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ФИО: Ястребов Олег Александрович  
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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**

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

**INTERNSHIP SYLLABUS**

Practice in the Therapeutic Field: Physician's Assistant

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internship title

productive

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internship type

**Recommended by the Didactic Council for the Education Field of:**

31.05.01 General Medicine

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field of studies / speciality code and title

**The student's internship is implemented within the professional education programme of higher education:**

General Medicine

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## 1. INTERNSHIP GOAL(s)

The goal of the Internship “Practice in the Therapeutic Field: Physician's Assistant” is to develop of practical skills required in the work of a general practitioner.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship “Practice in the Therapeutic Field: Physician's Assistant” is aimed at the development of the following competences (competences in part): GPC-5, PC-1, PC-2, PC-3.

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-5	Willingness to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional problems.	GPC-5.1 Knows the algorithm for clinical, laboratory and functional diagnosis in solving professional problems.
		GPC-5.2 Competent in the assessment of clinical, laboratory and functional diagnostic results for the solution of professional tasks.
		GPC-5.3 Can identify morpho-functional, physiological conditions and pathological processes of the human body.
PC-1	Ability to assess the condition of a patient requiring emergency or urgent medical care.	PC-1.1 Able to assess the condition of a patient requiring emergency or urgent care.
		PC-1.2 Able to recognize conditions arising from sudden acute illnesses, exacerbations of chronic diseases without obvious signs of life-threatening consequences and requiring medical care in an emergency.
		PC-1.3 Able to provide emergency medical care to patients with sudden acute illnesses, conditions, exacerbations of chronic diseases without obvious signs of life-threatening consequences.
		PC-1.4 Able to recognize life-threatening conditions, including clinical death (arrest of vital human functions (circulation and/or respiration) that require medical assistance in an emergency form.

		<p>PC-1.5 Able to provide emergency medical assistance to patients with life-threatening conditions, including clinical death (arrest of vital human functions (circulation and/or respiration).</p>
		<p>PC-1.6 Able to administer medicines and medical devices in emergency and urgent care.</p>
PC-2	Ability to examine a patient in order to establish a diagnosis.	<p>PC-2.1 Have the skills to collect complaints, history of life and illness of a patient, as well as a complete physical examination of the patient (examination, palpation, percussion, auscultation).</p>
		<p>PC-2.2 Able to formulate a preliminary diagnosis and plan laboratory and instrumental examinations of a patient.</p>
		<p>PC-2.3 Able to refer a patient for laboratory examination if medically indicated, in accordance with current health care procedures, clinical guidelines (treatment protocols) for health care, taking into account the standards of medical care.</p>
		<p>PC-2.4 Able to refer a patient for instrumental examination if medically indicated, in accordance with current medical care procedures, clinical guidelines (treatment protocols) for medical care, taking into account medical care standards.</p> <p>PC-2.5 Able to refer a patient for consultation to specialist doctors, if medically indicated, in accordance with current health care procedures, clinical guidelines (treatment protocols) for the provision of medical care, taking into account the standards of medical care.</p>
		<p>PC-2.6 Able to refer a patient for specialised medical care under inpatient or day care conditions, if medically indicated, in accordance with current legislation</p> <p>The following are the guidelines for the provision of medical care, clinical guidelines (protocols)</p>

		<p>treatment) on the provision of health care, taking into account the standards of health care.</p>
		<p>PC-2.7 Able to make a differential diagnosis with other diseases/conditions, including acute ones, and to establish a diagnosis taking into account the current International Statistical Classification of Diseases and Related Health Problems (ICD).</p>
PC-3	Ability to prescribe treatment and monitor its effectiveness and safety.	<p>PC-3.1 Able to develop a treatment plan for a disease or condition, taking into account diagnosis, age and clinical presentation in accordance with current health care procedures, clinical guidelines (treatment protocols) for health care, taking into account health care standards.</p>
		<p>PC-3.2 medical devices and therapeutic feeding, taking into account the diagnosis, age and clinical picture of the disease and in accordance with the current procedures 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 Capable of prescribing non-medical treatment, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures 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 Is able to assess the effectiveness and safety of medicines, medical devices, therapeutic nutrition and other treatments.</p>
		<p>PC-3.5 Able to provide palliative care in collaboration with specialist doctors and other health care professionals.</p>
		<p>PC-3.6 Capable of organising personalised treatment for patients, including pregnant women, elderly and disabled patients, to assess the effectiveness and safety of treatment.</p>

### 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.*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Previous courses/module s,internships*</b>	<b>Subsequent courses/module s,internships*</b>
GPC-5	Willingness to assess <del>multiple</del> physiological conditions and pathological processes in the human body in order to solve professional problems.	Biology; Anatomy; Histology, Embryology, Cytology; Normal Physiology; Biochemistry; Microbiology, Virology; Pathological anatomy, clinical pathological anatomy; Pathophysiology, clinical pathophysiology; General surgery; Topographical anatomy and operative surgery; Dermatovenerology; Neurology, medical genetics, neurosurgery; Faculty therapy; Faculty surgery; Obstetrics and gynaecology; Ophthalmology.	Obstetrics and gynaecology; Occupational diseases; Psychiatry, medical psychology; Hospital therapy; Hospital surgery, paediatric surgery; Forensic medicine; Anaesthesiology, resuscitation, intensive care; Oncology, radiation therapy; Maxillofacial surgery.
PC-1	Ability to assess the condition of a patient requiring care of medical care in	Life Safety; Propaedeutics of Internal Medicine; Immunology;	Hospital therapy; Outpatient therapy; Hospital surgery, Pediatric surgery; Traumatology, orthopaedics;

<b>Cipher</b>	<b>Name of competence</b>	<b>Previous disciplines/modules, practices*</b>	<b>Subsequent disciplines/modules, practices*</b>
	emergency or urgent forms of care.	General surgery; Topographical anatomy and operative surgery; Dermatovenereology; Neurology, medical genetics, neurosurgery; Faculty surgery; Ophthalmology; Urology.	Endocrinology; Anaesthesiology, Intensive Care; Allergology; Disaster Medicine; Oncology, Radiation Therapy.
PC-2	Ability to examine a patient in order to establish a diagnosis.	Pathophysiology, Clinical Pathophysiology; General Surgery; Radiation Diagnostics; Medical Elementology; Dermatovenereology; Neurology, Medical Genetics, Neurosurgery; Faculty Therapy; Faculty Surgery; Obstetrics and gynaecology; Otorhinolaryngology; Ophthalmology.	Obstetrics and gynaecology; Clinical dentistry; Occupational diseases; Psychiatry, medical psychology; Hospital therapy; Polyclinic therapy; Hospital surgery, paediatric surgery; Paediatrics; Traumatology, orthopaedics; Endocrinology; Anaesthesiology, resuscitation, intensive care; Oncology, radiation therapy; Maxillofacial Surgery; Sectional course.
PC-3	Ability to prescribe treatment and monitor its effectiveness and safety.	Biotechnology; General surgery; Dermatovenereology; Neurology, medical genetics, neurosurgery; Faculty surgery; Obstetrics and gynaecology; Otorhinolaryngology; Ophthalmology.	Obstetrics and gynaecology; Occupational diseases; Hospital therapy; Polyclinic therapy; Hospital surgery, paediatric surgery; Paediatrics; Traumatology, orthopaedics; Endocrinology; Clinical pharmacology; Oncology, radiation therapy; Maxillofacial surgery.

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

#### **4. INTERNSHIP WORKLOAD**

The total workload of the internship “Practice in the Therapeutic Field: Physician's Assistant” is 3 credit (108 academic hours)

## 5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents\**

<b>Modules</b>	<b>Contents (topics, types of practical activities)</b>	<b>Workload, academic hours</b>
<b>Module 1</b> Safety briefing	Theme 1.1 Safety of staff when providing care.	<b>4</b>
	Theme 1.2 Legal aspects of victim assistance and non-assistance (who are ill).	
	Topic 1.3 Safety procedures in the GP department. Safety precautions in the diagnostic department.	
<b>Module 2</b> The fundamentals of the organisation of therapeutic care.	Topic 2.1 Therapy as a field of medicine. Regulatory documents. Principles of therapeutic services. Prevention of therapeutic diseases. Dispensary care for therapeutic patients. National clinical guidelines for therapy.	<b>18</b>
<b>Module 3</b> Research methods in therapy	Topic 3.1. Diagnostic techniques in therapy.	<b>32</b>
	Topic .2 Diagnostic capabilities methods direct examination of the therapeutic patient.	
	Theme 3.3 Modern methods of clinical, laboratory, instrumental examination of patients(including endoscopic,radiological,ultrasonic methods diagnosis).	
<b>Module 4</b> Working in wards (clinical bases)	Topic 1.1 Working as a physician assistant in the therapeutic and cardiac wards of a clinical hospital.	<b>36</b>
<i>Formalising the practice report</i>		<b>9</b>
<i>Preparation for defence and defence of the practice report</i>		<b>9</b>
<b>TOTAL:</b>		<b>108</b>

\* 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

The infrastructure and technical support necessary for the internship implementation include: laboratories/ specially equipped classrooms/ polygons/ measuring and computing complexes/ vehicles/ industrial equipment and devices/ household premises that comply with current sanitary and fire safety standards.

The SAFETY REQUIREMENTS at the enterprise, workplace (including the department of RUDN University) and during the work with certain production/laboratory equipment incorporate/ include the following (to be specified)....

## 7. INTERNSHIP LOCATION AND TIMELINE

The internship can be carried out at the structural divisions of RUDN University (at Moscow-based organisations, as well as those located outside Moscow).

The internship at an external organisation (outside RUDN University) is legally arranged on the grounds of an appropriate agreement, which specifies the terms, place and conditions for an internship implementation at the organisation.

The period of the internship, as a rule, corresponds to the period indicated in the training calendar of the higher education programme. However, the period of the internship can be rescheduled upon the agreement with the Department of Educational Policy and the Department for the Organization of Internship and Employment of RUDN students.

## 8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Kostsova N.G., Tigay J.G., Dogotar O.A. [et al]. General medical skills. Algorithms of execution. Peoples' Friendship University of Russia. 2019, 112 c.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=484267&id\\_b=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=484267&id_b=0)
2. Avakyan G.N., Averkov O.V., Villewalde S.V., Voznesensky S.L., Golub V.P., et al. Fundamentals of Internal Medicine. Guidelines for physicians in 2 volumes / Moscow, 2020. (2nd edition, revised and enlarged)  
<http://lib.rudn.ru/MegaPro2/Web/SearchResult/ToPage/1>
3. Nikitin I.S., Galustov A.M., Lobzhanidze B. Д. [et al]. General medical skills. . Algorithms performance. General medical skills. Algorithms of performance. MOSCOW: PFUR. 2020, 355 c.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=494660&id\\_b=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=494660&id_b=0)
4. Internal Medicine : textbook in 2 volumes. T. 1 / edited by A.I. Martynov, J.D. Kobalava, S.V. Moiseev. - 4th Edition. , revised. Electronic text data. - Moscow : GEOTAR-Media, 2023. - 784 c.  
[https://lib.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=508350&idb=0](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508350&idb=0)
5. Internal Medicine : textbook in 2 volumes. T. 2 / edited by A.I. Martynov, J.D. Kobalava, S.V. Moiseev. - 4th Edition. , revised. Electronic text data. - Moscow : GEOTAR-Media, 2023. - 704 c.  
[https://lib.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=508354&idb=0](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508354&idb=0)
6. Stuklov Nikolay Igorevich (author PFUR). Textbook of haematology / N.I. Stuklov, N.D. Kislyy. - 2nd ed. revised and updated. - Moscow : Practical Medicine, 2022. - 350 c. : ill.
7. Safarova AytenFuadovna.  
Clinical electrocardiography : textbook / A.F. Safarova, S.V. Avdoshina ; edited by J.D. Kobalava. - Electronic text data. - Moscow : PFUR, 2022. - 127 c. : ill.  
[https://lib.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=505702&idb=0](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=505702&idb=0)
8. Dvornikov Vladimir Evgenievich. ABC of electrocardiography : textbook for high schools / V.E. Dvornikov, G.G. Ivanov. - M. : RUDN, 2011. - 165 c. : ill.  
[https://lib.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=366227&idb=0](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=366227&idb=0)
9. Cardiology : a practical guide / edited by E.V. Shlyakhto. - 2nd ed. revised and supplemented ; Electronic text data. - Moscow : GEOTAR-Media, 2022. - 800 c. - (National guidelines).  
[https://lib.rudn.ru/MegaPro/UserEntry?Action=Link\\_FindDoc&id=508374&idb=0](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508374&idb=0)
1. Clinical norms. Echocardiography / A.L. Bobrov - Moscow : GEOTAR-Media, 2020. - 80 c. - ISBN 978-5-9704-5893-8. - Text : electronic // URL :



<https://www.rosmedlib.ru/book/ISBN9785970458938.html>.

2. Sudden cardiac death / Bokeria L. A. , Revishvili A.Sh. , Neminushchiy N.M.Pronicheva I.V. - Moscow : GEOTAR-Media, 2020. - 352 c. (Library of medical specialist series) - ISBN 978-5-9704-5629-3. - Text : electronic

// URL : <https://www.rosmedlib.ru/book/ISBN9785970456293.html>

3. Clinical guidelines for cardiology and comorbid diseases / edited by F.I. Belyalov. - 10th ed. Moscow : GEOTAR-Media, 2020. - 384 c. (Specialist's Library series) - ISBN 978-5-9704-5362-9. - Text : electronic // URL :

<https://www.rosmedlib.ru/book/ISBN9785970453629.html>

4. Cardiology. National guidelines. Brief edition / ed. by E.V. Shlyakhto. - 2nd ed. Moscow : GEOTAR-Media, 2023. - 816 c. - ISBN 978-5-9704-7537-9. - Text : electronic // URL : <https://www.rosmedlib.ru/book/ISBN9785970475379.html>

5. Gastroenterology and hepatology: diagnosis and treatment / Edited by A.V. Kalinin, A.F. Loginov, A.I. Khazanov. 4th ed. - Moscow: Medpress-inform, 2022. - 848 c.

6. Gastroenterology. Pharmacotherapy without error. /Edited by V.T. Ivashkin. -Moscow: E-noto, 2022. - 416 c.

7. Chronic obstructive pulmonary disease / Edited by O.N. Titova, N.A.Kuzubova Moscow: GEOTAR-Media, 2023. 336

8. Respiratory diseases: textbook / Edited by D.I. Trukhan, A.I. Viktorov. - St.Petersburg: SpetsLit, 2022. - 286 c.

9. Achievements of rheumatology at the beginning of the XXI century, Achievements of rheumatology at the beginning of the XXI century (To the 60th anniversary of V.A. Nasonova Institute of Rheumatology). - M.: IMA-PRESS LTD, 2018. - 144 c. Edited by RAS Academician E.L. Nasonov.

[Doctijeniya Revmatol.qxd \(rheumatolog.ru\)](https://www.rheumatolog.ru)

10. The use of non-steroidal anti-inflammatory drugs in medicine: a focus on nimesulide Karateev A.E. Nasonov E.L., Mediar, Moscow, 2021.

[finalnye pravki broshyura nimesulid.pdf \(rheumatolog.ru\)](#)

11. Behçet's disease. - M. Perot Publishers, 2022. - 117 pp.

[Microsoft Word - ebb 1210454843 3148462847 0 \(rheumatolog.ru\)](#)

12. Secrets of Rheumatology. Edited by S.J. West; Translated from English; Edited by O.M. Lesniak. Geotar-Media.

13. Fundamentals of clinical rheumatology. Textbook. - V.G. Lychev, I.E. Babushkin, A.V. Andrienko. Moscow. Infra-M. 2023.

14. Inflammatory muscle diseases. Methodological guidelines for physicians in the therapeutic departments of an urban clinical hospital. Moscow, Peoples' Friendship University of Russia, 2022.

10. Nephrology : clinical guidelines / edited by E.M. Shilov, A.V. Smirnova, N.L. Kozlovskaya. - Moscow : GEOTAR-Media, 2020.

11. Current issues of nephrology. Textbook/ re. C. S. Yakushin. - Moscow : GEOTAR-Media, 2020.

12. Nephrology for hospital therapy course. Textbook / edited by A.A. Popov. - Ekaterinburg: "IIC "Quality Mark", 2020.

13. Ivanov V.G., Sharayev P. N. Fundamentals of quality control of laboratory tests: a textbook for universities. - Saint Petersburg: Lan'. - 2023. - 112 c. ISBN 978-5-507-46669-6

14. Lelevich S.V., Vorbiew V.V. Clinical laboratory diagnostics: a textbook. - Saint Petersburg: Lan'. - 2023. - 168 c. ISBN 978-5-8114-9242-8

*Resources of the information and telecommunication network "Internet":*

1. RUDN Libraries and third-party Libraries to which university students have access on the basis of contracts:

- Electronic LibrarySystem RUDN - RUDN EBS  
<http://lib.rudn.ru/MegaPro/Web>
- University Library Online EBS <http://www.biblioclub.ru>
- EBS Yurite <http://www.biblio-online.ru>
- Student's Consultant Libraries [www.studentlibrary.ru](http://www.studentlibrary.ru)
- Lan' EBS <http://e.lanbook.com/>
- Trinity Bridge EBS

2. Databases and search engines:

- electronic collection legal and regulatory-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. Safety regulations to do the internship (safety awareness briefing).
2. Machinery and principles of operation of technological production equipment used by students during their internship; process flow charts, regulations, etc. (if necessary).
3. Guidelines for keeping an internship diary and writing an internship report.

\*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**

The assessment toolkit and the grading system\* to evaluate the level of competences (GPC-5, PC-1, PC-2, PC-3.) formation as the internship results are specified in the Appendix to the internship syllabus.

\* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

### **DEVELOPERS:**

Associate Professor, Department of Hospital Therapy with courses in Endocrinology, Haematology and CLD

educational department



Signed

Aleksandrova M.R.

Name and surname

Associate Professor, Department of Hospital Therapy with courses in Endocrinology, Haematology and CLD

educational department



Signed

Politidis R.R.

Name and surname

### **HEAD OF EDUCATIONAL DEPARTMENT:**

Associate Professor and Head of the Department of Faculty Surgery

educational department



signature

Kislyy N.D.

name and surname.

### **HEAD OF HIGHER EDUCATION PROGRAMME:**

**Head of the Department of  
General Medical Practice**



Sturov N.V.

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position, educational department

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signature

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name and surname