

Professional Practice, Physician Assistant

Syllabus

Department	Internal diseases	
Curriculum	s310501-ЛечДело-ИН-23-1.pli.xml Specialty 31.05.01 General Medicine	
Qualification	General Practitioner	
Form of education	Full-time	
Total (in credits)	4	
Total academic hours including:	144	Control: Credit, 8 th term
Classes	0	
Self-study	144	
Control hours	0	

Course outline in terms

Academic year (Term)	4 (4.8)		Total	
	2 2/3			
Types of classes	Cur	Syl	Cur	Syl
Lectures	-	-	-	-
Practical	-	-	-	-
Self-study	144	144	144	144
Control hours	-	-	-	-
Total	144	144	144	144

The Syllabus is compiled by:

*PhD in Medical Sciences, Associate Professor, Shuvalova O.I.*_____

The Syllabus

Professional Practice, Physician Assistant

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on August, 12, 2020 № 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

The Syllabus was approved by the department

Internal diseases

Head of Department, Doctor of Medicine, Professor Ariamkina O.L.

Chairman of Academic and Scientific Council, PhD in Medical Sciences (Medicine), Senior Lecturer Vasilyeva E.A.

1. AIM OF THE PRACTICE

The **aim** of the practice is to develop basic functions of the professional activity of a hospital doctor, the formation and development of professional competence, the formation of professionally significant personal qualities.

2. OBJECTIVES OF THE PRACTICE

1. To form the ability and willingness to implement the ethical and deontological aspects of medical activity in communication with colleagues, nursing staff, adults and adolescents, their parents and relatives;
2. To form the ability and willingness to analyze medical information, based on the comprehensive principles of evidence-based medicine, based solutions using theoretical knowledge and practical skills in order to improve their professional activities;
3. To form the ability and willingness to analyze the results of their own activities to prevent mistakes considering disciplinary, administrative, civil and criminal liability;
3. To form the ability and willingness to apply the methods of asepsis and antisepsis, to use medical tools, to conduct sanitary treatment of treatment rooms, to have skills of patient care technology;
4. To form the ability and willingness to conduct and interpret the survey, physical examination, clinical examination, the results of modern laboratory and instrumental studies, morphological analysis of biopsy, surgical and sectional material, and the ability to fill the primary medical card (inpatient medical card);
5. To form the ability and willingness to conduct pathophysiological analysis of clinical syndromes, to substantiate justified methods (principles) of diagnosis, treatment, rehabilitation and prevention among adults and adolescents, taking into account their age and sex groups.

3. COURSE OVERVIEW

Course code (in curriculum)	E2.O.02.03(II)
	Assumed background (courses and practices):
	Bioethics
	Topographic anatomy and operative surgery
	Microbiology, Virology
	Pharmacology
	Pathophysiology
	Clinical pathophysiology
	Hygiene
	Public health and Health care, Economy of Public Health
	Epidemiology
	Neurology, medical genetics, neurosurgery
	Obstetrics and gynaecology
	Faculty Therapy, Professional Diseases
	Internal Diseases Propaedeutics, X-Ray Diagnostics
	General surgery, radiology
	Traumatology, orthopaedics
	Disaster medicine
	Russian
	Clinical anatomy
	Nursing
	Educational Practice, primary professional and research skills practice
	Educational Practice, Clinical practice (therapeutic patient care, surgical patient care)
	Professional Practice (nursing staff assistant)
	Professional Practice (ward nurse assistant)
	Professional Practice (procedural nurse and physician assistant)
	Post-requisite courses and practice:
	Obstetrics and gynaecology
	Hospital Therapy, Endocrinology
	Ambulatory Therapy
	Hospital Surgery, Paediatric Surgery
	Clinical Surgery
	Professional Practice, Academic Research Work
	Professional Practice, General Practitioner Assistant

4. PLACE AND PERIOD OF PRACTICE

Semester	Place	Department	Period
VIII	Surgut District Clinical Hospital	Hospital/ Dispensary departments	June-July
	Surgut District Cardiology Dispensary		
	Divisional Clinical Hospital (station Surgut, Russian		
	Clinical City Clinical Hospital		June-July
	Surgut Clinical Traumatology Hospital		June-July
	Outside Surgut (based on agreements and letters of guarantee)		June-August

5. Mode of practice – stationary and outside

6. Form of practice – discrete

7. RESULTS UPON COMPLETION OF THE PRACTICE

7.1 Competences upon completion of the practice

UC-3 - able to organize and manage the team-work developing a team strategy to achieve the goal

UC-4 - able to use modern communication technologies, including in foreign language(s), for academic and professional interaction

UC-5 - able to analyze and take into account the diversity of cultures in the intercultural interaction

GPC-1 - able to implement moral and legal norms, ethical and deontological principles in professional activities

GPC-4 - able to apply medical devices approved for medical procedures, as well as to conduct diagnostic examinations of the patient

GPC-5 - able to assess morpho-functional, physiological states and pathological processes in the human body for solving professional tasks

GPC-7 - able to prescribe treatment and monitor its effectiveness and safety

GPC-8 - able to provide and monitor the effectiveness of the patient's medical rehabilitation, including the individual rehabilitation and habilitation programs for the disabled, to assess the patient's ability to carry out labor activities

Professional Competences:

PC-1 - Able to diagnose, to determine the development of complications and take measures to provide emergency care in case of sudden acute diseases and complications of chronic diseases

PC-2 - Able and ready to diagnose and treat the exacerbation of non-life threatening chronic diseases not requiring emergency medical care; to diagnose and carry out emergency measures for life-threatening acute diseases

PC-3- Able to make a diagnosis, define the development of complications and carry out measures for diagnostics and treatment of patients

PC-5 - Able to develop a treatment plan (medication, non-medication, palliative) based on the diagnosis, provide personalized treatment, including for pregnant women, elderly and senile patients, and assess the effectiveness and safety of the therapy

PC-8 - Capable of maintaining medical records and organizing the activities of medical personnel

PC-9 - Capable of analyzing and publicly presenting medical information based on evidence-based medicine

PC-10 - Able to participate in applying new methods and techniques aimed at protecting the public health

7.2 By the end of the course students must:

Know:

etiology, pathogenesis and measures of preventing the most common diseases

modern classification of diseases;

a clinical picture, features of development and possible complications of the most widespread diseases in a typical form at various age groups of patients;

diagnostic methods, diagnostic opportunities of examination methods for a therapeutic patient, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic, radiological methods, ultrasonic diagnostics);

criteria of the diagnosis of various diseases;

methods of treatment and the indication to their use;

clinical-pharmacological characteristics of the main groups of medicines and the rational choice of medicines in treatment of the main pathological syndromes of diseases and medical conditions in patients.

Be able to:

	determine the patient's status: collect anamnesis, conduct a survey of the patient and / or relatives, conduct a physical examination of the patient (examination, palpation, auscultation, blood pressure measurement, determine the properties of the arterial pulse, etc.);
	assess the patient's condition and decide on the need for medical care;
	conduct a primary examination of the systems and organs of the nervous, endocrine, immune, respiratory, cardiovascular, blood and blood-forming organs, the digestive, urinary, reproductive, musculoskeletal and joints, eyes, ears, throats, and nose;
	establish priorities for solving patient health problems: critical (terminal) condition, condition with pain syndrome, condition with chronic disease, condition with infectious disease, disability, geriatric problems, state of mental patients;
	assess social factors affecting the patient's physical and psychological health: cultural, ethnic, religious, individual, family, social risk factors (unemployment, violence, illness and death of relatives, etc.);
	make a preliminary diagnosis - to synthesize information about the patient in order to determine the pathology and the causes of it;
	determine the amount of additional research in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a sufficient result;
	interpret the results of laboratory and instrumental methods of examination;
	determine the presence of a fracture and dislocation, free gas in the abdominal cavity, hydrothorax, pneumothorax, etc., using a radiograph;
	make a preliminary diagnosis - to synthesize information about the patient in order to determine the pathology and the causes of it; outline the amount of additional research in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result;
	formulate a clinical diagnosis; develop a plan of therapeutic (surgical, obstetric-gynaecological) actions, taking into account the peculiarities of the course of the disease and its treatment;
	formulate indications for the chosen method of treatment taking into account etiotropic and pathogenetic means, to justify pharmacotherapy in a particular patient with the main pathological syndromes and emergency conditions, to determine the route of administration, regimen and dose of drugs, to evaluate the effectiveness and safety of the treatment;
	select an individual type of care for the patient in accordance with the situation: primary care,
	prescribe etiotropic and pathogenetic treatment in accordance with the algorithms and standards of patient management and carry out treatment under the supervision of a physician;
	use methods of primary and secondary prevention (based on evidence-based medicine) in treatment activities, establish cause-and-effect relationships of changes in health status from exposure to
	provide first aid in emergency situations, first aid to victims in the lesions in emergency situations;
	carry out resuscitation in case of clinical death;
	carry out with the population of the attached site activities for the primary and secondary prevention of the most common diseases requiring treatment;
	implement preventive measures to increase the body's resistance to adverse environmental factors using various methods of physical culture and sports, hardening, and promote a healthy lifestyle;
	plan, analyze and evaluate the quality of medical care, the state of public health and the influence of environmental and production factors on it.
	Have skills of:
	general clinical examining;
	interpreting of the results of laboratory, instrumental diagnostic methods;
	making a preliminary diagnosis with the subsequent referral of the patient to the appropriate specialist
	algorithm of statement and justification of the developed clinical diagnosis;
	providing main medical diagnostic and therapeutic measures for first medical aid in emergency and life-threatening conditions;
	algorithm of choice of drug and non-drug therapy.
	medical recording - outpatient card, case history, prescriptions, etc.

8. STRUCTURE AND CONTENTS OF PRACTICE

The academic load of the Professional Practice, Physician Assistant is 144 hours, 4credits.

Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Interactive	Notes
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1	Organization of practice. Safety instruction /SS	8	2	UC-3 UC-4		0	practice diary
2	Pre-practice instruction / SS	8	2	UC-5 GPC-4 GPC-5 GPC-7 GPC-8		0	
3	Professional Practice. Physician Assistant. Therapy / SS	8	90	PC-1 PC-2 PC-3 PC-5 PC-8 PC-9		0	practice diary
4	Processing and analysis of practice information / SS	8	45	PC-10		0	practice diary
5	Credit / Practice report\ SS	8	5	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10		0	practice diary, report on the done practice, oral quiz
	Total		144			0	

9. Form of certification (based on the results of clinical practice)

During the working day, the control of the work of students is carried out by the head of the department. The head of the practice monitors the compliance of the student's work assignment with the aims and objectives of the work experience and the quality of mastering skills and abilities. Formative assessment is carried out daily by monitoring the implementation of practical skills. The student keeps a diary of the work performed, certified by the head nurse of the department.

Attestation (credit) is held on the last day of practice according to the diary entries certified by the head nurse, characteristics, table of practical skills and self-analysis of the student's work.

At the final meeting the weak points of the practice are discussed, as well as recommendations for the improving them.

Summative assessment for the practice is credit

The results are assessed in a two-grading scale:

- pass
- fail

10. ASSESSMENT TOOLS

1. Practice diary
2. Report on the done practice
3. Oral quiz

METHODOLOGICAL GUIDELINES FOR PRACTICE OUTCOMES ASSESSMENT

Stage I: Formative assessment.

List of questions for attestation:

Sample test points for attestation

1. The tactics of the doctor at the bedside of patients with an attack of bronchial asthma.
2. Antibiotic treatment of patients with acute focal pneumonia.
3. Differential diagnosis of bronchial and cardiac asthma.
4. Tactics of the doctor at the bedside with hypertensive crisis.
5. Complications of hypertension.
6. Early and late complications of myocardial infarction.
7. Relief of pain in a patient with acute myocardial infarction.
8. Treatment of patients with acute myocardial infarction with anticoagulants.
9. Indications for treatment with cardiac glycosides. Complications of this therapy.
10. Diagnostics of rheumatic activity.
11. Treatment of a patient with an active rheumatic process.
12. Diet therapy in the exacerbation of peptic ulcer.
13. Complications of chronic cholecystitis. Indications for surgical treatment.
14. Diet therapy in acute peptic ulcer disease.

15. Medical treatment of patients with exacerbations of chronic hepatitis.
16. Treatment of edema syndrome in patients with portal cirrhosis of the liver. The prognosis of the disease.
17. Diagnosis and treatment of iron deficiency anaemia.
18. Clinical variants of chronic diffuse glomerulonephritis. Complications.
19. Diagnosis and treatment of chronic renal failure.
20. Features of the clinical course of the late phase of opisthorchiasis.
21. Ethics and deontology of a medical worker.
22. Educating patients with chronic non-communicable diseases in patients' schools.

In the last days of practice each student gets the records with a rating on a 4-point system:

- "Excellent – the student performs independently 90-100% of practical skills;
- "good" – the student can perform 80-89% of practical skills under control and prompting;
- "satisfactory" – performs 50-79% of practical skills;
- "unsatisfactory" - performs less than 50% of practical skills.

The reasons for the failure of the task are pointed out:

- low student activity,
- insufficient number of working places,
- skills are appropriate to the work of medical institution.

Type of the task	Assessed competences	Assessment criteria	Grade
Oral quiz	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10	deep knowledge of the program material, as well as the main content and innovations of the lecture course in comparison with the educational literature; knowledge of the conceptual and conceptual apparatus of the entire course; knowledge of monographic literature on the course, the ability to independently critically evaluate the main provisions of the course; link theory with practice.	Excellent
	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10	Complete knowledge of the program material; knowledge of the recommended literature, as well as generally correct, but not always accurate and reasoned presentation of the material.	Good
	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10	Superficial knowledge of the most important sections of the program and the content of the lecture course; difficulties with using the scientific and conceptual apparatus and terminology of the course; there is a desire to logically clearly construct the answer, and also indicates the possibility of further training.	Satisfactory
	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10	there are significant gaps in the knowledge of the main material on the program, as well as fundamental errors in the presentation of the material	Unsatisfactory

Sample Practice diary for attestation

Date (daily)	Completed work
9.00-9.20	Morning Conference.
9.20-11.00	Bypass of patients together with the head of the department There are 4 patients in the ward: Diagnosis:

	Survey plan:...
	Treatment plan :...
11.00-13.00	I received newly admitted patients. I made 3 initial examinations of the patient, justified the preliminary diagnosis.
13.00-14.00	I helped to conduct classes at the "Asthma School". Lesson topic: "Modern methods of treatment of bronchial

The diary should describe the clinical symptoms of 3-4 patients with the interpretation of laboratory and instrumental data and describe medical appointments with the indication of the Latin names of drugs, dosages, multiplicity, method of possession. The diary should reflect sanitary and educational work, including participation in conducting classes in schools for patients with chronic non-communicable diseases.

Sample Report on the done practice for attestation

Khanty-Mansiysk Autonomous Okrug-Ugra
"Surgut State University"
REPORT ON THE DONE PRACTICE
«Professional Practice, Physician Assistant»

(FULL NAME) _____

Student _____ group, specialty _____

Place _____

Terms of practice _____ Number of hours: 144 / Total (in credits) 4

Safety instruction « _____ » _____ 20__

Head of the practice from the department (full name, position):

Head of practice from a medical organization (full name, position):

List of practical skills

Levels of mastering practical skills:

- 1 - to know theoretically, to be professionally oriented, to know the indications for conducting;
- 2 - to know theoretically, evaluate, take part in the work of medical personnel;
- 3 - to know theoretically, perform independently.

Name of practical skills	Recommended level	Achieved level	Actual completion
Collection and interpretation of complaints and anamnesis of patients with a therapeutic profile	3		

Physical and systemic examination of the patient with the determination of symptoms of therapeutic pathology (objective status)	3		
Formulation of the preliminary and clinical diagnosis	2-3		
Interpretation of instrumental research methods - ECG, radiographs, ultrasound studies, CT and MRI data, etc.	2		
Differential diagnosis of therapeutic diseases at the admission of patients	2		
Drawing up a patient examination plan for major therapeutic diseases	1-2		
Determination of indications for additional special research methods	2		
Evaluation of hormonal blood tests	1-2		
Evaluation of the myelogram	1-2		
Allergological examination	1		
ECG recording, decoding and evaluation	2-3		
Methods of preparation and analysis of radiographs for the main diseases of the bronchopulmonary, cardiovascular systems, gastrointestinal tract, kidneys, biliary tract, joints, spine, skull	2		
Evaluation of clinical tests of blood, urine, feces, sputum	2-3		
Evaluation of biochemical analyses	2-3		
Evaluation of clinical analyses of pleural and ascitic fluid, biochemical analyses of gastric and duodenal juice	2-3		
Clotting time, bleeding time prothrombotic index	2-3		
Assessment of the electrolyte indicators of blood	3		
Evaluation of the results of a serological study.	2-3		
Hepatitis antigens Methods and evaluation: - urine tests (Nechiporenko test, Zimnitsky test), blood and urine culture, glycemic profile, sugar load test, acid test	2-3		
Drawing up a patient examination plan for major therapeutic diseases	2-3		
Determination of indications for additional special research methods	2-3		
Preparation of a treatment plan (oral/injectable)	3		
Extract of prescriptions, registration of a list of appointments	2-3		
Determination of the prognosis of the disease and the patient's ability to work after the treatment	2-3		
Preparation of a recommendation and a rehabilitation plan for a therapeutic patient after treatment	3		
Conducting sanitary and educational work with the patient or relatives	3		
Participation in the morning medical conference	3		
Bypass of supervised patients. Report of the patient on the bypass	2		

Final assessment of the practice: _____

Head of the practice _____

Midterm assessment (credit) are assessed in a two-grading scale

1. «Passed»;
2. «Failed»

Type of the task	Assessed competences	Assessment criteria	Grade
Practice diary. Report on the done practice. Oral quiz.	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10	The level of knowledge meets the requirements for obtaining excellent, good and satisfactory grades. Reporting documents are provided in full.	Passed
	UC-3 UC-4 UC-5 GPC-1 GPC-4 GPC-5 GPC-7 GPC-8 PC-1 PC-2 PC-3 PC-5 PC-8 PC-9 PC-10	There are significant gaps in the knowledge of the main material on the program, as well as fundamental errors in the presentation of the material. Reporting documents were not provided.	Failed

Students who are late for practice or do not show up for it on certain days, after the end of the practice, must work out all the missed hours in their free time under the supervision of the senior nurse of the Department, independently submit a diary and characteristics, a table of skills and self-analysis to the head of practices from the Department and decide whether to pass the final certification.

After conducting a test for local non-resident students, the heads of practices from the Department fill out statements and a report on the practice. The original statements are submitted to the educational and methodological part of the medical Institute, and copies are attached to the report and sent to the practice Department.

11. COURSE (MODULE) RESOURCES				
11.1. Recommended Literature				
6.1.1. Core				
	Authors	Title	Publish., year	Quantity
L 1.1	Ivashkin V.T., Okhlobystin A.V.	Internal diseases propedeutics [Электронный ресурс] https://www.studentlibrary.ru/book/ISBN9785970436011.html	М. : ГЭОТАР-Медиа, 2016.	1
6.1.2. Supplementary				
L 2.1	V. N. Oslopov, O. V. Bogoyavlenskaya, Yu. V. Osloпова et al	Case history of therapeutic patient [Электронный ресурс]: manual https://www.studentlibrary.ru/book/ISBN9785970433836.html	М. : ГЭОТАР-Медиа, 2014.	1
6.2. Internet resources				
StudentConsultan, http://www.studmedlib.ru , «Guarantor», «Consultant Plus», «Consultant-region», FreeMedicalJournals				
Russian medical journal http://www.rmj.ru				
Journal "Consilium medicum" http://www.consilium-medicum.com/media/consilium				
Standards of medical care: http://www.rspor.ru/index.php?mod1=standarts3&mod2=db				
Protocols for the management of patients:: http://www.rspor.ru/index.php?mod1=protocols3&mod2=db				
Resource on drug interaction.. http://medicine.iupui.edu/flockhart/				
6.3. Software				
Operational system Microsoft, applied programs pack Microsoft Office				
Internet access (Wi-Fi)				

12. SPECIAL CONDITIONS OF THE EDUCATIONAL PRACTICE, PRIMARY PROFESSIONAL AND RESEARCH SKILLS PRACTICE FOR INDIVIDUALS WITH DISABILITIES

In accordance with the requirements of the State Programme of the Russian Federation "Available Environment" 2011-2020 years, in particular, subprogramme 1, "ensuring the accessibility of priority facilities and services in vital spheres of life for people with disabilities and limited mobility» every medical organizations which are the clinical bases of the passing educational and professional practices have the characteristics of "barrier-free environment" for students with disabilities of the Medical Institute.

Currently, the University buildings are equipped by the main types of availability. The entrance is equipped by a ramp and handrails, the necessary information signs and icons are placed on the territory of the hospital complex. In the establishment there is a special sanitary and hygienic room for people with limited mobility. The building is equipped by a passenger-and-freight lift, that's why visiting the offices located on the ground, second and third floors of the University is absolutely available.