Programme of internship "Doctor's Assistant". Contens

Section 1.	General provisions	5
Section 2.	Organisation of practice	15
Section 3.	Content of the practice	19
Section 4.	Summing up the practice	23
Section 5.	A list of textbooks and Internet resources to be used to conduct the practice	23
Section 6.	List of information technologies used in the practice, including a list of software and information technology reference systems	25
Section 7.	Description of the facilities required to carry out practices	26
Section 8.	Assessment tools for intermediate assessments of students of students in the practice	26

Section 1: General provisions

1.1. Purpose of the practice

The industrial practice "Doctor's Assistant" is an integral part of the higher education programme and represents one of the forms of the educational process organisation, which consists in professional and practical training of students at the practice facilities, contributes to consolidation of theoretical knowledge, the establishment of necessary business contacts of the university with enterprises, organisations and institutions.

Internships are compulsory and are aimed at providing students with practical skills, developing their ability to make independent decisions on specific jobs under real-life conditions, and providing students with a holistic view of the content, types and forms of professional activity.

1.2. Legal and regulatory support for the development of the internship programme:

1) Federal Law of the Russian Federation of 29 December 2012 No. 273-FZ "On Education in the Russian Federation".

2) Order of the Ministry of Education and Science of the Russian Federation of 19 December 2013 No. 1367 "On Approval of the Procedure of Organisation and Implementation of Educational Activities under Higher Education Programmes - Bachelor's, Specialist and Master's Degree Programmes".

3) Order No. 1383 dated 27 November 2015 "On Approval of the Regulations on Practical Training of Students Studying Basic Professional Educational Programmes of Higher Education".

4) Federal State Educational Standard of Higher Professional Education in the Field of Education 31.05.01 Medical Medicine, approved by Order No. 95 of the Ministry of Education and Science of the Russian Federation, February 9, 2016

5) Charter GBOU VPO RNIMU them. N.I. Pirogov of the Ministry of Health of Russia. (RNRMU)6) Regulations on Current Control of Academic Performance and Interim Assessment of

Students at N.I. Pirogov State Research Medical University of the Ministry of Health Care of the Russian Federation.

 Curriculum of the educational programme for specialist training in the field of medicine 31.05.01.

1) Other local regulations of N.I. Pirogov Russian State Research Medical University

1.3. The type and type of practice and the way and form of carrying it out.

1.3.1. Type of practice - industrial practice

- 1.3.2. The type of practice is clinical practice.
- 1.3.3. The way in which the practice is carried out is stationary
- 1.3.4. Form of practice discrete
- **1.4.** Purpose of practice.

The aim of the practice is to consolidate and deepen the theoretical training of the student, to acquire practical skills, knowledge and abilities, to form the competencies that constitute the content of the professional activity of the ward nurse.

1.5. List of intended learning outcomes of the practical training which relate to the intended learning outcomes of the educational programme

The emperted learning outcomes of the distinguish	The student's competencies	Commonter
The expected learning outcomes of the discipline (module): (knowledge, skills)	The student's competencies, which the learning outcomes of the discipline (module) are aimed at forming	Compartm ent code
General cultural	competences	
 Know: basic terms and terminology, basics of searching for professional information in the literature and on the internet. Be able to: independently search for necessary professional information, using periodicals, medical literature and the Internet, adequately formulate search queries, make generalised conclusions on the basis of the information obtained. 	Ability to abstract thinking, analysis, synthesis	OK-1
 Knowledge of: socially accepted moral and legal standards, rules of medical ethics and medical deontology, laws and regulations for dealing with confidential information, including medical confidentiality. Be able to: carry out professional activities on the basis of socially accepted moral and legal norms, rules of medical ethics and medical deontology, laws and regulations on the work with confidential information, including medical confidentiality. Have skills in: medical ethics and medical deontology 	Willingness to work as a team, tolerant of social, ethnic, occupational and cultural differences	OK-8

General professiona	al competences	
 Know: Basics of human-environment interaction, scientific basics of hygienic standardisation of harmful factors; methods of hygienic research of environmental objects; basic principles of building a healthy lifestyle; The principles of organising preventive measures to prevent the adverse effects of environmental factors on the human body To be able to: identify indicators and analyse the impact of individual objects and factors of the environment; Identify risk factors for major human diseases and take preventive measures against them; Work independently with academic, scientific and reference literature; draw generalisable conclusions Know: methods of organoleptic examination of water, foodstuffs, polymeric materials; Methods for assessing the quality of the built environment 	Willingness to solve standard professional tasks using information, Readiness to solve standard professional tasks using informational, bibliographic resources , medical and biological terminology, information-communication technologies and basic requirements of information security.	OPK-1
 Know: assess the social factors affecting the physical and psychological health of the patient: cultural, ethnic, religious, individual, family, social risk factors (unemployment, violence, illness and death of relatives, etc.); Be able to: determine the patient's status: collect anamnesis, interview the patient and/or his/her relatives, determine the stages of development, including occupational pathology (present the modern classification of occupational diseases, identify conditionally and proper occupational diseases). 	The ability and willingness to implement ethical and deontological principles in professional practice.	OPK-4
Know: basic normative and technical documents on adult and women's health care; maternal and child health (MCH) services and facilities Know how to: make a comprehensive and concise report based on the analysis of health and hygiene	Ability and willingness to analyse your own performance to prevent professional misconduct of the mistakes	OPK-5
data Skills: How to fill in medical records (outpatient cards), how to use them and what to do, emergency notification)	Willingness to keep medical records.	OPK-6

 Know: the clinical and pharmacological characteristics of the main groups of medicines and the rational choice of specific medicines for the treatment of the main pathological syndromes, diseases and emergencies in patients Be able to: assess the effectiveness and safety of the treatment being given; Use different ways of administering medication. Know how to administer medication. 	Readiness for the medical use of drugs and other substances and their combinations in the performance of professional tasks.	OPK-8
 Know: Main indicators of the morphofunctional state of the population, methods and rules of measurement and evaluation methods To be able to: use and apply in practice all known methods for assessing the morphofunctional state of the human organism To be able to: assess the main morphofunctional indicators of adults and children to identify existing disorders in growth and development processes 	The ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems.	OPK-9
Professional co		I
 Know: etiology, pathogenesis, diagnosis and prevention of the most common diseases in the population The basics of preventive medicine aimed at promoting health; To be able to: participate in the organisation of public health and prophylactic care; Know: a) hygienic methods for the assessment of environmental factors affecting human health b) an algorithm for making a preliminary diagnosis and then referring them for further examination and specialist treatment. 	Ability and readiness to carry out a set of measures aimed at preserving and improving health, including the promotion of a healthy lifestyle, the prevention of the occurrence and/or spread of diseases, their early diagnosis, the identification of causes and conditions of their occurrence and development, as well as aimed at the elimination of the harmful effects of- The vehicle is equipped with a passenger compartment.	PC-1
 Knowledge of: clinical picture, peculiarities of course and possible complications of pregnancy, childbirth, diseases of internal organs and in a typical form in different age groups of patients; basic methods of laboratory and instrumental diagnostics used in clinic (indications for use, interpretation of results), rules of collection of pathological materials from a patient; Be able to: suspect therapeutic, surgical and obstetric-gynecological pathology; question the patient and/or relatives/accompanying persons in order to collect anamnesis (including: anamnesis of the present disease, life, epidemiological anamnesis); examine the patient (examination, palpation, percussion, auscultation); plan laboratory and 	Willingness to collect and analyse patient complaints, anamnesis, examination, laboratory, instrumental, pathological- anatomical and other investigations in order to recognise the condition or to establish the presence or absence of disease.	ПК-5

instrumental examination; interpret results of laboratory and instrumental examination of the patient Master the methods of general clinical examination (questioning, examination, palpation, percussion, auscultation) for diagnosis and differential diagnosis of basic clinical syndromes in diseases of internal organs; skills of special surgical and obstetrical- gynecological examination; algorithm of laboratory and instrumental examination in suspected pathology of pregnancy, delivery and internal organs; interpretation of results of laboratory, instrumental and morphological methods of diagnosis		
 Knowledge of: aetiology, pathogenesis and prevention of the most common diseases, complications of pregnancy and childbirth, modern classification of diseases; clinical presentation, features of the course and possible complications of the most common diseases that occur in a typical form in different age groups. Be able to: carry out an initial examination of the systems and organs, make a preliminary diagnosis - synthesise patient information to identify the pathology and its causes. Skills: Algorithm for making a preliminary diagnosis and then referring the patient to the appropriate medical specialist; the algorithm for a detailed clinical diagnosis. 	The ability to identify a patient's main pathological conditions, symptoms, disease syndromes and nosological forms according to the International Statistical Classification of Diseases and Related Health Problems, Revision X. Ability to determine the management of patients with different nosological forms.	PC-6, PC-8
 Know: the factors that shape the health of children and adolescents, the hygiene requirements for the organisation of school classes, the hygiene principles of physical education, the principles and methods of hardening of children; To be able to: carry out preventive activities (lectures, workshops) with children and teenagers and their parents in order to familiarise them with 	Willingness to provide medical care for sudden acute illnesses, conditions and exacerbations of chronic diseases that are not life- threatening and do not require urgent medical care.	
methods to increase their resistance to the adverse factors of the environment, to organise a rational diet and to provide them with food; Skills: Methods and indicators for assessing the effectiveness of physical activity and conditioning in the home and in the pre-school environment	Willingness to educate to address risk factors and promote healthy lifestyles.	PC-16

1.6.	The work placement	"Medical Assistant'	' is based on the	following academic	disciplines:
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Training discipline	Number	Name of competence
Anatomy	C.1.B.2	Knowledge: of the anatomico-physiological, age-sex and individual features of the structure and development of healthy and sick bodies; anatomico-physiological features in pregnant women. Skills: palpate on a person the main bony landmarks, outline the topographic contours of organs and main vascular and nerve trunks; Skills: mastery of medical-anatomical concepts apparatus.
Biology	C.1.B.5	Knowledge of: general laws of origin and development of life; human anthropogenesis and ontogenesis; basic laws of development and vital functions of the organism based on the structural organisation of cells, tissues and organs
Biochemistry	C.1.B.6	Knowledge: about the basics of haemoglobin chemistry, its involvement in gas exchange and the maintenance of acid- base balance; structure and function of the most important chemical compounds (nucleic acids, natural proteins, water- soluble and fat-soluble vitamins, hormones etc.)); physico- chemical methods of analysis in medicine (titrimetric, electrochemical, chromatographic, viscometric); Skills: predict the direction and outcome of physico- chemical processes and chemical transformations of biologically important substances.
Bioethics	C.1.B.7	Knowledge of: moral and ethical standards, rules and principles of professional medical conduct, the ethical foundations of modern medical legislation; Skills: Presentation of an independent point of view, analysis and logical thinking, public speaking, moral and ethical reasoning, debating and round table discussions; solving problematic ethical and legal issues of medical practice, defending patients' interests.
Hygiene	C.1.B.8	Knowledge: doctrine of healthy lifestyle; hygienic basics of organisation of treatment process; population health indicators, factors forming human health (environmental, occupational, natural-climatic, endemic, social, epidemiological, psycho-emotional, occupational, genetic); diseases associated with adverse effects of climatic and social factors; Skills: to carry out preventive, hygienic and anti-epidemic measures; to carry out ecological expertise and ecological forecasting of human activities; to establish cause-and- effect relations of changes in health conditions from exposure to environmental factors

Histology, embryology, cytology	C.1.B.9	Knowledge: of the histofunctional features of the tissue elements and methods of their investigation; Know how to: make a histophysiological assessment of various cellular, tissue and organ structures; describe morphological changes in macroscopic and microscopic specimens and electronograms; explain abnormalities in development that can lead to the formation of anomalies and malformations
Dermatovenerology	C.1.B.12	Knowledge: of the main clinical manifestations of skin diseases (scabies, pediculosis, dermatophytosis), HIV- Infections and sexually transmitted infections
Immunology	C.1.B.13	Knowledge: about the structure and function of the human immune system, its age-specific features, cellular and molecular mechanisms of immune system development and functioning, basic stages, types, genetic control of the immune response, methods of immunodiagnostics. Skills: characterise and assess levels of organisation of the human immune system, assess the mediator role of cytokines; interpret results of basic diagnostic allergy tests.
Latin language	C.1.B.19	 Knowledge: basic medical and pharmaceutical terminology in Latin; Skills: Use at least 900 terminology units and terminology elements; Skills: Reading and writing in Latin clinical and pharmaceutical terms and prescriptions.
Medical rehabilitation	C.1.B.21	Knowledge of: treatment methods and indications for their use; mechanisms of therapeutic effects of physical therapy and physiotherapy, indications and contraindications for their prescription, peculiarities of their implementation.
Microbiology, virology	C.1.B.22	Knowledge of: the classification, morphology and physiology of micro-organisms and viruses, their impact on human health, microbiological diagnostic methods; the use of basic antibacterial, antiviral and biological preparations.
Neurology, medical genetics, neurosurgery	C.1.B.23	Knowledge: laws of genetics its importance for medicine; laws of heredity and variability in individual development as a basis for understanding the pathogenesis and etiology of hereditary and multifactorial human diseases; types of disease inheritance and clinical manifestations of hereditary pathology, general characteristics of diseases with hereditary predisposition, general principles and peculiarities of diagnosis of hereditary diseases, causes of origin and diagnostic significance of morphogenetic variants of diseases congenital anomalies Skills: Solve genetic tasks; Skills: Mastery of methods for studying human heredity (cytogenetic method, genealogical method, twin method).

Normal physiology	C.1.B.24	Knowledge: basic metabolic pathways of carbohydrates, lipids, amino acids, purine and pyridine bases transformation, role of cell membranes and their transport systems in metabolism; anatomico-physiological, age-sex and individual features of structure and development of healthy and sick body; functional systems of human body, their regulation and self-regulation under influence of external environment in norm and pathology; Skills: Identify and evaluate electrocardiography; spirography; thermometry; haematological parameters; distinguish normal serum metabolite levels (glucose, urea, bilirubin, uric acid, lactic acid, pyruvic acid, etc) from abnormal values, read the proteinogram and explain the reasons for the differences.
General surgery, radiology Pathological anatomy, clinical pathological anatomy	C.1.B.25 C.1.B.30	 Knowledge: of the clinical manifestations of major surgical syndromes; Skills: determine from x-rays the presence of fracture and dislocation, free gas in abdomen, hydro- and pneumothorax; complete case history Knowledge of: structural and functional bases of diseases and pathological processes; causes, basic mechanisms of development and outcomes of typical pathological processes, dysfunctions of organs and systems; Skills: visually assess and record changes in the organs and tissues of a corpse, justify the nature of the pathological process and its clinical manifestations; conclude on the cause of death and formulate a pathological anatomical diagnosis;
Pathophysiology, clinical patho- physiology	C.1.B.31	 Skills: Comparison of morphological and clinical manifestations of diseases Knowledge of: concepts of etiology, pathogenesis, disease morphogenesis, nosology, principles of disease classification; basic concepts of general nosology; structural and functional foundations of diseases and pathological processes; causes, basic mechanisms of development and outcomes of typical pathological processes, organ and system dysfunctions; Skills: Analyse issues of general pathology and modern theoretical concepts and trends in medicine; justify the principles of pathogenetic therapy of the most common diseases; Skills: make a preliminary diagnosis based on the results of biochemical studies of human biological fluids.

Law	C.1.B.34	Knowledge of: patient and doctor's rights; responsibilities, rights and place of the doctor in society; Skills: to navigate the current labour regulations, to apply labour law in specific practical situations; to uphold the rights of the medical profession; to protect the civil rights of patients; Skills: Problem-solving ethical and legal issues in medical practice, patient advocacy; informing patients as required The Committee on Economic, Social and Cultural Rights (CESCR).
Propaedeutics of internal medicine, radiology	C.1.B.35	Knowledge: Aetiology, pathogenesis and preventive measures of the most common diseases; modern classification of diseases; clinical picture, peculiarities of course and possible complications of the most common diseases that occur in a typical form; Diagnostic methods, diagnostic possibilities of methods of direct examination of the patient of therapeutic and surgical profile, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic, radiological methods, ultrasonic diagnostics); criteria of diagnosis of different diseases; Skills: collect anamnesis; interview patient and/or relatives, perform physical examination of patient (examination, palpation, auscultation, BP measurement, determination of arterial pulse, etc.)The patient must be able to assess the following: - carry out initial examination of sys- tems and organs: Nervous, endocrine, immune, respiratory, cardiovascular, blood and hematopoietic, digestive, urinary, reactive, musculoskeletal and joints, eye, ear, throat, nose; make a preliminary diagnosis - synthesise patient information to determine pathology and its cause; Plan additional investigations according to the prognosis, to clarify the diagnosis; determine the presence of fracture and dislocation, free gas in abdomen, hydro-pneumothorax from the radiograph; complete the case history; Skills: mastery of simple medical instruments (phonendoscope, spatula, neurological mallet, scalpel, forceps, probe, clamp, dilator, etc.); general clinical examination; interpretation of results of laboratory, instrumental diagnostic methods; making a preliminary diagnosis with subsequent referral to an appropriate specialist doctor; proper maintenance of medical records.

Psychology and	C.1.B.37	Knowledge of: main trends in psychology, general and
	C.I.D.3/	individual characteristics of the human psyche, psychology
pedagogy		of personality and small groups.
Faculty thereas	C.1.B.42	
Faculty therapy, occupational diseases	C.1.D.42	Knowledge: Aetiology, pathogenesis and preventive measures of the most common diseases; modern
occupational diseases		
		classification of diseases; clinical picture, peculiarities of course and possible complications of the most common
		diseases that occur in a typical form; Diagnostic methods,
		diagnostic possibilities of methods of direct examination of
		the patient of therapeutic and surgical profile, modern
		methods of clinical, laboratory, instrumental examination of
		patients (including endoscopic, radiological methods,
		ultrasonic diagnostics); criteria of diagnosis of different
		diseases;
		Skills: collect anamnesis; interview patient and/or relatives,
		perform physical examination of patient (examination,
		palpation, auscultation, BP measurement, determination of
		arterial pulse, etc.)The patient must be able to assess the
		following: - carry out initial examination of sys- tems and
		organs: Nervous, endocrine, immune, respiratory,
		cardiovascular, blood and hematopoietic, digestive, urinary,
		reactive, musculoskeletal and joints, eye, ear, throat, nose;
		make a preliminary diagnosis - synthesise patient
		information to determine pathology and its cause; Plan
		additional investigations according to the prognosis, to
		clarify the diagnosis and obtain a reliable result; formulate
		a clinical diagnosis; determine the presence of fracture and
		dislocation, free gas in abdomen, hydro-pneumothorax
		from the radiograph; complete the case history;
		Skills: mastery of simple medical instruments
		(phonendoscope, spatula, neurological mallet, scalpel,
		forceps, probe, clamp, dilator, etc.); general clinical
		examination; interpreting results of laboratory, instrumental
		diagnostic methods; making a preliminary diagnosis with
		subsequent referral to an appropriate medical specialist;
		correct maintenance of medical records.

Pharmacology	C.1.B.44	Knowledge of: classification and main characteristics of medicines, pharmacodynamics and pharmaco-kinetics, indications and contraindications for the use of medicines; side effects; general principles of prescribing and writing prescriptions for medicines; Skills: to analyse the effect of medicines according to the totality of their pharmacological properties and the possibility of their use for therapeutic treatment; to prescribe medicines; to use different dosage forms in the treatment of certain pathological conditions, based on the characteristics of their pharmacodynamics and pharmacokinetics; to assess the possible manifestations of overdose of medicines and ways to eliminate them.
Physics, mathematics	C.1.B.45	Knowledge of: basic laws of physics, physical phenomena and laws underlying processes occurring in the human body; characteristics and mechanisms of physical factors affecting the body; physical basis for the functioning of medical equipment, design and function of medical equipment; physical and chemical nature of processes occurring in the living organism at the molecular level, cellular, tissue and organ level;
Philosophy	C.1.B.47	Knowledge: of the principles of debate in a pluralistic environment and the main ways of conflict resolution; Know how to practically analyse the logic of different kinds of reasoning; have the skills to present one's own point of view in a written, reasoned way
Chemistry	C.1.B.49	Knowledge: physico-chemical essence of processes taking place in living organism at molecular, cellular, tissue and organ levels; properties of water and aqueous solutions; main types of chemical equilibria (proteolytic, heterogeneous, ligand-exchange, redox) in life processes; Mechanism of action of organism buffer systems, their interrelation and role in maintenance of acid-base balance; electrolyte balance of human organism, colligative properties of solutions (diffusion, osmosis, osmolarity); role of colloid surfactants in absorption and transfer of low- polarity substances in living organism

Section 2: Organisation of practice

2.1. Period of the internship and workload

According to the curriculum, student internships take place in the eighth semester (for full-time students) and in the tenth semester (for part-time students)..

The duration of the practice is as follows:

weeks	6
hours	324
credits	9

2.2. Arrangements for internships

Students (with the exception of students studying for admission) complete their internships at medical institutions of health located on the territory of Moscow, which are the bases of practice (hereinafter referred to as bases), on the basis of an agreement between the medical institutions and the University.

Students studying for targeted admission are sent to the organisation indicated in the agreement on targeted study for practical training in accordance with subparagraph (e) of paragraph 2.4. of the agreement on targeted admission approved by Decree of the Government of the Russian Federation of 27.11.2013 N 1076 "On Procedure of Conclusion and Termination of the Agreement on Targeted Admission and Agreement on Targeted Study".

Students are assigned to work placements by order of the Rector, which specifies the time of the work placement and the allocation of students to work placements.

The internship "Physician Assistant" takes place in June-July in the hospital, in the departments of therapeutic, surgical, obstetric and gynaecological profile as an assistant to a physician of a therapist, surgeon, obstetrician-gynaecologist.

The Department of Practical Training provides the Head of the Health Care Institution (Head Physician or his/her Deputy for therapeutic work) with a letter of assignment for the practical training with a list of all students sent for practical training in the given organization. By the order of the Head of the Health Care Institution (hereinafter referred to as the Head of the Health Care Institution) from among the staff, the Head of the Health Care Institution appoints internship supervisors from the relevant organisation (hereinafter referred to as the supervisor from the relevant organisation) who determine the place of internship for each student.

Students work 8 academic hours per day, 6 days per week. Students who have completed the Faculty Therapy and Occupational Therapy, Faculty Surgery, Obstetrics, Therapeutic Nursing are eligible for internship as a medical assistant.

The student has no right to independently change the base and time of the internship. Postponement of the internship may be allowed in exceptional cases (illness, pregnancy) with the approval of the Internship Department. Missed days due to a valid or unjustified reason shall be worked without reduction of hours, at the expense of additional shifts, work on weekends, or practice shall be prolonged by the number of missed days.

Work placements for students with disabilities take into account the particularities of their psycho-physical development, individual capabilities and health status.

2.3. The specifics of organising internships in the case of individual students.

For the internship "Physician Assistant", students may be individually assigned only to those internships that are clinical sites or clinics of the University. The medical institutions in which the student is planned to be individually assigned must have the possibility to practice in the given field of study. The student's individual attachment shall be made upon a written petition from the head of the University's structural subdivision (head of department, head of clinic department). The application shall state the purpose of individual attachment and the data of the individual supervisor, who shall supervise the student's internship.

2.4. Student's rights and obligations when preparing for and completing an internship

When arriving for practice the student must have with him/her data on passing medical examinations, according to the Order of the Ministry of Health and Social Development of the Russian Federation from 12 April 2011 N_{2} 302n, as amended by Orders of the Ministry of Health of the Russian Federation from May 15 2013 N_{2} 296n and from December 5 2014 N_{2} 801n, as well as medical gown, surgical suit, a change of shoes. Students who have not undergone medical examinations are not allowed to take part in practical training. In addition, all students must receive an individual assignment from the Head of Practice of the University and get acquainted with the program of practice, methodological recommendations for the practical training and the rules of completing the reporting documentation (diary and report on the practical training).

Before commencing the internship, students must be instructed by the head of the relevant organisation to familiarise themselves with the requirements of health, safety, fire safety and internal work regulations.

Students are subject to the rules of internal labour order of the health care organization. Students report to the head doctor, head of department, direct supervisor of internship at the base, supervisor-teacher of internship from the University (hereinafter referred to as the Mentor). Control of students' attendance at internship, control of working hours is carried out by the Head of internship from the health care organization, and by the Tutor.

For gross violations of discipline and internal labour regulations, the student may be suspended from further practical training by the supervisors. This is reported to the Internship Office and the relevant department.

Students are obliged to provide the supervisor with properly completed reporting documentation (individual assignment for the internship, internship diary, internship report, evaluation report) for the defence of internship (exam).

2.5. Practice management

The internship is managed by the Department of Internship at the State Budgetary Educational Institution of Higher Professional Education of the Russian State Medical University named after N.I. Pirogov of the Ministry of Health Care of the Russian Federation. The direct supervisors of practical training on the base are the supervisors of practical training from the profile organization (heads of departments).

Supervision of the implementation of the internship programme, methodical assistance to students, advisory assistance to internship supervisors, and interim certification of internship results is the responsibility of supervisors appointed by the Rector from among persons belonging to the teaching staff.

Intermediate attestation takes the form of an examination on the last day of the internship. After the examination, within one week, the supervisor shall submit to the Internship Department the reporting documentation for each student (individual internship assignment, internship diaries, internship reports, feedback, feedback on the internship report) and the internship supervisor's report. The report documents shall be kept for the entire period of the student's study at the University.

In accordance with the Resolution of the Government of the Russian Federation of 27.11.2013 No. 1076 "On the Procedure of Conclusion and Termination of the Agreement on Targeted Admission and the Agreement on Targeted Education", the management of the practice of target students is carried out by the organisation specified in the agreement on target education, according to the Order of the Ministry of Education and Science of the Russian Federation of 27.11.2015 No. 1383 "On Approval of the Regulations on Practice of Students Studying the Basic Professional Educational Programmes of Higher Education".

Intermediate attestation of the target students is carried out by the employees of the Internship Department and/or supervisor of the assigned department on the basis of the internship report documentation submitted by the student (individual internship assignment, internship diaries, internship reports, characteristic reviews).

Section 3: Content of the practice

3.1. Assistant general practitioner.

The internship lasts two weeks (12 working days - 96 academic hours, 48 academic hours per week).

The student works as a subordinate in a therapeutic hospital, treating 5-7 patients under the supervision of a physician and the head of the department. During the internship, he/she reports to the Supervisor and the Head of Internship of the organisation.

The in-patient department begins at 8.30 with a morning conference. Afterwards, the patients

under supervision will be rounded and the results of their examination will be recorded in their medical records, new patients will be examined, a preliminary diagnosis will be formulated, a plan for additional (laboratory and instrumental) investigations will be drawn up, treatment tactics will be determined, the best combination of medications will be selected, taking into account their mechanism of action, The patient's history, history of allergology, presence of concomitant diseases, and basic medical records (medical history, discharge summary, referral for consultation and follow-up, prescription list, etc.) should be taken into consideration when designing the initial diagnosis.). Patient management consists of monitoring the patient's condition as a result of the treatment, which is recorded in the case history diaries. Once the examination plan is completed, a staging epicritis is written, summarising the clinical and supplementary data and establishing the clinical diagnosis (according to the accepted classifications).

In the management of patients, the student directly participates in the performance of the diagnostic and therapeutic measures indicated in the "List of Practical Skills in Therapy", aiming to achieve the recommended level of skill mastery.

When a patient is discharged, the student writes a discharge summary, which includes recommendations for diet, regimen, medication and spa treatment, and a prognosis for work ability and employment.

In the case of a lethal outcome, the student writes a post-mortem epicure that substantiates the clinical diagnosis, describes the course of the disease, reveals the cause of ineffective treatment, and specifies the immediate cause of the patient's death. The student must participate in autopsies in the department in order to compare clinical data and pathology findings and to understand the mechanisms of thanatogenesis in the patient. The results are reported at the morning conference (ward or hospital).

As an assistant on duty during evening and night hours, the student, in collaboration with the physician on duty, sees patients coming in for emergency and urgent care, conducts a physical examination, formulates a preliminary diagnosis, plans additional laboratory and instrumental tests, evaluates the results, and prescribes treatment. In addition, he performs dynamic monitoring of seriously ill patients, participates in evening rounds and prescribes emergency diagnostic and therapeutic procedures.

3.2. A surgical physician assistant.

The internship lasts two weeks (12 working days - 96 academic hours, 48 academic hours per week).

The student works as a subordinate in a surgical hospital, treating 5-7 patients under the supervision of a physician and the head of the department. During the internship, he/she reports to the Faculty Supervisor and the Head of Internship of the organisation. During the internship in the surgical

department the student will be acquainted with the organization and work of the surgical unit. The student works in the wards, dressing room, operating room and intensive care unit.

In an inpatient unit: a) the student works as a ward assistant, managing 5-8 patients, makes daily rounds of his/her patients and performs some surgical phases with the permission and under the supervision of the head of the department; b) actively participates in all emergency and elective surgeries (for impingement and not impingement hernia, acute appendicitis, peritonitis, acute intestinal obstruction, perforated ulcer of stomach and duodenum, stomach cancer and pancreaticoduodenal tumours, colon and small intestine cancers, varicose and postthrombotic diseases, acute and chronic arterial obstruction, etc. c) provide first aid in case of accidents, in particular in case of domestic trauma (wounds, fractures, dislocations); e) provide blood transfusion under the supervision of the ward physician

In the dressing room: a) the student, under the supervision of a doctor, performs dressings, removes sutures, drains wounds, applies plaster bandages, splints, performs traction for fractures, anaesthesia, gets acquainted with the preparation of the dressing table, preparation of material, sterilization of material and instruments; b) perform dressings on own patients, apply plaster casts, skeletal casts, pleural punctures, etc.

In the operating theatre: a) the student assists in operations, learns the technique of local (regional, infiltration) anaesthesia, assists in performing endotracheal and inhalational anaesthesia, performs, under supervision of a doctor, individual phases of surgery, (b) becomes familiar with the process of preparing the operating and (dressing table, preparation of materials, sterilization of materials and instruments).

When called to the emergency room, the student accompanies the physician as a direct assistant, assisting with surgical emergencies and critical care resuscitation.

3.3. OB/GYN physician assistant.

The internship takes place in an inpatient obstetric unit and lasts two weeks (12 working days - 96 academic hours, 48 academic hours per week).

In the admission department of the hospital, the trainees get acquainted with the hospitalisation procedure, sanitary treatment of pregnant women and women in labour, and medical documentation. Students perform examination of incoming patients: collect anamnesis (general and obstetric-gynecological). Under the supervision of doctors on duty, they perform general and special obstetric examination of pregnant and parturient women (pelveometry, external and internal obstetric examination, listening to the fetal heartbeat) and take part in completing birth histories.

In the Pregnancy Pathology Department, students are assigned to wards and assigned to ward doctors (supervisors). Students actively participate in the examination of the pregnant woman (on

admission) by the head of the department and/or the attending physician: collecting additional anamnesis, performing external obstetric examinations, determining pelvic dimensions, listening to the fetal heartbeat, determining the term of pregnancy and the expected birth by the date of last menstruation (for IVF - by the date of embryo transfer), by referral to antenatal clinics and early ultrasound screenings. Together with the attending physician (with the patient's consent!) they perform a cervical inspection using mirrors, flora smears and a vaginal examination to determine the obstetric situation. Trainees are present during the diagnostic evaluation of the foetus: ultrasound, amniocentesis, amnioscopy, cordocentesis (diagnostic and therapeutic). They carry out cardiac monitors and assess the cardiotocogram under the supervision of a supervisor. Actively participate in making management plans for pregnant women with various obstetric and extragenital pathologies. Study the principles of therapy of pregnant women with gestosis, placental insufficiency, threat of termination of pregnancy, isoserological incompatibility of mother and fetus blood, diabetes mellitus, etc. Evaluate the effectiveness of therapy and criteria for cure of patients with various complications of pregnancy, as well as with the combination of pregnancy and extragenital pathology. In the third trimester of pregnancy participates in the development of birth management tactics: optimal timing and methods delivery of the baby. Participate in the preoperative preparation of patients for elective and planned caesarean sections. Attend the operations and become familiar with the operation, regional anaesthesia and the cell-saver. Particular attention should be paid to fetal extractions during caesarean section, the initial treatment of newborns and the performance of initial resuscitation measures in the operating theatre.

In the maternity unit, students, under the guidance of doctors on duty, examine expectant mothers, take their medical history and learn obstetric techniques and manipulations (external and internal obstetric examination in labour; determining the position, position and appearance of the foetus; opening the fetal bladder; cervical inspection using mirrors).

The students monitor the fetus (auscultation, cardiac monitoring) and the mother (blood pressure, pulse) during labour; monitor the administration of intravenous infusions (work with infusion machines).

Present during complicated deliveries (breech presentation, premature birth, multiple births), episiotomy and episiorrhaphy, manual examination of the uterus, manual removal and separation of the placenta, and caesarean section operations.

Under the guidance of the doctor, the students complete the birthing history, take part in evening rounds (calls to other wards) during their shifts, and prepare the duty report at the morning doctor's conferences.

n the postpartum unit, students are familiarised with the specifics of sanitary and epidemiological regime, the principles of management of women in labour and delivery after natural childbirth and

after abdominal delivery. Students work with their doctor to monitor the involution of the uterus and assess the quantity and quality of postpartum discharge. They learn how to take care of stitches (on the perineum and anterior abdominal wall after a caesarean section) and breast care. Together with the doctor, carry out the removal and treatment of sutures. They are present during additional examinations and therapeutic manipulations of the mother (ultrasound, hysteroscopy, uterine lavage).

The maternity clinic examines the mammary glands and teaches mastitis prevention methods. Together with the doctor, they give health education talks. They learn about the treatment of postpartum complications (subinvolution, endometritis).

Section 4: Summing up the practice

The intermediate certification is in the form of an examination on the last day of the internship. After the examination. The supervisor of the organisation (supervisor) conducts the examination on the basis of the reporting documentation for each of the areas submitted by the student (medicine, surgery, obstetrics and gynaecology). The student record consists of three internship diaries, three internship reports and three evaluation reports.

The supervisor checks the internship diaries, on the basis of which the results obtained during the internship are evaluated according to the given student's task. The scope and quality of the individual task is assessed on the basis of the sum of points received for the internship diaries, internship reports and feedback.

Based on the results of the examination, the supervisor draws up a review of the practice report, in which the examination grade is given.

After analysing the progress of all students, the supervisor generates an internship supervisor's report, which is submitted to the Internship Department within 1 week of the end of the examination.

п/№	Name	Author(s)	Year, place of publication
1	Internal medicine.	Edited by N.A. Mukhin, V.S. Moiseeva, A.I. Martynova.	M.: Geotar-Media, 2006.
2	Internal medicine.	Edited by S.I. Ryabov, Almazov V.A., Shlyakhto E.V.	2001
3	Obstetrics.	Edited by G.M. Savelieva.	M.: Geotar-Media, 2015.
4	Obstetrics. Clinical Lectures.	Edited by Makarov. O.V.	M.: Geotar-Media, 2007.
5	Emergency Chem manual abdominal surgery	Edited by V.S. Saveliev	"Triad-X, M., 2004
6	Surgical examination,	Edited by J. Hegglin	"Medicine, 1991.

Section 5: List of training literature and Internet resources to be used for practice

5.1 List of basic literature

7	Textbook for medical students. "Surgical Diseases (in 2 volumes). 2nd edition, revised and completed.	Edited by V.S. Savelyev, A.I. Kirienko	Moscow 2014 http://marc.rsmu.ru:8020/ marcweb2/Default.asp
8	"80 lectures on surgery"	Edited by V.S. Savelyev	Moscow , 2008. http://marc.rsmu.ru:8020/ marcweb2/Default.asp
9	Textbook for medical students. "Urology, 7th edition	Edited by N.A. Lopatkin	Moscow , 2012. http://marc.rsmu.ru:8020/ marcweb2/Default.asp

п/№	Name	Authors	Year, place of publication
1.	Internal medicine according to T.R. Harrison	Edited by E. Fauci, Yu. Braunwald	Praktika, Moscow, 2005.
2.	The Russian Therapeutic Guide- nik + CD.	Edited by A.G. Chuchalin 2- e edition.	Edited by: Geotar-Media, 2008.
3.	Clinical guidelines. Standards of the management of patients. Issue 2.	A.A. Baranov.	Edited by: Geotar-Media, 2008.
4.	Handbook of biliary tract surgery	Edited by E.I. Halperin, P.S. Vetsheva	"VIDAR, Moscow, 2006.
5.	Selected lectures on endovideosurgery gy.	Edited by V.D. Fedorov	"COSTA, St. Petersburg, Russia burg, 2004.
6.	Handbook of Obstetrics, Gynaecology and Gynecology The first of these is the first of its kind.	Edited by Acad. RAMS, Prof. G.M. Savelieva	М. 2006г
7.	Obstetrics and Gynaecology. Clinical guidelines",	Edited by Acad. The authors are grateful to Prof. G.M. Saveljeva, Acad. V.N. Serov, Acad. RAMS T.G. Sukhikh, 3rd edition	М. 2009г
8.	Thrombosis in obstetrics and gynaecology gy.	Makarov O.V., Ozolinya L.A.	Moscow, 1998
9.	National Handbook of Clinical Surgery in 3 volumes.	Ed. V.S.Savelyeva, A.I.Kiriyenko	Moscow 2009.
10.	"Abdominal Surgery. National handbook: a concise edition	Edited by I.I. Zatevakhin, A.I. Kirienko, V.A. Kubyshkin.	Moscow 2016
11.	"Vascular surgery". National Manual. Short edition.	Edited by V.S. Saveliev	Moscow 2014
12.	"Pulmonary embolism. How to treat and prevent it".	Edited by A.I. Kirienko, A.M.Cherniavsky, V.V.Andriyashkin	Moscow 2015
13.	"Handbook of Emergency Surgery Abdominal organs, 2nd edition	Ed. V.S.Savelieva	Моsco w 2014 г.
14.	"Handbook of Urology in 3 volumes	Ed. N.A.Lopatkina	Моsco w 2015 г.
15.	"Phlebology"	Edited by V.S. Savelyev	Moscow 2001.

5.2. List of additional literature

16.	"Surgical diseases"	Edited by V.D. Fedorov	Moscow 2005.
17.	"Oncology"	V.I. Chissov, S.L. Daryalova	Моsco w 2007 г.
18.	"Acute thrombophlebitis"	A.I. Kirienko, A.A. Matyushenko ko, V.V.Andriyashkin	Моsco w 2006 г.
19.	National Handbook on "Clinical and Ethical Challenges The book "Surgery" in 3 volumes.	Ed. V.S.Savelyeva, A.I.Kiriyenko	Моsco w 2009 г.
20.	"Abdominal Surgery. National handbook: a concise edition	Edited by I.I. Zatevakhin, A.I. Kirienko, V.A. Kubyshkin.	Moscow 2016
21.	"Vascular surgery". National Manual. Short edition.	Edited by V.S. Saveliev	Moscow 2014
22.	"Pulmonary embolism. How to treat and prevent it".	Edited by A.I. Kirienko, A.M. Chernyavskiy, V.V. Andriyash-kin	Moscow 2015
23.	"Handbook of Emergency Surgery Abdominal organs, 2nd edition	Ed. V.S.Savelieva	Моsco w 2014 г.
24.	"Handbook of Urology in 3 volumes	Ed. N.A.Lopatkina	Моsco w 2015 г.
25.	"Phlebology"	Ed. V.S.Savelieva	Моsco w 2001 г.
26.	"Surgical diseases"	Edited by V.D. Fedorov	Моsco w 2005 г.
27.	"Oncology"	V.I. Chissov, S.L. Daryalova	Mosco w 2007

5.3. List of resources on the Internet, which are necessary for mastering the discipline (module):

- a. <u>http://www.pulmonology.ru/</u>
- b. <u>http://www.scardio.ru/</u>
- c. <u>http://www.elibrary.ru</u>
- d. <u>www.studmedlib.ru/</u>
- e. http://rheumatolog.ru/experts/klinicheskie-rekomendacii/
- f. <u>http://therapy.irkutsk.ru/</u>
- g. <u>http://nonr.ru/</u>
- h. <u>www.it-medical.ru</u>
- i. <u>www.med-lib.ru</u>
- j. www.mirvracha.ru
- k. State Central Scientific Medical Library
- 1. Federal e-Library of Medicine of the Ministry of Health of the Russian Federation <u>- http://feml.scsml.rssi.ru/feml</u>

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- m. US National Library of Medicine http://www.ncbi.nlm.nih.gov/pubmed
- n. "Surgery. Journaling

N.I. Pirogov".

- www.scsml.rssi.ru

z.

http://www.mediasphera.ru/journal/khirurgiya-zhurnal-im-n-i-pirogova

- o. Journal of Angiology and Vascular Surgery http://www.angiolsurgery.org/magazine/
- p. Journal of Phlebology <u>http://www.mediasphera.ru/journal/flebologiya</u>
- q. Journal of Experimental and Clinical Urology <u>http://ecuro.ru/</u>
- r. Atlas of operations on the abdominal wall and abdominal cavity organs. Electronic resource <u>http://uroweb.ru/catalog/med_lib/oper_atl/begin.htm</u>
- s. Free access medical journals http://www.freemedicaljournals.com/
- t. The world's largest publisher of medical literature <u>http://elsevierscience.ru/about/worldwide/</u>

Section 6: List of information technologies used in the practice, including a list of software and reference tools

systems

- 1. Microsoft Office Word
- 2. Microsoft Office Excel
- 3. Microsoft Office PowerPoint

Section 7: Description of the facilities required to carry out practices

The equipment and facilities of the student's workplace in the hospital is provided in accordance with the orders of the RF Ministry of Health and SR on safe working conditions and fire safety rules. Protocols on aseptic and antiseptic rules, methods of treatment and protection of hands of medical personnel, sanitary and anti-epidemic regime are used.

Internships are carried out in external organisations - medical and scientific organisations that have the necessary human resources and scientific and technical potential, the main activity of which predetermines the availability of objects and types of professional activity of students in the given direction of training, or in the departments and clinics of the HEI.

During internships, students consolidate the theoretical knowledge gained during practical classes and learn practical skills of a general practitioner, surgeon and obstetrician-gynaecologist. The degree of the student's participation in the work may vary: from the presence and observation of the therapist at the first stages to the independent performance of certain types of work at a later stage.

Section 8. Assessment tools for interim certification of students in practice

During the internship, students work as a doctor's assistant in each specialty (therapy, surgery, obstetrics and gynaecology). The results of the work done are summarised in **practice reports**, **practice diaries** (the diaries should correspond to the practice reports) and **feedback** (given by the practice supervisors from the medical institutions).

The students are allowed to participate in the certification of the results of practice, if they have the reporting documents (three **reports on practice**, three **characteristics - reviews**, three **diaries of practice**), certified by the representative of LPU and the supervisor of practice, prepared in accordance with the established requirements. Based on the results of the certification, the supervisor will give a grade and prepare a report on the practice report.

8.1. Forms of interim assessment.

8.1.1. An internship diary in which the student describes in detail (at least 2,000 typed characters) the work done with a brief description of the patients supervised, the practical skills acquired during the day.

8.1.2. Internship reports completed in the form of internship assessment scores. Number of practical skills completed at least 1-3 times

The number of practical skills performed at least 4-6 times is assessed at 2 points for each skill; the number of practical skills performed 7 or more times is assessed at 3 points for each skill.

N⁰	Indicators for assessing the results of the practice (GP assistant)	the r	eria for evalu esults of the tice // Scores	-
		1-3 times	4-6 times	7 or more once
		1 point	2 points	3 points
1.	Examination of patients with various internal organ and musculoskeletal disorders in an inpatient setting.	+1	+ 2	+ 3
2.	The completion of a medical history.	+ 1	+ 2	+ 3
3.	Interpretation of physical, instrumental (ECG, ECHO-) CG, radiography) examination.	+ 1	+ 2	+ 3
4.	Interpretation of basic ultrasound examinations.	+1	+ 2	+ 3
5.	Interpretation of laboratory data (clinical blood examination, urinalysis, blood chemistry, immunology blood test).	+ 1	+ 2	+ 3
6.	Formulation and justification of the clinical diagnosis.	+ 1	+ 2	+ 3
7.	Assignment of diet and treatment to the patient.	+ 1	+ 2	+ 3
8.	Acting as doctor on duty, reporting internally conferences.	+ 1	+ 2	+ 3
9.	The following is a list of the most common medical conditions that can be treated in an emergency (asthma). (e.g. hypertension, hypertensive crisis, pulmonary oedema).	+1	+ 2	+ 3
10.	Discharge from inpatient care (documentation, giving the decision- commendations).	+ 1	+ 2	+3
	Total:			

N⁰	Indicators for assessing the results of the practice (Surgeon's assistant)	Criteria for evaluating the results of the		ating
		pract	tice // Scores	
		1-3	4-6 times	7 and bo-
		times		more
				times
		1 point	2 points	3 points

	Physical examination of patients with various general surgical, urological, vascular, oncological diseases and trauma.	+1	+ 2	+ 3
2.	Assignment and interpretation of laboratory results (clinical blood test, urinalysis, blood chemistry, etc.)	+1	+ 2	+ 3
3.	Attendance and interpretation of instrumental methods of examination of patients (radiology), ultrasound, endoscopy, etc.).	+1	+ 2	+ 3
4.	Formulation and justification of the clinical diagnosis. Definition of the diagnosis. The treatment and treatment tactics.	+1	+ 2	+ 3
5.	The completion of a medical history.	+1	+ 2	+ 3
6.	Participate in surgical manipulations (dressing changes, skin suturing or removal, punctures, drainage, catheterisation, changing colostomy bag, enema, etc.).	+1	+ 2	+ 3
7.	Attending or participating in surgical interventions in operations as an assistant.	+1	+ 2	+ 3
8.	Provide first aid in emergencies (bleeding, trauma, shock, etc.); participate in cardiopulmonary resuscitation.	+1	+ 2	+ 3
9.	Participation in blood transfusions or blood components.	+1	+ 2	+ 3
10.	Attendance at in-hospital conferences.	+1	+ 2	+3
	Total:			

N⁰	Indicators for assessing the results of the practice (obstetrician- gynaecologist assistant)	the r	eria for evalu esults of the tice // Scores	C
		1-3 раз	4-6 раз	7 и более раз
		1 балл	2 балла	3 балла
1.	The examination of pregnant women with obstetric and extragenital pathologies in an inpatient setting.	+1	+ 2	+ 3
2.	The registration of a medical (birth) history.	+1	+ 2	+ 3
3.	Interpretation of physical, obstetric and gynaecological findings instrumental examination.	+1	+ 2	+ 3
4.	Interpretation of ultrasound, CTG studies.	+1	+ 2	+ 3
5.	Interpretation of laboratory data (clinical The following are the most common methods used in the case of a cardiovascular accident.)	+1	+ 2	+ 3
6.	Formulation and justification of the clinical diagnosis. Prescribing a diet and treatment for pregnant women.	+1	+ 2	+ 3
7.	Being present during surgical interventions or participating in operations as an assistant.	+1	+ 2	+ 3
8.	Acting as doctor on duty, reporting to an internal conference.	+1	+ 2	+ 3
9.	Care for medical emergencies in pregnancy	+1	+ 2	+ 3
10.	Discharge from hospital (documentation, recommendations)	+1	+ 2	+3
	Total:			

8.1.3. The supervisor's reference from the organisation, which assesses the student's

performance according to the following criteria:

- discipline
- Attitudes towards work, patients, colleagues and staff
- learning practical skills (with interest, diligence, formality, etc.)
- unlearned practical skills, reasons
- the overall impression of the student.

8.2. Evaluation criteria for the practice diary, report, report on each part of the practice (obstetrics, therapy, surgery).

№	Indicators for assessing the results of the practice	Criteria for evaluating the results of the practice	Points
1	Practice diary	The diary is not written	0
		The diary is written formally	3
		The diary is well written, but there is no	4
		description of the experience gained by the	
		student, no analysis of the application of the	
		acquisition	
		The school is a good place to learn and work in the future.	
		In the diary, the student describes his or her	5
		experiences in detail, analyses the application of	
		the acquired skills to future studies and	
		work.	
2	Internship report	Less than 10 points	0
		10-16 points	3
		17-23 points	4
		24-30 points	5
3	Characteristic review	Negative student characteristics	0
		Satisfactory student characteristics	3
		Good characterisation of a student	4
		An excellent student profile	5
Итог	овое количество баллов:		

8.2.1. Scale for assessing the results of the practice

Evaluation	Indicators and criteria for assessing the results of the practice in the interval by	
	total points	
''Excellent.''	40-45 points	
"good."	36-39 points	
''satisfactory''	27-35 points (only with positive grades for the diary, report and characteristic)	
"unsatisfactory"	less than 27 points	