

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)

CONFIRM

E.S. Belousova

(FULL NAME)

" 28 " *Belousova* 20 *do*



DISCIPLINE WORKING PROGRAM

TRAUMATOLOGY, ORTHOPEDICS

Speciality 31.05.01 General medicine

Form of education full-time

I. GOALS AND OBJECTIVES 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.

Tasks disciplines are:

- 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 process of studying the discipline is aimed at developing the following competencies in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

A) general professional (OPK):

readiness for medical use of drugs and other substances and their combinations in solving professional problems (GPC-8),

readiness to use medical devices provided for in the procedures for providing medical care (OPK-11).

b) professional (PC):

the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with

International Statistical Classification of Diseases and Related Health Problems, Xth Revision (PC-6),
 ability to determine tactics for managing patients with various nosological forms (PC-8),
 readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care (PC-10),
 readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention (PC-11),

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

3.1. Academic discipline: "Traumatology, orthopedics" is intended for 5th and 6th year students of the medical and preventive faculty of full-time study and belongs to the basic part of the professional cycle.

3.2. To study this academic discipline, you need knowledge, skills and knowledge formed by the following previous disciplines:

- Neurology, medical genetics, neurosurgery
- General surgery
- Faculty Surgery
- Urology
- New technologies in surgery
- Endovascular surgery
- Critical Care Medicine
- Topographic anatomy and operative surgery
- Histology, embryology, cytology
- Medical rehabilitation

3.3. List of subsequent academic disciplines that require knowledge, skills and knowledge formed by this academic discipline:

- Clinical pharmacology
- Outpatient therapy
- Infectious diseases
- Hospital therapy
- Endocrinology
- Palliative care

IV. CONTENT AND STRUCTURE OF DISCIPLINE Labor intensity of the discipline in 3 6 hours 216

4.1. Sections of the discipline studied in semesters 10 and 11

No. chapter A	Name section	Number of hours				CPC*
		Total	Contact Job			
			L	WITH ETC	LR	
Semester A (10)						

1	General traumatology and orthopedics	68	6		12		12
2	Private traumatology	40	6		32		thirty
3	Private orthopedics		4		4		2
	Total by semester	108	16		48		44
	Form intermediate certification (test)						
Semester B (11)							
1	General traumatology and orthopedics	24	2		12		10
2	Private traumatology	8			4		4
3	Private orthopedics	40	10		16		14
	Total by semester	72	12		32		28
	Form intermediate certification (exam)				36		
	<i>Total by discipline:</i>	216	28		80		72

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

WITH- seminars (in disciplines in accordance with the standard and RUP)

LR -laboratory work (in disciplines in accordance with the curriculum)

ETC- practical classes (in disciplines in accordance with the curriculum, they include clinical practical classes)

4.2. Contact work

Lectures

No. section	No. lectures And	Lecture topics	Qty hours
Semester 10			
1	1	Trauma as a social problem. Story development. Organization of traumatology	2
1	2	General principles of treatment of injuries and diseases of the musculoskeletal system.	2
1	3	General methods of treating injuries and diseases of the musculoskeletal system.	2
2	4	Open injuries of the musculoskeletal apparatus. Osteomyelitis.	2
2	5	Traumatic shock. Long term syndrome compression.	2
2	6	Polytraumas. Multiple and combined injuries.	2
3	7	Degenerative and inflammatory diseases joints. 1 part.	2
3	8	Degenerative and inflammatory diseases	2
Total by semester hours			16
Semester 11			
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 injuries to the musculoskeletal system.	2
1	14	New in traumatology and orthopedics. Achievements. Problems and errors in practical work	2
Total by semester hours			12
Total by discipline			28

Seminars, practical work

No. section	No. seminar, ETC	Topics of seminars, practical works	Qty hours	Shapes of the current control
Semester 10				
1	1	Features of examination of patients with injuries and diseases of the musculoskeletal system.	4	Survey. Interview.
1	2	Methods of treating injuries and diseases of the musculoskeletal system.	4	Survey. Interview.
2	3	Damage to the shoulder girdle, shoulder joint, shoulder. Shoulder dislocations.	4	Survey. Interview.
2	4	Damage to the elbow joint, forearm, wrist joint, hand.	4	Survey. Interview.
2	5	Damage to the pelvis and pelvic organs.	4	Survey. Interview.
2	6	Damage to the hip joint and thigh.	4	Survey. Interview.
2	7	Injuries to the knee joint and lower leg	4	Survey. Interview.
2	8	Injuries to the ankle and foot.	4	Survey. Interview.
2	9	Spinal injuries. Chest injuries.	4	Survey. Interview.
2	10	Traumatic and pathological dislocations.	4	Survey. Interview.
3	eleven	Tendon injuries and diseases. Knott's disease. Dupuytren's disease.	4	Survey. Interview. Testing.
1	12	Polytrauma. Multiple and combined injuries.	4	Survey. Interview.
Total for the semester			48	

No. section	No. seminar, ETC	Topics of seminars, practical works	Qty hours	Shapes of the current control
Semester 11				
1	13	Open injuries to the musculoskeletal system. Wound infection.	4	Survey. Interview.
2	14	Ununited fractures and false joints.	4	Survey. Interview.
3	15	Osteochondrosis. Poor posture. Scoliotic disease.	4	Survey. Interview.
3	16	Degenerative-dystrophic diseases of the joints. Static foot deformities.	4	Survey. Interview.
3	17	Congenital hip dislocation, congenital clubfoot, congenital muscular torticollis.	4	Survey. Interview.
3	18	Osteochondropathies and osteodystrophy. Bone tumors.	4	Survey. Interview.
1	19	Outpatient treatment and rehabilitation of patients with damage to the musculoskeletal	4	Survey. Interview.
1	20	Transport immobilization. X-ray diagnostics. Practical skills. Joint puncture technique. Blockade of damage zones.	4	Survey. Interview. Testing.
Total for the semester			32	
Total by discipline			80	

4.3. Independent work of students

No. section	Type of independent work students	Number in hours	Shapes of the current control
Semester A (10)			

No. section	Type of independent work students	Number in hours	Shapes of the current control
1	preparing for testing, solving situational problems tasks, working off practical skills, preparation for classes	12	testing, practical skills, situational tasks, interview
2	preparing for testing, solving situational problems tasks, working off practical skills, preparation for classes	thirty	testing, practical skills, situational tasks, interview
3	preparing for testing, solving situational problems tasks, working off practical skills, preparation for classes	2	testing, practical skills, situational tasks, interview
Total for the semester		44	
Semester B (11)			
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
Total for the semester		28	
Total by discipline		72	

V. ASSESSMENT FUND FOR CURRENT CONTROL, INTERMEDIATE CERTIFICATION

The fund of assessment tools for determining the level of development of competencies as a result of mastering the discipline is an appendix to the work program.

VI. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF DISCIPLINE

6.1. Main literature

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.
2. 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”
3. Traumatology and orthopedics [Electronic resource]: textbook/ G.P. Kotelnikov, S. P. Mironov, V. F. Miroshnichenko. - M.: GEOTAR-Media, 2009. – 400 p. – Access from EBS “Student Consultant”

6.2. 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: Rostov State Medical University Publishing House, 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 “Student Consultant”

6.3. Providing the educational process with official and periodical publications, scientific literature.

List of Internet resources

	ELECTRONIC EDUCATIONAL RESOURCES	Access to the resource
1.	Electronic library RostSMU. – URL: http://109.195.230.156:9080/opacq/	Access is not limited
2.	Student advisor: EBS. – Moscow: LLC "IPUZ". -URL: http://www.studmedlib.ru	Access is not limited
3.	Doctor's consultant. Electronic medical library: EBS. – Moscow: LLC GC "GEOTAR". - URL: http://www.rosmedlib.ru	Access is not limited
4.	Scientific electronic library eLIBRARY. - URL: http://elibrary.ru	Open access
5.	Russian education. Federal educational portal. - URL: http://www.edu.ru/index.php	Open access
6.	Federal Electronic Medical Library of the Russian Ministry of Health. - URL: http://www.femb.ru/feml/ , http://feml.scsml.rssi.ru	Open access
7.	Free Medical Journals . - URL: http://freemedicaljournals.com	Open access
8.	Free Medical Books . - URL: http://www.freebooks4doctors.com/	Open access
9.	International Scientific Publications. -URL: https://www.scientific-publications.net/ru/	Open access
10.	Evrika.ru information- educational portal for doctors. – URL: https://www.evrika.ru/	Open access
eleven.	Med-Edu.ru: medical video portal. - URL: http://www.mededu.ru/	Open access
12.	Rubricator of clinical recommendations Ministry of Health of Russia. -URL: http://cr.rosminzdrav.ru/#/	Open access

6.4. Guidelines for students on mastering disciplines

1. Educational and methodological recommendations for practical and independent classes 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: Publishing house of RostSMU, 2012. - 95 p. - Access from RostSMU 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. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE

7.1. Educational and laboratory equipment.

Students' classes are held at the address: Rostov-on-Don, lane. Nakhichevsky 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.

7.2. Technical and electronic means.

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.

Sum of points	Ratings
85 -100	5
71 - 84	4
60 -70	3
60 - 100	test
0-59	2

EVENTS

CHECK SHEET

Type of certification: 10th semester - test, 11th semester - exam I
approve

Head department _____Sikilinda V.D.

Department of Traumatology and Orthopedics

Well 5.6 Semester 10.11 Speciality 05.31.01 "Medicine»

For disciplines with a form of control - exam
For disciplines with a form of control - test

No.	Types of events current control	Quantity points for 1 control event*	Qty events	min - max quantity total points
	<i>Checkpoint: testing</i>	14-24	1	14-24
	<i>Solving situational problems</i>	1	18	12-18
	<i>Practicing practical skills</i>	1	6	4-6
	<i>Attending classes</i>	1	6	4-6
	<i>Attending lectures</i>	1	6	4-6
	Total for current control			38 - 60
	Exam	22 - 40	* *	

No.	Types of events current control
	<i>Checkpoint: test</i>
	<i>Solving situational problems</i>
	<i>Practicing practical skills</i>
	<i>Attending classes</i>
	<i>Attending lectures</i>
	Total

Characteristics of the student's response	Quantity points
Excellent understanding of the subject, the student demonstrated comprehensive knowledge, excellent skills and proficiency	36 - 40
The student demonstrated a complete understanding of the subject, good knowledge, skills and proficiency	32 - 35
The student demonstrated understanding of the educational material at a minimum level of mastery	22 - 31
The student's answer does not meet the minimum requirements	less than 22

Accrual of bonus points: depending on the specifics discipline, specific types of academic activity of the student are indicated, for which the teacher will award bonus points.

Note:

* The number of points for current control activities is set by the department, taking into account the possibility of the student receiving a positive certification. When establishing minimum and maximum values for one control event, the evaluation criteria must be reflected in the checklist.

* * Specific types and forms of the examination procedure and assessment criteria are indicated.

