

FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION  
OF HIGHER EDUCATION  
"ROSTOV STATE MEDICAL UNIVERSITY"  
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

*Faculty of Education of foreign students, residents and postgraduates*

Supervisor  
educational program

(signature)

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E.S. Belousova  
(FULL NAME.)

2022

**DISCIPLINE WORKING PROGRAM**

**TRAUMATOLOGY, ORTHOPEDICS**

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don  
2022

Work program "Traumatology, orthopedics" in specialty 05/31/01 "General Medicine"»reviewed at a department meetingtraumatology and orthopedics.

Minutes No. 21 of June 20, 2022.

Head department \_\_\_\_\_

*Sikilinda V.D.*

Library director: "Agreed"

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*signature*

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*FULL NAME.*

## I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

1.1. The purpose of mastering the discipline:

**Target** mastering the academic discipline "Traumatology, Orthopedics" consists of mastering knowledge of the basic principles of traumatism and the organization of medical care for traumatology and orthopedic patients, as well as the principles of diagnosis, treatment and prevention of diseases of the musculoskeletal system.

1.2. Objectives of studying the discipline:

- students acquire knowledge of the main syndromes in the field of traumatology and orthopedics;
- training students in the most important methods of examining a patient to determine the severity of the condition,
- teaching students to recognize emergency conditions when examining a patient, when determining the severity of the pathological process,
- teaching students the ability to identify the leading diagnostic signs and symptoms of damage to the musculoskeletal system,
- training students in choosing optimal methods of laboratory and functional examination for injuries and orthopedic diseases and drawing up an algorithm for differential diagnosis;
- training in carrying out a full range of therapeutic, rehabilitation and preventive measures among patients with various nosological forms of musculoskeletal diseases;
- training students to provide first aid to orthopedic patients in the event of emergency conditions;
- training students in choosing optimal treatment regimens for the most common diseases and injuries of the musculoskeletal system;
- training students in the preparation of medical documentation (medical record of an inpatient or outpatient patient, certificate of incapacity for work, statistical certificate, etc.);
- familiarizing students with the principles of organization and operation of medical and preventive institutions of various types;
- developing skills in studying scientific literature and official statistical reviews;
- developing communication skills with patients, taking into account ethics and deontology, depending on the identified pathology and characterological characteristics of the patients;
- developing student communication skills with the team.

## II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The study of the discipline is aimed at developing competencies in accordance

with Federal State Educational Standards of Higher Education and EP of Higher Education in this specialty:

- 2.1. Universal:
- 2.2. General professional: OPK-4, OPK-7.
- 2.3. Professional: PC-3, PC-4.

### III. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO

3.1. The discipline "Traumatology, Orthopedics" is a mandatory part of full-time education for 5th and 6th year students of the Faculty of Treatment and Prevention.

### IV. CONTENT AND STRUCTURE OF DISCIPLINE

Labor intensity of the discipline in 3\_3\_ hours \_216\_

#### 4.1. Sections of the discipline studied in the 10-11 semester (semesters)

No. section	Section name	Number of hours					
		Total	Contact Job			SRS	
			L	WITHETC	LR		
Semester A							
1	General traumatology and orthopedics	68	6		12		12
2	Private traumatology	40	6		32		thirty
3	Private orthopedics	10	4		4		2
Total for the semester		108	16		48		44
Interim certification form (test)							
Semester B							
1		24	2		12		10
2		8			4		4
3		40	10		16		14
Total for the semester		72	12		32		28
Interim certification form (exam)		<b>36</b>					
<i>Total for the discipline:</i>		216	28		80		72

**SRS**- independent work of students **L**-lectures

**WITH**- seminars

**LR** -laboratory works **ETC**- practical lessons

## 4.2. Contact work

### Lectures

No. section	No. lectures	Lecture topics	Qty hours
Semester A			
1	1	Trauma as a social problem. History of development. Organization of traumatological and orthopedic care.	2
1	2	General principles of treatment of injuries and diseases of the musculoskeletal motor apparatus.	2
1	3	General methods of treating injuries and diseases of the musculoskeletal motor apparatus.	2
2	4	Open injuries to the musculoskeletal system. Osteomyelitis.	2
2	5	Traumatic shock. Long-term compartment syndrome.	2
2	6	Polytraumas. Multiple and combined injuries.	2
3	7	Degenerative and inflammatory joint diseases.	2
3	8	Osteoporosis	2
Total for the semester hours			16
Semester B			
3	9	Structural and functional disorders of the spine. Osteocondritis of the spine.	2
3	10	Osteochondropathies. Osteochondrodystrophy.	2
3	eleven	Bone tumors.	2
3	12	Congenital deformities of the musculoskeletal system.	2
3	13	Complications in the treatment of musculoskeletal injuries.	2
1	14	New in traumatology and orthopedics. Achievements. Problems and errors in the practical work of an orthopedic traumatologist.	2
Total for the semester hours			12
Total by clock discipline			28

### Seminars, practical work

No. section	No. seminar, ETC	Topics of seminars, practical works	Qty hours	Shapes of the current control
Semester A				
1	1	Features of examination of patients with injuries and diseases of the musculoskeletal system.	4	oral survey
1	2	Methods of treating injuries and diseases of the musculoskeletal system.	4	oral survey
2	3	Damage to the shoulder girdle, shoulder joint, shoulder. Shoulder dislocations.	4	oral survey solution situational tasks
2	4	Damage to the elbow joint, forearm, wrist joint, hand.	4	oral survey
2	5	Damage to the pelvis and pelvic organs.	4	oral survey
2	6	Damage to the hip joint and thigh.	4	oral survey
2	7	Injuries to the knee joint and lower leg	4	oral survey solution situational tasks
2	8	Injuries to the ankle and foot.	4	oral survey
2	9	Spinal injuries. Chest injuries.	4	oral survey
2	10	Traumatic and pathological dislocations.	4	oral survey
3	eleven	Tendon injuries and diseases. Knott's disease. Dupuytren's disease.	4	oral survey passing practical skills

<b>No. section</b>	<b>No. seminar, ETC</b>	<b>Topics of seminars, practical works</b>	<b>Qty hours</b>	<b>Shapes of the current control</b>
1	12	Polytrauma. Multiple and combined injuries.	4	oral survey testing.
Total for the semester			48	
Semester B				
1	13	Open injuries to the musculoskeletal system. Wound infection.	4	oral survey
2	14	Ununited fractures and false joints.	4	oral survey solution situational tasks
3	15	Osteochondrosis. Poor posture. Scoliotic disease.	4	oral survey
3	16	Degenerative-dystrophic diseases of the joints. Static foot deformities.	4	oral survey
3	17	Congenital hip dislocation, congenital clubfoot, congenital muscular torticollis.	4	oral survey solution situational tasks
3	18	Osteochondropathies and osteodystrophy. Bone tumors.	4	oral survey
1	19	Outpatient treatment and rehabilitation of patients with damage to the musculoskeletal	4	oral survey passing practical skills
1	20	Transport immobilization. X-ray diagnostics. Practical skills. Joint puncture technique. Blockade of damage zones.	4	oral survey testing.
Total for the semester			32	
Total by discipline			80	

### 4.3. Independent work of students

No. section	Type of independent work of students	Qty hours	Shapes of the current control
Semester A			
1	Preparation To testing, solution situational tasks, practicing practical skills, preparing for classes	12	testing, situational tasks, interview abstract
2	Preparation To testing, solution situational tasks, practicing practical skills, preparing for classes	thirty	testing, situational tasks, interview abstract
3	Preparation To testing, solution situational tasks, practicing practical skills, preparing for classes	2	testing, practical skills, situational tasks, interview
Total for the semester		44	
Semester B			
1	preparing for testing, solving situational problems, practicing practical skills, preparing for classes	10	testing, situational tasks, interview
2	preparing for testing, solving situational problems, practicing practical skills, preparing for classes	4	testing, situational tasks, interview
3	preparing for testing, solving situational problems, practicing practical skills, preparing for classes	14	testing, situational tasks, interview abstract
Total for the semester		28	
Total by discipline		72	

### V. ASSESSMENT MATERIALS FOR CURRENT CONTROL, INTERMEDIATE CERTIFICATION (are an appendix to the work program).



## **VI. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF DISCIPLINE**

### **6.1. Printed publications**

**1. Kotelnikov G.P. Traumatology and orthopedics: textbook with CD for university students / G.P. Kotelnikov, S. P. Mironov, V. F. Miroshnichenko. – M.: GEOTAR-Media, 2006. – 400 p.**

### **6.2. Internet resources**

**1. Traumatology and orthopedics: textbook / [Electronic resource]; edited by N.V. Kornilova. - 3rd ed., add. and processed - M.: GEOTAR-Media, 2018. - 592 p. – Access from EBS “Student Consultant”**

**2. Traumatology and orthopedics [Electronic resource]: textbook/ Kotelnikov G.P., Lartsev Yu.V., Ryzhov P.V. - 2nd ed., revised. - Moscow: GEOTAR-Media, 2021. - 560 pp. – Access from EBS “Student Consultant”**

### **additional literature**

**1. Orthopedics: national manual / ed. S.P. Mironova, G.P. Kotelnikov; Medical Association quality societies. - 2nd ed., revised. and additional – M.: GEOTAR-Media, 2013. - 943 p.**

**2. Fundamentals of internal osteosynthesis [Electronic resource] / Shapovalov V.M., Khominets V.V., Mikhailov S.V. - M.: GEOTAR-Media, 2009. - 240 p. – Access from EBS “Student Consultant”**

**3. X-ray diagnosis of diseases and injuries of the spine: textbook. manual / comp.: V.D. Sikilinda, M.V. Babaev, G.P. Volkov [and others]; RGMU. – Rostov n/d: Rostov State Medical University Publishing House, 2013. - 101 p.**

**4. X-ray diagnosis of osteochondrosis: textbook. allowance / M. V. Babaev, G. P. Volkov, V. D. Sikilinda [etc.]; Height. state honey. university, department Ray. diagnostics and beam. therapy. – Rostov n/d: Publishing house RostGMU, 2014. - 80 p.**

**5. Scoliosis [Electronic resource] / M.T. Sampiev, A.A. Laka, N.V. Zagorodny. - M.: GEOTAR-Media, 2008. - 144 p. – Access from EBS “Student Consultant”**

**6. Rehabilitation in traumatology [Electronic resource]: manual / V. A. Epifanov, A. V. Epifanov. - M.: GEOTAR-Media, 2010. – 336 p. – Access from EBS “Student Consultant”**

**7. Hip replacement. Fundamentals and practice [Electronic resource]: manual / Zagorodniy N.V. - M.: GEOTAR-Media, 2012. - 704 p. – Access from EBS “Student Consultant”**

**8. Osteoarthritis [Electronic resource] / Kotelnikov G.P., Lartsev Yu.V. - M.: GEOTAR-Media, 2009. - 208 p. – Access from EBS “Student Consultant”**

**9. OSTEOPOROSIS [Electronic resource] / L. I. Benevolenskaya, N.V. Toroptsova - M.: GEOTAR-Media, 2011. – Access from EBS “Consultant”**

student"

	<b>ELECTRONIC EDUCATIONAL RESOURCES</b>	<b>Access to the resource</b>
1.	<b>Electronic library RostSMU. - URL:</b> <a href="http://109.195.230.156:9080/opacq/">http://109.195.230.156:9080/opacq/</a>	<b>Access unlimited n</b>
2.	<b>Student advisor: EBS. - Moscow: LLC "IPUZ". - URL:</b> <a href="https://www.studentlibrary.ru">https://www.studentlibrary.ru</a>	<b>Access unlimited n</b>
3.	<b>Doctor's consultant. Electronic library system. - Moscow: LLC "Higher School of Organization and Management of Healthcare_Comprehensive Medical Consulting". -URL:</b> <a href="http://www.rosmedlib.ru">http://www.rosmedlib.ru</a>	<b>Access unlimited n</b>
4.	<b>Scientific electronic library eLIBRARY. - URL:</b> <a href="http://elibrary.ru">http:// elibrary.ru</a>	<b>Open access</b>
5.	<b>Federal Electronic Medical Library of the Russian Ministry of Health. - URL:</b> <a href="http://www.femb.ru/feml/">http://www.femb.ru/feml/</a> , <a href="http://feml.scsml.rssi.ru">http://feml.scsml.rssi.ru</a>	<b>Open access</b>
6.	<b>Evrika.ru information and educational portal for doctors. - URL:</b> <a href="https://www.evrika.ru/">https://www.evrika.ru/</a>	<b>Open access</b>
7.	<b>Med-Edu.ru: medical video portal - URL:</b> <a href="http://www.med-edu.ru/">http://www.med-edu.ru/</a>	<b>Open access</b>
8.	<b>Rubricator of clinical recommendations of the Russian Ministry of Health. - URL:</b> <a href="http://cr.rosminzdrav.ru/#/">http://cr.rosminzdrav.ru/#/</a>	<b>Open access</b>

### 6.3. Guidelines for students on mastering the discipline

1. Educational and methodological recommendations for practical and independent studies on the musculoskeletal system for students of the medical and preventive faculty / E.V. Chaplygina, O.A. Kaplunova, A.V. Markevich [and others]. - Rostov n/a: Rostov State Medical University Publishing House, 2012. - 95 pp. - Access from Rost State Medical University EB

2. Tests for students of the Department of Traumatology and Orthopedics / Compiled by: V.D. Sikilinda, P.A. Fedotov, V.S. Aedinov [etc.]; RostSMU. - Rostov n/d: Publishing house RostGMU, 2006. - 78 p.

## VII. LOGISTICS

## DISCIPLINES

Classes students pass By address: Rostov-on-Don, lane Nakhichevansky 29 Rost State Medical University, ULK No. 3 1st floor, Department of Traumatology and Orthopedics. In the process of giving lectures and conducting practical classes, X-ray cameras, radiographs with typical injuries and lesions of the musculoskeletal system, models, and instruments are used.

In the process of giving lectures and conducting practical classes, multimedia equipment (for presentations of lectures), multimedia presentations, models, tables, videos, visual aids (implants for operations, means for immobilization), methodological developments for practical classes, methodological developments for seminars are used.