

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ястребов Олег Александрович
Должность: Ректор
Дата подписания: 21.05.2026 14:30:08
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**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

PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT

internship title

productive

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

General Medicine

higher education programme profile/specialisation title

1. INTERNSHIP GOAL(s)

«PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT» is included in the program 31.05.01 «General Medicine» and takes place in the 8th semester 4th year. The practice is implemented by the Department of Faculty Surgery

The goal of the «PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT» is to master the theoretical foundations, standards, and algorithms for performing emergency medical manipulations in terms of providing emergency medical care to surgical patients.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship implementation is aimed at the development of the following competences (competences in part) among students: GPC-1, PC-1, PC-2, PC-3, PC-4, PC-6

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-1	Being able to implement moral and legal norms, ethical and deontological principals in professional activity	GPC-1.1. Being able to abide by the ethical standards and legal regulations in professional activity. GPC-1.2. Being able to present professional information in the process of intercultural interaction observing the principles of ethics and deontology.
PC-1	Being able to provide emergency or urgent medical care to a patient	PC-1.1. Being able to assess the condition of a patient who needs emergency or urgent medical care. PC-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. PC-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. PC-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. PC-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)). PC-1.6. Being able to use drugs and medical devices when providing medical care in emergency or urgent forms.

<p>PC-2</p>	<p>Being able to examine a patient in order to determine a diagnosis</p>	<p>PC-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>PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.</p> <p>PC-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>PC-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>PC-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>PC-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>PC-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>
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PC-3	Being able to prescribe treatment and monitor its efficacy and safety	<p>PC-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>PC-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>PC-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>PC-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>PC-3.5. Being able to provide palliative care in collaboration with medical specialists and other healthcare professionals.</p> <p>PC-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.</p>
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PC-4	Being able to implement and monitor the patient's medical rehabilitation efficacy, including when implementing individual rehabilitation and habilitation programmes for persons with disabilities; assess the patient's ability to work	<p>PC-4.1. Being able to conduct an examination of temporary disability and work as part of a medical commission which examines temporary disability.</p> <p>PC-4.2. Being able to prepare necessary medical documentation to carry out medical and social examination in federal state institutions of medical and social examination.</p> <p>PC-4.3. Being able to carry out medical rehabilitation measures for a patient, including when implementing an individual rehabilitation or habilitation programme for persons with disabilities, 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-4.4. Being able to refer a patient who needs medical rehabilitation to a medical specialist so that they prescribe and carry out medical rehabilitation measures, including when implementing an individual rehabilitation or habilitation programme for persons with disabilities, in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on provision of medical care taking into account the standards of medical care.</p> <p>PC-4.5. Being able to refer a patient who needs medical rehabilitation to a medical specialist so that they prescribe and carry out sanatorium treatment, including when implementing an individual rehabilitation or habilitation programme for persons with disabilities, 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-4.6. Being able to assess the efficacy and safety of medical rehabilitation measures for a patient 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-4.7. Being able to refer a patient with a persistent bodily dysfunction caused by diseases, the consequences of trauma or defects to a medical and social examination.</p>
PC-6	Being able to keep medical records and organize the activities of the nursing staff	<p>PC-6.3. Being able to keep medical records, including in the electronic form.</p> <p>PC-6.4. Being able to monitor the performance of official duties by a district nurse and other medical workers at the disposal.</p> <p>PC-6.5. Being able to provide internal control of quality and safety of medical activities within the scope of employment responsibilities.</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

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GPC-1	Being able to implement moral and legal norms, ethical and deontological principals in professional activity	Propaedeutics of internal diseases; Psychology and pedagogy; General Surgery; Legal studies; Latin language; History of medicine; Practice in obtaining primary professional skills and professional experience: assistant to a procedural nurse; Practice of diagnostic profile: assistant ward nurse;	Forensic medicine; Fundamentals of medical law; Obstetric and gynecological practice: assistant to a gynecologist; Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;

PC-1	Being able to provide emergency or urgent medical care to a patient	<p>Ophthalmology; Propaedeutics of internal diseases; Obstetrics and Gynecology; General Surgery; Faculty therapy; Faculty Surgery; Neurology, medical genetics, neurosurgery; Emergency medicine for life-threatening conditions; Urology; Practice in obtaining primary professional skills and professional experience: assistant to a procedural nurse; Practice of diagnostic profile: assistant ward nurse; The practice of emergency medical procedures (simulation center);</p>	<p>Urgent conditions; Disaster Medicine; Obstetrics and Gynecology; Infectious diseases; Pediatrics; Endocrinology; Outpatient therapy; Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Hospital therapy; Endoscopic urology; Allergology; Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;</p>
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PC-2	Being able to examine a patient in order to determine a diagnosis	<p>Medical Enzymology**; Molecular genetics in practical biology and medicine**; Ophthalmology; Propaedeutics of internal diseases; Elementology; Obstetrics and Gynecology; Immunology; Otorhinolaryngology; General Surgery; Faculty therapy; Faculty Surgery; Microbiology, virology; Pathophysiology, clinical pathophysiology; Neurology, medical genetics, neurosurgery; Evidence-based medicine; Radiation diagnostics; Dermatovenerology; Molecular genetic methods; Pathological anatomy, clinical pathological anatomy; Urology;</p>	<p>Telemedicine; General medical skills; Urgent conditions; Obstetrics and Gynecology; Infectious diseases; Pediatrics; Maxillofacial surgery; Sectional course; Occupational diseases; Endocrinology; Psychiatry, medical psychology; Phthysiology; Outpatient therapy; Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Clinical Dentistry; Current issues of neonatology**; Topical Issues of Neonatology**; Cardiology in quests; Methods of microbiological diagnostics; Hospital therapy; Endoscopic urology; Allergology; Radiology; Outpatient pulmonology; Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;</p>
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PC-3	Being able to prescribe treatment and monitor its efficacy and safety	Introduction to Nutrition**; Ophthalmology; Obstetrics and Gynecology; Otorhinolaryngology; Faculty therapy; Pharmacology; Faculty Surgery; Fundamentals of Integrative Medicine**; Neurology, medical genetics, neurosurgery; Dermatovenerology; The basics of therapeutic nutrition; Clinical Trials**; Clinical trials**; Urology; Mechanisms of drug action;	Telemedicine; General medical skills; Urgent conditions; Obstetrics and Gynecology; Infectious diseases; Pediatrics; Maxillofacial surgery; Sectional course; Occupational diseases; Endocrinology; Psychiatry, medical psychology; Phthisiology; Outpatient therapy; Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Clinical Dentistry; Current issues of neonatology**; Topical Issues of Neonatology**; Cardiology in quests; Methods of microbiological diagnostics; Hospital therapy; Endoscopic urology; Allergology; Radiology; Outpatient pulmonology; Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;
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PC-4	Being able to implement and monitor the patient's medical rehabilitation efficacy, including when implementing individual rehabilitation and habilitation programmes for persons with disabilities; assess the patient's ability to work	Organization of special patient care; Faculty therapy; Faculty Surgery; Public health and healthcare, economics healthcare; Medical rehabilitation; Neurology, medical genetics, neurosurgery;	Examination of temporary disability**; Occupational diseases; Endocrinology; Forensic medicine; Outpatient therapy; Hospital surgery, pediatric surgery; Traumatology, orthopedics; Hospital therapy; General medical practice: assistant to an outpatient clinic doctor;
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PC-6	Being able to keep medical records and organize the activities of the nursing staff	<p>Ophthalmology; Propaedeutics of internal diseases; Obstetrics and Gynecology; Bioethics**;</p> <p>General Surgery; Faculty therapy; Faculty Surgery; Public health and healthcare, economics healthcare; Radiation diagnostics; Biostatistics; Urology; Practice in obtaining primary professional skills and professional experience: assistant to a procedural nurse; Introductory practice on obtaining primary professional skills: patient care; Introductory practice on obtaining primary Professional skills: patient care (simulation center); Practice in obtaining primary professional skills: assistant to junior medical staff;</p>	<p>Telemedicine; General medical skills; Urgent conditions; Obstetrics and Gynecology; Infectious diseases; Pediatrics; Maxillofacial surgery; Sectional course; Occupational diseases; Endocrinology; Psychiatry, medical psychology; Phthisiology; Outpatient therapy; Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Clinical Dentistry; Current issues of neonatology**;</p> <p>Topical Issues of Neonatology**;</p> <p>Cardiology in quests; Methods of microbiological diagnostics; Hospital therapy; Endoscopic urology; Allergology; Radiology; Outpatient pulmonology;</p> <p>Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;</p>
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* To be filled in according with the competence matrix of the higher education programme.

4. INTERNSHIP WORKLOAD

The total workload of the internship is 6 credits (216 academic hours).

5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents**

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Module 1. Safety briefing	Topic 1.1. Safety of personnel in providing assistance.	3
	Topic 1.2. Legal aspects of the provision and non-provision of assistance to victims (patients).	3
	Topic 1.3. Safety in the reception department. Safety precautions in the surgical department. Safety precautions in the diagnostic department. Safety precautions in the operating unit	3
Module 2. Fundamentals of the organization of surgical care (clinical bases)	Topic 2.1. Surgery as a field of medicine. Regulatory documents. Principles of operation of emergency and planned surgical services. Prevention of surgical diseases. Dispensary registration of surgical patients. National clinical guidelines for surgery.	9
Module 3. Diagnostic methods in surgery (clinical bases)	Topic 3.1. Physical examination. Endoscopic research methods. Ultrasonic research methods. Radiological methods. MRI diagnostics. Indications, sensitivity and specificity of various research methods. The scope of clinical and laboratory studies and their tasks in preparing the patient for planned and emergency surgical interventions.	18

<p>Module 4. Particular issues (clinical bases)</p>	<p>Topic 4.1. Acute appendicitis: classification, clinic, diagnosis, treatment. Appendicular infiltration: diagnosis, principles of treatment. Peritonitis, classification, diagnosis, principles and methods of treatment. Peptic ulcer of the stomach and duodenum, etiology, classification, diagnosis, indications for surgical treatment, types of operations. Complications of peptic ulcer of the stomach and duodenum: perforated ulcer, bleeding ulcer, pyloroduodenal stenosis, stomach cancer. Liver diseases. Liver injury. Cysts, abscesses and tumors. Differential diagnosis. Features of the treatment. Treatment. Housing and communal services, classification. Acute and chronic calculous cholecystitis, etiology, classification, clinical picture, diagnosis, treatment methods, tactical approaches. Acute cholecystitis (classification, clinic, diagnosis, complications, treatment). Choledocholithiasis clinical picture, diagnosis, treatment methods, tactical approaches. Methods of intraoperative diagnosis of choledocholithiasis, their informative value. Indications for choledochotomy, the imposition of bilio-digestive anastomoses. Syndrome of mechanical jaundice. Cholangitis. Liver abscess. Liver failure. Features of the surgeon's tactics in acute cholecystitis complicated by cholangitis, mechanical jaundice, cholecystopancreatitis. Pancreatonecrosis. Classification, clinic, pathogenesis, stages of the disease. Complications are early (shock, enzymatic peritonitis, acute liver failure, vascular thrombosis, jaundice, intoxication psychoses) and late (abscesses of the pancreas and abdominal cavity, retroperitoneal phlegmon, postnecrotic pancreatic cysts, erosive and gastrointestinal bleeding). Chronic painful pancreatitis: clinic and diagnosis. Conservative treatment, indications for surgical treatment, types of interventions. Pseudotumorous form of chronic pancreatitis: clinic, diagnosis, treatment. Intestinal obstruction. The pathogenesis of the disease. Features of the diagnosis of various types of intestinal obstruction. Therapeutic tactics. Conservative treatment. Indications for surgery for acute intestinal obstruction. Types of surgical interventions for acute intestinal obstruction. Adhesive disease of the abdominal organs. Definition of the concept, clinical picture, treatment methods. Inguinal and postoperative hernias of the anterior abdominal wall: etiology, clinical picture, diagnosis, modern methods of treatment. Femoral hernias, clinic, diagnosis, treatment. Pinched hernia: diagnosis and principles of surgical treatment. Errors, dangers and unforeseen complications in the surgical treatment of a pinched inguinal and femoral hernia. The surgeon's tactics in case of spontaneous reduction of a strangulated hernia on the way of transportation. Gastrointestinal bleeding.</p>	<p>162</p>
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	Ulcerative gastroduodenal bleeding, clinical picture, differential diagnosis, treatment. Endoscopic classification according to Forrest. Bleeding from the upper gastrointestinal tract, etiology, diagnosis, treatment tactics. Intestinal bleeding, etiology, diagnosis, treatment tactics. Nonspecific inflammatory bowel diseases. Nonspecific ulcerative colitis. Clinical picture, diagnosis, indications for surgical treatment. Crohn's disease. Clinical picture, diagnosis, indications for surgical treatment. Closed abdominal injury. Colon cancer: clinic depending on the nature of growth and localization of the process. Treatment, prognosis. Complication of colon cancer: intestinal obstruction, perforation, bleeding. Clinic. Preoperative preparation. The choice of the surgical treatment method depends on the patient's condition and the localization of the process. Palliative surgery for colon cancer and features of postoperative management. Thrombosis and embolism of mesenteric vessels: etiology, pathogenesis, clinical stages of the disease, principles of diagnosis and surgical treatment. Purulent surgery. Fractures and dislocations. Clinical picture, diagnosis, tactics of conservative and surgical treatment. Extramedullary and intramedullary osteosynthesis. Knee and hip arthroplasty: indications, options for surgical treatment	
Writing an internship report		9
Preparing for defence and defending the internship report		9
	TOTAL	216

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The internship «PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT» is conducted at the bases of surgical profile departments of clinical practice bases, which are equipped in accordance with equipment standards and are designed to provide medical care in outpatient and inpatient settings in emergency and planned forms.

Specialized educational/laboratory equipment, software and materials for mastering the discipline (if necessary) - Production equipment necessary for successful completing an internship is provided by departments of various profiles of clinical practice bases. **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

Classroom type	Equipment of the	Specialized educational/laboratory
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	classroom	equipment, software and materials for the development of the discipline (if necessary)
Departments of surgical profile of clinical practice bases	Standard equipment of medical facilities	The production equipment necessary for the successful completion of industrial practice is provided by departments of various profiles of clinical practice bases

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

7. INTERNSHIP LOCATION AND TIMELINE

The internship «PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT» is conducted at the bases of medical and diagnostic departments of clinical practice bases.

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. Nikitin I.S., Galustov A.M., Lobzhanidze B. D. [et al.]. General medical skills. Execution algorithms. General medical skills. Algorithms of performance. Moscow: RUDN. 2020, 355 p.
2. Kuzin M.I., Kuzin N.M., Kubyshkin V.A. and others. Surgical diseases. - 5th ed., reprint. and additional – M.: GEOTAR-Media, 2022. - 1024 p.: ill. Textbook of the Ministry of Health of the Russian Federation
3. Kostsova N.G., Tigai Zh.G., Dogotar O.A. [et al.]. General medical skills. Execution algorithms. Peoples' Friendship University of Russia. 2019, 112 p.
4. Materials of the Federal Methodological Accreditation Center: a list of practical skills in simulated conditions. <https://fmza.ru>
5. Edited by Savelyev V.S., Kiriyyenko A.I. Surgical diseases. – M.: GEOTAR-MEDIA, 2017-720s., 2 volumes. Textbook.
6. Pautkin Yu.F., Klimov A.E., Pogosov A.G. Student practice in a surgical clinic. – M.: I-vo RUDN, 2011. Study guide
7. Clinical recommendations. Acute appendicitis in adults. https://cr.minzdrav.gov.ru/preview-cr/325_2
8. Clinical recommendations. Inguinal and femoral hernia. https://cr.minzdrav.gov.ru/preview-cr/684_2
9. Clinical recommendations. Postoperative ventral hernia. https://cr.minzdrav.gov.ru/preview-cr/685_2
10. Clinical recommendations. Cholecystitis. https://cr.minzdrav.gov.ru/preview-cr/819_1

11. Clinical recommendations. Acute pancreatitis.
https://cr.minzdrav.gov.ru/preview-cr/903_1
12. Clinical recommendations. Chronic pancreatitis.
https://cr.minzdrav.gov.ru/preview-cr/273_5
13. Clinical recommendations. Cirrhosis and fibrosis of the liver.
https://cr.minzdrav.gov.ru/preview-cr/715_1
14. Clinical recommendations. Liver cancer (hepatocellular).
https://cr.minzdrav.gov.ru/preview-cr/1_3
15. Clinical recommendations. Peptic ulcer disease.
https://cr.minzdrav.gov.ru/preview-cr/277_2
16. Clinical recommendations. Stomach cancer.
https://cr.minzdrav.gov.ru/preview-cr/574_1
17. Clinical recommendations. Crohn's disease.
https://cr.minzdrav.gov.ru/preview-cr/176_2
18. Clinical recommendations. Ulcerative colitis.
https://cr.minzdrav.gov.ru/preview-cr/193_2
19. Clinical recommendations. Diverticular disease.
https://cr.minzdrav.gov.ru/preview-cr/179_3
20. Clinical recommendations. Hemorrhoids. https://cr.minzdrav.gov.ru/preview-cr/178_2
21. Clinical recommendations. Acute non-cancerous intestinal obstruction.
https://cr.minzdrav.gov.ru/preview-cr/327_3
22. Clinical recommendations. Acute intestinal obstruction of tumor etiology.
https://cr.minzdrav.gov.ru/preview-cr/462_2
23. Clinical recommendations. Rectal cancer. https://cr.minzdrav.gov.ru/preview-cr/554_3
24. Clinical recommendations. Varicose veins of the lower extremities.
https://cr.minzdrav.gov.ru/preview-cr/680_2
25. Clinical recommendations. Benign breast dysplasia.
https://cr.minzdrav.gov.ru/preview-cr/598_3
26. Clinical recommendations. Breast cancer.
https://cr.minzdrav.gov.ru/preview-cr/379_4

Additional readings:

1. Kostsova N.G., Badretdinova A.I., Tigai Zh.G. [et al.]. Fundamentals of care for surgical patients. Basics of care for surgical patients. Peoples' Friendship University of Russia. 2020, 292 p.
2. Kostsova N.G., Badretdinova A.I., Tigai Zh.G. [et al.]. Fundamentals of patient care in a surgical clinic. A study guide. (Basics of nursing care in surgery. Tutorial). Moscow: GEOTAR-Media Publishing Group LLC. 2020, 312 p. Recommended by the Coordinating Council for Education.
3. Fedorov A.G., Davydova S.V., Ivanov V.A., Klimov A.E. Acute pancreatitis. Pancreatonecrosis. Textbook. M. 2021. Publishing House RUDN.
4. Lebedev N.V., Klimov A.E., Barkhudarov A.A., Klimenko A.S. Acute pancreatitis: Clinic. Diagnostics. Treatment. Textbook. M. 2021. Publishing house RUDN.
5. Klimov A.E., Uzoma C.C., Mylnikov A.G., Barkhudarov A.A., Klimenko A.S. Colonic diverticular disease. Textbook. M. 2022. Publishing house RUDN.
6. Surgical diseases. Edited by A.F. Chernousov, M.: GEOTAR-Media, 2014.
7. Zatevakhini I., Kirienko A.I., Kubyshki N.A. Abdominal surgery. National leadership. - M.: GEOTAR-MEDIA, 2016 - 912c.

8. Saveliev.S., Kirienko A.I. The National Manual "Clinical Surgery" in 3 volumes. - M.: GEOTAR-Media, 2008 - 2010.
9. Klimov A.E., Barkhudarov A.A., Popov V.S. and others. Collection of test tasks on the discipline "Faculty surgery". M. 2019. RUDN Publishing House.
10. Shine M., Rogers P., Assalia A. "Common sense in emergency abdominal surgery, 3rd edition, Russian Surzhinet, 2015, 651 p.
11. Kiriyyenko A.I., Chernyavsky A.M., Andriyashkin V.V. (ed.) "Pulmonary embolism: how to treat and prevent." - M.: MIA, 2015.
12. Kiriyyenko A.I., Panchenko E.P., Andriyashkin V.V. "Venous thrombosis in the practice of a therapist and surgeon." - M.: PLANIDA, 2012.

Resources of the Internet information and telecommunication network:

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>
- ABS Yurayt <http://www.biblio-online.ru>
- EBS "Student Consultant" www.studentlibrary.ru
- EBS "Znaniy" <https://znaniy.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/>
- Scientometric database Lens.org <https://www.lens.org>

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

1. Safety rules during the internship «PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT» (initial briefing).

2. The general structure and principle of operation of technological production equipment used by students during their internship; technological maps and regulations, etc. (if necessary).

3. Methodological guidelines for students to fill out a diary and prepare a practice report «PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT».

*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.

9. 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 (competences in part) formation as the internship «PRACTICE IN THE SURGICAL FIELD: SURGICAL ASSISTANT» 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

A.A. Barkhudarov

of Faculty Surgery

position, department name

signature

initials, last name

Assistant Professor, Department
of Faculty Surgery

position, department name

signature

A.S. Berisha

initials, last name

HEAD OF EDUCATIONAL DEPARTMENT:

Head of the Department of
Faculty Surgery

position, department name

signature

A.E. Klimov

initials, last name

**HEAD OF
HIGHER EDUCATION PROGRAMME:**

Deputy Director of Medical
Institute

position, department name

signature

N.V. Sturov

initials, last name