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**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

CONFIRM

Supervisor
educational program

(signature)

E.S. Belousova /
(FULL NAME.)

2023



DISCIPLINE WORKING PROGRAM

CLINICAL PHARMACOLOGY

Speciality 31.05.01 General medicine

Form of education full-time

**Rostov-on-Don
2023**

I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

1.1. The purpose of mastering the discipline: to teach the student to choose effective, safe and affordable medicines (MD) for modern individualized pharmacotherapy using basic data on pharmacokinetics (PK), pharmacodynamics (PD), pharmacogenetics (PG), interactions, adverse drug reactions (ADR) and provisions of evidence-based medicine (EBM).

1.2. Objectives of studying the discipline:

- outline the basic issues of general clinical pharmacology;
- to develop the skills and abilities necessary in the work of a doctor, for conducting individualized pharmacotherapy for patients by selecting effective, safe and affordable drugs;
- teach the student the pharmacokinetics and pharmacodynamics of the main drugs, used for pharmacotherapy, indications and contraindications for the use of drugs, as well as their possible changes in case of dysfunction of various organs and systems;
- teach adequate methods for monitoring the effectiveness and safety of the prescribed therapy.

II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The study of the discipline "Clinical Pharmacology" is aimed at developing competencies in accordance with the Federal State Educational Standard for Higher Education 3++ and the EP for Higher Education in this specialty:

2.2. General professional: GPC-7 - Able to prescribe treatment and carry out monitoring its effectiveness and safety. .

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

3.1. The discipline "clinical pharmacology" is compulsory parts - (B1.B.30).

IV. CONTENT AND STRUCTURE OF DISCIPLINE

The complexity of the discipline in 22 hour72 .

4.1. Sections of the discipline studied in the 11th semester (B):

No. section	Section name	Number of hours					
		Total	Contact Job			SRS	
			L	WITHETC	LR		
Semester 12							
1	Are common questions clinical pharmacology.	20	6				14
2	Private questions clinical pharmacology.	52	6	32			14
Total for the semester		72	12	32			28
Interim certification form (test/test with assessment/exam)		test					
<i>Total for the discipline:</i>		72	12	32			28

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 11 (B)			
1	1	Introduction to clinical pharmacology. Subject, tasks and methods of clinical pharmacology. Clinical pharmacokinetics and pharmacodynamics, clinical pharmacogenetics.	2
1	2	Clinical pharmacoepidemiology and pharmacoconomics. Evidence-based medicine. Sources of clinical pharmacological information. Clinical researches. Formal system.	2
1	3	Drug interactions. Adverse reactions. Features of the use of drugs in children, the elderly, pregnant and lactating, comorbid patients.	2
2	4	Rational antibacterial therapy. Algorithms for combating antibiotic resistance.	2
2	5	Clinical pharmacology of drugs affecting vascular tone and myocardial function.	2

2	6	Clinical pharmacology of psychotropic drugs.	2
Total for the semester hours			12
<i>Total hours discipline:</i>			12

Seminars, practical work

No. section	No. seminar, ETC	Topics of seminars, practical work	Number in hours	Shapes of the current control
Semester 11 (B)				
2	1	Clinical pharmacology of antibiotics.	2	Interview, oral survey
2	2	Clinical pharmacology of synthetic chemotherapeutic agents, antiviral and antifungal drugs.	2	Interview, oral survey
2	3	Clinical pharmacology of antihypertensive drugs, diuretics. Clinical pharmacology antiarrhythmic drugs.	2	Interview, oral survey
2	4	Clinical pharmacology of coronary artery disease and heart failure.	2	Interview, oral survey
2	5	Clinical pharmacology of analgesics and anti-inflammatory drugs.	2	Interview, oral survey
2	6	Clinical pharmacology of antiallergic drugs.	2	Coconversation, oral survey
2	7	Clinical pharmacology of drugs used for diabetes.	2	Interview, oral survey
2	8	Clinical pharmacology of drugs used for thyroid diseases.	2	Interview, oral survey
2	9	Clinical pharmacology of drugs affecting bronchial patency.	2	Social Security dovanie, oral survey
2	10	Clinical pharmacology of drugs affecting the functions of the gastrointestinal tract.	2	Interview, oral survey
2	eleven	Clinical pharmacology of drugs affecting erythro- and leukopoiesis.	2	Interview, oral survey
2	12	Clinical pharmacology of drugs affecting the blood coagulation system.	2	Interview, oral survey
2	13	Clinical pharmacology of drugs used for stroke.	2	Interview, oral survey

No. section	No. seminar, ETC	Topics of seminars, practical work	Number in hours	Shapes of the current control
2	14	Clinical pharmacology of antitumor drugs.	2	Interview, oral survey
2	15	Fundamentals of lean technologies.	2	Interview, oral survey
2	16	Final lesson.	2	Interview, oral survey
Total for the semester hours			32	
<i>Total hours discipline:</i>			32	

4.3. Independent work of students

No. section	Type of independent work of students	Number in hours	Forms current control
Semester 11 (B)			
1	Preparation for current classes.	14	Survey
2	Preparation for current classes.	14	Survey
Total hours per semester		28	
<i>Total hours discipline:</i>		28	

V. ASSESSMENT MATERIALS FOR CURRENT CONTROL, INTERMEDIATE CERTIFICATION

The fund of assessment tools for determining the level of acceleration 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. Printed publications

1. Sychev D. A. Clinical pharmacology. General issues of clinical pharmacology: workshop: textbook. allowance/ D.A. Sychev, L.S. Dolzhenkova, V.K. Prozorova; edited by V.G. Kukesa. – M.: GEOTAR-Media, 2011. – 224 p.
2. Vertkin A. L. Clinical pharmacology: textbook. allowance for medical universities/ A.L. Vertkin, S.N. Kozlov. – M.: GEOTAR-Media, 2007. - 464c.
3. Clinical pharmacology: national manual / ed. Yu.B. Belousova, V.G. Kukesa, V.K. Lepakhina [and others]; Association of Medical Societies for Quality. – M.: GEOTAR-Media, 2014. - 965 p.
4. Antibacterial drugs in clinical practice: manual / ed. S.N. Kozlova, R.S. Kozlova. – M.: GEOTAR-Media, 2009. - 232c.

6.2. Internet resources

	ELECTRONIC EDUCATIONAL RESOURCES	Access to the resource
1	Electronic library RostSMU. – URL: http://109.195.230.156:9080/opac/	Access is not limited
2	Student Advisor [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"]: Electronic library system. – Moscow: Politekhresurs LLC. - URL: https://www.studentlibrary.ru + opportunities for inclusive education	Access is not limited
3	Doctor's consultant. Electronic medical library: Electronic library system. – Moscow: LLC "Higher School of Organization and Management of Healthcare_Comprehensive Medical Consulting". - URL: http://www.rosmedlib.ru + opportunities for inclusive education	Access is not limited
4	Rubricator of clinical recommendations Ministry of Health of Russia. -URL: http://cr.rosminzdrav.ru/	Open access
	Other Open resources can be found at: http://rostgmu.ru → Library→ Electronic catalogue→ Open Internet resources→ further by keyword...	