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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

COURSE SYLLABUS

Hospital Therapy

course title

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

2023-2024

1. COURSE GOAL(s)

The goal of the course “Hospital Therapy” is to equip students with knowledge of the students in this course, the ability to correctly diagnose, make a differential diagnosis with similar diseases, determine the clinical prognosis of a particular patient, to know modern methods of examination, treatment and prevention.

2. REQUIREMENTS FOR LEARNING OUTCOMES

1) Mastering the course (module) “Hospital Therapy” is aimed at the development of the following competences /competences in part : GC-1; GPC-5; SPC-1, SPC -2, SPC -3.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC(general competence) - 1	GC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy	GC-1.1. Analyzing scientific and technical literature and regulatory documents of medical institutions.
		GC-1.2. Assessing in a critical way the reliability of information sources, working with contradictory information from different sources
		GC-1.3. Understanding the trends, strategic goals, problems in the field of healthcare/ being aware of regulatory framework to develop a strategy.
		GC-1.4. Analyzing and assessing the economic potential, financial viability and risks of an organization.
GPC (General Professional Competence)- 5	GPC-5. Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-5.1. Mastering the algorithm of clinical, laboratory and functional diagnosis when dealing with professional tasks.
		GPC-5.2. Being able to evaluate the results of clinical, laboratory and functional diagnosis when dealing with professional tasks.
		GPC-5.3. Being able to determine morpho-functional, physiological states and pathological processes of the human body.
SPC (specialized Professional	Being able to provide emergency or urgent medical care to a patient	SPC-1.1. Being able to assess the condition of a patient who needs emergency or urgent medical care.

<p>Competences) -1.</p>		<p>SPC-1.2. Being 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 and which require emergency medical care</p>
		<p>SPC-1.3. Being able to provide emergency medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life</p>
		<p>SPC-1.4. Being 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.</p>
		<p>SPC-1.5. Being 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).</p>
		<p>SPC-1.6. Being able to use drugs and medical devices when providing medical care in emergency or urgent forms.</p>
<p>SPC (specialized Professional Competences) -2</p>	<p>Being able to examine a patient in order to determine a diagnosis</p>	<p>SPC-2.1. Mastering the skills to collect complaints, anamnesis of the patient's life and disease, as well as conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation).</p>
		<p>SPC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.</p>

		<p>SPC-2.3. Being able to refer a patient to a laboratory examination in case 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 medical care standards.</p>
		<p>SPC-2.4. Being able to refer a patient to an instrumental examination in case 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>SPC-2.5. Being 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>SPC-2.6. Being able to refer a patient to be provided with specialized medical care in an inpatient setting or in a day hospital in case 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>SPC-2.7. Being able to carry out differential diagnosis with other diseases/conditions, including the 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>

<p>SPC (specialized Professional Competences) -3.</p>	<p>Being able to prescribe treatment and monitor its efficacy and safety</p>	<p>SPC-3.1. Being 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>SPC-3.2. Being able to prescribe medicinal drugs, medical devices and medical 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>SPC-3.3. Being able to prescribe non-drug 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>SPC-3.4. Being able to assess the efficacy and safety of the use of drugs, medical devices, medical nutrition and other treatment methods.</p>
		<p>SPC-3.5. Being able to provide palliative care in collaboration with medical specialists and other healthcare professionals.</p>

		SPC-3.6. Being able to organize personalized treatment for a patient, including pregnant women, elderly and senile patients; assess the efficacy and safety of treatment.
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3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

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

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

Competence code	Competence descriptor	Previous courses/modules*
GC-1	Philosophy, Psychology and Pedagogy, Physics, Mathematics, Biochemistry, Anatomy, Immunology, Pathophysiology, Clinical Pathophysiology, Hygiene, Propaedeutics of Internal diseases, Public Health and Healthcare, Health Economics, Epidemiology, Neurology, Medical Genetics, Neurosurgery, Catastrophe Medicine <u>Faculty Therapy</u>	Endocrinology, Infectious Diseases, Phthiology, Medical Elementology, Allergology
GPC-5	Biochemistry, Biology, Anatomy, Histology, Embryology, Cytology Normal Physiology, Microbiology, Virology, Pathophysiology, Clinical Pathophysiology,	Anesthesiology, Resuscitation, Intensive Care Hospital Surgery, Pediatric Surgery, Oncology, Radiation Therapy, Maxillofacial Surgery, Medical Elementology.

	<p>Propaedeutics of Internal Diseases, General Surgery, Topographic Anatomy and Operative Surgery, Dermatovenerology, Neurology, Medical genetics, Neurosurgery, Ophthalmology, Forensic Medicine, Faculty Therapy, Faculty Surgery, Occupational Diseases.</p>	
SPC-1, SPC -2, SPC -3	<p>Health and safety, Immunology, Pathophysiology, Clinical pathophysiology, Propaedeutics of Internal Medicine, Radiation Diagnostics, General Surgery, Topographic Anatomy and Operative Surgery, Dermatovenerology, Neurology, Medical genetics, Neurosurgery, Psychiatry, Medical Psychology, Otorhinolaryngology, Ophthalmology, Disaster Medicine, Faculty therapy, Faculty surgery, Urology.</p>	<p>Outpatient therapy, Anesthesiology, Resuscitation, Intensive Care, Hospital surgery, Pediatric surgery, Dentistry, Oncology, Radiation Therapy, Traumatology, Orthopedics, Pediatrics, Maxillofacial Surgery, Sectional Course, Biotechnology, Medical Elementology, Allergology.</p>

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Hospital Therapy" is 11 credits (396 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (*full-time training*)*

Type of academic activities		Total academic hours	Semesters/training modules			
			9	10	11	12
<i>Contact academic hours</i>		264	96	48	48	72
Including:						
Lectures (LC)						
Lab work (LW)						
Seminars (workshops/tutorials) (S)			96	48	48	72
Self-study (academic hours)		132	48	24	24	36
Course workload	academic hours	396	144	72	72	108
	credits	11	4	2	2	3

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. Diseases of the circulatory system.	Topic 1.1 Differential diagnosis of secondary (symptomatic) hypertension. Hypertensive disease.	S
	Topic 1.2 Differential diagnosis of acute coronary syndrome with ST elevation and without elevation.	S
	Topic 1.3 Differential diagnosis of myocardial infarction, coronary and non-coronary cardialgias.	S
	Topic 1.4 Differential diagnosis of heart rhythm and cardiac conduction.	S
	Topic 1.5 Differential diagnosis of acquired heart defects.	S

	Topic 1.6 Differential diagnosis for pericarditis, myocarditis, cardiomyopathies (hypertrophic, dilated, restrictive).	S
	Topic 1.7 Differential diagnosis for infective endocarditis.	S
	Topic 1.8 Acute and chronic heart failure, clinical presentation, differential diagnosis, treatment.	S
	Topic 1.9 Atherosclerosis and dyslipidemia	S
Module 2. Diseases of the respiratory system.	Topic 2.1 Differential diagnosis for interstitial and infiltrative lung diseases.	S
	Topic 2.2 Acute bronchitis and chronic obstructive pulmonary disease, bronchial asthma: clinical picture, differential diagnosis, treatment.	S
	Topic 2.3 Differential diagnosis for lesions of the pleura, mediastinum, and diaphragm.	S
	Topic 2.4 Differential diagnosis of pleural effusion.	S
	Topic 2.5 Acute and chronic respiratory failure.	S
	Topic 2.6 Acute and chronic pulmonary heart (cor pulmonale), differential diagnosis.	S
	Topic 2.7 Acute respiratory distress syndrome in adults.	S
	Topic 2.8 Primary and secondary pulmonary hypertension, differential diagnosis.	S
	Topic 2.9 Sleep apnea syndrome.	S
Module 3. Kidney disease.	Topic 3.1 Differential diagnosis of pyelonephritis with other infectious and inflammatory diseases.	S
	Topic 3.2 Differential diagnosis of acute and chronic glomerulonephritis.	S
	Topic 3.3 Differential diagnosis of nephropathy.	S
	Topic 3.4 Differential diagnosis for acute kidney injury and chronic kidney disease (CKD).	S
	Topic 4.1 Acute leukemia - clinical picture, differential diagnosis, treatment.	S
Module 4. Diseases of	Topic 4.2 Chronic myeloproliferative diseases - clinical picture, differential diagnosis, treatment.	S

blood system	Topic 4.3 Chronic lymphoproliferative diseases, Hodgkin's lymphoma - clinical picture, differential diagnosis, treatment.	S
	Topic 4.4 Paraproteinemic hemoblastosis - clinical picture, differential diagnosis, treatment.	S
	Topic 4.5 Megaloblastic and aplastic anemias - clinical picture, differential diagnosis, treatment.	S
	Topic 4.6 Iron deficiency anemia, anemia of chronic disease - clinical picture, differential diagnosis, treatment.	S
	Topic 4.7 Hemolytic anemia - clinic, differential diagnosis, treatment.	S
	Topic 4.8 Coagulopathy - clinic, differential diagnosis, treatment.	S
Module 5. Diseases of the joints, systemic diseases of the connective tissue.	Topic 5.1 Differential diagnosis of arthropathies. Rheumatoid arthritis. Etiology, pathogenesis, clinical picture, diagnosis, differential diagnosis, treatment.	S
	Topic 5.2 Systemic connective tissue diseases. Systemic lupus erythematosus, dermatomyositis, systemic scleroderma. Etiology, pathogenesis, clinical picture, diagnosis, differential diagnosis, treatment. Differential diagnosis for systemic vasculitis. Separate forms of systemic vasculitis. Definition, clinic, diagnosis, differential diagnosis. General principles and methods of treatment of systemic vasculitis.	S
Module 6. Diseases of the digestive system.	Topic 6.1 Differential diagnosis of diseases of the esophagus.	S
	Topic 6.2 Differential diagnosis for symptoms of diseases of the stomach and duodenal ulcer.	S
	Topic 6.3 Differential diagnosis for symptoms of diseases of the small and large intestines, the syndrome of impaired digestion (maldigestion) and the syndrome of impaired absorption (malabsorption).	S
	Topic 6.4 Differential diagnosis for diseases of the gallbladder and bile ducts.	S
	Topic 6.5 Differential diagnosis for diffuse liver lesions	S
	Topic 6.6 Differential diagnosis for jaundice and focal liver lesions.	S

	Topic 6.7 Differential diagnosis in liver cirrhosis, ascites, portal hypertension, encephalopathy, spontaneous bacterial peritonitis, hepatorenal syndrome.	S
	Topic 6.8 Differential diagnosis for diseases of the pancreas.	S
Section 7. Clinical laboratory diagnostics	Topic 7.1 Clinical laboratory diagnostics – history, definition and basic concepts. Directions of development of clinical laboratory diagnostics. Informativeness of laboratory studies. Variation of laboratory results. The concept of reference intervals. Critical and threshold values of laboratory parameters. Sensitivity and specificity of laboratory tests. Stages of laboratory research – preanalytical, analytical. post-analytical. Quality control of laboratory tests.	S
Section 8. Laboratory genetics	Topic 8.1 New laboratory technologies in modern CDL – chromatography, mass spectrometry, genetic laboratory research. Organization of hereditary material. Changes in hereditary material, types of mutations. Methods of investigation of disorders of hereditary material. Cytogenetic methods. Karyotyping. FISH-hybridization. Molecular genetic methods. Polymerase chain reaction, principle of the method, fields of application. Sequencing. Areas of application of genetic diagnostic methods. Types of genetically determined diseases – chromosomal, monogenic, multifactorial. Genetic tests in oncology. Pharmacogenetics.	S

* - filled in only by FULL-time study: LC – lectures; LW – laboratory work; S – workshops (seminars).

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
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Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	Classroom for lectures and seminars, group and individual consultations, ongoing monitoring and intermediate certification. A set of specialized furniture; technical means: Laptops - Lenovo IdeaPad G7080, Asus K52JU; HP 6715s TL-60; Multimedia projectors - NEC, Epson EV-HOZ; Acer X113P; stable wireless Internet connection. Software: Microsoft products (OS, office suite, including MS Office/ Office 365, Teams, Skype)
Seminar	Auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and interim certification, equipped with a set of specialized furniture and multimedia presentation equipment.	A set of specialized furniture; technical means: Laptops - Lenovo IdeaPad G7080, Asus K52JU; HP 6715s TL-60; Multimedia projectors - NEC, Epson EV-HOZ; Acer X113P; stable wireless Internet connection. Software: Microsoft products (OS, office suite, including MS Office/ Office 365, Teams, Skype) a list of specialized equipment, stands, visual posters, etc.
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with stable wireless Internet connection.	A set of specialized furniture; technical means: Laptops - Lenovo IdeaPad G7080, Asus K52JU; HP 6715s TL-60; Multimedia projectors - NEC, Epson EV-HOZ; Acer X113P; stable wireless Internet connection.

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		Software: Microsoft products (OS, office suite, including MS Office/ Office 365, Teams, Skype)

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Current Medical Diagnosis & Treatment 2020. Edited by Maxine A. Papadakis, Stephen J. McPhee McGraw-Hill. 2020, 4683 P.
2. Harrison's Principles of Internal Medicine, 20th Edition, By [J. Larry Jameson](#), [Anthony Fauci](#), [Dennis Kasper](#), [Stephen Hauser](#), [Dan Longo](#), [Joseph Loscalzo](#). McGraw-Hill Education. 2021.
3. Davidson's Principles and Practice of Medicine, 23rd Edition Edited by: Stuart H. Ralston MD FRCP FMedSci FRSE FFPM, Ian D Penman BSc MD FRCPE , Mark W J Strachan BSc MD FRCPE. Elsevier. 2018
4. 2014 ESC Guidelines on diagnosis and management of hypertrophic cardiomyopathy. European Heart Journal (2014) 35, 2733–2779 doi:10.1093/eurheartj/ehu284.
5. 2015 ESC Guidelines for the diagnosis and management of pericardial diseases. European Heart Journal (2015) 36, 2921–2964 doi:10.1093/eurheartj/ehv318.
6. 2018 ESC Guidelines for the diagnosis and management of syncope. European Heart Journal (2018) 39, 1883–1948 ESC GUIDELINES doi:10.1093/eurheartj/ehy037.
7. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. European Heart Journal (2016) 37, 2129–2200 doi:10.1093/eurheartj/ehw128
8. 2018 ESC/ESH Guidelines for the management of arterial hypertension TheTask Force for the management of arterial hypertension of the European Society of Cardiology and the European Society of Hypertension. Journal of Hypertension 2018, 36:1953–2041
9. Diagnosis and Treatment of Adults with Community-acquired Pneumonia An Official Clinical Practice Guideline of the American Thoracic Society and Infectious Diseases Society of America. American Journal of Respiratory and Critical Care Medicine Volume 200 Number 7 | October 1 2019
10. Emergencies in the clinic of internal diseases [Text / electronic resource]: Textbook / V.E. Dvornikov, G.G. Ivanov; Ed. P.P. Ogurtsov, V.E. Dvornikova. - Electronic text data. - M.: Publishing house of RUDN, 2013.-- 571 p.- ISBN 978-5-209-04270-9: 191.52.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
11. Internal diseases [Electronic resource]: Textbook in 2 volumes. T. 1, T. 2 / V.S. Moiseev, A.I. Martynov, N.A. Mukhin. - 3rd ed., Rev. and add. - M.: GEOTAR-Media, 2015. <http://lib.rudn.ru/MegaPro/Web/Search/Simple>
12. The ABC of electrocardiography [Text] Dvornikov Vladimir Evgenievich: Textbook for universities / V.E. Dvornikov, G.G. Ivanov. - M.: Publishing house of RUDN, 2011.-- 165 p. : ill.- ISBN 978-5-209-03588-6 : 260.00.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>

13. Test tasks [Electronic resource]: Textbook for 5–6 year students, interns and residents studying in the specialty "Medicine" / Ed. P.P. Ogurtsova. - Electronic text data. - M.: Publishing house of RUDN, 2013. -- 334 p.- ISBN 978-5-209-04976-0.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
14. Textbook on hematology. Text; Textbook / N.I. Stuklov, G.I. Kozinets, N.G. Tyurina -M.: Practical medicine, 2018 - 360 p
15. Physiology and pathology of hemostasis [Text]: Textbook / Ed. N.I. Stuklova. - M.: GEOTAR-Media, 2016. -- 112 p. : ill. - (Library of the medical specialist). - ISBN 978-5-9704-3625-7 : 530.00.
16. Internal medicine in clinical cases [Electronic resource]: Collection of articles. Issue 14 / Ed. V.S. Moiseeva, J.D. Kobalava, P.P. Ogurtsova. - electronic text data. - M.: Publishing house of RUDN, 2015. -- 166 p. : ill. - ISBN 978-5-209-06407-7.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
17. 16. Differential diagnosis of internal diseases [Electronic resource] / Ed. V.V. Shchekotova, A.I. Martynova, A.A. Spassky. - M.: GEOTAR-Media, 2017.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
18. Hepatology. Fundamentals of Internal Medicine. Manual for Physicians. Zh. D. Kobalava, S. V. Moiseyev, V. S. Moiseyev. Redaction acad. RAMS V. S. Moiseyev. - M.: GEOTAR-Media, 2014. C: 573 - 636. <http://lib.rudn.ru/MegaPro/Web/Search/Simple>
19. FUNDAMENTALS OF INTERNAL MEDICINE G.N. Avakyan, O.V. Averkov, S.V. Willewalde, S.L. Voznesensky, V.P. Golub et al. Manual for doctors in 2 volumes / Moscow, 2020. (2nd edition, revised and expanded)
<http://lib.rudn.ru/MegaPro2/Web/SearchResult/ToPage/1>

Additional readings (sources):

1. Diagnosis and treatment of emergency conditions in a therapeutic clinic. Textbook. Ed. by P.P. Ogurtsov, E.V. Dvornikov. Publishing house: M.: LLC "Medical news Agency", Year: 2018. – 624 p.
2. Acute cardiac care. Textbook. Ed. by P.P. Ogurtsov, E.V. Dvornikov. Publishing house: Moscow: Publishing group "GEOTAR-Media, 2016. – 272 p.
3. Metabolic syndrome [Text/electronic resource]: Guidelines for therapists, cardiologists, endocrinologists, gastroenterologists / PP Cucumbers. - Electronic text data. - M.: publishing house of PFUR, 2013. - 16 p. - ISBN 978-5-209-05270-8: 10.60.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
4. P. P. Ogurtsov, N.V. Mazurchik, I.V. Garmash, O. I. Tarasova, T. S. Polikarpova. Hepatorenal syndrome in liver cirrhosis: risk factors, prevention and treatment. Methodical recommendation. – M.: publishing house of RUDN, 2010.- 15pg.
5. Hematology [Electronic resource]: National guidelines / Edited by O. A. Rukavitsyn. - Moscow: GEOTAR-Media, 2015. <http://lib.rudn.ru/MegaPro/Web/Search/Simple>
6. Anemia [Electronic resource] / edited by O. A. Rukavitsyn. - 2nd ed.. I DOP. - M.: GEOTAR-Media, 2016. - 256 p.: Il. - ISBN 978-5-9704-3978-4.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
7. Internal diseases: differential diagnosis and treatment [Text]: Textbook / I.N. Bokarev, L.V. Popova. - Moscow: Medical news Agency, 2015. - 773 p - ISBN 978-5-9986-0217-7: 1350.00.

8. Anemias. Clinic, diagnostics and treatment [Text]: tutorial / N.I. Stuklov, V.K. Alpidowski. - M.: MIA, 2013. - 264 p. - 0.20.
<http://lib.rudn.ru/MegaPro/Web/SearchResult/ToPage/1>
9. Diagnosis of family hyperlipidemia [Electronic resource]: Teaching aid / V.I. Kuznetsov, V.A. Koshechkin, A.M. Amaeva. - Electronic text data. - Moscow: Publishing house of RUDN, 2015. - 34 p.: Il. - ISBN 978-5-209-06523-4.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
10. Internal diseases [Electronic resource]: In 2 volumes. Vol. 1: Course of internal medicine clinic / S.P. Botkin. - Moscow: GEOTAR-Media, 2013.
<http://lib.rudn.ru/MegaPro/Web/SearchResult/ToPage/464497>
11. Internal disease. [Electronic resource]: In 2 volumes. Vol. 2: Clinical lectures / S.P. Botkin. - Moscow: GEOTAR-Media, 2013
<http://lib.rudn.ru/MegaPro/Web/SearchResult/ToPage/464497>
12. Diagnosis and its justification [Text]: Textbook: For students of the 3-6 course of the medical faculty "General medicine" / S.V. Villevalde [et al.]; Ed. Zh.D. Kobalava. - M.: Publishing house of RUDN, 2016 - 188 p.: Il. - ISBN 978-5-209-06927-0 : 136.43. 104
13. Internal medicine [Electronic resource]: Textbook / V.I. Makolkin, S.I. Ovcharenko, V.A. Sulimov. - 6th ed.. I DOP. - M.: GEOTAR-Media, 2017
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
14. Yu.V. Shchukin. Functional diagnostics in cardiology [Electronic resource]: Textbook / - Moscow: GEOTAR-Media, 2017. - 336 p.- ISBN 978-5-9704-3943
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
15. Cardiology [Electronic resource]: National leadership / Ed. E.V. Shlyakhto. - 2nd ed. I DOP. - M.: GEOTAR-Media, 2015.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
16. Internal diseases propedeutics [Electronic resource]: Textbook / V.T. Ivashkin, A.V. Okhlobystin. - Moscow: GEOTAR-Media, 2016.
<http://lib.rudn.ru/MegaPro/Web/Search/Simple>
17. Clinical Cases in Internal Diseases Specialty (in English) [Текст] Study guide for internal medicine / ed. Zh. D. Kobalava. - M. : PFUR, 2018. - 89 p. - ISBN 978-5-209-08527-0 : 49.21.
18. Internal diseases by Tinsley R. Harrison Classic of modern medicine, Moscow 2008.
19. Guidelines for cardiology. In 4 volumes. Volume 2. Methods of diagnosis of cardiovascular diseases. Editor Evgeny Chazov, Publishing house Praktika, 2014 – 776 p.
20. Davidson's internal medicine. Cardiology. Hematology Under the General editorship of N.A. Mukhin. - Moscow: GEOTAR-Media, 2009. - 288c.
21. Heart disease in Braunwald. Guidelines for cardiovascular medicine. In 4 volumes. Ed. by P. Libby and others; transl.from English., edited by R. G. Oganov, Logosphere Publishing house, 2013.
22. Sherlock W., J. Dooley. Diseases of the liver and biliary tract. Translation from English/Ed. Z.G. Aprošina, N.A. Mukhin. – Moscow: Publishing house GEOTAR-Media, 2002. – 864 p.
23. Differential diagnosis in the clinic of internal diseases. V.A. Vinogradov, 2009
24. Cardiology: National Manual. Short Edition / Redaction. E.B. Shlahto. - 2nd Ed. Over. and Up. – M. Publishing house GEOTAR-Media. 2020.
https://bookmos.ru/components/com_jshopping/files/img_products/kardiologiya-nacionalnorukovodstvo-kratkoize-danie-2020-978-5-9704-53971.pdf

25. Cardiology: National Manual / Redaction. E. V. Shlyahoto. - 2nd D. - revised. and up. – Moscow.
26. GEOTAR-Media, 2021.
<https://www.rosmedlib.ru/book/ISBN9785970460924.html>
27. Russian clinical recommendations. Rheumatology. Edition Academic RAN E.L. Nasonov, M. GEOTAR-Media. - 2020, 448 p.
28. Rheumatology. Training manual. Redaction Prof. A.A. Usanova. M, GEOTAR-Medicine - 2018, 408 p.
29. Rheumatology: training manual / Redaction Prof. H.A. Shostak. - M.: GEOTAR-Media, 2012. - 448 p.
30. Medical manual. Diagnosis and treatment. Adamolekun, Alexander, Altman: The Merck Manual , 2015r.
31. Zakim and Boyer's Hepatology: A Textbook of Liver Disease. 5th edition. Philadelphia: Saunders, 2006, 1765 pp.
32. Gastroenterology. National Administration / Redaction V.T. Ivashkin, T.L. Lapina M.:GEOTAR-Media, 2008. 704

Internet resources:

1. ELMS RUDN and third-party ELMS, to which University students have access on the basis of con-tracts:
 - The electronic library management system of PFUR – PFUR ELMS <http://lib.rudn.ru/MegaPro/Web>
 - ELMS "University library online" <http://www.biblioclub.ru>
 - ELMS Yurait <http://www.biblio-online.ru>
 - ELMS "Consultant of a student" www.studentlibrary.ru
 - ELMS "LAN" <http://e.lanbook.com/>
2. Databases and search engines:
 - electronic Fund of legal and normative-technical documentation <http://docs.cntd.ru/>
 - search engine Yandex <https://www.yandex.ru/>
 - Google search engine <https://www.google.ru/>
 - Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>
 - WHO documentation centre <http://whodc.mednet.ru/>

National guidelines for cardiology – 2015, rheumatology – 2010, pulmonology – 2013, Nephrology – 2014, gastroenterology – 2015, Physiology and pathology of hemostasis. Textbook. Ed.And. Steklova, 2016 Manual of Hematology, edited by A. I. Vorob'ev – 2002.

Electronic full-text materials:

1. Student consultant [Electronic resource]: Database / Publishing group "GEOTAR-Media"; LLC "Institute of health management problems". - Moscow: GEOTAR-Media, 2013. - Access mode: <http://www.studmedlib.ru/> Access by login and password after registration from the territory of the PFUR. <http://lib.rudn.ru:8080/MegaPro/Web>
2. Database elibrary.ru - scientific electronic library. <http://elibrary.ru/defaultx.asp>
3. Russian society of cardiology <https://scardio.ru/>

4. European Association of cardiologists <https://www.escardio.org/>
 5. American heart Association <https://www.acc.org>
 6. Society of heart failure specialists <http://www.ossn.ru/>
 7. Center for the study of liver PFUR <http://www.hepatocentre.ru/>
 8. Gastroportal <http://www.gastroportal.ru/>
 9. The website of the world organization of gastroenterology
<http://www.worldgastroenterology.org/>
 10. Website of the Russian gastroenterological Association <http://www.gastro.ru/>
 11. European Association for the study of the liver <https://easl.eu/>
 12. American Association for the study of liver diseases <https://www.aasld.org/>
- Training toolkit for self- studies to master the course* *:

1. The set of lectures on the course “Hospital Therapy”
2. The laboratory workshop (if any).on the course “Hospital Therapy”
3. The guidelines for writing a course paper / project (if any) on the course “Hospital Therapy”.

* The training toolkit for self- studies to master the course is placed on the course 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 UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (GC-1; GPC-5; SPC-1, SPC -2, SPC -3.) upon the course study completion are specified in the Appendix to the course 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).

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Hematology
and Clinical Laboratory
Diagnostics

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