internship may be adjusted in agreement with the Department of Educational Policy and the Department of Organization of Internships and Employment of Students at RUDN University.

8. EDUCATIONAL AND INFORMATION RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Robert M. Kliegman, Brett J. Bordini, Heather Toth et al. Nelson Pediatric Symptom-Based Diagnosis: Common Diseases and their Mimics. Elsevier, 2022. ISBN 978-0-323-76174-1. DOI: <https://doi.org/10.1016/C2019-0-01335-0>

2. Sarah S. Long. Principles and Practice of Pediatric Infectious Diseases. Elsevier, 2022. ISBN 978-0-323-75608-2. DOI <https://doi.org/10.1016/C2019-0-00075-1>

Additional readings:

1. Neonatal and Pediatric Cerebro-Cardiopulmonary Resuscitation / Michael Shoykhet [et al.]. 2018. 1 c. ISBN 9782889456598 URL: <https://www.frontiersin.org/research-topics/4942/neonatal-and-pediatric-cerebro-cardio-pulmonary-resuscitation-ccpr>

2. Wynn J.L., Bliss J.M.. The Neonatal Immune System: A Unique Host-Microbial Interface, 2018. 1 c. ISBN 9782889454037 URL: <https://www.frontiersin.org/research-topics/5017/the-neonatal-immune-system-a-unique-host-microbial-interface>

3. Lissauer Tom. Illustrated Textbook of Paediatrics / T. Lissauer, W. Carrol. - Fifth Edition - China : Elsevier, 2017. - 583 p.: il. - ISBN 978-0-7234-3871-7: 6113.30.

4. Soumen Khatua (Ed.), Natasha Pillay Smiley (Ed.). Update in Pediatric Neuro-Oncology, 2019. 1 c. ISBN 9783038975397 URL: <https://www.mdpi.com/books/pdfview/book/1112>.

5. Giovanni Biglino, Adelaide de Vecchi. Ventricular Mechanics in Congenital Heart Disease, 2017. 1 c. ISBN 9782889452644 URL: <http://journal.frontiersin.org/researchtopic/4933/ventricular-mechanics-in-congenital-heart-disease>

6. Tammy M. Brady, Ibrahim F. Shatat. Pediatric Hypertension: Update, 2018. 1 c. ISBN 9782889456543 URL: <https://www.frontiersin.org/research-topics/5269/pediatric-hypertension-update>

7. Stefan J. Friedrichsdorf (Ed.). Pediatric Palliative Care, 2019. 1 c. ISBN 9783038973508 URL: <https://www.mdpi.com/books/pdfview/book/1130>

8. Carlo Caffarelli, Luis Garcia-Marcos, Kostas N. Priftis. The Parallel March of Asthma and Allergy in Childhood: A Multi-Perspective Approach, 2018. 1 c. ISBN 9782889455294 URL: <https://www.frontiersin.org/research-topics/4997/the-parallel-march-of-asthma-and-allergy-in-childhood-a-multi-perspective-approach>

9. Frederick Jeffrey Kaskel, Agnieszka Swiatecka-Urban, Robert P. Woroniecki. Nephrotic Syndrome in Pediatric Patients, 2017. 1 c. ISBN 9782889452989 URL: <https://www.frontiersin.org/research-topics/3714/nephrotic-syndrome-in-pediatric-patients>

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" www.studentlibrary.ru
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

The training toolkit and guidelines for a student to do an internship, keep an internship diary and write an internship report:*

1. General medical skills. Execution algorithms. General medical skills. Algorithms of performance.

2. Safety rules during the internship "General medical practice: pediatrician's assistant" (initial instruction).

3. Internship documents: internship report, intern's diary; review from the internship supervisor from the facility.

4. Guidelines for students to fill out a diary and prepare a report on internship.

*The training toolkit and guidelines for the internship are placed on the internship page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL AS INTERNSHIP RESULTS

Assessment materials and grading system* for the evaluation of achieved competency levels (parts of competences) for the learning outcomes of the "Pediatrics" course are presented in the appendix to this Internship curriculum.

* - assessment and grading systems are based on the corresponding local regulatory act of RUDN University

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