

Federal State Budgetary Educational Institution of Higher Education  
«North-Ossetia State Medical Academy»  
of the Ministry of Healthcare of the Russian Federation



УТВЕРЖДАЮ  
Ректор ФГБОУ ВО СОГМА  
Минздрава России

О.В. Ремизов  
«30» марта 2022 г.

## EDUCATIONAL TRAINING PROGRAM OF THE PRACTICE

### «Surgery»

PRACTICE FOR OBTAINING PRIMARY PROFESSIONAL SKILLS AND EXPERIENCE OF  
PROFESSIONAL ACTIVITIES ( PHYSICIAN ASSISTANT)

of the main educational program of higher education – specialty program in the specialty 31.05.01 General Medicine, approved in 30.03.2022

The form of education is full-time  
The period of development in 6 years  
Department of Surgery Diseases No. 2

When developing the educational training program of the discipline is based on:

1. Federal State Educational Standard of Higher Education in the specialty 31.05.01 General Medicine, approved by the Ministry of Education and Science of the Russian Federation on February 09, 2016 No. 95

2. Academic plan on specialty 31.05.01 General Medicine,

ЛД-16-04-18 ИН

ЛД-16-05-19 ИН

ЛД-16-06-20 ИН, approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education «North Ossetia State Medical Academy» of the Ministry of Healthcare of Russian Federation 30/03/2022 protocol No. 6

The educational training program of the discipline was approved at a meeting of the Department of Surgery from 1 03, 2022, protocol No. 8

The educational training program of the discipline was approved at a meeting of the central coordinating training a methodological council from 22,03,2022, protocol No. 4.

The educational training program of the discipline is approved by the Scientific Council

Д.м.н. профессор кафедры  
хирургических болезней № 2



Г.У.Мильдзихов

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#### Reviewers:

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### **Content of the practice program**

#### **1. indication of the type of practice, method and form of its implementation;**

2. the list of the planned results of training during the internship, correlated with the planned results of the development of the educational program;
3. indication of the place of practice in the structure of the educational program;
4. indication of the amount of practice in credits and its duration in weeks or in academic or astronomical hours;
5. content of the practice;
6. indication of practice reporting forms;
7. the fund of evaluation funds for conducting intermediate certification of students in practice;
8. list of educational literature and Internet resources required for practical training;
9. list of information technologies used in the practice, including a list of software and information reference systems (if necessary);
10. description of the material and technical base necessary for the practice.

**1. Indication of the type of practice, method and form (forms) of its implementation**

Practice type - clinical practice.

The practice is carried out in a stationary manner. problems in the professional activity of a doctor

Carrying out form – continuous

Formation of skills and abilities of research work for the complex solution of scientific and practical.

**2. A list of planned learning outcomes during internship, correlated with the planned results of mastering the educational program**

№ №	Competence number / index	The content of the practice (or its section)	Development results		
			know	be able	own
1	2	3	4	5	6
1	GPC-6	Readiness to maintain medical records	maintaining a typical accounting  reporting medical documentation in medical  organizations implementation expertise work capacity.	conduct medical  documentation of various character in stationary institutions fill in the main sections dispensary card  complaints given   medical history, life history, physical examination of the patient, diaries records, epicrisis; highlight groups risk on	methods  medical  accounting and reporting documentation algorithm registration dispensary cards  arrange   academic history of illness or according to the writing plan  medical history

	GPC-8		classification and main characteristics of medicinal funds, pharmacodynamics and pharmacokinetics, indications and contraindications for use medicines, side effects; -clinical- pharmacological characterize the main groups of medicinal drugs and rational selection of specific medicines for treatment of key pathological syndromes diseases and urgent states.	write prescriptions for medicines for certain diseases and pathological processes, based on the characteristics of their pharmacodynamics and pharmacokinetics; - to substantiate the need for clinical and immunological examination of the patient, to analyze the action of drugs in terms of the totality of their pharmacological properties and the possibility of their use for therapeutic treatment.	prescribing medicines for the treatment, rehabilitation and prevention of various diseases and pathological processes.
2	GPC-9	Assessment ability morphofunctional, physiological conditions and pathological processes in the human body for solving professional problems	functional systems of the body, their regulation and self-regulation when exposed to the external environment in normal and pathological processes. appraisal morphofunctional, physiological conditions and pathological processes in the human body, signs of manifestation of environmental factors on the human body	substantiate the nature of the pathological process and its clinical manifestations, the principles of pathogenetic therapy of the most common diseases.  Evaluate morphological and physiological criteria of external influences when providing medical assistance to the victims	assessment of the health status of various age and sex groups.  methods of establishing mechanisms injuries or causes of painful changes in cases of external

					<b>human impacts</b>
	PC- 5	the readiness to collect and analyze the patient's complaints, data from his anamnesis, examination results, laboratory, instrumental, pathological and anatomical and other studies in order to recognize condition or establishment of the presence or absence of a disease	the clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in the adult population; -modern methods of clinical, laboratory and instrumental diagnostics of diseases of a therapeutic profile in the adult population; general principles and features of diagnostics.	palpate the main bony landmarks on a person, outline the topographic contours of organs and the main vascular and nerve trunks; -analyze the results of X-ray examination; -interpret the results of the most common methods of functional diagnostics used to identify pathological processes in organs and systems; - to take anamnesis, to conduct a physical examination of the patient (examination, palpation, auscultation, measurement of blood pressure, determination of the characteristics of the pulse, respiratory rate); send for laboratory and instrumental examination and consultation with specialists.	methods of general clinical examination; -interpretation of the results of laboratory, instrumental diagnostic methods  writing skills medical card outpatient and inpatient, medical records; providing urgent assistance in surgery.

	PC-6	the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Problems, health-related, X revision	<p>- concepts of etiology, pathogenesis, morphogenesis, pathomorphosis of the disease, principles of classification of diseases; basic concepts of general nosology.</p> <p>international statistical classification of diseases and health problems - ICD-X. The main symptoms and syndromes of diseases in obstetrics and their combinations for various nosological forms; modern classifications of surgical pathology; criteria for the diagnosis of surgical pathology; rules for the preparation of preliminary and clinical diagnoses of surgical pathology.</p>	<p>interpret the results of the examination, make a preliminary diagnosis, outline the volume of additional studies to clarify the diagnosis, formulate a clinical diagnosis; develop a treatment plan taking into account the course of the disease, select and prescribe drug therapy, use non-drug treatment methods, carry out rehabilitation measures.</p> <p>highlight the main symptoms and syndromes</p>	<p>an algorithm for setting a preliminary diagnosis with subsequent referral for additional examination and to specialist doctors; algorithm for setting a detailed clinical</p> <p>assessment of symptoms and syndromes of the clinical picture of major diseases and surgical pathology when working with a patient; algorithm for setting preliminary and clinical diagnoses in</p>

				clinical picture of diseases and surgical pathology when solving situational problems, analyzing clinical situations; formulate a preliminary diagnosis and clinical diagnosis for the most common diseases and surgical pathology during the analysis clinical situations	main surgical pathology when working with a patient
	PC-8	the ability to determine the tactics of managing patients with various nosological and forms;	<p>fundamentals of the legislation of the Russian Federation on the protection of public health, basic regulatory and technical documents;</p> <p>- maintenance of standard accounting and reporting medical documentation in medical organizations;</p> <p>- methods of treatment and indications for their use, contraindications to their appointment, especially their implementation.</p> <p>management of surgical patients with various</p>	<p>formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, justify pharmacotherapy in a particular patient with major pathological syndromes and urgent conditions, determine the route of administration, mode and</p>	<p>proper medical management documentation;</p> <p>- basic medical diagnostic and therapeutic measures to provide first and medical care for urgent and life-threatening conditions</p>



			<p>nosological forms of surgical pathology.</p>	<p>the dose of drugs, to assess the effectiveness and safety of the treatment.</p> <p>diagnose the clinical picture and identify the features of the course of pregnancy and possible complications against the background of the most common diseases that occur in a typical form in different age groups; using methods of direct research of surgical patients. modern methods of clinical, laboratory, instrumental examination of surgical patients (including endoscopic, radiological methods, ultrasound diagnostics);</p>	<p>algorithm of management in normal and complicated course.</p>
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PC-9		<p>readiness to manage and treat patients with various nosological and forms on an outpatient basis and in a day hospital;</p>	<p>etiology, pathogenesis, diagnosis, treatment and prevention of the most common diseases;          -principles and methods of first aid in case of emergency;          -clinical and pharmacological characteristics of the main groups of drugs and          rational choice of specific drugs in the treatment of major pathological syndromes of diseases and emergency conditions.</p> <p>management and treatment of patients with various nosological forms on an outpatient basis and in a day hospital</p>	<p>interpret the results of the examination, make a preliminary diagnosis, outline the amount of additional studies to clarify the diagnosis; formulate a clinical diagnosis; develop a treatment plan taking into account the course of the disease, select and prescribe drug therapy, use non-drug methods</p>	<p>prescribing medicines for treatment, rehabilitation and prevention of various diseases and pathological processes;          -methods of conducting medical accounting and reporting documentation;          execution algorithm basic medical diagnostic and therapeutic measures for the provision of first aid for urgent and life-threatening states.</p> <p>the basic principles of management and treatment of patients with various nosological forms of surgical pathology on an outpatient and daytime basis hospital</p>
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**3. Indication of the place of practice in the structure of the educational program**

Industrial practice for obtaining professional skills and professional experience as a doctor's assistant belongs to the basic part of Block 2.

Federal State Educational Standard of Higher Education in the specialty "General Medicine".

**4. Indication of the amount of practice in credit units and its duration in weeks or in academic or astronomical hours**

№ № II/ II	Type of work	Total credits	Total weeks / hours	Semesters
				8 semester
				hours
1	2	3	4	5
1	Contact work of students with the teacher (total), including: ZET		144	144
2	Student independent work (IWS)		72	72
3	Type of intermediate certification	offset (3)		
		exam (E)		
4	TOTAL: Total labor intensity of	hours		
		3ET	6	216
			216	216

**5. Content of the practice**

№/II	№ of the semester	Name of the practice section	Total hours
1	2	3	4
1	8	Preparatory stage, including safety instruction	2
2	8	Work in the emergency room	6
3	8	Work in the department of pregnancy pathology	26
4	8	Work in the delivery room	26
5	8	Work in the postpartum ward	6
6	8	Work in the neonatal ward	6
7	8	Preparatory stage, including safety instructions	2
8	8	Work in the emergency department	29

9	8	Work in the therapeutic department: - pulmonology - cardiology - gastroenterology -nephrology - hematology	35
10	8	Preparation of the practice report. Certification.	6
11	8	Students ' mastering of methods of preventionof surgical diseases, as well as prevention of complications in the clinic. Students ' mastering of diagnostic methods inthe examination of patients with surgical pathology. Familiarization of students with the organization of the operation of the dressingroom. Students master the methods of conservative and surgical treatment, methods of preventionof complications in the treatment, as well as rehabilitation of patients with surgical diseases.	6
12	8	Work in dressing rooms.Assistance in operations	6
13	8	Acute appendicitis	6
14	8	Acute cholecystitis	6
15	8	Acute intestinal obstruction	6
16	8	Acute pancreatitis	6
17	8	Gastrointestinal bleeding	6
18	8	Perforated gastric ulcer and 12 p. c	6
19	8	Hernia infringement	6
20	8	Acute peritonitis	6
21	8	Purulent-inflammatory diseases	6
22	8	Preparation of the practice report.Certification	6
<b>TOTAL:</b>			<b>216</b>

**6. .Indication of practice reporting forms**

"Diary of industrial practice",

"Student's report on industrial practice".

"Report of the head of the production practice".

## 7. The fund of evaluation funds for conducting intermediate certification of students in practice

№/п	List of competencies	№ Semester	Assessment indicators	Assessment criteria	Assessment scale	Name of the FE
1	2	3	4	5	6	7
1	GPC-6 GPC-8 GPC-9 PC-5 PC-6 PC-8 PC-9	8	see the standard for assessing the quality of education, approved. By order of the FGBOU VO SOGMA Ministry of Health of the Russian Federation from 10.07.2018r №264/о	see the standard for assessing the quality of education, approved. By order of the FGBOU VO SOGMA Ministry of Health of the Russian Federation from 10.07.2018r №264/о	see the standard for assessing the quality of education, approved. By order of the FGBOU VO SOGMA Ministry of Health of the Russian Federation from 10.07.2018r №264/о	Exam tickets for the exam, Control tasks

## 8. The list of basic and additional educational literature necessary for mastering the discipline

№	Name	The author(s)	Year, place of publication	Number of copies	
				In library	At the department
1	2	3	4	5	6

### Basic literature

1	Manipal Manual of Surgery (4th edition)	K Rajgopal Shenoy Anitha Shenoy	CBS Publishers & Distributors, 2019	-	<b>1</b> <a href="http://spinbook.net/books.php?id=812392416X">http://spinbook.net/books.php?id=812392416X</a>
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### Additional literature

2	Lecture Notes: General Surgery (13th edition)	General Harold Ellis, Sir Roy Calne, Sir Christopher Watson	Wiley-Blackwell, 2016	-	- <a href="https://www.academia.edu/23743497/Lecture_Notes_General_Surgery">https://www.academia.edu/23743497/Lecture_Notes_General_Surgery</a>
3	Essential surgical practice: Higher training in General Surgery (5th edition)	Alfred Cuschieri, George B Hanna	Hodder Arnold, 2012	-	- <a href="https://roseannaowensgreg.files.wordpress.com/2017/05/essential-surgical-practice-higher-surgical-training-in-general-surgery-fifth-edition-by-alfred-cuschieri-george-hanna.pdf">https://roseannaowensgreg.files.wordpress.com/2017/05/essential-surgical-practice-higher-surgical-training-in-general-surgery-fifth-edition-by-alfred-cuschieri-george-hanna.pdf</a>
4	Textbook of surgery (3th edition)	Joe J. Tjandra, Gordon J.A. Chunie, Anrew H. Kaye, Julian A. Smith	Blackwell, 2006	-	- <a href="https://epdf.pub/textbook-of-surgery-3rd-edition.html">https://epdf.pub/textbook-of-surgery-3rd-edition.html</a>

**9. The list of information technologies used in the practice, including the list of software and information reference systems (if necessary)**

1. «Консультант студента»<http://www.studmedlib.ru/ru/doc/ISBN9785970427729-0007.html>

**10. Description of the material and technical base required for the practice**

№/ п	Equipment identification	Quantity	Technical condition
1	2	3	4
<b>Special equipment</b>			
4.	Computer	4	The condition is satisfactory
5.	Laptop	2	The condition is satisfactory
6.	Projector	1	The condition is satisfactory
7.	Kocher clamp	2	The condition is satisfactory
8.	Mikulich clamp	1	The condition is satisfactory
9.	Folkmann spoon	5	The condition is satisfactory
10.	Farabef hooks	1	The condition is satisfactory
11.	Hepatic mirror	1	The condition is satisfactory
12.	Segal Hooks	1	The condition is satisfactory
13.	Clamps Alice	1	The condition is satisfactory
14.	Needle holder	2	The condition is satisfactory
15.	Scalpel	3	The condition is satisfactory
16.	Copier technology	2	The condition is satisfactory
<b>Phantoms, Dummies</b>			
17.	«Promt» simulation;	1	The condition is satisfactory
18.	Mama «Natali»	2	The condition is satisfactory
19.	Injection Demonstration Tutorial Model		The condition is satisfactory
20.	Suture training leg		The condition is satisfactory
21.	Super skeleton SAM, 5-arm roller rack		The condition is satisfactory
22.	Teaching Demonstration Model - Femoral Peroneal Anastomosis Trainer		The condition is satisfactory
23.	Carotid Artery Andarterectomy Demonstration Model		The condition is satisfactory

24.	CPR training model with electronic monitoring device		The condition is satisfactory
25.	Basic training laparoscopic simulator		The condition is satisfactory
26.	Criminal Injury and Injury Training Kit		The condition is satisfactory
27.	Bowel Training Kit for Anastomosis Demonstration		The condition is satisfactory
28.	Skin Model Training Kit Demonstration of Local Anesthesia Techniques		The condition is satisfactory
29.	Suture Demonstration Training Kit		The condition is satisfactory
30.	Set of dummy uterus "myomatous"	1	The condition is satisfactory
31.	Set of dummy cervix with various	1	The condition is satisfactory