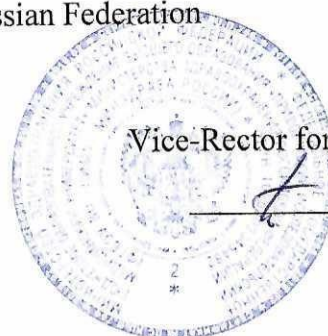


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **Infectious diseases**

Specialty: **31.05.01 GENERAL MEDICINE**

Qualification: **GENERAL PRACTITIONER**

Department: **INFECTIOUS DISEASES**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **288 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for the specialty 31.05.01 "GENERAL MEDICINE", approved by the Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 dated August 12, 2020


Developers of the working program:

Full name, academic degree, title, position.


Sobchak D.M., MD, Professor of the Department of Infectious Diseases.

Otmakhova I.A., Candidate of Medical Sciences, Associate Professor of the Department of Infectious Diseases.

The program was reviewed and approved at the department meeting (protocol No1, 17.08.2021)

Head of the Department,  (Krasnov V.V.)
MD, Professor _____
2 december _____ 2021

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.
(signature)

2 december 2021

1. The purpose and objectives of mastering the academic discipline infectious diseases.

The purpose of mastering the discipline: *participation in the formation of competencies: UC-1, PC-1,2,3,4,5,7,8*

The purpose of the discipline: the goal is to educate the personality of the future doctor, his aesthetic and deontological education, the continuation of the best humanistic traditions of Russian medicine.

Know:

- fundamentals of the legislation of the Russian Federation on the protection of public health;
- endemic and epidemiological factors of human health;
- basics of preventive medicine, methods of sanitary and educational work;
- epidemiology of infectious and parasitic diseases;
- pathogenesis of infectious diseases, complications and emergency conditions that develop in infectious pathology;
- the main methods of laboratory and instrumental diagnostics used in infectology;
- basic principles of treatment of infectious diseases and rehabilitation of patients, indications for hospitalization of an infectious patient;
- specific and non-specific prevention of infectious diseases;
- the structure of the infectious disease service, indications for outpatient treatment of an infectious patient;
- transportation of an infectious patient to a hospital: rules for isolation during hospitalization of patients;
- sanitary and hygienic requirements for the organization of work and the regime of infectious diseases hospitals, departments, boxes;
- organization of work with patients with HIV infection;
- main clinical manifestations of HIV infection;
- clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases and emergency conditions in patients.

Be able to:

- analyze and evaluate the quality of medical care;
- to participate in the organization and treatment-and-prophylactic and sanitary-anti-epidemic assistance to the population;
- to carry out preventive and anti-epidemic measures;
- determine the patient's status: anamnesis, interview the patient and / or his relatives, physical examination of the patient (examination, palpation, auscultation, indication of blood pressure, determination of arterial pulse, etc.);
- assess the patient's condition to make a decision on the need to provide him with medical care;
- to establish priorities for solving the patient's health problems: a critical (terminal) state, a state with an infectious disease;
- make a preliminary diagnosis - synthesize information about the patient
- determine additional studies in accordance with the prognosis of the disease, for diagnosis and obtaining a reliable result;
- choose an individual type of care for the treatment of the patient in accordance with the situation: primary care, ambulance, hospitalization;
- formulate a clinical diagnosis;

- develop a plan of therapeutic action;
- formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, determine pharmacotherapy in a patient with pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment;
- apply various methods of administering drugs;
- use methods of primary and secondary prevention in medical activities;
- provide first aid in case of emergency;
- fill out a medical history, write a prescription.

Possess:

- correct maintenance of medical records;
- methods of general clinical examination;
- interpretation of the results of laboratory, instrumental diagnostic methods;
- an algorithm for a detailed clinical diagnosis; an algorithm for making a preliminary diagnosis with subsequent referral of the patient to a specialist doctor;
- the main medical diagnostic and therapeutic measures to provide first aid in emergency and threatening conditions.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline _ infectious diseases _____ refers to the core part (or *the part formed by the participants of educational relations*) of Block 1 of GEP HE (Academic discipline index). Дисциплина относится к базовой части Блока 1 ООП ВО.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

To study the discipline, knowledge, skills and abilities are required, which are formed by previous disciplines/practices:

- **biochemistry; biology; pathological anatomy; pathological physiology; microbiology; pharmacology; immunology; propaedeutics of internal diseases.**

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Formation of students' general cultural (OK), general professional (OPK) and professional (PC) competencies:

№ II/ II	Compe tency code	The content of the competence (or part of it)	Code and name of the indicator of achievement of competence	В результате изучения дисциплины обучающиеся долж		
				Know	Be able to	Possess:

1	UC-1.	ability for abstract thinking, analysis, synthesis		<p>fundamentals of the legislation of the Russian Federation on the protection of public health; endemic and epidemiological factors shaping human health; basics of preventive medicine, specific and non-specific prevention of infectious diseases; epidemiology of infectious and parasitic diseases; pathogenesis of infectious diseases, their main clinical manifestations</p>	<p>analyze and evaluate the quality of medical care, participate in the organization and provision of medical and preventive and sanitary and anti-epidemic assistance to the population</p>	<p>methods of general clinical examination, correct maintenance of medical records</p>
2	PC -1	<p>the ability and willingness to analyze the results of their own activities to prevent professional errors</p>		<p>the main clinical manifestations of infectious diseases, basic principles of treatment and rehabilitation of infectious patients, indications for hospitalization and outpatient treatment of an infectious patient, the structure of the infectious disease service, the rules of isolation during hospitalization of patients, features of the organization of</p>	<p>assess the patient's condition to make a decision on the need to provide him with medical care, set priorities for solving the patient's health problems, formulate indications for the chosen method of treatment, fill out a medical history, write a prescription</p>	<p>methods of general clinical examination, correct maintenance of medical records</p>

				work with patients with HIV infection;		
3	PC -2	maintaining medical records		the main clinical manifestations of infectious diseases, the main methods of laboratory and instrumental diagnostics used in infectology	collect anamnesis, conduct a survey of the patient and / or his relatives, conduct a physical examination of the patient, outline the necessary amount of laboratory and instrumental studies for a particular patient; fill out a medical history, write a prescription	methods of general clinical examination, interpretation of results of laboratory and instrumental diagnostic methods, proper maintenance of medical records

4	PC -3	the use of drugs and other substances and their combinations in solving professional problems		the basic principles of the treatment of infectious diseases and the rehabilitation of patients, the clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases and emergency conditions in infectious pathology	develop a plan of therapeutic action, taking into account the course of the disease and its treatment; formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, justify pharmacotherapy in a particular patient, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment; use different methods of administering drugs	correct medical records
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5	PC-4	<p>readiness to collect and analyze patient complaints, his medical history, examination results, laboratory, instrumental, pathological and anatomical and other studies for diagnosis</p>		<p>pathogenesis of infectious diseases, their main clinical manifestations, possible complications and emergency conditions that develop in infectious pathology the main methods of laboratory and instrumental diagnostics used in infectology (indications for use, theoretical foundations of the method, interpretation of the results)</p>	<p>make a preliminary diagnosis - synthesize information about the patient in order to determine the pathology and the causes that cause it; outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result; formulate a clinical diagnosis</p>	<p>methods of clinical examination interpretation results of laboratory instrumental diagnostic methods an algorithm for a detailed diagnosis; the medical diagnostic measures to urgent and threatening conditions algorithm for a preliminary diagnosis with subsequent referral of the patient to the appropriate specialist doctor</p>
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6	PC-4	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		pathogenesis of infectious diseases, their main clinical manifestations, possible complications and emergency conditions that develop in infectious pathology	determine the status of the patient, make a preliminary diagnosis - synthesize information about the patient in order to determine the pathology and the causes that cause it; outline the amount of additional research, formulate a clinical diagnosis	methods of general clinical examination, interpretation of results of laboratory and instrumental diagnostic methods; an algorithm for setting a preliminary and detailed clinical diagnosis; the main medical diagnostic measures; identify urgent and life-threatening conditions; algorithm for making a preliminary diagnosis with subsequent referral of the patient to the appropriate specialist doctor
7	PC-7	readiness to conduct an examination of temporary disability		pathogenesis of infectious diseases, their main clinical manifestations and prognosis; emergency conditions developing in infectious pathology the main methods of laboratory and instrumental diagnostics used in infectology (indications for use, theoretical foundations of the method, interpretation of the results); basic principles of treatment of infectious diseases	collect anamnesis, conduct a survey of the patient and / or his relatives, conduct a physical examination of the patient, outline the scope of necessary studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result	methods of general clinical examination, interpretation of results of laboratory and instrumental diagnostic methods

				and rehabilitation of patients		
8	PC-8	the ability to determine the tactics of managing patients with various nosological forms		clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases and emergency conditions in infectious pathology; - specific and non-specific prevention of infectious diseases	conduct a physical examination of the patient, outline the required volume of laboratory and instrumental studies for a particular patient; develop a plan of therapeutic action, taking into account the course of the disease and its treatment; participate in the organization and provision of medical and preventive and sanitary and anti-epidemic assistance to the population; carry out preventive and anti-epidemic measures	methods of general clinical examination, interpretation of results of laboratory and instrumental diagnostic methods, proper maintenance of medical records, medical diagnosis, therapeutic measures to provide first aid in emergency and threatening conditions

9	IIK-9	<p>readiness for the management and treatment of patients with various nosological forms in outpatient settings and day hospital conditions</p>		<p>main clinical manifestations, possible complications and emergency conditions that develop in infectious pathology; the main methods of laboratory and instrumental diagnostics used in infectology; the basic principles of the treatment of infectious diseases and the rehabilitation of patients, the clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of infectious pathology; specific and non-specific prevention of infectious</p>	<p>conduct a physical examination of the patient, outline the required volume of laboratory and instrumental studies for a particular patient; develop a plan of therapeutic action, taking into account the course of the disease and its treatment; participate in the organization and provision of medical and preventive and sanitary and anti-epidemic assistance to the population; carry out preventive and anti-epidemic measures</p>	<p>methods of general clinical examination, interpretation of results of laboratory and instrumental diagnostic methods, an algorithm for making a preliminary diagnosis with subsequent referral of the patient to the appropriate specialist doctor; an algorithm for making a differential clinical diagnosis, correct medical records</p>
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10	PC-11	readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention		pathogenesis of infectious diseases, complications and emergencies that develop in infectious pathology	determine the status of the patient, assess the patient's condition to make a decision on the need to provide him with medical care; set priorities for solving patient health problems: critical (terminal) condition, substantiate pharmacotherapy in a particular patient, provide first aid in emergency conditions	the main medical diagnostic and therapeutic measures for the provision of first aid in emergency and life-threatening conditions
11	PC-22	willingness to participate in the introduction of new methods and techniques aimed at protecting the health of citizens		modern methods of clinical, laboratory, instrumental examination used in infectology	collect anamnesis, conduct a survey of the patient and / or his relatives, conduct a physical examination of the patient, outline the scope of necessary studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result	methods of clinical examination, interpretation of results of laboratory and instrumental diagnostic methods

4. Sections of the academic discipline and competencies that are formed when mastering them

№ п/п	Competency code	Section name disciplines	The content of the section in didactic units
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	<p>UC-1, PC-5,6,8,9,11,22</p>	<p>Introduction to the specialty. The doctrine of the general pathology of infections. Principles of treatment of infectious patients. The structure of the infectious service.</p>	<p>infectious diseases as an independent scientific and clinical discipline. Patterns of the development of the infectious process. Classification of infectious diseases. Clinical and epidemiological diagnosis of infectious diseases. Features of conducting and methods of laboratory and instrumental research. Hospitalization is mandatory, according to clinical and epidemiological indications. Principles of organization of outpatient services. Principles of complex etiotropic and pathogenetically substantiated therapy. The most important sanitary-hygienic and clinical requirements for the design and operation of infectious diseases hospitals and departments. Features of the organization of work with patients with HIV infection. Release conditions. Medical examination. Principles of prevention of infectious diseases. Current WHO information in the detection of a conventional quarantine disease.</p>
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	<p>UC-1, PC-5,6,8,9,11,22</p>	<p>Intestinal infections and invasions:</p> <p>1. anthroponoses - typhoid fever, paratyphoid A and B, dysentery, escherichiosis, cholera, food poisoning, viral gastroenteritis, amoebiasis, enterovirus infections, helminthiasis, viral hepatitis A and E, campylobacteriosis</p> <p>2. anthropozoonoses and zoonoses - salmonellosis, balantidiasis, botulism, yersiniosis, leptospirosis, brucellosis, toxoplasmosis</p>	<p>Definition. Etiology, properties of pathogens. Epidemiological features and nature of the immune response in each nosological form.</p> <p>The pathogenesis of diseases. Mechanisms for the development of complications (infectious-toxic and hypovolemic shock, massive liver necrosis, acute respiratory failure). Features of the pathogenesis of helminthiasis. Characteristics of pathomorphological processes.</p> <p>Clinical picture (classification, incubation period, characteristics of the periods of the course of the disease, severity criteria), characteristics of complications, clinical manifestations of relapses and chronic forms (typhoid fever, paratyphoid fever, dysentery, amoebiasis, brucellosis, toxoplasmosis).</p> <p>Diagnosis (the role of epidemiological, anamnestic and clinical data; biochemical blood parameters; serological, virological, bacteriological, parasitological, molecular biological methods; instrumental research methods). differential diagnosis.</p> <p>Treatment: the value of the regimen, diet therapy, including the pre-hospital stage; mandatory hospitalization, indications for hospitalization; principles and means of etiotropic, pathogenetic therapy and indications for their use. Specific therapy with anti-botulinum serum. Emergency treatment for complications. Discharge rules. Rehabilitation of the sick.</p> <p>Prevention: the need for early detection and hospitalization of patients, bacteriological examination of contact persons; vaccination; principles of disinfection; clinical examination of convalescents; international regulations and quarantine measures for cholera control; principles of veterinary and sanitary (brucellosis), deratization (leptospirosis) measures.</p>
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	<p>UC-1, PC-5,6,8,9,11,22</p>	<p>Respiratory infections: 1. anthroponoses - influenza and other acute respiratory viral infections, diphtheria, tonsillitis, meningococcal infection, legionellosis, mycoplasma infection, herpesvirus infections 2. zoonoses - chlamydia (ornithosis)</p>	<p>Definition. Etiology, properties of the pathogen. Epidemiological aspects, the nature of the immune response. pathogenesis of diseases; features of the development of hypertoxic forms of influenza; mechanism of action of diphtheria exotoxin; pathogenesis of complications (infectious-toxic shock, swelling and edema of the brain, DIC, acute adrenal insufficiency - Waterhouse-Frideriksen syndrome); development of relapses (herpetic infections). pathological changes. Clinical picture (classification, incubation period, characteristics of the periods of the disease, severity criteria, complications, outcomes, relapses, prognosis); features of the course of influenza and toxic forms of diphtheria. Diagnosis (the role of epidemiological, anamnestic and clinical data; serological, virological, bacteriological, biological and molecular biological methods for confirming the diagnosis; the importance of CSF studies in the diagnosis of meningitis; instrumental diagnosis of complications); assessment of the state of antitoxic antidiphtheria immunity. differential diagnosis. Treatment: indications for hospitalization (influenza, SARS, tonsillitis, herpes infections), home treatment; mandatory hospitalization; etiotropic therapy, principles and means of pathogenetic therapy, indications for antibiotic therapy for influenza and SARS; therapy with antitoxic antidiphtheria serum, indications for intubation and tracheostomy in diphtheria; emergency treatment of complications, hypertoxic forms of influenza. Discharge rules. Rehabilitation of the sick. Prevention (isolation of patients with influenza, diphtheria, meningococcal infection; specific prevention of influenza, diphtheria; anti-epidemic measures).</p>
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<p>4.</p>	<p>UC-1, PC-5,6,8,9,11,22</p>	<p>Blood infections: 1. anthroponoses - viral hepatitis B, C, D, G, epidemic typhus and Brill's disease, Q fever, malaria, leishmaniasis, sepsis, HIV infection 2. anthrozooses and zoonoses - plague, tularemia, hemorrhagic fevers, endemic (rat) typhus, rare rickettsiosis, viral encephalitis</p>	<p>Definition. Etiology, properties of pathogens, features of the biological action of the human immunodeficiency virus.</p> <p>Epidemiological aspects, the nature of the immune response.</p> <p>pathogenesis of diseases; features of the pathogenesis of chronic hepatitis; mechanism for the development of relapses (typhus, malaria); inhibition of the body's defense mechanisms as a decisive factor in the development of sepsis; mechanisms of formation of immunological disorders in HIV infection; pathogenesis of complications (massive necrosis of the liver, infectious-toxic shock, acute respiratory failure, DIC).</p> <p>Characteristics of pathomorphological processes.</p> <p>Clinical picture (classification, incubation period, periods of the course of the disease, criteria for severity, complications, clinical manifestations of relapses and chronic forms, outcomes, prognosis; features of the sepsis clinic depending on the entrance gate and on the properties of the pathogen.</p> <p>Diagnosis (the role of clinical, anamnestic and epidemiological data; serological, virological, bacteriological, parasitological, molecular biological methods; instrumental diagnostics and biochemical blood tests in viral hepatitis, the study of the state of cellular immunity in HIV infection). differential diagnosis.</p> <p>Treatment: importance of regimen, nursing and diet therapy, mandatory hospitalization; indications for hospitalization of patients with chronic viral hepatitis; principles and means of etiotropic and pathogenetic therapy, indications for their use; emergency treatment for complications. Discharge rules. Rehabilitation of the sick.</p> <p>Prevention: the need for early detection and hospitalization of patients; immediate mandatory hospitalization of a plague patient in specialized hospitals and isolation of contact persons; specific prevention; principles of disinfection, deratization and disinfestation in the foci of infections; preventing the importation of malaria; principles of clinical examination of convalescents.</p> <p>Global Strategy to Combat HIV Infection. Legal and medical-deontological problems of HIV infection</p>
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5.	UC-1, PC-5,6,8,9,11,22	<p>infections of the outer integument:</p> <ol style="list-style-type: none"> 1. anthroponoses - erysipelas, tick-borne borreliosis 2. anthroozoonoses and zoonoses - anthrax, erysipeloid, glanders, tetanus, rabies, foot and mouth disease, listeriosis 	<p>Definition. Etiology, properties of the pathogen. Epidemiological features, the nature of the immune response.</p> <p>pathogenesis of diseases; features of the spread of the rabies virus in the body; pathogenesis of complications. Characteristics of pathomorphological processes.</p> <p>Clinical picture (classification, incubation period, characteristics of the periods of the disease, severity criteria, complications, clinical manifestations of relapses and chronic forms, outcomes, prognosis).</p> <p>Diagnosis (the role of professional epidemiological, clinical and anamnestic data; serological, virological, bacteriological, molecular biological methods, the leading role of the clinical symptom complex in the diagnosis of erysipelas, tetanus; the importance of detecting Babes-Negri bodies in the brain of animals that died from rabies). differential diagnosis.</p> <p>Treatment: prehospital stage; mandatory hospitalization; with erysipelas - indications for hospitalization, a home treatment program; principles and means of etiotropic therapy; the use and method of administration of specific anti-anthrax gamma globulin, anti-tetanus serum, anti-tetanus globulin, toxoid; means of pathogenetic therapy; emergency treatment for complications. Discharge rules. Rehabilitation of the sick.</p> <p>Prevention: bicillin prophylaxis of recurrence of erysipelas, specific prevention of rabies; with anthrax - medical monitoring of contacts and specific prophylaxis; planned and emergency prophylaxis of tetanus; principles of sanitary-hygienic and sanitary-veterinary measures (foot-and-mouth disease, anthrax, rabies, listeriosis).</p>
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5. Volume of the academic discipline and types of academic work

Type of study work by semesters (ACH)	Labor intensity	Labor intensity
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	объем в зачетных единицах (ЗЕ)	объем в академических часах (АЧ)	9	10
classroom work, including	4,22	152	84	68
Lectures (L)	1,06	38	20	18
Laboratory workshops (LP)				
Practical exercises (PZ)	3,2	114	64	50
Seminars (C)				
Student Independent Work (SIW)	2,78	100	60	40
Intermediate certification				
Exam	1	36		36
TOTAL LABOR CAPACITY	8	288	144	144

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work:

№ п/п	№ семестра	Name of the section of the discipline	Types of educational work* (in AP)					
			Л	ЛП	ПЗ	С	СПС	всего
1	9				5			5

2	9-10	Introduction to the specialty. The doctrine of the general pathology of infections. Principles and methods of treatment of infectious patients. The structure of the infectious service. Intestinal infections and invasions (typhoid fever, paratyphoid A and B, dysentery, escherichiosis, salmonellosis, cholera, food poisoning, viral gastroenteritis, amoebiasis, balantidiasis, enterovirus infections, helminthiasis, viral hepatitis A and E, botulism, yersiniosis, campylobacteriosis, brucellosis, leptospirosis, toxoplasmosis)	13		36		35	84
3	9-10	Respiratory tract infections (influenza and other acute respiratory viral infections, diphtheria, tonsillitis, meningococcal infection, chlamydia, legionellosis, mycoplasma infection, herpesvirus infections)	10		23		9	42
4	9-10	Blood infections (viral hepatitis B, C, D, G, epidemic typhus and Brill's disease, endemic (rat) typhus, Q fever, rare rickettsiosis, malaria, leishmaniasis, hemorrhagic fevers, viral encephalitis, sepsis, plague, tularemia, HIV infection, leishmaniasis)	15		38		33	86
5	10	External infections (erysipelas, tick-borne borreliosis, erysipeloid, anthrax, glanders, tetanus, rabies, foot and mouth disease, listeriosis, cat scratch disease)			12		23	35
6	10	Exam						36
		TOTAL	38		114		100	288

L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

* - Л – лекции; ЛП – лабораторный практикум; ПЗ – практические занятия; С – семинары; СРС – самостоятельная работа студента.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

п/№	Name of topics of lectures	Volume in ACH
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		Семестр 9	Семестр 10
1	Typhoid fever, paratyphoid A and B	2	
2	Dysentery	2	
3	Salmonella, PTI	2	
4	Cholera	1	
5	Viral hepatitis A, E	2	
6	Viral hepatitis B, C, D, G	2	
7	Botulism	1	
8	yersiniosis	2	
9	Leptospirosis	1	
10	HFRS	1	
11	Influenza and other SARS	2	
12	Meningococcal infection	2	
13	Diphtheria		2
14	Angina		2
15	Infectious mononucleosis		2
16	Malaria		2
17	Sepsis		3
18	Plague		2
19	Tularemia		2

20	HIV infection		3
	TOTAL (total - 38 Ah)	20	18
	DISTANT LECTURES		
1	Introduction to the specialty.	1	
2	Chronic viral hepatitis	1	
3	Rabies	2	
4	Typhus and Brill's disease, Q fever	2	
5	Brucellosis		2
6	erysipelas		1
7	anthrax		1
8	Tick-borne borreliosis		2
9	Differential diagnosis of diseases with jaundice syndrome		2
10	Differential diagnosis of diseases with fever syndrome		2
11	Differential diagnosis of diseases with diarrhea syndrome	2	

***(очная форма, с применением ЭИОС и ДОТ)**

6.3. 6.2.2. The thematic plan of laboratory practicums (*if this type of classes is stipulated in the curriculum*)

6.4.

Thematic plan of practicals

П/№	Name of topics of practical classes	Volume in AH	
		Семестр 9	Семестр 10

1.	Introduction to the specialty.	5	
2.	Typhoid fever, paratyphoid A and B	5	
3.	Dysentery	3	
4.	Salmonella	2	
5.	Cholera	3	
6.	Food poisoning	1	
7.	Amoebiasis. Balantidiasis	2	
8.	Helminthiases	3	
9.	Viral hepatitis A, E	3	
10.	Viral hepatitis B, C, D, G	5	
11.	Botulism	2	
12.	Yersiniosis	3	
13.	Leptospirosis	2	
14.	Influenza and other SARS	4	
15.	Epidemic typhus and Brill's disease	1	
16.	Chlamydia	1	
17.	Hemorrhagic fevers	3	
18.	Chronic viral hepatitis	2	
28.	Tetanus	3	
29.	HFRS	1	

38.	Q fever	1	
39.	Rabies	2	
25.	Meningococcal infection	5	
20.	Differ. diag. diseases with diarrheal syndrome	2	
21.	Emergency conditions (dehydration shock, infectious-toxic shock, acute liver failure, acute renal failure, acute respiratory failure)		4
22.	Brucellosis		3
23.	Diphtheria		3
24.	Angina		2
26.	Infectious mononucleosis		2
27.	Herpesvirus infections		1
30.	Systemic tick-borne borreliosis		2
31.	Malaria		4
32.	Sepsis		2
33.	Plague		2
34.	Tularemia		2
35.	HIV infection		4
36.	erysipelas		3
37.	anthrax		2
40.	foot and mouth disease		1

41.	Differ. diag. febrile illnesses		3
19.	Differ. diag. diseases with jaundice syndrome		3
42.	Different. diag. diseases with tonsillitis syndrome		2
43.	Emergency conditions (malarial coma, hemoglobinuric fever, acute respiratory failure, cerebral edema, toxic shock)		5
	TOTAL (всего - 114 АЧ)	64	50

***(очная форма, с применением ЭИОС и ДОТ)**

6.5. Thematic plan of seminars (*if this type of classes is stipulated in the curriculum*)
Тематический план семинаров:

Не предусмотрены учебным планом

6.6.

Types and topics of independent work of the student:

П/№	Types and topics of SRS	Amount in AH	
		Семестр р 9	Семестр 10
1.	Escherichiosis (working with literary sources, writing case histories, working with electronic educational resources posted on the educational portal).	6	
2.	Viral gastroenteritis (working with literary sources, writing case histories, preparing abstracts, working with electronic educational resources posted on the educational portal).	6	
3.	Enteroviral infections (working with literary sources, writing case histories, reports, working with electronic educational resources posted on the educational portal).	6	

4.	Campylobacteriosis (work with literary sources, preparation of abstracts, work with electronic educational resources posted on the educational portal)	5	
5.	Rare helminthiases (echinococcosis, fascioliasis, toxocariasis, filariasis) (work with literary sources, preparation of essays, reports, work with electronic educational resources posted on the educational portal)	6	
6.	Yellow fever, other tropical HF (work with literary sources, preparation for participation in role-playing games, work with electronic educational resources posted on the educational portal)	5	
7.	Crimean GL (work with literary sources, preparation of abstracts, essays, preparation for participation in role-playing games, work with electronic educational resources posted on the educational portal)	4	
8.	Legionellosis (work with literary sources, preparation of essays, reports, work with electronic educational resources posted on the educational portal)	5	
9.	Mycoplasma infection (work with literary sources, preparation of reports, work with electronic educational resources posted on the educational portal)	4	
10.	Endemic (rat) typhus (work with literary sources, preparation of reports, work with electronic educational resources posted on the educational portal)	4	
11.	Rare rickettsiosis (work with literary sources, preparation of abstracts, reports, work with electronic educational resources posted on the educational portal)	5	
12.	Epidemic relapsing fever (work with literary sources, preparation of abstracts, work with electronic educational resources posted on the educational portal)	4	
13.	Visceral leishmaniasis (work with literary sources, preparation of reports, essays, work with electronic educational resources posted on the educational portal)		5
14.	Cutaneous leishmaniasis (work with literary sources, preparation of reports, work with electronic educational resources posted on the educational portal)		5

15.	Viral encephalitis (work with literary sources, preparation of reports, work with electronic educational resources posted on the educational portal)		6
16.	Toxoplasmosis (working with literary sources, writing case histories, preparing essays, reports, working with electronic educational resources posted on the educational portal)		6
17.	Erysipeloid (work with literary sources, preparation of abstracts, reports, work with electronic educational resources posted on the educational portal)		5
18.	SAP (work with literary sources, preparation of reports, work with electronic educational resources posted on the educational portal)		4
19.	Listeriosis (work with literary sources, preparation of reports, work with electronic educational resources posted on the educational portal)		4
20.	Cat scratch disease (benign lymphoreticulosis) (work with literary sources, preparation of essays, reports, work with electronic educational resources posted on the educational portal)		5
	TOTAL (всего - 100 АЧ)	60	40

6.7. Student's research work:

№ п/п	Name of the topics of the student's research work	Объем в АЧ	
		9 семестр	10 семестр
1.	Features of the immune response in patients with chronic hepatitis C on the background of interferon-free antiviral therapy.		
2.	Cytokine response in patients with chronic EBV infection.		
3.	Features of the course of recurrent erysipelas at the present stage. Etiological profile in patients with angina		
4.	Etiological profile in patients with angina		

7. Types of assessment formats for ongoing monitoring and mid-term assessment Фонд
оценочных средств для проведения текущего контроля и промежуточной аттестации

№ п/п	№ семестра	Forms of control. section.	The name of the discipline	Kinds.		
				Evaluation tools	Number of control questions.	Number of options for test tasks.
1	2	3	4	5	6	7
1.	9	Control of the development of the topic, control of independent work.	Introduction to the specialty. The doctrine of the general pathology of infections. Principles and methods of treatment of infectious patients. The structure of the infectious service.	Test tasks.	20	Неограничено
2.	9-10	Control of the development of the topic, control of independent work.	ntestinal infections and invasions (typhoid fever, paratyphoid A and B, dysentery, escherichiosis, salmonellosis,	Interview on situational tasks.	2-3	15
				Case situations. Test tasks.	1	3

			cholera, food poisoning, viral gastroenteritis, amoebiasis, balantidiasis, enterovirus infections, helminthiases, viral hepatitis A and E, botulism, yersiniosis, campylobacteriosis, brucellosis, leptospirosis, toxoplasmosis)	Test tasks.	20-30	Не ограничен
3.	9-10	Control of the development of the topic, control of independent work.	Respiratory tract infections (influenza and other acute respiratory viral infections, diphtheria, tonsillitis, meningococcal infection, chlamydia, legionellosis, mycoplasma infection, herpesvirus infections)	Interview on situational tasks.	2-3	40
				Case situations	1	3
				Test tasks.	20-30	Не ограничен
4.	9-10	Control of the development of the topic, control of independent work.	Blood infections (viral hepatitis B, C, D, G, epidemic typhus and Brill's disease, endemic (rat) typhus, Q fever, borreliosis, malaria,	Interview on situational tasks.	2-3	60
				Case situations.	1	3

			leishmaniasis, hemorrhagic fevers, viral encephalitis, sepsis, plague, tularemia, HIV - infection)	Test tasks.	20-30	Не ограничен о
5.	10	Control of the development of the topic, control of independent work.	External infections (erysipelas, erysipeloid, anthrax, glanders, tetanus, rabies, foot and mouth disease, listeriosis)	Interview on situational tasks.	2-3	35
				Case situations	1	3
				Test tasks.	20-30	Не ограничен о
6.	10	intermediate certification	Infectious diseases (all sections of the discipline)	Written solution of situational problems (exam).	5	50

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		In the department	In the library
1.	Yushchuk N.D., Infectious diseases: textbook. M. : GEOTAR-Media- M., 2011	1	51
2.	Pokrovsky V.I., Briko N.I. and others. Infectious diseases and epidemiology: textbook-2nd edition-M., 2013.	1	50
3.	infectious diseases. National leadership / ed. N.D. Yushchuk, Yu.Ya. Vengerova.-M., 2009.	1	8

8.2.Further reading :

№	Name according to bibliographic requirements	Количество экземпляров	
		In the department	In the library
1.	Anokhina G.I., Belaya O.F., Volchkova E.V. Infectious diseases and epidemiology. Control test tasks for self-study (an appendix to the textbook of Pokrovsky V.I., Pak S.G. and others. Infectious diseases and epidemiology ed. 2nd edition). - GEOTAR-Media, 2004.	1	
2.	Vinogradov A.B. Medical parasitology. – Ed.: Phoenix, 2006.		4
3.	Gillespie S.G., Bamford K.B. Visual infectious diseases and microbiology / translation from English, ed. Paka S.G.,	1	
4.	Erovichenkova A.A.-M., 2009. Jerusalem A.P. Tick-borne encephalitis. - 2001.		2
5.	Isakov V.A., Borisova V.V., Isakov D.V. Herpes: pathogenesis and laboratory diagnostics: A guide for physicians. - St. Petersburg. "Lan", 1999. Korochkina O.V. Endogenous infections. - N.N.. NGMA, 2001.		2
6.	Zhdanov K.V. Viral hepatitis: textbook., Ed.: Folio, 2011.		2
			1
7.	Zverev V.V. Medical Microbiology, Virology, Immunology. Textbook.-GEOTAR.-384.	8	5
8.	Korochkina O.V. Immunogenesis of acute and chronic forms of HCV infection. Patient monitoring system., NN, 2008	7	
9.	Kukes V.G., Marinin V.F. Medical diagnostic methods: textbook.-M., 2006.		5

10	Libman G. HIV infection: per. from English, ed.: GEOTAR-Media, 2012		2
11.	Lobzin Yu.V., Vasiliev V.V., Zhdanov K.V. etc. Guide to infectious diseases. - St. Petersburg, 2003.	1	3
12.	Lobzin Yu.V., Pilipenko V.V., Gromyko Yu.N. Meningitis and encephalitis. - St. Petersburg: Folio, 2001.		2
13	Murray J.P. English-Russian medical reference book "At the appointment with an English doctor". - Moscow. - "Russo". -2002.	1	2
14.	Mayer K.-L. Hepatitis and the consequences of hepatitis (2nd edition) - M., 2004.	1	1
15	Maly V.P. Influenza: a guide for doctors. - ed.: Taktik-studio, 2007		4
16	Minaeva S.V. HIV infection: textbook., NN., 2006.		116
17	Nikiforov N.D., Popov A.F., Tokmolaeva A.K. Malaria. - from: RUDN University, 2004.		1
18.	Savelyev V.S., Gelfand B.R. Sepsis: classification, clinical diagnostic concept and treatment. Practical guide. - 2010.		1
19.	Sobchak D.M., Korochkina O.V. Acute intestinal infections: topical issues of the clinic, differential diagnosis, treatment. HH, 2017	10	
20.	Sobchak D.M., Korochkina O.V. Helminthiasis: topical issues of clinic, diagnosis, treatment. Study guide, HH, 2014-2017	5	15
21.	Sobchak D.M., Korochkina O.V. EBV infection: etiology, pathogenesis, clinic, diagnosis, treatment., NN., 2010	10	10
22.	Somov G.P., Pokrovsky V.I., Besednova N.N., Antonenko F.F. Pseudotuberculosis. - 2nd ed. - 2001.		1

23.	Sorinson S.N. Emergency conditions in infectious patients. - L., 1990.	2	4
24.	Sorinson S.N., Korochkina O.V. Treatment of infectious diseases at home.-Gorky, GMI, 1990.		122
25.	Sorinson S.N. Infectious diseases in outpatient practice. St. Petersburg. 1993.	2	54
26.	Sorinson S.N. Propaedeutics of infectious diseases.- N.N., NGMA.1994.	200	195
27.	Sorinson S.N. Sepsis. - N.N., NGMA, 2000.	2	5
28.	Shuvalova E.P., Zmushko E.I. Syndromic diagnosis of infectious diseases. - 2001.		2
29.	Schlossberg D., Differential diagnosis of infectious diseases: a practical guide for doctors and students., Publisher: BINOM., 2000.		3
30.	Shkarin V.V. Hepatitis A: etiology, epidemiology, diagnosis, prevention. Textbook., NN., 2015		1
31.	Tsybasova A.I., Shamshura O.L. Rules for discharge from the hospital and medical examination of convalescents after infectious diseases (guidelines for doctors), NN., 2000	5	
32.	Emond R.T.D., Welsby F.D., Rowland H.A. Atlas of infectious diseases: translation from English - M., 2010.	1	1
33.	Yushchuk N.D. Yersiniosis., Publisher: Medicine, 2003		3
34.	Yushchuk N.D. Infectious diseases: textbook., Ed.: Medicine, 2003.	1	90
35.	Phillis Kanki, Darrel Jay Grimes Infection Diseases.- Springer.-2013.		2

4.	Blood infections:	
	- viral hepatitis B, C, D, G,	20
	- epidemic typhus and Brill's disease, rare rickettsiosis,	20
	- endemic (rat) typhus,	
	- Q fever	20
	- malaria,	20
	- leishmaniasis,	20
	- hemorrhagic fevers,	20
	- viral encephalitis,	20
	- sepsis,	20
- plague,	20	
- tularemia,	20	
- HIV infection,	20	
		20
5.	Infections of the outer integument:	
	- erysipelas,	20
	- erysipeloid,	20
	- anthrax,	20
	- sap,	20
	- tetanus,	20
	- frenzy	20
	- foot and mouth disease	20

8.4. Electronic educational resources for teaching academic subjects

Электронные образовательные ресурсы, используемые в процессе преподавания дисциплины:

8.4.1.

*Внутренняя электронная библиотечная система университета (ВЭБС)**

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Internal Electronic Library System (VEBS)	PIMU Proceedings of PIMU staff (textbooks, manuals, collections of tasks, methodological manuals, laboratory works, monographs, etc.)	Access by individual login and password from any computer and mobile device	Not limited

8.4.2. Electronic educational resources purchased by the university

№	The name of the electronic resource.	Brief description (content).	Access conditions.	
1.	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic Library of a Technical University (ELS "Student Consultant".	Textbooks and teaching aids for higher medical and pharmaceutical education.	Access by individual login and password from any computer and mobile device.	Not limited
2.	Database "Doctor's Consultant. Electronic Medical Library.	National guidelines, clinical guidelines, textbooks, monographs, atlases, reference books, etc.	Access by individual login and password from any computer and mobile device.	Not limited
3.	Database "Electronic Library System "Bukap". Educational and scientific medical literature of Russian publishing houses, incl. translated editions.	The collection of subscription publications is formed point by point	Access by individual login and password from any computer and mobile device. From university computers - access is automatic.	Not limited
4.	Electronic periodicals in the database "SCIENTIFIC ELECTRONIC LIBRARY eLIBRARY".	Electronic medical Magazines.	Access - from the computers of the university.	Not limited

8.4.3 Open access resources

№	The name of the electronic resource.	Brief description (content).	Access conditions
1	Scientific electronic library eLIBRARY.RU	The largest Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of scientific articles and publications. [Electronic resource] - Access mode: https://elibrary.ru/	from any computer on the Internet
2	Scientific electronic library of open access CyberLeninka.	Full texts of scientific articles with annotations published in scientific journals in Russia and neighboring countries. [Electronic resource] - Access mode: https://cyberleninka.ru/	from any computer on the Internet
3	Russian State Library (RSL).	Abstracts for which there are copyright agreements with permission for their open publication [Electronic resource] - Access mode: http://www.rsl.ru/	from any computer on the Internet
4	Federal Electronic Medical Library (FEMB).	Includes electronic analogues of printed publications and original electronic publications that have no analogues recorded on other media (dissertations, abstracts, books, magazines, etc.). [Electronic resource] - Access mode: http://neb.rf/	from any computer on the Internet
5	Reference and legal system "Consultant Plus".	Federal and regional legislation, judicial practice, financial advice, legislative comments, etc. [Electronic resource] - Access mode: http://www.consultant.ru/	from any computer on the Internet

9. . Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

List of premises for classroom activities for the discipline

The list of premises necessary for conducting classroom lessons in the discipline.

The Department of Infectious Diseases is located in the educational building No. 8 (N. Novgorod, Alekseevskaya St., 1), Hospital No. 9 of Nizhny Novgorod, Hospital No. 23, Hospital No. 8.

1. In the educational building No. 8 there are 3 classrooms (for practical training), 2 professor's offices, an office of the head. department (used for practical exercises), 2 conference rooms (for lectures, practical exercises), 1 laboratory, 1 dressing room.

2. Hospital No. 9 has 1 assistant's room and 1 conference room.

3. Hospital No. 8 has 1 conference room.

4. Hospital No. 23 has 1 conference hall, 1 study room.

9.2. List of equipment for classroom activities for the discipline

The list of equipment* required for classroom training in the discipline.

- furniture (student tables and chairs),

-2 multimedia complexes (laptop, projector, screen)

-slides, tables, drawings, educational case histories, illustrated educational albums, preparations (helminths, helminth eggs, blood smears with malarial plasmodium, diphtheria films, etc.) for practical exercises.

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	

