Faculty of Humanities and Social Sciences

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Philosophy
The amount of discipline	3 CU (108 hours)
	Course Description
Topics	Content of topics
Philosophy and other types of worldview	Philosophy and wisdom. Philosophy and everyday thinking. Philosophy and mythology. Philosophy and private science. Philosophy and religion.
The boundaries of knowledge and features of knowledge of reality	Objective and subjective knowledge. Mayeutics Socrates. Sophists and skeptics about objective knowledge. Francis Bacon and the "idols of consciousness." The method of doubt R. Descartes. Science and objective knowledge. Verification and falsification (K. Popper).
Consciousness and unconscious. Philosophical Anthropology	Instincts and intelligence. The concept of artificial intelligence. Thinking and language. Consciousness and self-knowledge. Concepts of the unconscious of the twentieth century.
Problems of being and the foundations of human existence.	Materialism and idealism about reality. Objective and subjective idealism. Determinism and indeterminism. The concept of free will. Fatalism. Existentialism about free will.
Philosophy of morality and ideals of human life	Moral and legal regulations. The concept of justice. Selfishness, rational selfishness and individualism. The golden rule of morality. I. Kant's ethics and utilitarianism. Ethical problems of the death penalty.
Social philosophy: the ideals of a just society	Plato on ideal and imperfect states. Social ideals of K. Marx. The concept of alienation. Democratic principles of justice. The concept of progress. Scientific, technical and social progress. Industrial and post-industrial societies.

Educational program 31.05.01 General medicine

Developers:

Associate Professor of the Department of Social Philosophy Senior Lecturer of the Department of Social Philosophy Head of the Department of Social Philosophy Rudkovskaya SV Kurmeleva EM Ivleva M.L.

Faculty of Humanities and Social Sciences

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Bioethics
The amount of discipline	2 credits (72 Hours.)
	Course Description
Topics	Content of topics
Ethics is a philosophical	Concept of morality and structure of moral thinking.
science	Ethics is philosophy science. Ethics' types.
	Main categorical concepts of Morality.
	Applied ethics: its concept and structure.
Bioethics: its status, range of	Concept of bioethics, its place in philosophy and science.
problems	Main models of medical ethics throughout the History.
	Main principles of bioethics.
Modern biomedical ethics.	Main models of medical ethics throughout the History.
	Main principles of bioethics.
	Historical development of biomedical ethics.
	Medical ethics. General Issues. Hippocratic Oath and
	modern biomedical ethics.
	Rights and moral responsibility of medical personnel.
	Patients' rights.
	Ethics and epidemiology.
Abortion. Ethical aspects of	Moral problems of reproductive technologies.
reproductive technologies.	Genetic engineering.
	Medical ethics. General Issues. Hippocratic Oath and
	modern biomedical ethics. Rights and moral
	responsibility of medical personnel.
	Patients' rights.
Ethical issues of biotechnology	Rights and moral responsibility of medical personnel.
(cell studies, gene therapy, gene	Patients' rights. TU -14. Defining death. Dying,
engineering, cloning).	dementia, aging. Main principles of bioethics.
Death and Dying. End of	Defining death. Dying, dementia, aging. Main principles
Human Life.	of bioethics. Medical ethics. General Issues. Hippocratic
	Oath and modern biomedical ethics. Rights and moral
	responsibility of medical personnel. Patients' rights.

Organ transplantation	Main models of medical ethics throughout the History.
	Main principles of bioethics. Rights and moral
	responsibility of medical personnel. Patients' rights.
	Defining death. Dying, dementia, aging. Defining death.
	Dying, dementia, aging. Organ transplantation.
Moral problems of physical	Main models of medical ethics throughout the History.
and mental integrity of patient	Medical ethics. General Issues. Hippocratic Oath and
	modern biomedical ethics. Rights and moral
	responsibility of medical personnel. Patients' rights.
	Defining death. Dying, dementia, aging. Defining death.
	Dying, dementia, aging. Mental medicine and
	antipsychiatry.
Experiments involving	Research ethics. Animals' rights. Main principles of
Human being and animals:	bioethics. Historical development of biomedical ethics.
legislative and moral background	International documents protecting humans and animal
	involved in the research.

Senior Lecturer of the Department of Ethics

Savvina O.V.

Head of the Department of Ethics

Tsvyk V.A.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Law Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Law Science
The amount of	2 CU (72 hours)
discipline	
	Course Description
Topics	Content of topics
	Topic 1.1 The concept, features, functions of the state.
	State: theory of origin, features, functions.
	Theme 1.2 Forms of the state.
Fundamentals of the	The concept of the form of the state. Form of government: monarchy
theory of state	and republic. Form of government: unitary state,
and law.	federation, confederation. Political regimes. The concept and form
	of democracy. Legal state and civil society.

	Topic 1.3 Law in the system of social regulation.
	The concept of social norms. Types of social norms. The ratio of law
	and morality. Signs and functions of law.
	Topic 1.4 Rules and sources of law.
	The concept of legal norms, its structure and types. Types of sources
	of law Regulatory act as a source of law The effect of legal acts in
	time space and circle of persons
	Theme 1.5 Law system
	The concept of the system of law its elements Branch of Law and
	Legal Institute The main branches of modern Russian law family
	labor, civil, criminal, administrative. The main legal systems of our
	time. International law as a special system of law
	Topic 1.6 Relationship. $(1, 1)$
	The concept of the relationship. The structure of legal relations.
	Subjects of legal relations, their types. Legal capacity, capacity,
	delictual status of legal entities. Legal facts, their types.
	Topic 1.7 Offenses and legal liability.
	The concept and types of offenses. The composition of the
	offense. Presumption of innocence. Legal liability, its types. The
	value of law and order in modern society.
The Constitution	Topic 2.1 The Constitution, its role and place in the legal system
of the Russian	of the Russian Federation.
Federation - the	Concept, signs of the constitution. Stages of the constitutional
basic law of the	development of Russia. The concept of the foundations of the
state.	constitutional order. The main characteristics of the Russian
	Federation. Features of the federal structure of Russia.
	Topic 2.2 Legal status of a person and a citizen of the Russian
	Federation.
	The concept of the legal status of a person and a citizen. Rights,
	freedoms and duties of a person and a citizen of the Russian
	Federation. The concept of citizenship. Legal mechanisms for the
	protection of the rights and freedoms of man and citizen.
	Topic 2.3 The system of public authorities in the Russian
	Federation.
	The concept and types of government agencies. The principle of
	separation of powers, its content and meaning. The electoral system:
	the concept and types. The electoral process in the Russian
	Federation. President of the Russian Federation: elections, powers,
	status. The Federal Assembly of the Russian Federation is the
	legislative power. The order of formation, structure, authority. The
	legislative process in the Russian Federation.
	The government of the Russian Federation is the highest
	executive body. Executive authorities of the Russian
	Federation.
	The judicial system of the Russian Federation: structure, links,
	instances. The procedure for consideration of litigation. Principles of
	justice in the Russian Federation.

	Topic 2.4 Law enforcement agencies in the Russian
	Federation
	Prosecutor's Office of the Pussion Education: structure
	Prosecutor s Office of the Russian Federation. Structure,
	Democratic prosecutor supervision.
	Bar: concept and objectives. Types of legal assistance
	provided by lawyers. Notariate: concept, tasks, organization
	of activity. Powers of a notary.
	The Ministry of Internal Affairs of the Russian Federation and its
	territorial bodies.
	Topic 3.1. Basics of Family Law of the Russian Federation. The
	concept of marriage, the conditions of its conclusion, termination,
	invalidation. Personal and property relations between spouses,
	parents and children. Family Law
Characteristics of the	Responsibility. Forms of education of children left without
branches of the	parental care.
Russian legal system.	Topic 3.2. Fundamentals of civil law of the Russian
	Federation.
	The concept of civil relations. Individuals and legal entities.
	Property rights. Obligations in civil law and liability for their
	violation. Inheritance law.
	Topic 3.3. Fundamentals of labor law of the Russian
	Federation. Labor contract. Labor discipline and
	responsibility for its violation. Wage. Working time and rest
	time. Features of labor of minors.
	Topic 3.4. Fundamentals of criminal law of the Russian Federation
	The concept of crime Criminal liability Types of
	criminal punishment Juvenile criminal liability
	Topic 3.5. Fundamentals of administrative law of the Russian
	Federation
	A dministrative offense and administrative liability
	Topic 3.6. Fundamentals of Environmental Law Objects of
	lagel environmental protection. Subjects of
	negat environmental protection. Subjects of
	environmental law, their rights and obligations. Legal hability for
	environmental offenses.
	1 opic 3. /. Basics of Medical Law

Senior Lecturer at the Department of Judiciary, law enforcement and human rights activities	Mustafaeva MM
Professor of the Department of Judiciary, law enforcement and human rights activities	Sangadzhiev B.V.
Head of the Department of Judiciary, law enforcement and human rights activities	Grebennikov V.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Th	e name of the discipline	History of Medicine	
The amount of discipline		3 CU (108 hours)	
	Course Description		
Тор	pics	Content of topics	
1	Introduction. Early types of healing	1.1. Formation of prehistoric society and healing.1.2. Healing during the flourishing of prehistoric society.1.3. Healing during the decline of prehistoric society.1.4. Folk medicine.	
2	Healing and Medicine in Ancient civilizations	 2.1. Common characteristics of Ancient civilizations. 2.2. Healing and Medicine in Ancient Mesopotamia (Sumer, Babylonia, Assyria). 2.3. Healing and Medicine in Ancient Egypt. 2.4. Healing and Medicine in Ancient India. 2.5. Healing and Medicine in Ancient China. 2.6. Healing and Medicine in Ancient Greece. 2.7. Medicine in Ancient Rome. 	
3	Medicine during Middle Ages (V–XV centuries)	 3.1. Medicine in the Byzantine Empire. 3.2. Medicine in Medieval Rus (IX–XV centuries). 3.3. Medicine in the Caliphates (VII–X centuries). 3.4. Medicine in Middle and Central Asia (X–XV cc.). 3.5. Medicine in Medieval Western Europe (V–XV centuries). 	
4	Medicine of the Early Modern time (XV – early XVII century)	 4.1. Renaissance Medicine in Western Europe. 4.2. Medicine in the Americas before and after the conquest (Mayas, Aztecs, Incas). 4.3. Medicine in the Great Moscow Princedom, XV–XVII centuries. 	
5	Biological sciences and Medicine in Modern Times (mid XVII–XIX century)	 5.1. The greatest discoveries in Natural sciences. 5.2. Biology and Genetics. 5.3. Anatomy. 5.4. Histology. Embryology. 5.5. Pathology. 5.6. Microbiology. 5.7. Physiology and Experimental Medicine. 	
6	Clinical Medicine in Modern Times (mid XVII–XIX century)	 6.1. Internal Medicine. The first physical methods and instruments for clinical examination. Medical education. 6.2. The Russian medicine and education in XVIII–XIX centuries. 6.3. Infectious diseases and Epidemics. 6.4 Problems and progress of Surgery. 6.5. History of Nursing. 	

7	7 Medicine and Public Health in the XX century	 7.1. History of Nobel Prizes. The Nobel prizes in Physiology or Medicine. 7.2. Medicine and Public Health in Russia in XIX–XX centuries.
8		8.1 International co-operation in Public Health and Medicine (International Red Cross; The World Health Organization; World Physicians against the Nuclear War)

Head of the history of medicine course

Sorokina T.S.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Faculty of Humanities and Social Sciences

ANNOTATION OF ACADEMIC DISCIPLINE

Name of the discipline	History of Russia
Amount of discipline	2 CU (72 hours)
	Discipline Summary
Topics	Content of topics
The science of history	The subject and objectives of the course. The science of history. Social,
	political and socio-natural history. Periodization of the world-historical
	process. Civilizational, culturological and
	formational approaches to the history of humanity.
The origin of the eastern	The problem of ethnogenesis of the Eastern Slavs; the main stages of
Slavs. Basic theories of the	formation of the old Russian state and its socio-political system; The
formation of the Old Russian	great trade route of antiquity is "from the Vikings to the Greeks." Cities.
state.	Religion. Background and formation of the Old Russian state. The role
	of the Varangians in the formation of the state. The origin of the word
	"Russia". The importance of the formation of the Old Russian state.
Feudal fragmentation in	The time frame of the period of feudal fragmentation. Causes of feudal
Russia	fragmentation. Positive and negative consequences of feudal
	fragmentation. History and political fate of the Galicia-Volyn
	principality.
	Features of the development of the Novgorod feudal
	boyar republic. Veche. Vladimir-Suzdal principality. The policy of
	princes Yuri Dolgoruky, Andrey Bogolyubsky, Vsevolod the Big Nest.
	The reasons for the establishment of autocracy in the North - East of
	Russia. The main models of socio-cultural development of Russian
	lands.

The struggle of Russia for	Mongols at the turn of the 12th-13th centuries The formation of the
independence in the 13th	Mongolian state. The beginning of the Mongol conquests. The first
century.	meeting of Russians and Mongols. Preparation of the Mongols for a
~	new trip to the West. Two campaigns of Khan Batu to Russia. The
	heroic resistance of the Russian people. Batu campaign to Europe.
	Establishment of the Mongol-Tatar voke in Russia. The consequences
	of the Mongol conquest and the Golden Horde voke for Russia.
	Mongolian influence on the further development of Russia. The fight
	of Alexander Nevsky with the German knights and Swedish invaders.
	The significance of the activities of Alexander Nevsky for Russia.
	Russia and the East.
The formation of the	Prerequisites for the unification of Russian lands. Stages of the creation
Russian centralized state.	of the Russian centralized state. Reasons for the rise of Moscow. The
	first Moscow princes. Daniil Alexandrovich. Ivan Kalita and the
Russia in the XVI century.	Golden Horde. Moscow is the center of the struggle against the Mongol
	- Tatars. Dmitry Ivanovich and Sergius of Radonezh. Kulikovo battle.
	Feudal war for power in Moscow The completion of the unification
	of Russian lands under Ivan III and Vasily III. The overthrow of the
	Golden Horde yoke. The apparatus of power and management under
	Ivan III The ideology of the times of Ivan III - the emergence of the
	theory "Moscow is the third Rome." Features of the formation of the
	Russian centralized state.
	The reign of Elena Glinsky. The results of the boyar rule. The wedding
Russia in the XVI century.	to the kingdom of Ivan IV. Reforms of the Chosen Rada. The
	appearance of the Zemsky Sobor. Registration of the order system.
	Reform of local government. The formation of the estate representative
	monarchy. Judicial Code 1550. Monetary reform. Military reform. The
	one hundred head cathedral. Foreign policy objectives. Western
	direction of foreign policy. Livonian war 1558-1583 Introduction of the
	oprichnina, its causes and political results. Different views on the
	activities of Ivan the Terrible.
Time of Troubles in the	The reign of the son of Ivan the Terrible Fedor Ivanovich.
Russian state	The crisis of the Rurik dynasty. Time frame of the Time of Troubles.
	Causes of Time of Troubles. Election of Boris Godunov to the
	kingdom, his politics. The appearance of the impostor False Dmitry I
	and his reign. Vasily Shuisky - Russian Tsar. The uprising of
	Bolotnikov. False Dmitry
	II. Foreign intervention. The reign of the seven boyars. The first
	Zemstvo militia. Second Zemstvo militia. Kozma Minin and Prince
	Dmitry Poznarsky. The liberation of Moscow from the Poles.
	Zemsky Cathedral in 1613. Election to the Russian throne of the first
	King of the Romanov dynasty - Michael. Results of the Time of
The are of "Detwine	Figure according to the sector of the sector of the sector.
modernization" of Dussia	New features in the according Datas and Southing
mouermzauon oi Kussia.	1606 Deter L the sole ruler. The main activities of Deter L "The Creat
	Find the solution of the archery 19th contury in European and world
	bistory. The problem of transition to the "kingdom of reason " Military
	reform
	Transformations of Dussian industry. The situation of agriculture
	Trade development The policy of protectionism. The social policy of
	Peter I. "The ranking table" 1722. Tax policy. Management reforms.

	Provincial Reform. Replacing orders with colleges. The formation of absolutism. Cultural Transformation. Northern War. Poltava battle. The Prut campaign of Peter I. Russia is a new naval power. Nistadt Peace 1721 Various assessments of the activities of Peter I.
Russia after Peter I. The reign of Catherine the Great.	Palace coups, their socio-political nature and consequences. Catherine II: the origins and essence of dualism in domestic politics. "Enlightened absolutism." The doctrine of natural law. Activities of the Stated Commission. The growth of social polarization and isolation of social strata. New legal status of the nobility. The collapse of the service system. Alienation of society from state power. The uprising of the Cossacks led by Pugachev. Stages of the peasant war. Foreign policy of Catherine II. Russian - Turkish war of 1768-1774 Russian - Turkish war of 1787- 1791 Russia and Poland. Polish-Lithuanian Commonwealth.
Russia in the first half of the nineteenth century.	Beginning of the reign of Alexander I. Liberal beginnings of Alexander I. Decree "On free cultivators." Education Reforms. Changes in public administration. M.M. Speransky. "Note on ancient and new Russia" N.M.Karamzina. Curtailment of reforms. Directions of the foreign policy of Russia. Creation of an anti-Napoleonic coalition. Tilsit Peace 1807 Patriotic War of 1812 The movement of the Decembrists. The accession of Nicholas I to the throne Committee December 6, 1826 Reorganization of the public administration system. The role of the imperial Chancellery. Development of industry and communications. The peasant question. Social politics. Education, print, religion policies. Foreign policy of Nicholas I. War with Turkey, Persia, the Caucasian highlanders.
The era of great reforms in Russia. Alexander II.	Preparation of peasant reform. Abolition of serfdom. Liberal reforms of the 1860s and 70s Different directions of social movement. The ideology of populism. The labor movement and the spread of Marxism. The main directions of foreign policy. Balkan direction. Central Asian direction. Far East direction. Public movement in the 60s. Left radical circles. The formation of the ideology of populism. Counter-reforms of Alexander III. Liberal populism. The penetration of the ideas of Marxism in Russia.
Russia at the turn of the nineteenth and twentieth centuries.	Autocracy and the bourgeoisie. The peacent question of the factors of the function of the function of the function. Working question. Russian-Japanese war. The first Russian revolution. The formation of political parties. Stolypin agrarian reform. The participation of Russia in the first world war. The political crisis of the fall of 1916. The collapse of the monarchy. Formation of the Provisional Government. Classes and parties in March - October. Domestic and foreign policy of the bourgeois government. Advice. Problems of dual power. Kornilov rebellion. The collapse of the policy of the Provisional Government. October armed uprising
Soviet Russia in the 1920- 30s.	II All-Russian Congress of Soviets, its decisions. The establishment of Soviet power in the field. The reasons for the "triumphal march of Soviet power." Civil War. The policy of "war communism." The crisis of the 1920s NEP. The formation of the USSR. National - state building. The USSR Constitution of 1924. The position of I.V. Stalin on overcoming the socio-economic crisis in the country. Party course

	Bolsheviks on the transformation of the USSR into
	industrial power. Industrialization of the national economy.
	Collectivization of agriculture. The cultural revolution. The results of
	the socio-economic and political development of the country in the
	1920-30s.
The USSR during the great	Changes in the international situation, the main directions, events of
Patriotic war (1941-1945)	foreign policy of the USSR in the 1920s-1930s, their results and
	consequences; the most important international treaties concluded on
	the eve and in the initial period of the Second world war; expansion of
	the USSR in the prewar period; the most important events of the great
	Patriotic war; restructuring of the rear in a military way; the creation of
	the anti-Hitler coalition and
	international conferences of the allied powers during the war, the
	results and significance of the victory of the USSR.
The Soviet Union during	The main trends of social and political life of the USSR, the tightening
the Cold War. The growth	of the political regime and ideological control; features and results of
of the crisis.	socio-economic policy; changes in the international arena, the
	beginning of the "cold war", the important events of the
	foreign policy of the USSR in the postwar period. Changes in the top
	party leadership after Stalin's death, measures for de-Stalinization,
	democratization of the political system; new trends in international
	relations and changes in Soviet foreign policy, its main directions.
	Features of the political course of the country in 1964-1985, the
	strengthening of conservative trends, changes in the political system,
	the emergence of the dissident movement; economic reforms of the
	mid-1960s; "Brezhnev doctrine". Prerequisites and goals of
	perestroika, the essence and consequences of economic and political
	reforms; changes in the state structure; the concept of "new political
	thinking" in foreign policy; stages of Perestroika. The collapse of the
	USSR and the formation of the CIS.
Post-Soviet Russia: the	Changes in the political life of the country: approval of the principle of
difficulties of becoming	separation of powers. The liberal concept of Russian reforms: the
democratic society (1991-	transition to a market, the formation of civil society and the rule of law.
2009).	"Shock therapy" of economic reforms in the early 1990s. The
	constitutional crisis in Russia in 1993 and the dismantling of the power
	system of the Soviets. 1993 Constitution of the Russian Federation.
	Chechen war. Social price and the first results of reforms. Foreign
	policy of the Russian Federation in 1991-1999 Political parties and
	social movements of Russia at the present stage. Russia and the CIS.
	Russia in the system of world economy and international relations.
	Reforms V.V. Putin. The presidency of D.A. Medvedev.

Developers: Professor of the Department of Russian History Head of the Department of Russian History

Grigorieva N.A. Kozmenko V.M.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Name of the Discipline	Russian Language (as a Foreign Language)
General labour intensity	5 CU (180 hours)
Sections of the disciplines	Summary of sections
UNIT 1. OBJECT AND ITS CHARACTERISTICS	
Theme 1. The structure of an object	Identification of components of an object Complete set of components: complete/ incomplete set of components.
	Presence / absence of a component (components) in the structure of an object; Quantitative characteristics of components of an object.
	Localization of components in an object; place of a component in an object; mode of localization of a component in an object; arrangement of components in an object; connection of components in an object
	Qualitative and quantitative composition of the object.
Theme 2. Qualitative and quantitative characteristics, properties of the object	The shape, relief of the surface of the object: the shape of the object; surface's relief of the object.
	The consistency, properties, color, taste, smell of an object: the color of an object; the taste and smell of the object; object consistency, object properties.
	Quantitative characteristics of the object: the exact size of the object; fluctuations in the size of the object; maximum object size.
Theme 3. The function of the object	Function of the object.The essence of the function.Conditionality of the function of the object.

Theme 4. Classification of objects	Classes of objects.
	Characteristic of classification and classes of
	objects.
	Members of object's class.
UNIT 2. BIOLOGICAL OBJECT (P	ATHOGENIC MICROORGANIZM) AND
ITS CHARA	CTERISTICS
Theme 1. General characteristics of the	Structure of a microorganism.
object	Localization of a biological object.
	Mode of nutrition of an organism.
	Mode of reproduction of an organism.
Theme 2. Development (life-cycle) of a	Host of a parasitic microorganism.
biological object	Stages of life-cycle / development of a
	microorganism.
	Processes of a stage of a life-cycle.
Theme 3. General characteristic of a disease	Identification of a disease caused by
caused by pathogenic microorganism	pathogenic microorganism.
	Area of the disease activity.
	Ways and conditions of infecting.
	Symptoms and signs of a disease.
	Clinical outcome.
	Disease prevention.
	1
UNIT 3. PHYSIOLOGICAL PROCE	SS AND ITS CHARACTERISTICS
Theme 1. General characteristic of a	Definition of a process.
physiological process	Classification of processes.
	Essence of a process.
	Stages of a process.
Theme 2. Main mechanisms of a process	Alteration of qualitative and quantitative
	characteristics of an object.
	Appearance (birth) and disappearance
	(destruction, death) of a new object.
	Change of localization of an object
	(movement).
Theme 3. Alteration dynamics of process	Alteration in the intensity of the process.
	Violation and termination of the process.
Theme 4. Role of the physiological process	The significance of the process. The
	characteristic of the benefit / harm of the
	physiological process for the organism.

The developers are the associate professors of the Russian language department of Medical Institute M.A. Makarova, Yu.N. Biryukova, K.V. Akhnina

The head of Russian language Department of Medical Institute

V.B. Kurilenko

Faculty of Philology

ANNOTATION OF ACADEMIC DISCIPLINE

Subject name	Latin language and basics of terminology	
Volume of discipline	3 CU (108 hours)	
Course description		
Topics	Content of topics	
<u>Phonetics</u>	Latin alphabet. Letters and sounds. Vowels and consonants. Diphthongs and digraphs. Pronunciation and rules of reading. Syllables. Stress. Features of Latin and Greek Spelling.	
Anatomical and histological terminology	 Noun. System of declensions. Grammar categories. Dictionary entry. Non-agreed attribute. Nominative and Genitive singular. Adjective. Grammar categories. Dictionary entry. Agreement between adjectives and nouns. Agreed attribute. Structure of anatomical terms. Comparative and Superlative degrees. Peculiarities in anatomical terminology. Anatomical term with agreed and non-agreed attribute. Third declension. Equal and non-equal nouns. Types of the third declension. Generic endings of masculine, feminine and neuter genders of 3d declensions' nouns. Nouns of the 4-5 declensions. Basic case endings and features. Plural number of nouns and adjectives. Multiword anatomical term. Exceptions. 	
<u>Clinical terminology</u>	 Word formation in anatomical and histological terminology. The most common base prefixes and suffixes. Introduction into clinical terminology. Multiword clinical term. Translation rules. Greek and Latin roots, denoting certain meanings. Beginning parts of clinical term. 1. Final parts of clinical term. Greek and Latin roots, denoting surgical operations and parts of the body. Greek and Latin roots, denoting anatomical formations. Final Greek parts, denoting disease, symptoms of the disease, pathological changes in organs and tissues, diagnosis and treatment methods. Greek and Latin roots, denoting various features and properties. 	

Pharmaceutical terminology.	The concept of drug, drug dosage forms. Main rules of
Prescription.	forming of pharmaceutical term. The frequency segments
	that are used in the names of drugs.
	Prescription. Rules and exceptions. Verbs' phrases in
	prescription line.
	Chemical nomenclature. Oxides and acids.
	Name of salts in pharmaceutical terminology.

Associate Professor of the Department of Foreign Languages

Faculty of Philology

Head of the Department of Foreign Languages

Faculty of Philology

Borodin MA

Ebzeeva Yu.N.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Psychology & Pedagogy	
The amount of discipline	3 CU (108 hours)	
Course Description		
Topics	Content of topics	
Introduction to psychology.	History of psychology. The subject and methods of	
	psychology. Branches of psychology. Categories of	
	psychology. Functions of the psyche. Basic mental processes.	
Psychoanalysis. Z. Freud.	The history of psychoanalysis. Freud and his theory. The	
	development of psychoanalytic trends. Neofreydizm (K.	
	Jung, A. Adler, K. Horney). Post-Freud personality	
	psychology (G. Allport, G. Murray, E. Erickson).	
The development of the	Zoopsychology from ancient times to the creation of the first	
psyche. Zoopsychology.	evolutionary theory. The value of zoopsychology in	
	medicine.	
Feeling Perception. Attention.	Cognitive mental processes in the knowledge of reality. The	
	perception of objects, the time of the relationship between	
	objects of space, man. Attention arbitrary (active) involuntary	
	(passive) post-arbitrary.	

Memory.	Memory and its meaning. Types of memory. The main
	processes and mechanisms of memory. Individual features of
	memory.
	Typological features of memory. The value of memory for
	numan life.
Thinking. Speech Imagination.	Types, forms, methods, operations, individual features of
	The development of thinking in ontogenesis. The laws of
	logic and thinking. Violations of thinking.
	Pathopsychological and clinical classification of thinking
	disorders. Types of imagination. latrogenii. Pathological
	forms of imagination. The difference of $f(x) = 1$
	Types and functions of speech. The ratio of thinking and
Validian	Speech. Speech disorders.
voluon	will The development of the will of mon Willful percendity
	troite
Emotions	The concept and classification of amotions. Theory of James
Emotions.	Lange Emotions generated by the social environment. The
	Lange. Emotions generated by the social environment. The
Demonality	The concept of personality in various psychological
Personality	approaches Personality structure. Levels rules and methods
	for constructing psychological characteristics of a person
The focus of the individual	Analysis of general concepts about the orientation of the
Motives	individual Classification of needs in the orientation of the
Mouves.	individual. Classification of motives in the direction of the
	individual. Definition of forms of orientation of the person
Temperament Character	Types of temperament and their psychological
remperament. Character.	characteristics. The role of temperament in the activity
	Character
	The classification of character traits. Types of character
	Accentuations of character
Abilities	Definition of abilities Types of abilities Ability structure
The makings	Ability levels Talent The makings and abilities Addictions
Communication Ethics	Relationship levels: doctor - natient: doctor - nurse: doctor -
Deontology in medicine	doctor: a nurse - natient: nurse - nurse: doctor -
Decintology in medicine.	administration: doctor - junior medical staff:
Internal picture of the disease	The concept of "internal picture of the disease " The problem
Clinical aspects of	of theoretical modeling of the internal nicture of the disease
communication	The basic principles and methods of studying the internal
	picture of the disease.

Associate Professor of the Department of Psychiatry	
and Medical Psychology	Artemieva M.S.
Associate Professor of the Department of Psychiatry	
and Medical Psychology	Danilin I.E.
Head of the Department of Psychiatry and Medical Psychology	Belokrylov I.V.

Faculty of Physical, Mathematical and Natural Sciences

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Physics	
The amount of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Mechanical vibrations and waves.	Methods of physical measurements, fixing their results and assessing their accuracy. Basic laws of mechanics. Mechanical vibrations and waves. The dynamics of oscillatory motion. Acoustics. Doppler effect. Ultrasound and its use in medicine.	
Molecular physics.	Molecular physics. The first law of thermodynamics. Thermodynamics of a living organism. Equilibrium and fluid movement. Surface phenomena. Hemodynamics. Breath.	
Biopotentials.	Electrostatics. Electric dipole Characteristics of the electric field. Basics of electrocardiography. Biopotentials. Membrane potentials. Action potential	
The electrical conductivity of biological tissues.	Laws and DC circuits. The electrical conductivity of biological tissues. Galvanization and electrophoresis.	
Electromagnetism.	Electromagnetism. Electromagnetic induction. Alternating current. Impedance in the AC circuit. Impedance biological tissue.	
Electromagnetic waves.	Perfect and real oscillating circuit. Electromagnetic waves. Electromagnetic wave scale.	
Optics	Wave optics. Interference and diffraction of light. Resolution of the microscope. Lasers and holography. Polarization and dispersion of light. Absorption of light and fluorescence (application in microscopy). Photoelectric effect.	
Atom and atomic nucleus.	Atomic structure and atomic nucleus. Elementary particles and their annihilation. X-ray and ionizing radiation. The impact of ionizing radiation on biological tissue. Ionizing radiation detectors. Radioactive methods in medicine. Dosimetry	

Educational program 31.05.01 General medicine

Developers:

Associate Professor of the Department of heoretical Physics and Mechanics Head of the Department of Theoretical Physics and Mechanics

Kovalchukov N.A. Rybakov Yu.P.

Faculty of Physical, Mathematical and Natural Sciences

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline		Mathematics
The amount of discipline		2 CU (72 hours)
Course Description		
Topics	Content of topics	
Introduction to the analysis and differential calculus of functions of one variable.	The function is one variable. Limit function. Infinitely small and infinitely large functions. Comparison of infinitely small. Signs of the existence of limits. Function increment The continuity of the function at a point and on the interval. Break points, their classification. The derivative of the function, its geometrical and mechanical meanings. Rules of differentiation. Differential function, its geometric meaning. The use of the differential in approximate calculations. The main theorems of differential calculus (Fermat, Rolle, Lagrange) and their geometric illustration. Rule l'Hôpital The increase and decrease of the function on the interval. The extremum, the largest and smallest value of the function of one variable on the interval. Convexity, inflection points. Asymptotes. The general scheme of the study of the function of one variable.	
Differential calculus, functions of several variables. Indefinite integral	 The function of several variables, the domain of definition. The limit of a function of two variables. The continuity of the function at a point and in the region. Partial derivatives; their geometric meaning. Differentiability of a function of several variables. Full differential and its geometric meaning. Partial derivatives of higher orders. Complex and implicit function of several variables. Tangent plane and normal to the surface (definition, equations). Extremum function of two variables. The derivative in the direction and gradient of a function of several variables (definitions, calculations, properties). Antiderivative. The theorem on the difference of primitives, indefinite 	
and definite integral.	integral. Integration methods of a curvilinear trapezium, le a segment. A definite integra calculation, Newton-Leibniz	, use of integral tables. The problem of the area ading to the concept of a definite integral over l over a segment (definition, basic properties, formula). Basic properties and calculation.

Ondinger	Dualdance la dine de differencial anna diana Dafinition of a differencial
Ordinary	Problems leading to differential equations. Definition of a differential
differential	equation, its order and solution. The Cauchy problem and the Cauchy
equations.	theorem for equations of the 1st order. General and private solutions. The
	main types of differential equations of the 1st order. Higher order differential
	equations. Differential equations of second order. Cauchy problem. General
	and private solutions.
	Second order differential equations that can be reduced in order. Linear
	differential equations of order n. Theorems on the structure of the general
	solution of linear homogeneous and linear inhomogeneous equations of
	order n. The fundamental system of solutions of a linear homogeneous
	differential equation. Methods for solving linear homogeneous and
	inhomogeneous differential equations with constant coefficients.

Professor of the Department of Applied Mathematics Head of the Department of Applied Mathematics Klyushin V.L. Skubachevsky A.L.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Faculty of Economics

ANNOTATION OF ACADEMIC DISCIPLINE

Title	Economics		
Discipline volume	2 credits (72 ac. hours)		
	Course overview		
Topics	Content of topics		
Introduction.	The subject and method of economics. Historical analysis of		
	economic schools, the economic systems of our time. The problem		
	of efficiency. General		
	characteristics of a market economy.		
Microeconomics	Market of goods and services. Demand and supply/ Consumer		
	behavior. Costs of production. Market		
	structure: perfect and imperfect competition. Markets of resources		
Macroeconomics	The main macroeconomic problems and indicators. Macroeconomic		
	equilibrium. Model AD-AS. Economic growth and economic cycle.		
	Inflation and unemployment. Fiscal policy. Money-credit policy.		
The world economy	World economy and international economic relations. Theories of		
	international trade. Globalization.		

Educational program 31.05.01 General medicine

Developers:

Associate professor of Political Economy Department Named after V.F. Stanis Head of the Department Named after V.F. Stanis Savinskiy A.V.

Ponomarenko E.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE Educational program 31.05.01 General medicine

Name of discipline	MEDICAL INFORMATICS		
General labour intensity	3 credit points (108 Hours)		
	Course summary		
Topics	Content of topics		
GENERAL INFORMATION	COMPUTER ARCHITECTURE		
ABOUT COMPUTERS	The concept of information, representation information in the computer. Computer architecture, main units of IBM PC (system unit, keyboard, monitor), principle of open architecture. Input devices (keyboard, mouse, scanner, joystick, and digitizer). Output device (monitor, printer, plotter). Memory: temporary, permanent, long-term. Types of software (system software, applications, programming systems), file archiver (Zip, Arj, Rar), virus protection programs. Architecture "thin client". OPERATING SYSTEMS. The concept of "operating system", types of operating systems DOS, Solaris, Linux, Mac OS. Organization of the file system: files, directories (folders), the types of files and folders, current directory, path to the file, names of the devices, the full file name. Logical and physical discs. OPERATING SYSTEM SOLARIS Familiarizing with the operating system Solaris. Solaris screen, windows, types of windows, working with windows: change the position and size of the window, scroll bars, switching between windows, closing window, taskbar. Desktop, shortcuts, File Manager Solaris. Parallel work of multiple applications. Working with files, catalogs, disks, searching files on the disk, communication between files of a certain type and anplication softme.		
	notepad, graphic and symbol editor, calculator.		
THEORY OF PROBABILITY	Basic concepts: experiment, random event. Types of random events: reliable and impossible events, elementary event, complex event, joint and incompatible events, opposite events. Space of elementary events. Operations on events: union, intersection, difference, symmetric difference. Venn diagrams. Combinatorics formulas : permutations, combinations, placement.		

Developers:

Professor of the Department of Medical Informatics Associate Professor of the Department of Medical Informatics Senior Lecturer of the Department of Medical Informatics Head of the Department of Medical Informatics Protsenko V.D. Lukyanova E.A. Lyapunova T.V. Stolyar E.L.

Faculty of Physical, Mathematical and Natural Sciences

ANNOTATION OF ACADEMIC DISCIPLINE Educational program

31.05.01 General medicine

The name of the discipline	Chemistry: General Chemistry	
The amount of discipline	3 CU (108 hours)	
Course Description		
Topics	Content of topics	
Basic laws and concepts of chemistry.	Chemical element. Simple substance. Complex chemicals. Mole is the amount of a substance. Molar mass is equivalent. Gas laws. The law of equivalents.	
Thermochemistry. Chemical kinetics. Chemical equilibrium	Basics of thermochemistry. Enthalpy. Hess law. Entropy. Gibbs free energy. The rate of chemical reaction, chemical equilibrium. The law of mass action. Chemical equilibrium.	
Solutions. Theory of Electrolytic Dissociation.	General concepts of dispersed systems. Colloidal solutions. Ways of expressing the concentration of solutions: mass fraction, molar concentration, molar concentration of equivalents of the substance. Theory of Electrolytic Dissociation	
Dissociation of weak and strong electrolytes. Hydrolysis of salts	Weak electrolytes. The law of dilution. The effect of a common ion. Buffer solutions. Strong electrolytes. Activity and activity ratio. Ionic strength. Ionic product of water. Hydrogen indicator. Hydrolysis of salts. Dependence of hydrolysis on temperature and concentration of solutions	
Heterogeneous equilibria. Coordination compounds	Solubility constant. Solubility. Conditions of dissolution and sediment formation. Electrolytic dissociation and instability constant of coordination compounds	
Redox Reactions	Redox Reactions. Redox potentials. Nernst equation. The condition of the course of redox reactions	
The main classes of inorganic compounds	The main classes of inorganic compounds. The relationship between classes of inorganic compounds.	
Basics of qualitative analysis	Basics of qualitative analysis of cations and anions. Determination of cations I - VI of the analytical groups and anions I - III of the analytical groups in solutions	
Basics of quantitative analysis	Basics of quantitative analysis. Methods of neutralization, complexometric, oximetry and photocolorimetry.	

Developers:

Associate Professor of the Department of General Chemistry Associate Professor of the Department of General Chemistry N.A. Head of the Department of General Chemistry Kolyadina NM Polyanskaya Davydov V.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Discipline	Biochemistry
Volume of the discipline	7 CU (252 hours)
	Course Description
Topics	Content of topics
Proteins: structure, properties, functions. Complex proteins, Nucleic acids, Enzymes.	Biomolecules. The most important problems of current biochemistry. Methods of investigations in biochemistry. Biochemistry and Medicine. Structure and Function of Biomolecules. Proteins - essential constituents of the living cells. Physical and chemical properties of proteins. Composition and properties of amino acids and peptides. Four levels of structural organization of proteins. The three-dimensional structure of proteins; role of domens and the relationship of proteins structure to their biological functions. Methods of isolation and purification ojf proteins. Classification of proteins: simple and conjugated proteins, composition and properties of individual representatives of conjugated proteins. Nucleic acids. Physico-chemical properties, composition, structure and biological role of DNA andRNA. Enzymes: general properties, chemical structure, active centers, classifica- tion and nomenclature, allosteric enzymes. The mechanisms of enzymatic catalysis. Structure and function of coenzymes, Kinetics of enzymatic reactions and methods for determination of the enzymes activity, Inhibitors of enzymes, Isoen-zymes. Regulation of the enzyme activity, Diagnostic enzymoiogy; enzymes as drugs.
Molecular mechanisms of regulation. Lipids: structure, properties, functions. Biological membranes	Vitamins: distribution, biological role, classification. Social basis of vitamin deficiency in some developing countries. Principles of vitamin therapy. Antivitamins. Composition and properties of individual representatives of the fat-soluble and witer- soluble vitamins: A, D, E. K, B1, B2, B6, B12, C, P, PP, H and Folic acid, Vitamin-like substances. Methods of quantitative determination of vitamins in the body. Hormones: hormone production in the endocrine glands. Molecular endocrinology. Mechanisms of hormonal regulation of metabolism and role of the second messengers, Chemical structure and properties of die main hormones. Hydrolyzable lipids. Non-hydrolyzable lipids. Biological roles. Fatty acids and fats. Structure of phospholipids and glycolipids. Isoprenoids. Sterols. Steroid hormones. Bile acids.

Energy metabolism. Carbohydrate metabolism.	Carbohydrate metabolism: pathways of absorbed monosaccharaides. The pathway of glycogen synthesis and degradation. Anaerobic metabolism: glycolysis, glycogenolysis and gluconeogenesis. Aerobic metabolism: pentose phosphate path- way of glucose oxidation; oxidative decarboxylation. of pyruvate, the tricarboxylic acid cycle. Biological oxidation, The respiratory chain of electrons and protons transport, Oxidative phosphorylation. Energy effect of anaerobic pathways of car- bohydrate metabolism. Hormonal regulation of carbohydrate metabolism. Pathology of carbohydrate metabolism.
Lipid metabolism.	Lipid metabolism: pathways of the absorbed products lipid digestion, Mechanism of b-oxidation of fatty acids, Biosynthesis of fatty acids, triacylglycerols, phospholipids and cholesterol. Energy effect of lipid oxidation, Relationship between lipid metabolism and carbohydrate metabolism. Intracellular lipids and blood serum lipids. Regulation of lipid metabolism, Pathology of lipid metabolism.
Protein catabolism. Amino acid metabolism.	Protein metabolism,' dynamic state of body proteins. Nitrogen balance. Problems of adequate, balanced nitrogen nutrition. Proteolysis. Absorption and active transport of ammo acids. Pathway of amino acids metabolism in the body: reactions of deamination, decarboxylation, transamination and hydroxylation. Degradation of tissue proteins. Urea cycle.
Metabolism of conjugated proteins. Biochemistry of organs and tissues.	Metabolism of nucleoproteins and chromoproteins. Biosynthesis and decomposition of heme. Synthesis of purine and pyrimidine nucleotides. Metabolism of individual amino acids. Regulation of protein metabolism, Pathology of protein metabolism, Relationship of protein metabolism with metabolism of lipids and carbohydrates. Blood: composition and functions. Cellular elements. Blood plasma: composition. Plasma proteins. Carrier electrophoresis. Erythrocyte metabolism. Distribution of iron. Hydrogen ion concentration in the blood. Urine formation . Organic components and Inorganic components of the urine. Functions in the acid–base balance: Proton excretion and Ammonia excretion. Electrolyte and water recycling.

Associate Professor, Department of Biochemistry, Acad.Berezov T.T. Associate Professor, Department of Biochemistry, Acad.Berezov T.T Head of the Department of Biochemistry, them. Acad. Berezov T.T. Lobaeva T.A. Ryskina E.A. Pokrovsky V.S.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The discipline	Biology
The number of credits (hours)	6 CU (216 hours)
The content of the discipline	
Topics	Content of topics
1. Biology is the science of life. The cell as a structural and functional unit of living things	Methods which are used in modern biology. Structure of prokaryotic and eukaryotic cells. The cell theory. The flow of information and energy in the cell.
2. The genetic material	Structure and functions of nucleic acids. DNA replication. Mutations.
3. Gene expression. Organization of genomes	Transcription and translation. Control of gene expression in prokaryotic and eukaryotic cells. Organization of prokaryotic, eukaryotic and viral genomes.
3. The cytological basis for the growth and reproduction	Chromosomes, karyotypes. Gene, genotype, phenotype. Allelic and non-allelic, linked and non-linked, pleiotropic and lethal genes. Penetrance and expressivity. Types of gene interaction. The life cycle of cells, the mitotic and meiotic cell divisions. Control of the cell cycle. Types of reproduction. Ontogenesis.
5. The laws of heredity	The history of genetics. The laws of heredity.
6. Human genetics	Methods of human genetics. Hereditary diseases and their causes. Principles of diagnosis, treatment and prevention of hereditary diseases. Genetic counseling.
7. Medical Protozoology	Protozoa which infect humans. Life cycles, morphological features, host-parasite interactions, geographical distribution, reservoir hosts, methods of transmission and control, diagnosis and prevention of the diseases they cause.
8. Medical Helminthology	Phylum Plathelminthes (Trematoda and Cestoda), phylum Nemathelminthes (Nematoda). Worms which infect humans. Life cycles, morphological features, host-parasite interactions, geographical distribution, reservoir hosts, methods of transmission and control, diagnosis and prevention of the diseases they cause.

9. Medical importance	Phylum Arthropoda (Crustacea, Arachnida, Insecta).
of Arthropods	Medically important arthropods, their life cycles,
	morphological features, geographical distribution,
	diagnosis and prevention of the diseases they cause.
10. Biological evolution	Biological evolution. Theories of evolution.
11. The Humans and the	Ecosystems. Medical aspects of environmental control.
Biosphere	

Associate Professor, Department of Biology and General Genetics Head of the Department of Biology and General Genetics Gigani O. B. Azova M.M.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The discipline	Anatomy
The number of credits	12 CU (432 hours)
(hours)	
	The content of the discipline
Topics	The content
Human Anatomy	Introduction into Human anatomy. Main anatomical definitions. Skeletal system: bone as on organ; classification, functions, development and structure of bones, structure of skull, vertebrae, sacrum, coccyx, ribs, thorax, upper and lower limb bones. Articulations system: classification: structure, development and classification of joints; bone articulations of the skull, vertebral column, chest, shoulder and pelvic girdle articulations, free upper and lower extremities. Muscular system: muscle as an organ; classification of muscles, topography and accessory apparatus, muscles of the head and neck, back muscles, chest and abdominal muscles, the diaphragm; muscles of the upper and lower limbs. Structure, development and functions of digestive, respiratory, urinary, male and female reproductive systems, endocrine glands. Cardiovascular system: structure of the heart, vessels of the systemic and pulmonary circulation. Lymph outflow pathways. Lymphoid system. Endocrine glands: structure and functions. Nervous system: central part – brain and spinal cord; peripheral part – spinal nerves, brachial and

lumbosacral plexus. Innervation of the locomotor apparatus and
integumentary system
Autonomous nervous system: innervation of the
internal organs. Sense organs anatomy: vision, hearing and
balance, taste, smell.

Head of department of Human anatomy professor Assosiate professor of Human anatomy Assosiate professor of Human anatomy N.I.Volosok T.Y.Tsvetkova V.I.Kozlov

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Health and Safety	
The amount of discipline	3 CU (108 hours)	
Course Description		
Topics	Content of topics	
Basic concepts of the discipline "Life	Definitions of basic concepts of the discipline.	
Safety"	The value of life safety in the development of	
	Russia. Components of the study of life safety.	
	Problems and prospects of development of the	
	LS.	
Theoretical basics of life safety	Typical system "man - environment".	
	Industrial, municipal, domestic, natural	
	environment. Human interaction with the	
	environment. The basis for optimal	
	interaction.	
Risk	Risk Assessment. Damage. The concept of risk.	
Emergency situations of natural character	Geophysical, geological, meteorological,	
and the protection of population from	agrometeorological, Maritime dangerous	
consequences	hydrological phenomena; natural fires.	
	Characterization of factors affecting sources	
	of emergency situations of natural	
	character.	

Emergency situations and protection	fire, explosion, risk of explosions; accidents
of population from consequences	involving the release (or threat of release) of
	dangerous chemical substances (DCS); accidents
	involving the release (or threat of release) of
	radioactive substances (RS); accidents involving
	the release (or threat of release) of biologically
	hazardous substances (BHS). Effects of sources
	of emergency situations of technogenic character.
	Development phases of emergencies.
The world around us. Hazards arising in	The world and of man, the nature of their
everyday life and safe behavior	interaction Man as object and subject of the
everyday me, and sale benavior	security. The situation arising in the process of
	human activity. Features of the city as a
	habitat Danger areas in the city
Security management activity	Institutional framework for the management of
Security management activity	life safety. Legal framework for the management
	of environmental quality Management of
	environmental quality
	Regulation of environmental quality
Monitoring as a basis for safety	Types of monitoring: environmental
management of human activities	hiospheric social- hygienic The use of
management of numan activities	environmental monitoring data in management
	of environmental quality
Harmful dependencies and their	Computer addiction The effect of alcohol on the
Hummul dependencies and then	human
social consequences	body. Drug addiction and substance abuse.
1	Smoking and
	its impact on human health.
Basic principles of legal support of the LS	The main laws and regulations to ensure the LS
for medical workers	population. Legal basis of environmental safety.
	The legal framework of industrial safety, labor
	protection.
	Protection of public health and safety.
	Responsibility for violation of regulations on the
	LS population
First and for persons affected by	Cardiopulmonary resuscitation, hemostasis,
emergencies	transport
	miniounization of the milds of the victims

Senior Lecturer of the Technosphere Safety Department Assistant of the Department of Disaster Medicine Director of the Technosphere Safety Department Head of the Department of Disaster Medicine

Germanova S.E. Sokov R.S. Plyushchikov V.G. Sokov S.L.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Histology, Embryology, Cytology
The amount of discipline	6 CU (216 hours)
	Course Description
Topics	Content of topics
Introduction. Cytology.	The subject and tasks of Cytology and histology. Relationship of Cytology and Histology with medical disciplines. Methods for the preparations of the microscopic slides. Types of the microscopic slides. The technique of microscopy. Histological components. The cell. Organelles and Inclusions of the cell. The nucleus. The components of the nucleus. The cell cycle. Types of cell populations. Stem cells.
Basic Embryology. Human Embryology.	Germ cells. Meiosis. Fertilization, cleavage, gastrulation. Conceptions of determination, cell differentiation, morphogenesis. Induction interaction and directed migration of cells. Mesenchyme, ectoderm, endoderm. Provisory organs. Embryonic development of human. Placenta: formation, functions. Placental barrier. The system: mother- placenta- fetus, and the influencing factors.
Basic Histology	The concept of "Tissue". Classification of tissues, and their general characteristics. <i>Epithelia</i> . Differon: its structure and characteristic. Glands. Types of secretion. The system of the internal environment tissue. <i>Blood and lymph</i> . The hemogram and the differential leukocytes count. Age and sex features of blood. Physiological regeneration of blood and lymph. <i>Hemopoiesis. Immunity</i> . Immunocompetent cells. <i>Connective tissue</i> . Connective tissue proper. Skeletal tissues: cartilage, bone. Muscle tissues: smooth, and cross-striated (skeletal, cardiac). Muscle as organ. <i>Nerve tissue</i> . Nerve fibers: structure, types. Nerve endings. The concept of the reflex arc.
Systemic Histology	The sector is devoted to learning of development, morphologic structure, functions, innervation, blood supply, age-related features and regenerative capabilities of the human organs and system of organs. <i>The Nerve System</i> . Organs of the peripheral and central nerve system. <i>Sensory System</i> (Organs of Special Senses). The general principle of cellular organization of the receptor parts. The organ of vision. The olfactory organ. The organ of hearing

	and equilibrium. The organ of taste. <i>The Circulatory System</i> . Blood vessels: structure, classification. Arteries. Veins. The vessels of microvasculature. Lymphatic vessels. The heart.
Systemic Histology	The system of organs of hemopoiesis and immune defense. The central and peripheral organs of hemopoiesis and immunogenesis. Red bone marrow, thymus, lymph nodes, spleen. Inflammation, healing, recovery. Immune responses. The Digestive System. The general principles of the structure of digestive canal. The oral cavity. The tongue. Lingual papillae. Lymphoid structures of the oral cavity. Teeth. Pharynx and esophagus. Stomach. Small intestine. Large intestine. Appendix. Rectum. Pancreas. Liver. Gallbladder and bile ducts. The Respiratory System. The conductive portion and the respiratory portion. Nasal cavity, nasopharynx, larynx, trachea, the bronchial tree, the lung. Air-blood barrier. The Integumentary System. The skin. The skin' types. The skin' derivatives. Sebaceous and sweat glands. Hairs. Nails. The Endocrine System. The central and peripheral parts of the endocrine system. Hormones and their classification. The hypothalamus-hypophysis system. The adenohypophysis and neurohypophysis. The epiphysis. The thyroid gland. The parathyroid gland. The adrenal glands. Diffuse neuroendocrine system. The Urinary System. Kidneys. Nephron as functional-structural unit of the kidney. Filtration barrier. Endocrine apparatus of the kidney. The urinary bladder. The Reproductive Systems. The urinary Bladder. The Reproductive Systems. The and peripheral parts. Ovary. Oogenesis. Uterus. Mammary Gland. The cyclic changes in the female reproductive system.

Associate Professor of the Department of Histology, Cytology, EmbryologySavrova OB

Head of the Department of Histology, Cytology, Embryology

Fathudinov T.Kh.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Normal Physiology
The amount of discipline	8 CU (288 hours)
Course Description	
Topics	Content of topics
Physiology of excitable tissues.	Excitability and its parameters. The structure and function of the membrane of excitable cells. Ion pumps and their functions (potassium-sodium, calcium, chlorine, proton pump). Ion channels, classification, structure and functions. Selective and non-selective channels. Potential-dependent and ligand-dependent ion channels. Membrane potential and action potential (its phases). Factors determining the speed of the pulse. Classification of nerve fibers by Erlanger and Gasser. Synapse physiology. The role of electrical and chemical synapses. Physiology of muscles. Types and modes of muscle contraction. The mechanism of muscle contraction in accordance with the theory of sliding threads. Energy supply of muscle contraction.
Blood physiology	Blood cells. Leukocytes. The function of red blood cells and hemoglobin. Blood groups. Rh factor. Blood coagulation. The constancy of the internal environment (homeostasis). Blood constants
Physiology of the heart and blood vessels	Cardiac cycle. Distribution of excitement in the heart. Conductive system of the heart. Properties of the heart muscle. Nervous and humoral regulation of the heart. Methods for the study of the heart. Physiology of blood vessels. Basic laws of hemodynamics. Microcirculation and lymph flow. Methods for the study of blood flow.
The physiology of respiration.	External Respiration. Lung volumes and capacities. Gas transfer by blood. Regulation of breathing. Breathing in altered environmental conditions.
Metabolism and energy. Thermoregulation.	BMR and TMR concept. The exchange of proteins, fats, carbohydrates, vitamins and trace elements. Body temperature and thermoregulation.
The physiology of digestion.	Functions of the digestive tract. Motor functions of the digestive tract. Methods for studying digestive functions. Secretory function and digestion in various parts of the digestive tract. Nutrient absorption in the gastrointestinal tract. The role of the liver in digestion.

	educational functions of the kidneys. Urinary Bladder and urination. Methods for studying kidney function.
The central nervous system and the autonomic nervous system.	Reflex and its characteristic. The main properties of the nerve centers. Methods of study of the central nervous system functions. Sectional physiology of the central nervous system. VNS. Sympathetic, parasympathetic, methasympathetic nervous system.
Endocrine glands.	Hormones, mechanisms of action. Private physiology of endocrine glands.
Integrative physiology.	GNI Conditioned reflex. Dynamic stereotype. Types of inhibition in the cerebral cortex. Sleep. Types of GNI. Memory mechanisms. The doctrine of the functional system (PK Anokhin).
Physiology of sensory systems.	Visual, taste and olfactory sensory systems. Physiology of hearing and vestibular apparatus. Skin sensory system.
Physiology of excretion	The system of organs of excretion. Urine formation in the kidneys. Kidney as an organ of homeostasis. Non-

Associate Professor of the Department of Normal Physiology Head of the Department of Normal Physiology Starshinov Yu.P. Torshin V.I.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Microbiology, Virology
The amount of discipline	8 CU (288 hours)
Course Description	
Topics	Content of topics
General Microbiology	The subject and goals of Microbiology. Taxonomy and nomenclature of microorganisms. The morphology and chemical composition of microorganisms. Physiology and biochemistry of microorganisms. Genetics of microorganisms. Fundamentals of General and medical microbial ecology. Microbiological and molecular biological basis of chemotherapy of infectious diseases.
General Virology	The structure of viruses, the interaction of viruses with cells, reproduction of viruses, Bacteriophages,

The doctrine of infection	Infectious disease. Stage of development and clinical manifestations of infectious diseases. The concept of sepsis, bacteremia, toxemia, septicopyemia. Bacteriocarrier process. The concept of pathogenicity and virulence of microbes. The main factors of pathogenicity. Units of virulence.
Special Microbiology	Medical bacteriology. Resident and pathogenic cocci: staphylococci, streptococci, Neisseria. Causative agents of respiratory infections: diphtheria, pertussis and parapertussis, tuberculosis and leprosy. Pathogenic and resident anaerobic bacteria: pathogens of gas gangrene, tetanus and botulism. The causative agents of intestinal infections: typhoid fever, dysentery, salmonellosis, echrishiosis, cholera and yersiniosis. Agent of spirochetosis. Pathogenic Rickettsia. The causative agents of chlamydiosis. Morphology and physiology of fungi. The causative agents of superficial and systemic mycosis. Mycoses caused by opportunistic fungi. Medical protozoology. Medical virology.

Professor of the Department of Microbiology and Virology Head of the Department of Microbiology and Virology Volina E.G. Podoprigora I.V.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	IMMUNOLOGY
The amount of discipline	2 CU (72 hours)
The course contents	
Topics	Content of topics
Introduction to immunology	The concept of immunity. The subject and tasks of immunology. The history of the development of immunology. Types of immunity. Central and peripheral organs of the immune system and their functional organization. Age features of the immune system development. Immune system in ontogenesis and phylogenesis. Immunopoiesis in intrauterine fetus. Embryospecific antigens

Antigens and allergens Physiology of stem cells. Types	The concept of antigenicity and allergenicity. Structure of antigens. Types of antigenic molecules: complete and incomplete antigens (haptens). Properties of antigens of different chemical nature. Specificity of antigens and its types. Ways of penetration and elimination of antigens. Processing and antigen presentation. Basics of immunogenetics. HLA system. Patterns and Toll-like receptors Types of immunity: congenital and acquired. Stem cells, role
of immunity: congenital and acquired	in the immune response, mechanisms of proliferation and differentiation. Mechanisms and factors of innate immunity. Primary recognition of antigens. Mechanisms of immunological tolerance and its types. Immune self tolerance.
Phagocytosis Complement system	Phagocytosis. The history of the phagocytosis discovery. Phagocytic/ antigen-presenting cells (APC). Mechanisms of phagocytosis and the role of phagocytic reactions in immunity and intercellular cooperation. Complement properties, role in immune response and mechanisms of complement system activation. Antimicrobial peptides.
Antibodies and humoral immune response	B - cell link of immunity, maturation and differentiation of B-lymphocytes. B-cell receptors and markers. Humoral immune response. Immunoglobulins. Structure and function of immunoglobulins of different classes. Mechanisms of switching the synthesis of immunoglobulins of different classes. The concept of affinity and avidity of antibodies. Antigen-antibody reaction. Principles of immuno - serological diagnosis. Methods for determination of antigen- antibody complexes.
Humoral factors of immune and allergic reactions	Humoral factors of immune and allergic reactions. Classification and properties of cytokines. Cytokine's producing cells. A variety of receptors and mechanisms for the reception of cytokines.
	Interferon system. Structure, classification and role in immune reactions. The importance of interferons in anti- infectious and anti-tumor immunity. The complement system. Properties of complement, role in the immune response, mechanisms of activation of the complement system.
Adhesion molecules, homing and cell migration	Chemokines and their role in the inflammatory response. Growth factors, properties and role in the development of immune reactions and immunopathology. Diversity of receptors and mechanisms of chemokines and growth factors reception.
Anti-infectious immunity	Mechanisms of immune inflammation development in infectious and parasitic diseases. Immunosuppressive properties of infectious agents. Effective anti-infectious mechanisms.

Anti-tumor immunity Immunology of reproduction	Tumor-specific antigens. Immune response to tumor antigens. Immunological surveillance and tumor growth. Immunological diagnosis of tumor growth. Immunological markers of tumors of various origin and localizations. Prognostic and diagnostic markers of tumor. Nonspecific and specific immunotherapy of tumors. Nobel prize in physiology or medicine 2018 - for developments in cancer therapy by activating the immune response. Blockade of immune checkpoints in cancer. Immunity during pregnancy. Humoral and cellular mechanisms to maintain the immunity of embryonic alloantigens. The role of the HLA system in the mother- fetus relationship. Immunological infertility and principles of immunodiagnostics.
Introduction to clinical immunology	Clinical immunology: definition, objects of study, the Concept of the immune status of the body, principles, levels, methods of evaluation. Age features of immune system.
Diseases of the immune system	Classification of allergic/immunopathological reactions by Gell and Coombs. Features of the mechanisms of development of various types of allergic reactions. Immunopathological processes with different mechanisms. Allergic reactions. Mechanisms of development. The role of various helper subpopulations of T-lymphocytes in the regulation of allergic reactions. Properties and role of IgE hyperproduction in allergic reactions. The main IgE- regulatory cytokines (IL4, IL5, IL13, IL17). Mast cells and the role of their various mediators in the development of allergic reactions. Therapy of allergic diseases. Allergen specific immunotherapy (ASIT). Molecular Allergology. Molecular approaches to improving specific
	immunotherapy.Immunopathologicalprocesses.Classificationandmechanismsofdevelopmentofprimaryimmunodeficiencies.Diagnosis of primaryimmunodeficiencies.Secondary immunodeficiencies.Secondary immunodeficiencies, the role of infections andnon-infectious factors in their development.Principles ofimmunologicaldiagnosisofsecondaryimmunodeficiencies.The concept of immune status.Autoimmunedisease.Classification.The concept ofautoimmunity.Autoimmunereactions, causes,mechanisms of implementation, clinical manifestations,General principles and prospects of treatment.
Fundamentals of immunorehabilitation. Immunomodulating drugs	The concept of immunotherapy. Immunomodulators. Classification of immunomodulators and basic principles of their application. Indications and contraindications. Immunorehablitology: historical aspects. Strategy and tactics of immunorehabilitation of patients with impaired immune system function.

	History and success of vaccination from Jenner to the
	present day. Type of vaccine Rules of vaccination
	present day. Type of vacenie. Rules of vaceniation,
	contraindications, postvaccinal complications. Urgent
Vaccines: vaccine prophylaxis	measures. Antitumor vaccine. Features of vaccination of
and vaccine therapy	patients with primary and secondary immunodeficiency.
	Features of vaccination of immunocompromised patients.
	Recombinant vaccines and genetic engineering of
	recombinant allergen derivatives.
	Modern directions and achievements of
	immunobiotechnology. Hybridoma technologies.
Immunobiotechnology.	Monoclonal antibodies. Genetically engineered cytokines,
Cellular and hybrid technologies	anti-cytokines and anti-receptor antibodies. Principles of
	molecular allergology. Molecular approaches to the
	production of recombinant allergens, genetic engineering
	of recombinant allergen derivatives

Professor of the Department of Immunology and Allergology Professor of the Department of Immunology and Allergology Head of the Department of Immunology and Allergology

T. Slavyanskaya Hanferyan R.A. Sepiashvili R.I.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Pharmacology
The amount of discipline	7 CU (252 hours)
Course Description	
Topics	Content of topics
Recipe. General pharmacology	Formulation. The types of prescription drugs. Rules of prescribing. Basic principles of pharmacodynamics drugs. The basic principles of pharmacokinetics of drugs. Types of drug interactions.
Drugs affecting the afferent and efferent innervation	Drugs affecting the afferent innervation. Local anesthetics. Cholinergic means. Adrenomimetics and simpatomimetics. Adrenolitics and simpatolitics. Pharmacokinetics and pharmacodynamics of groups of drugs. Indications, contraindications, drug interactions.

Drugs affecting cardiovascular system	Diuretics. Lipid-lowering drugs. Antihypertensive drugs. Antianginal drugs. Anti-arrhythmic drugs. Drugs used in heart failure. Pharmacokinetics and pharmacodynamics of groups of drugs. Indications, contraindications, drug interactions.
Drugs influencing haemostasis and haematopoiesis.	Drugs affecting the blood coagulation system. Drugs affecting the hematopoietic system. Pharmacokinetics and pharmacodynamics of groups of drugs. Indications, contraindications, drug interactions.
Medicines that affect the function of the respiratory system, digestive system and metabolism, drugs influencing functions of the espiratory system.	Drugs influencing functions of the digestive system. Hormones of the pituitary gland, hypothalamus, epiphysis, thyroid and pancreas. Hormonal preparations of steroid structure. Drugs affecting the immune processes. Anti-allergic medicines. Pharmacokinetics and pharmacodynamics of groups of drugs. Indications, contraindications, drug interactions.
Drugs affecting Central nervous system.	Agent for anesthesia. Painkillers drugs. Sedatives. Hypnotics. Anxiolytics. Anti- epileptic means. Antipsychotics. Antidepressants. Drugs used in neurodegenerative diseases. The psychostimulants. Nootropic drugs. Pharmacokinetics and pharmacodynamics of groups of drugs. Indications, contraindications, drug interactions.
antifungal medicines.	Antibioucs. Synthetic antimicrobial agents. Antiviral, antifungal medicines, anti-TB drugs. Antiprotozoal, antisyphyllitics. Pharmacokinetics and pharmacodynamics of groups of drugs. Indications, contraindications, drug interactions.

Associate Professor, Department of General and Clinical PharmacologyButranova O.I.Head of the Department of General and Clinical PharmacologyZyryanov S.K.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of the discipline	Pathological Anatomy, Clinical Pathological Anatomy
The amount of discipline	8 CU (288 hours)
	Course Description
Topics	Content of topics
Cells' damage.	Necrosis. Apoptosis. Intracellular accumulation: hyaline changes. Amyloidosis. Pathologic calcification. Metabolic pigments (chromoproteids). Pigmentation disorders.
Adaptive changes in the organism.	Disruption of water and electrolyte balance. Circulatory disorders. Shock. Hemostasis. Thrombosis. Ischemia. Infarction. Acute inflammation. Chronic inflammation. Regeneration and wound healing. Pathological anatomy of the immune system. Pathological conditions of the immune system. Hypersensitivity reactions. Transplant rejection. Autoimmunity and autoimmune disease. Immune Deficiency Syndromes. Pathological anatomy of compensatory and adaptive processes. Pathology of cell growth and differentiation. Adaptation processes.
Pathological anatomy of tumors.	Tumors of different tissues and organs. Leukemias. Lymphomas. Anemias.
Morphological changes in somatic pathology.	Atherosclerosis and arteriosclerosis. Hypertension and arteriolosclerosis. Cerebrovascular disease. Cerebral infarction. Coronary heart disease. Hypertensive heart disease: Diseases of the heart valves. Acute glomerulonephritis. Nephrotic syndrome. Chronic glomerulonephritis. Hepatitis, alcoholic liver disease. Cirrhosis of the liver. Diseases of the stomach. Peptic ulcer disease. Diseases of the appendix cecum.
Morphological changes in infectious diseases.	General characteristics of infectious diseases. Typhoid and typhus fever. Diphtheria. Scarlet fever. Bacillary dysentery. Acute and chronic bronchitis, bronchiolitis. Bronchiectasis. Bronchopneumonia. Lobar pneumonia. Flu. Measles. Classification and general characteristics of fungal infections. Syphilis. Malaria. Amebiasis. Trypanosomiasis. Leishmaniasis. Schistosomiasis. Echinococcosis. Plague. Smallpox. Cholera. Anthrax. Sepsis.

Developers:

Associate Professor of the Department of Pathological AnatomyIvina A.A.Head of the Department of Pathological AnatomyBabichenko I.I.
Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of the discipline	Pathophysiology, Clinical Pathophysiology
The amount of discipline	8 CU (288 hours)
	Course Description
Topics	Content of topics
General nosology. Ecologic	Conception about health and disease; definition of patho- and
pathophysiology	sanogenesis. Civilization diseases; chronopathology.
Cell pathophysiology	Pathology of biomembranes and organelles of the cell; types and mechanisms of cellular death; violations of biorhythms of the cell.
Standard pathological processes	Disorders of local blood circulation; inflammation; immunity, immunopathology; allergy. Pathophysiology of tumor growth. Hypoxia.
Standard metabolic disorders	Carbohydrate, fatty, proteinaceous, purine, pathology of a thermal exchange of an organism; pathology of a water-salt exchange, hypostases; acid and main condition of an organism.
Extreme states	Pain, stress; shock; collapse; coma; clinical and biological death.
Blood pathophysiology	Diseases of red blood; diseases of white blood; hemorrhagic diathesis.
Pathophysiology of cardiovascular system	Arrhythmias; coronary heart disease; complications of a myocardial infarction; heart diseases; cardiomyopathy; myocarditis; endocarditis; pericarditis; heart failure. Pathophysiology of a vascular wall.
Pathophysiology of respiratory system	Respiratory failure; asphyxia; emphysema of lungs; pulmonary edema; bronchial asthma; pneumothorax.
Pathophysiology of a gastrointestinal tract	Stomach ulcer of a stomach and duodenum; pathophysiology of a liver and bile ducts; pancreas pathophysiology; intestinal impassability.
Pathophysiology of secretory system	Nephrotic syndrome; the acute and chronic diffusion glomerulonephritis; pyelonephritis; renal lithiasis; chronic renal failure; uremia; renal coma.

Pathophysiology of endocrine system	Pathophysiology of hypothalamic- pituitary-adrenal systems, thyroid and parathyroid glands, parathyroid glands, a thymus, an epiphyses, sexual glands.	
Pathophysiology of nervous	Pathophysiology of functional neurosis; pathological reflexes;	
system and	pathophysiology of sleep disorders; pathophysiology of	
higher nervous activity	violations of memory.	

Professor, Department of General Pathology and pathological physiology named after VA. Frolova	Demurov E.A.
Associate Professor of the Department of General Pathology and pathological physiology named after VA. Frolova	Velichko E.V.
Head of the Department of General Pathology and pathological physiology named after VA. Frolova	Blagonravov M.L.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of the discipline	Topographic Anatomy & Operative Surgery
The amount of discipline	6 CU (216 hours)
Course Description	
Topics	Content of topics
Topographic anatomy and operative surgery of the extremities	Topographic anatomy of the shoulder girdle areas, of the axillary region. Topographic anatomy of the arm, ulnar area, forearm, hand. Surgical anatomy of the shoulder joint, elbow joint, wrist joint. Topographic anatomy of the gluteal region, thigh, knee region, leg, calcaneal region, ankle joint region, foot. Surgical anatomy of the hip joint, knee joint, ankle joint. Surgical instruments. Basic operational techniques: separation of tissues, stop bleeding, put on and removal of skin nodes sutures, tying surgical knots. Primary surgical treatment of wounds of the body and limbs. Stop bleeding and restore blood flow. Vascular suture. Tendon suture. Nerve suture.

Topographic anatomy and operative surgery of the head, neck, thorax	Topographic anatomy and operative surgery of the head. Cranial vault. Meninges and intermembranous space. Face. Superficial and deep lateral face regions. Topographic anatomy and operative surgery of the neck. Fascias and cellular spaces of the neck. Submandibular triangle. Sternoclavicular-mastoid region. Carotid triangle. Scaleno-vertebral triangle. Lateral region of a neck. Surgical anatomy of the neck organs: esophagus, trachea, thyroid gland. Operations on the thyroid gland. Topographic anatomy and operative surgery thorax. Chest wall. The mammary gland. Topography of intercostal spaces. Thoracic cavity. Surgical anatomy of the lungs. Mediastinum. Surgical
	anatomy of organs of the anterior and posterior mediastinum. Surgical anatomy of the diaphragm. Breast surgery. Principles of surgical interventions on lungs, heart, esophagus.
Topographic anatomy and operative surgery of the abdomen, pelvis, perineum.	Anterolateral wall of the abdomen. Weak points of the anterior abdominal wall. Surgical anatomy of the inguinal canal. Surgical anatomy of the inguinal, umbilical and femoral hernias. Abdominal cavity. Peritoneum. Ligaments, burses, canals, sinuses, large and small epiploons. Surgical anatomy of organs of the upper abdomen: the stomach, duodenum, liver, gallbladder and extrahepatic bile ducts, spleen, pancreas.
	Surgical anatomy of organs of the lower floor of the abdominal cavity: the small intestine, large intestine. Retroperitoneal space. Fascias and cellular spaces. Surgical anatomy of organs and neurovascular structures: the kidney, ureters, adrenal glands, abdominal aorta, inferior vena cava, thoracic duct. Topographic and anatomical aspects of surgical interventions on the anterior abdominal wall and abdominal organs. Operations on the abdominal organs. Revision of the abdominal cavity in penetrating wounds. Appendectomy. Operations on the stomach. Intestinal suture. Intestinal anastomoses. Suturing wounds of the stomach, small intestine and colon. Resection of the small intestine. Endoscopic surgery on the abdominal organs. Cholecystectomy. Appendectomy. Herniorrhaphy. Topographic anatomy and operative surgery of the pelvis. Fascias, cellular spaces. Surgical anatomy of organs of the male and female pelvis. Topographic anatomy of the perineum. Fascias, cellular spaces. Surgical anatomy of organs of the perineum in males and females. Operations on the pelvic organs.

Professor of the Department of Topographic Anatomy and operative surgery Head of the Department of Topographic Anatomy and operative surgery

Smirnova E.D.

Protasov A.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Hygiene
The amount of discipline	7 CU (252 hours)
	Course Description
Topics	Content of topics
Theoretical and methodological	General hygiene as a science and a subject teaching;
foundations of the discipline	sanitation; organization forms and stages of state sanitary
"total hygiene". Public health	and epidemiological supervision. Public health and the
and the environment.	environment, as a combination of natural, anthropogenic
	and social factors. Features of action on the body of harmful
	environmental factors. Hygienic regulation and forecasting.
Hygiene air environment. Solar	Climate and human health. Hygienic aspects of
radiation.	acclimatization. The chemical composition of atmospheric
	air and its hygienic importance. Solar radiation and its
	hygienic value.
Hygienic problems of	Hygienic assessment of planning residential areas. Health
residential areas. Hygiene of	homes. Hygienic assessment of indoor climate. Hygienic
residential and public	evaluation of the chemical composition of indoor air.
buildings.	Hygienic assessment of microbial contamination of indoor
	air. Hygienic assessment of the premises lighting.
Radiation hygiene	Radioactivity. Sources of radiation. Natural background
	radiation. Methods radiometry objects of the environment.
	The dose of ionizing radiation. dosimetry methods.
	Definition and hygienic assessment of the radiation dose.
	Protecting the public from ionizing radiation.
Nutrition and health.	Hygienic bases of nutrition. Features nutrition of different
	population groups. Hygienic bases of the organization of
	clinical nutrition. Dietary and preventive nutrition. Sanitary-
	hygienic examination of foods. Food and biological value of
	animal products. Sanitary-hygienic evaluation of milk and
	milk products. Food and biological value and signs of
	damage to products of plant origin. Sanitary-hygienic
	examination of bread. The methods of food preservation.
	Sanitary-hygienic examination of canned and concentrates.
	Food safety. Food poisoning and its prevention. Sanitary-
	hygienic examination of projects catering.

Health and water supply. Soil Hygiene, cleaning of residential areas. Sanitary protection of water bodies.	Water as an environmental factor, its hygienic and epidemiological significance. Hygienic assessment of water sources. Rationing qualitative composition of drinking water. Methods for cleaning, disinfection, and methods to improve the quality of drinking water. Disinfection of drinking water at the centralized water supply and in the field. Soil as environmental factors. the soil's role in the transmission of endemic, infectious and parasitic diseases. Contamination of soil and self-cleaning. Hygienic assessment of soil quality. Hygienic bases and requirements for cleaning of populated areas. Sewer populated areas and sanitary protection of water bodies.
Occupational health and	Fundamentals of occupational health and workers' health.
protection of workers' health	Physiological basis of the labor process. Hygienic assessment and prevention of physical environment factors. Hygienic assessment and prevention of the impact of industrial aerosols. Hygienic assessment and prevention of the influence of chemical and biological factors of the production environment. Occupational health in agriculture. Occupational Health in the health system
Features of the planning and	Hygienic assessment of the health and physical development
school institutions. Health of	planning, equipment, maintenance and operation of child
children and adolescents. Healthy lifestyle.	care centers. A healthy lifestyle and personal hygiene.
Health medical institutions	Hospital hygiene. Features of structural and planning solutions for health care facilities. Prevention of nosocomial
	infections.

Associate Professor of Public Health, Health and Hygiene Associate Professor of Public Health,	N.A. Drozhzhina
health and hygiene	Maksimenko LV
Associate Professor of Public Health, Health and Hygiene	Piven E.A.
Head of the Department of Public Health, Health and Hygiene	Fomina A.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Name of discipline	Public Health and Healthcare, Healthcare
	Economics
General labour intensity	6 credits (216 hours)
Course summary	1
Topics	Content of topics
Theoretical and methodical foundations of the discipline "Public Health and Healthcare", state policy in the field of public health.	Public health and health care as a science and subject of teaching. Brief history of public health. Legal basis of public health in the Russian Federation. Methods of studying the patterns of the formation of public health and the activities of health services. Health care in foreign countries. International cooperation in the field of health.
Public health: the concept, study, assessment of indicators and determinants of public health.	Medical demography. Medico-social aspects of demographic processes. Morbidity, disability and physical development.
Fundamentals of medical statistics and organization of medical and social research. Statistical analysis.	Fundamentals of Medical Statistics. Organization (stages) of medical and social research. Statistical methods of processing the results of medical and social research
The organization of medical and preventive care for the population and the functioning of the main health subsystems.	Organization of treatment and preventive care for the population. Primary health care. Out-patient assistance to the population. Organization of inpatient medical care. Emergency care. Socio-hygienic importance of the major diseases and the organization of treatment and preventive care with them. Organization of health care for workers in industrial enterprises, construction and transport. Organization of medical care for the rural population. System of maternal and child health protection. Organization of state sanitary and epidemiological surveillance. The organization of sanatorium-and- spa help. Medicinal assistance to the population. Provision of health care facilities with medical equipment and instruments. Quality management of medical care. Examination of temporary and permanent disability

The problems of health preservation, disease	The problems of disease prevention and health
prevention, family health and medical ethics.	promotion. Participation of public organizations in
	the protection of public health. Family as an object
	of medical and social research and primary health
	care. Medical ethics and
	deontology, bioethical problems of medicine.
Fundamentals of health economics and health	Fundamentals of health management. Fundamentals
insurance. Management of health care and medical	of Economics, Planning and Financing of Health.
personnel.	Marketing in health care.
	Fundamentals of social and health
	insurance. Training of medical personnel.

Professor of the Department of Public health

D.I.Kicha

Head of the Department of Public health, Healthcare and Hygiene, Professor A.V Fomina

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Epidemiology
The amount of discipline	3 CU (108 hours)
	Course Description
Topics	Content of topics
General epidemiology. Epidemiological method and evidence-based medicine. Epidemiological studies.	Short history of the epidemiology development. Epidemiological method (analysis). Establishing an epidemiological diagnosis. The kinds of epidemiological research.
Epidemic process. Epidemiological surveillance.	 L.V. Gromashevsky's role in the study about the epidemic process – three interconnecting elements: a source of infection, a mechanism of transmission and a susceptible organism. Indicators of the epidemic process. Antiepidemic measures. The basis of preventive measures organization. Levels of prevention. The epidemiological surveillance as a subsystem of the social-hygienic monitoring (SHM).
The study about natural niduses. Sapronotic infections.	The definitions: "natural nidus", "anthropogenic nidus". The role of wild, semisinanthropic and sinanthropic mammals (rodents, insectivores, ungulates, predators), birds in the formation of natural and anthropogenic nidi. The main principles of epizoological-epidemiological surveillance.

Disinfection, sterilization.	The definition of disinfection. Types of disinfection: prophylactic and nidal (current and final). Disinfection specificities for respiratory infections, enteric infections and extremely dangerous infections. Presterilization cleaning of medical, including stomatological, things. Control of presterilization cleaning. Sterilization. Control of sterilization quality.
Immunoprophylaxis of infectious diseases.	Definition of immunoprophylaxis. Theoretical basis of immunoprevention. The schedules of immunoprophylaxis in the world. Active and passive immunoprophylaxis. Post- exposure immunoprophylaxis.
Infectious disease epidemiology. Epidemiology of socially significant infections.	The content of this section is defined by the actual epidemic situation and calendar plan of study course of infectious diseases. Epidemiological characteristics of socially significant infections. Organization of antiepidemic and preventive measures in niduses of infection diseases.
Epidemiology and prophylaxis of nosocomial infections.	Definition of nosocomial infections. Epidemiological, economic and social significance of hospital infections. Contributors of hospital infection emergence and distribution. Antiepidemic regime in medical institutions. Prevention of nosocomial diseases in medical staff. Post- exposure prevention of HIV, hepatitis viruses (B, C, D).
Epidemiology of emergency situations.	Definition of the "emergency situation". Classification of catastrophes. Basic principles of medical aid and epidemic control organization in the area affected by an emergency.
Epidemiology and prevention of a group of intestinal, drip, blood infections.	The issues of private epidemiology of the most common infections of each group are considered.

Associate Professor, Department of Infectious Diseases with courses of epidemiology and phthisiology

Golub V.P.

Head of the Department of Infectious Diseases with courses of epidemiology and phthisiology

Kozhevnikova G.M.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Medical Rehabilitation
The amount of discipline	3 CU (108 hours)
	Course Description
Topics	Content of topics
Organizational and methodological bases of rehabilitation	Definition of rehabilitation. The concepts of impairment, disability, social insufficiency. Types of rehabilitation, their goals and objectives. Medical rehabilitation. Abilitation. Rehabilitation program. Rehabilitation potential. Rehabilitation prognosis. Principles of the organization of the rehabilitation process. Stages of medical rehabilitation. Organizational approaches and staffing of the rehabilitation process.
Medical aspects of disability	Concepts disabled, disability. The concept of "disability". Primary, secondary, tertiary physical defects. Classification of disability. Disability groups. Features (risk groups) of persons with disabilities.
Means and methods of medical rehabilitation	Means of medical rehabilitation. Drug provision of the rehabilitation process. Means of psychological rehabilitation. Technical means of rehabilitation. Reconstructive surgery. Physiotherapy. The concept of physiotherapy. External physical factors used in physiotherapy. Natural and preformed healing factors. The mechanism of therapeutic action of physiotherapy. General contraindications. Safety precautions when working in a physiotherapy department (office). Classification, types and forms of exercise therapy. Classification of motor modes. Features and evaluation of functional examination of patients before and after exercise therapy in different motor regimens. Ergotherapy Basics of medical massage. Basic tricks. Indications and contraindications. Basics of reflexology. The mechanism of therapeutic action. Methods of reflexology. Acupressure technique. Indications and contraindications. Features of reflexology in the elderly, senile age and long-livers. The mechanism of therapeutic action and methods of hirudotherapy. Indications, contraindications. Technique of hirudotherapy. Possible complications. The mechanism of therapeutic action.

of the method of herbal medicine. Indications,
contraindications. The mechanism
of therapeutic action of apitherapy. Indications,
contraindications. The mechanism of therapeutic action of
aromatherapy. Aromatherapy techniques. Indications,
contraindications. Climatotherapy. Climatotherapy factors.
Climates. Climatic resorts. Aerotherapy. The mechanism of
therapeutic action of aerotherapy. Techniques.
Heliotherapy. The mechanism of therapeutic action of
heliotherapy. Forms of conducting sessions of
heliotherapy. Indications, contraindications.
Thalassotherapy. The mechanism of therapeutic action of
thalassotherapy. The concept of "cold load". Indications,
contraindications for thalassotherapy. Speleotherapy.
Microclimatic features of natural caves, salt mines. The
mechanism of therapeutic action speleotherapy.
Indications, contraindications. Pelotherapy. Peloid
classification. The mechanism of therapeutic action
pelotherapy. Techniques. Indications, contraindications.
Balneotherapy. Composition and classification of mineral
waters. The mechanism of action of balneotherapy. Types
of balneotherapy. Indications and contraindications. Rules
of reception of mineral waters.

Professor, Department of Anesthesiology and Intensive Care with a course of medical rehabilitation	Zhernov V.A.
Associate Professor, Department of Anesthesiology and Intensive Care with a course of medical rehabilitation	Zubarkina M.M.
Head of the Department of Anesthesiology and Intensive Care with a course of medical rehabilitation	Petrova M.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Name of discipline	Clinical pharmacology
Complexity (labor input) of discipline	3 credit units (108 hours)
Summary of discipline	
Topics	Content of topics
1. General issues of clinical pharmacology.	Introduction to clinical pharmacology. Fundamentals of pharmacoepidemiology and pharmacoeconomics. Clinical research. Principles of clinical evidence-based medicine. Fundamentals of clinical pharmacodynamics. Fundamentals of clinical pharmacokinetics.
2. Specific issues of clinical pharmacology.	 Principles of efficacy and safety assessment of drugs. Principles of efficacy and safety assessment of drugs. Fundamentals of rational pharmacotherapy (P-drug and P-treatment). Clinical pharmacology of drugs affecting main functions of myocardium. Clinical pharmacology of drugs affecting vessels. Clinical pharmacology of lipid-lowering drugs and metabolism modifiers. Clinical pharmacology of drugs affecting hemostasis and hemopoiesis. Clinical pharmacology of drugs affecting lung functions. Clinical pharmacology of drugs affecting GIT. Clinical pharmacology of drugs applied in treatment of kidney disorders. Clinical pharmacology of drugs applied in endocrinology. Clinical pharmacology of drugs applied in treatment of kidney disorders. Clinical pharmacology of drugs applied in treatment of immune system disorders and allergic conditions. Clinical pharmacology of anti-inflammatory drugs. Clinical pharmacology of anti-inflectious drugs. Clinical pharmacology of anti-inflectious drugs.

Educational program 31.05.01 General medicine

Developers:

Professor of the Department of General and Clinical PharmacologyFitilev SBAssociate Professor, Department of General and Clinical PharmacologyVozzhaev A.V.Associate Professor of the Department of General and Clinical PharmacologyShkrebneva I.I.Head of the Department of General and Clinical PharmacologyZyryanov S.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Dermatovenerology
The amount of discipline	3 CU (108 hours)
Course Description	
Topics	Content of topics
General dermatology:	Anatomy, physiology, histology of the skin. Histopathological changes. Elements of the rash. Etiology and pathogenesis of skin diseases. Methods of diagnosis of skin and venereal diseases. Principles of general and local therapy, prevention in dermatovenereology.
Infectious and parasitic diseases.	Pyoderma. Scabies. Lice Fungal diseases of the skin.
Allergic and other pruritic dermatosis.	Dermatitis, toxicoderma, eczema, pruritus, atopic dermatitis, pruritus, urticaria, angioedema.
Dermatosis with unknown etiology.	Psoriasis, lichen planus.
Collagenoses.	Lupus erythematosus, scleroderma. Dermatomyositis.
Cystic dermatosis. Erythema.	Vulgar pemphigus. Herpetiform dermatosis Dühring. Exudative erythema multiforme.
Viral dermatosis.	Herpes, shingles, molluscum contagiosum, warts.
Syphilis. Sexually transmitted infections.	Gonorrhea, trichomoniasis, chlamydia.

Educational program 31.05.01 General medicine

Developers:

Assistant of the Department of Skin and Venereal DiseasesSavastenko A.L.Head of the Department of Skin and Venereal DiseasesTishchenko A.L.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Neurology, Medical Genetics, Neurosurgery
The amount of discipline	6 CU (216 hours)
	Course Description
Topics	Content of topics
Topical diagnosis and semiotics of diseases of the nervous system.	 The study of motor functions. Investigation of the functions of the motor cranial nerves: III, IV, V, VI, VII, IX, X, XI, XII. Lesion syndromes. Investigation of surface and deep sensitivity. Research methods and symptoms of damage to the sense organs - sight, hearing, smell, taste. Symptomatology and methods of research of aphasia, apraxia, agnosia. Symptomatology and methods of research coordination of movements. Research methods and symptoms of extrapyramidal system lesions The study of the autonomic nervous system. The main syndromes of the brain and spinal cord. Somatoneurological and neurosomatic syndromes. Paraclinical research methods.
Vascular diseases of the brain and spinal cord.	Acute disorders of cerebral circulation. Chronic and transient disorders of cerebral circulation. Vascular diseases of the spinal cord. Treatment of vascular diseases of the central nervous system. Principles of rehabilitation.
Infectious and parasitic diseases of the nervous system.	Bacterial meningitis (meningococcal, pneumococcal, recurrent bacterial, etc.). Serous meningitis, tuberculous meningitis, Brain abscess. Thrombosis of the cerebral sinuses. Encephalitis (tick-borne, mosquito, epidemic, herpetic, influenza, rheumatic). Echinococcosis, neurocystecyrcosis, schistosomiasis, trypanosomiasis, toxoplasmosis, malaria. Neurospid. Neurosyphilis.
Peripheral nervous system diseases.	Polyneuropathy: toxic (alcoholic), dysmetabolic (diabetic), hereditary (neural amyotrophy of Charcot-Marie-Tus). Neuralgia of the trigeminal nerve. Neuropathy of the facial nerve. Peripheral nerve tunnel neuropathy.
Chronic and chronically progressive diseases.	Amyotrophic lateral sclerosis. Myasthenia. Syringomyelia
Hereditary degenerative diseases of the nervous system.	Progressive muscular dystrophies. Myotonia and myotonic syndromes. Paroxysmal myoplegia. Down syndrome, Klinefelter, Shereshevsky-Turner

Demyelinating diseases of the nervous system.	Multiple sclerosis. Scattered encephalomyelitis. Opticomyelitis OVDP, HVDP.
Vegetative endocrine diseases. Neurosis.	Migraine, tension headache. Cluster headache.
Epilepsy and convulsive syndromes. Fainting	Epilepsy, classification, clinical presentation, diagnosis, treatment. Paroxysmal conditions.
Neurosurgery	Methods of examination in neurosurgery. Tumors of the central nervous system. Vascular diseases of the brain in neurosurgery. Traumatic brain injury.

Associate Professor of the Department of Nervous Diseases and Neurosurgery Head of the Department of Nervous Diseases and Neurosurgery

Nozdryukhina N.V. Chmutin G.E.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE Educational program 31.05.01 General medicine

The name of the discipline	Psychiatry, Medical Psychology
The amount of discipline	5 CU (180 hours)
	Course Description
Topics	Content of topics
General psychiatry	Psychiatry: definition, branches of psychiatry, types of psychiatric care. Methods of treatment of mental illnesses. Classification of mental illnesses. Disorders of sensations, disorders of sensory synthesis. Perceptual disorders. Classification, clinical manifestations. Disorders of the associative process. Types of delusions according to content. Delusions, classifications. Overvalued ideas. Obsessions, classification. Delusions of persecution. Delusions of greatness. Depressive delusions. Symptoms of emotional (affective) disorders. Symptoms of memory impairment. Asthenic syndrome: symptomatology, stages. Delusional syndromes. The paranoiac syndrome. Hallucinatory-paranoid syndrome. The Kandinsky-Clerambo syndrome. Paraphrenic syndrome. Cotard syndrome. Syndrome of dysmorphophobia-dysmorphomania. Emotional (affective) syndromes. Types of emotional syndromes. Apathic syndrome. Catatonic syndrome. Amnestic syndrome. Korsakov's syndrome. Catatonic-gebefrenic syndrome.

	consciousness. Depersonalization: varieties. Disorders of sensory synthesis. Paraphilias. Phobic syndrome. Types of obsessions.
Psychopathology. Categories of mental disorder.	Oligophrenia: definition, classification, methods of treatment and rehabilitation. Mental disorders in neurosyphilis: varieties, methods of diagnosis, treatment and rehabilitation. Epilepsy: definition, clinical manifestations, methods of diagnosis and treatment. Paroxysmal disorders in epilepsy: classification. Non-paroxysmal disorders in epilepsy. Mental disorders in the lesions of cerebral vessels: varieties, clinical manifestations, methods of treatment. Mental disorders in cerebral atherosclerosis, clinical manifestations, Mental disorders in hypertensive disease. Presenile (involutional) psychoses. Alzheimer's disease. Mental disorders in atrophic diseases of the brain. Alcoholism. Addiction. Substance abuse. Mental disorders in infectious diseases. Mental disorders in AIDS. Mental disorders in somatic diseases. Psychosomatics: definition. Varieties of psychosomatic pathology. Mental disorders in schizophrenia. Bipolar affective disorder. Psychogenic disorders. Reactive psychosis. Neuroses. Post-traumatic stress disorder: definition, clinical manifestations, methods of treatment. Personality disorders (psychopathy). Anorexia nervosa and bulimia nervosa.
Treatment of mental disorders	Methods of treatment of mental illnesses. Psychotropic drugs: definition, classification. Psychotherapy: definition, basic methods of psychotherapy. Neuroleptics: definition, classification, spectrum of psychotropic action of neuroleptics. Varieties of psychomotor agitation. Methods of arresting psychomotor agitation. Tranquilizers. Definition, classification, spectrum of psychotropic effects, side effects. Antidepressants: Definition, classification. Complications and side effects in the treatment of antidepressants. Nootropics: definition, Mechanism of action, indications and adverse effects of basic nootropic drugs, side effects of nootropics. Psychostimulants, normotimics: Mechanism of action, indications and adverse effects and complications. Anticonvulsants. Epileptic status: definition, clinical manifestations, basic methods of treatment. Treatment of epilepsy: principles, basic anticonvulsants. Basic principles of treatment and rehabilitation of patients with schizophrenia. Basic principles of treatment and rehabilitation of patients with affective psychoses. Basic principles and stages of treatment of patients with chronic alcoholism. Treatment of patients with neuroses. Basic psychotropic drugs, methods of psychotherapy. Treatment of patients with anorexia nervosa and bulimia nervosa. Treatment of post-traumatic stress disorders. Diagnosis, types of treatment and rehabilitation of patients with mental disorders due to craniocerebral trauma.

Medical psychology	Tasks and goals of the work of a medical psychologist in the clinic of internal diseases, in a psychiatric clinic. Methods of pathopsychological study. Methods and types of psychological psychotherapy. Abnormalities in mental activity in organic diseases of the brain. Disorders of memory in organic diseases of the brain. Features of impairment thinking in schizophrenia. Features of the emotional sphere and thinking in personality disorders. Features of the work of a psychologist with oncological patients. Features of mental performance in patients with eating disorders. Features of thinking, emotions and memory in patients with epilepsy. Technique of memorizing 10 words. Method "Pictogram". Methodology "Classification of objects". Features and objectives of using psychometric scales in the clinic of internal diseases and psychiatric clinic. Methodology of "Exception of excess"

Associate professors of the Department of Psychiatry and Medical Psychology	M.S. Artemyeva
Associate professors of the Department of Psychiatry and Medical Psychology	I.E.Danilin Head
of the Department of Psychiatry and Medical Psychology	I.V. Belokrylov

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Otorhinolaryngology
The amount of discipline	4 CU (144 hours)
Course Description	
Topics	Content of topics
Investigation methods of ENT	Development of methods of ENT – organs: anterior
organs: anterior rhinoscopy,	rhinoscopy, posterior rhinoscopy, pharyngoscope,
posterior rhinoscopy,	laryngoscope, otoscopy.
pharyngoscope, otoscopy.	

Pathology of the nose and	Diseases of external nose.	
paranasal sinuses.	Acute and chronic diseases of the nasal cavity.	
-	Injuries of the nose and paranasal sinuses. Nosebleeds.	
	Foreign body in the nasal cavity and paranasal sinuses.	
	Endonasaal endoscopic surgery.	
	Inflammatory diseases of the paranasal sinuses.	
	Orbital and intracranial complications of diseases of the nose	
	and paranasal sinuses.	
Pathology of the pharynx.	Angina, complications of angina.	
	Chronic tonsillitis. Trauma and foreign body in the pharynx.	
	Adenoids. Acute and chronic pharyngitis.	
Pathology of the ear.	Diseases of the external ear. Acute middle ear infections.	
	Mastoiditis.Physiology and research methods of the vestibular	
	analyzer.	
	Chronic diseases of the middle ear. Intracranial	
	complications. Diseases of the inner ear.	
Pathology of the larynx.	Acute and chronic diseases of the larynx. Tracheotomy.	
Tumors of the ear and upper	Tumors of the ear and upper respiratory tract.	
respiratory tract.		
Specific diseases of ENT	Specific diseases of upper respiratory tract.	
organs.		

Associate professors of the Department of otorhinolaryngology	I.A.Korshunova.	

Head of the Department of otorhinolaryngology

V.I.Popadyuk

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Ophthalmology
The amount of discipline	3 CU (108 hours)
Course Description	
Topics	Content of topics
Introduction to Ophthalmology	History of ophthalmology. The main tasks of general practitioners, the problem of eye morbidity and blindness. Evolution of the organs of vision and development of the human eye.

Anatomy of the organ of vision	Three divisions of the visual analyzer. Anatomy of the orbit.
	Protective apparatus of the eye. Conjunctiva.
	Tear-producing and teardrop apparatus of the eye.
Visual acuity, refraction	Optical device of the organ of vision Visual acuity Physical
accommodation.	and clinical refraction. Accommodation and convergence.
Clinic of refractions.	Refractive anomalies. Correction. Astigmatism, its types,
Astigmatism. Presbyopia.	principles of correction. Presbyopia, the principles of
Correction.	correction. Features of contact lens correction.
Methods of examining the	Investigation of the eye and its appendages in side lighting
anterior part of the eye (external	and in transmitted light. Fundamentals of biomicroscopy.
examination, side lighting,	Gonioscopy. Basics of ophthalmoscopy. The method of
biomicroscopy, gonioscopy).	skiascopy. Methods of opninalmoscopy.
Theory of onbthalmoscony	
Methods of examination of the	Central and peripheral vision Changing the visual fields
eves Function	Defects of the field of view. Blind spot. Color perception.
	Disorders of color perception. Study. Light Sensation.
	Adaptation.
The motor apparatus of the eye.	Binocular vision. Violation of binocular vision. Strabismus,
Binocular vision. Strabismus	species. Causes. Amblyopia. Classification. Types of
	treatment of strabismus.
Diseases of the eyelids, lacrimal	Diseases of the eyelids. Congenital anomalies of the eyelids.
organs, the orbit.	Diseases of lacrimal organs. Differential diagnostics.
	Methods of treatment. Diseases of the orbit. Neoplasms of
	the orbit.
Diseases of the conjunctiva	Acute infectious conjunctivitis. Classification. Treatment.
Diseases of the conjunctiva	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic
Diseases of the conjunctiva	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva
Diseases of the conjunctiva	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment.
Diseases of the conjunctiva Trachoma	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and
Diseases of the conjunctiva Trachoma	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics.
Diseases of the conjunctiva Trachoma	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma.
Diseases of the conjunctiva Trachoma Diseases of the cornea and	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis.
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera	 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation,
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera	 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment.
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Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the upper tract	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment.
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract	 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis treatment.
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Chorioretinitis. The clinical presentation diagnosis treatment Degenerative changes in
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract	 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Congenital malformations Neoplasm of the
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract	 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Chorioretinitis. The clinical presentation, diagnosis, treatment. Degenerative changes in the vasculature. Congenital malformations.Neoplasm of the vascular tract. Diagnostics. Treatment.
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract Diseases of the retina and optic	 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Chorioretinitis. The clinical presentation, diagnosis, treatment. Degenerative changes in the vasculature. Congenital malformations.Neoplasm of the vascular tract. Diagnostics. Treatment.
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Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract Diseases of the retina and optic nerve	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Chorioretinitis. The clinical presentation, diagnosis, treatment. Degenerative changes in the vasculature. Congenital malformations.Neoplasm of the vascular tract. Diagnostics. Treatment. Retinites. Changes in the retina in general diseases. Clinical presentation. Treatment. Degenerative changes in the retina. Clinical presentation. Treatment. Inflammatory and non-
Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract Diseases of the retina and optic nerve	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Chorioretinitis. The clinical presentation, diagnosis, treatment. Degenerative changes in the vasculature. Congenital malformations.Neoplasm of the vascular tract. Diagnostics. Treatment. Retinites. Changes in the retina in general diseases. Clinical presentation. Treatment. Degenerative changes in the retina. Clinical presentation. Treatment. Inflammatory and non- inflammatory diseases of the optic nerve. Features of the
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Diseases of the conjunctiva Trachoma Diseases of the cornea and sclera Diseases of the vascular tract Diseases of the retina and optic nerve	Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. Degenerative changes in the conjunctiva. Tumors of the conjunctiva. Treatment. Etiology of trachoma, stage of disease. Complications and consequences of trachoma. Differential diagnostics. Prevention and treatment of trachoma. General symptoms of corneal disease. Exogenous keratitis. Endogenous keratitis. Etiology, clinical presentation, treatment. Corneal ulcer. Etiology, clinical presentation, treatment. Vitamin deficiency of the cornea. Outcomes of keratitis. Types of treatment of keratitis of their consequences. Scleritis. Clinical presentation, treatment. Disease of the iris. Iridocyclitis. The clinical presentation, diagnosis, treatment. Chorioretinitis. The clinical presentation, diagnosis, treatment. Degenerative changes in the vasculature. Congenital malformations.Neoplasm of the vascular tract. Diagnostics. Treatment. Retinites. Changes in the retina in general diseases. Clinical presentation. Treatment. Degenerative changes in the retina. Clinical presentation. Treatment. Inflammatory and non- inflammatory diseases of the optic nerve. Features of the clinical presentation. Treatment. Congenital anomalies and neoplasms of the retina and optic nerve. Features of

Glaucoma	Definition of glaucoma. Normal and elevated IOP.
	Etiology, pathogenesis and classification of glaucoma. Acute
	attack of glaucoma. Features of the clinical presentation.
	Treatment. Absolute glaucoma. Clinical presentation.
	Treatment. Early diagnosis of glaucoma. Methods of
	treatment of glaucoma.
Diseases of the lens. Prevention	Definition of cataract. Classification of cataracts. cataracts
and treatment	due to general diseases. Modern principles of cataract
	treatment. Disorders of vitreous body.
Damage to the organ of vision	Causes and Classification of Eye Trauma. Damage to the
and their prevention.	eyelids. Blunt trauma of the ophthalmic apple. Injury of the
Organization of eye care	orbit. Diagnostics. Treatment. Eye burns. Classification.
	Methods of treatment. Organization of eye care for the
	population. Disability by sight(vision).
Eye diseases in tropical	Features of ocular pathology in countries with tropical
countries	climates. Classification of eye diseases in tropical countries.
	Ophthalmic helminthiases (main types). Ophthalmic
	diseases. Treatment, prevention. Change of eyes in general
	diseases. Treatment. The defeat of the eye in case of vitamin
	deficiency. The defeat of the organ of vision by the poisons
	of animals and plants

Professor of the Department of Eye Diseases

P.A.Gonchar

Head of the Department of Eye Diseases

M.A.Frolov

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Forensic medicine
The workload of the discipline	3 Units (108 hours)
T	he summary of the discipline
Topics	Content of topics
Procedural and organizational issues of forensic medical expertise. Examination of the scene and the corpse at the place of its discovery.	 The structure of the forensic medical service in the Russian Federation, the legal regulation of forensic medical examination, the limits of its competence. The objects of forensic medical examination, methods of their expert examination, the capabilities of the diagnostic. The rights and the obligations of the expert and the expert in the field of medicine while performing primary investigation (examination. The order of examination of the scene (the corpse at the place of its discovery), procedural and organizational forms of participation of the doctor in it, especially taking into account the category, kind and type of death.
Forensic medical thanatology (General and particular). Forensic toxicology (General and particular)	 Thanatology (terminal conditions; euthanasia; lethargy; early and late post-mortem changes). Medical and legal aspects of the statement of death, the establishment of the fact of death. Methods of research and expert evaluation of supravital reactions, early and late post-mortem changes, destruction of the corpse by animals, insects and plants. Establishment of the time of death. Causes of death in case of various diseases, injuries and poisoning and their morphological diagnosis
Forensic traumatology (General and particular)	 The study of injuries (bruises, abrasions, wounds, fractures, etc.). Mechanisms of formation, morphological properties and distinctive features of the damage. The establishment of the gun injuries based on its properties and characteristics of the self- damage. Mechanical, gunshot, car injuries, disease and death from extreme external factors. Features of thanatogenesis in case of various types of external influence.

Forensic medical examination of live person.	 Procedure and organization of medical examination of victims, accused, etc. Rules and Medical criteria for determining the severity of damage to human health. Examination of the definition of loss of general and occupational disability. Forensic documentation. Examination related to crimes against sexual inviolability of the person, examination in case of previous pregnancy, delivery.
Forensic medical examination of the corpse (sectional study of the corpse).	 The reasons for forensic medical examination (research) of the cadaver. Documentation of forensic medical examination. Principles of construction of forensic medical diagnosis and conclusions (conclusion) at forensic medical examination (research) of a corpse. Execution of medical death certificate (ICD). Forensic medical examination in case of sudden death. Forensic medical examination of the cadaver of a newborn baby.
Laboratory research methods in forensic medicine. Examination of the case materials. Forensic medical examination of professional violations of healthcare workers.	 Examination of material evidence of biological origin (blood, semen, saliva, hairs). Methods of identification, removal and packaging of traces and material evidence of biological origin. Requirements for execution of medical documentation, description of the injuries detected in the patient. Professional violations of healthcare workers and responsibility for them. Iatrogenia, accident in medical practice, defective and improper medical care, medical error, etc.
Forensic medical examination of mechanical asphyxia.	 General characteristics of in vivo mechanical asphyxia. Signs of asphyxia in external and internal examination of the cadaver. Principles of construction of the forensic medical diagnosis and conclusions (conclusion) at forensic medical examination (research) of a cadaver. Execution of medical death certificate (ICD). Thanatogenesis in different types of mechanical asphyxia

Assistant lecturer of the Department of Forensic medicine

Asiya R. Bashhirova

The head of the Department of Forensic medicine

Dmitriy V.Sundukov

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the	Disaster Medicine
discipline	
The amount of discipline	4 CU (144 hours)
	Course Description
Topics	Content of topics
Organization and bases activity of disaster medicine service	Organization and bases activity of disaster medicine service. Objectives and bases of organization of United state system aimed at the prevention and the elimination of sequences of extreme situations (ES). Objectives, emergency organization structure and bases activity of Russian disaster medicine service. Objectives and emergency organisation structure of Medial civil defence service.
Protection of population from defeat factors at ES	Protection of population from defeat factors at ES. Organization of the protection of population at ES/ Principles and methods of the protection. Measures for protection of population. Notification of population. Characteristic of protective construction. Characteristic of personal protective equipments. The order of the protection, accumulation, storage and distribution of personal protective equipments. Evacuation of population. Organization of dosimeter, chemical and bacteriological control. Regimes of the protection of population (regimes of the behavior. Special treatment. Medical protection of population at ES. Definition and measures of medical protection. Medical protective equipment. Table medical personal protective equipments. Preparation of medical establishments to activity at ES.
Organization of medical- sanitary maintenance of population at ES	Organization of medical-sanitary maintenance of population at ES. Organization of medical aid of population at ES. Organization of medical-evacuative maintenance of population at ES. Management disaster medicine service. Medical- sanitary maintenance during liquidation of technogenic accidents. Medical- sanitary maintenance during liquidation of natural disaster. Organization of medical supply at ES. Organization of medical supply establishments aimed for the medical-sanitary maintenance of population at ES. Preparation of establishments of medical supply to activity at ES

Educational program 31.05.01 General medicine

Developers:

Associate Professor of the Department of Disaster Medicine Associate Professor of the Department of Disaster Medicine Head of the Department of Disaster Medicine

Mitish V.A. Paskhalova Yu.S. Sokov S.L.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Propaedeutics of Internal Diseases
The amount of discipline	10 CU (360 hours)
Course Description	
Topics	Content of topics
Methods of physical examination of the patient	General condition, consciousness, position, antropometry, skin and mucus layers, lymphatic nodes, muscular system, joints
Examination of a patient with lung diseases	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (pneumonia, COPD, bronchial asthma)
Examination of a patient with cardiovascular diseases	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (arterial hypertension, coronary heart disease, heart failure, atherosclerosis, rheumatic fever, valvular heart diseases)
Examination of a patient with gastrointestinal tract diseases	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (gastritis, ulcer, bowel diseases)
Examination of a patient with liver diseases	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (hepatitis, cirrhosis, cholecystits, gall stone disease)
Examination of a patient with kidney diseases	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (pyelonephritis, glomerulonephritis, chronic renal failure, chronic kidney disease, acute kidney injury)
Examination of a patient with hemopoietic organs diseases	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (anemia, leukemia)

Examination of a patient with endocrinologic disorders	Main complaints, physical examination (inspection, palpation, percussion, auscultation). Instrumental methods, laboratory methods. Main clinical syndromes. Main diseases (thyroid gland diseases, diabetes mellitus)
	(thyroid gland diseases, diabetes mellitus)

Assistant of the Department of Internal Medicine Propaedeutics	Avdoshina S.V.
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Head of the Department of Internal Medicine Propaedeutics

Avuosiina S.v.

Kobalava Zh.D.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Radiodiagnosis	
The amount of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Physical and technical fundamentals of radiation diagnosis	Types of radiation, their physical nature, methods based on various types of radiation. Properties of various types of radiation, the possibility of radiation research methods in the evaluation of various organs, systems, tissues. Know the schematic device of the x-ray apparatus, the principles of obtaining x-ray radiation, have an idea of the bremsstrahlung and characteristic radiation. Using the example of X-ray properties to understand the principles of imaging in radiation diagnostics.	
Radiation study of the lungs.	Diagnostic capabilities of various techniques. How to evaluate the X-ray image of the lungs by syndromes reflecting the morphological structures of the lungs. When analyzing the X-ray image of the lungs, determine the size of the pulmonary field by the symptoms: The position of the diaphragm, the state of the intercostal spaces, the position of the mediastinal organs. Assess the state of the lung parenchyma, which is seen in the images by the syndrome of "transparency" in the form of its increase, manifested by X-ray illumination and a decrease in manifested by X-ray darkening (shadow). Characterize the shadow or enlightenment by the symptoms adopted in	

	radiology: the number, shape, size, location, contours, structure, intensity, mobility and adapt them to the lungs.
Beam examination of the heart and blood vessels.	When analyzing the X-ray image of the heart, determine the state of the pulmonary pattern in order to identify signs of pulmonary hypertension. To assess the state of transparency of the pulmonary fields to determine hemosiderosis of the lungs. Studying the X-ray image of the heart itself to identify changes in hemodynamics, leading through changes in the chambers of the heart to increase or decrease the radiological arcs, which determine, in turn, the shape, position, size of the heart. Acquired heart defects, in particular, mitral and aortic, both pure and combined and combined, serve as an illustration of the principles of analysis. Reflect the identified changes in the study protocols.
Radiographic study of the digestive system	During analyzing the x-ray image to determine the phase of the study. In the relief phase, assess the condition of the mucosa in the norm of each section of the digestive tube. To reveal the signs of various departments of a healthy digestive canal in the phase of tight filling. Evaluate the functional symptoms (secretion, peristalsis, tone, evacuation) of the digestive tube.
Radiological examination of the osteo-articular system	Diagnostic capabilities of each of the methods used to assess the various components of the musculoskeletal system. Signs of recognition of the norm and pathology in the x-ray image. When analyzing an X-ray image, assess the condition of the soft tissues surrounding the bones and joints. - assess the joints detected in the pictures, - assess the condition of the periosteum, - evaluate the image of the bones according to the symptoms adopted in radiology
Fundamentals of radiation therapy.	Students are introduced to various types of radiation and their characteristics (x-rays, gamma rays, beta rays, inhibitory cures, protons and electrons in radiation therapy. The methods of radiation therapy (radical, palliative radiation therapy, remote, interstitial, intracavitary, contact, intravenous, same-sex and multi-field, small-fractional and large-fractional) and pathological processes in which they are used are considered. Complications of radiation therapy and methods for their prevention and treatment.

Associate Professor, Department of Oncology and X-ray Radiology,	Kunda M.A.
Associate Professor of the Department of Oncology and X-ray Radiology	Zapirov G.M.
Head of the Department of Oncology and X-ray Radiology	Kharchenko N.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Faculty Therapy
The amount of discipline	8 CU (288 hours)
	Course Description
Topics	Content of topics
Analysis of the chart history.	Curation of patients.
Pneumonia. Tuberculosis.	Features of modern classification, diagnosis and course of
Lungs' cancer. Pleurisy	pneumonia. Complications. Lesions of the pleura (pleurisy,
	hydrothorax, pneumothorax). Differential diagnosis.
	Antibiotic therapy, depending on the type of pathogen.
Bronchial asthma	Etiology. Pathogenesis. Clinical forms. Asthmatic status. Diagnostics. Treatment.
Chronic obstructive pulmonary	Etiology. Pathogenesis. Clinic. Respiratory failure.
disease. Respiratory failure.	Pulmonary hypertension. Chronic pulmonary heart.
Pulmonary hypertension.	Treatment.
Chronic pulmonary heart.	
Treatment.	
Rheumatism. Heart defects.	The main manifestations. Mitral heart detects. Diagnostics.
Infortivo andoparditio	A ortig defects Heart demoge Extragording manifestations
Infective endocarditis	Features of the current infectious endocarditis Diagnostics
	Treatment
Cardiomyopathy, Heart failure.	Subaortic stenosis, Etiology, Pathogenesis, Clinic, Acute
	heart failure, chronic heart failure. Diagnostics. Treatment.
Coronary heart disease	Risk factors. Forms of angina pectoris. Diagnostics.
	Exercises with physical activity: types, methods of
	conducting, indications and contraindications,
	interpretation. Treatment. Disorders of rhythm and conduction.
Acute Coronary Syndrome	Etiology. Pathogenesis. Typical and atypical forms.
	Classification, types of myocardial infarction. Diagnostics.
	Complications. Treatment.
Hypertonic disease	Diagnostics, classification, stratification by the risk of
	cardiovascular complications. Secondary hypertension.
	Clinical picture. Flow. Diagnostics. Treatment.
Diabetes	Etiology. Pathogenesis. Clinic. Classification. Diagnostics.
Naghaitia	Complications. Treatment.
inephritis	Giomerulonephritis. Classification. Principles of diagnosis
A guta damaga ta tha kidnava	and merapy. Pyelonephilus. Allyloidosis.
Chronic kidney disease	Complications Treatment Renal replacement therapy

Peptic ulcer and duodenal ulcer.	Etiology. Pathogenesis. Clinic. Classification. Diagnostics.
	Complications. Treatment.
Hepatitis.	Etiology. Pathogenesis. Clinic. Classification. Diagnostics.
	Complications. Treatment.
Cirrhosis of the liver. Alcohol	Etiology. Pathogenesis. Clinic. Classification. Diagnostics.
sickness.	Complications. Treatment.
Diseases of the small intestine.	Syndrome of impaired absorption (celiac disease, sprue,
	Whipple's disease, Crohn's).
Diseases of the large intestine.	Nonspecific ulcerative colitis. Acute colitis. Irritable bowel
	syndrome.
Diseases of the thyroid gland.	Diffuse toxic goiter. Hypothyroidism. Thyroiditis.
Diseases of the joints.	Rheumatoid arthritis. Differential diagnosis of ankylosing
	spondylitis, deforming osteoarthritis, gout.
Anemia	Iron-deficiency anemia. B12-deficiency anemia. Hemolytic
	anemia.
Leukoses are acute. Chronic	Etiology. Pathogenesis. Clinic. Classification. Diagnostics.
leukemia. Lympho-myeloid	Treatment.
leukemia.	

Associate Professor, Department of Internal Medicine with a cardiology course

and functional diagnostics them. Acad. V.S. Moiseeva Goreva L.A.

Goreva L.A.

Head of the Department of Internal Medicine with a course of cardiology and functional diagnostics named after V.S. Moiseeva

Kobalava Zh.D.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Occupational diseases
The amount of discipline	2 CU (72 hours)
Course Description	
Topics	Content of topics
Professional pathology of the respiratory system. Pneumoconiosis.	Introduction to the clinic of occupational diseases and its tasks. Issues of diagnosis and medical prevention. Pneumoconioses, classification. Silikatoza, anthracosis, pneumocania electric welders, aluminosis, pneumocanioses from the effects of plant dust. Berylliosis Dust bronchitis. Professional asthma. Bronchoallergosis.

Vibration disease. Noise sickness.	The clinical picture of the disease associated with the effects of local vibration and the combined effects of local and general vibration. Stage of the disease, diagnosis, treatment, prevention, prognosis
Occupational diseases of the musculoskeletal system.	Arthralgia, arthrosis, polyarthritis, aseptic necrosis of bones, bursitis, tendovaginitis, dyskinesia, periarthritis of the shoulder joint, shoulder epicondylitis, professional polyneuritis and radiculitis.
Poisoning in everyday life	Classification. Diagnostic methods. The main clinical syndromes. General principles of emergency treatment: prevention of further contact with poisons of its absorption, removal of poison from the body, antidotes, treatment of syndromes associated with intoxication. Acute poisoning with carbon monoxide, amido and nitro compounds, alcohol, hypnotics and tranquilizers, acids and alkalis. Intoxication with chemicals used in agriculture. Acute and chronic poisoning with organochlorine and phosphorus compounds, organic mercury compounds, aromatic hydrocarbons (benzene)

Associate Professor of Hospital Therapy with a course Clinical Laboratory Diagnostics Aleksandrova M.R.

Head of the Department of Hospital Therapy with a course clinical laboratory diagnostics

Ogurtsov P.P.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Hospital Therapy
The amount of discipline	11 CU (396 hours)
Course Description	
Topics	Content of topics
Cardiology	Hypertension, secondary hypertension, acute coronary syndrome, myocardial infarction, koronarogennye and noncoronary false angina, arrhythmias, and cardiac conduction, acquired heart disease, pericarditis, cardiomyopathy (hypertrophic, dilated, restrictive), myocarditis, infectious endocarditis, acute and chronic heart failure, atherosclerosis and dyslipidemia.

Pulmonology	Acute bronchitis and chronic obstructive pulmonary disease, intestinal and infiltrative lung diseases, bronchial asthma, pleural lesions (pleurisy, hydrothorax, pneumothorax, chronic respiratory failure, acute respiratory failure and acute respiratory distress adult syndrome, pulmonary hypertension syndrome, chronic pulmonary insufficiency, pulmonary hypertension syndrome, chronic pulmonary insufficiency and acute respiratory distress syndrome, pulmonary hypertension syndrome, chronic respiratory failure and acute respiratory distress syndrome of adults apnea.
Nephrology	Pyelonephritis, acute and chronic glomerulonephritis, acute kidney damage and chronic kidney disease.
Hematology	Acute leukemia, chronic myelo-and lymphoproliferative diseases, Hodgkin's lymphoma, iron deficiency anemia, anemia of chronic disease, megaloblastic and aplastic anemias, coagulopathy, paraproteinemic hemoblastosis.
Rheumatology	Rheumatoid arthritis, systemic scleroderma, antiphospholipid syndrome, systemic lupus erythematosus, periarteritis nodosa, dermatomyositis, acute rheumatic fever and chronic rheumatic heart disease, gout, deforming osteoarthritis.
Gastroenterology	Gastroesophageal reflux disease, functional dyspepsia and chronic gastritis, peptic ulcer and 12 duodenal ulcers, diseases of the small and large intestines, maldigestion syndrome and malabsorption syndrome, chronic pancreatitis, chronic hepatitis, cirrhosis of the liver, jaundice, ipt, and a combination of those who have the symptoms and if they are easily affected by the symptoms, they can become a subculture and will suffer from the development of liver disease.
Clinical laboratory diagnosis	Fundamentals of the organization of laboratory services. Areas of research, pathological and non-pathological variations of laboratory results, stages of laboratory research, molecular genetic diagnostic methods, genetic research in the diagnosis and prognosis of the development of multifactorial diseases, pharmacogenetics.

Associate Professor of Hospital Therapy with a course Clinical Laboratory Diagnostics

Aleksandrova M.R.

Head of the Department of Hospital Therapy with a course clinical laboratory diagnostics

Ogurtsov P.P.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of the discipline	Endocrinology
The amount of discipline	2 CU (72 hours)
Course Description	
Topics	Content of topics
Diabetes mellitus. Non severe disease. Treatment. Medical emergencies.	Diabetes mellitus, etiology, pathogenesis, classification, clinical and laboratorial diagnostic methods. Treatment. Insulin therapy.
	Medical emergencies in diabetology: diabetic ketoacidosis (DKA), nonketotic hyperosmolar coma, lactic acidosis and hypoglycemic coma.
Late complications of Diabetes mellitus.	Retinopathy, Nephropathy, Diabetic neuropathy, angiopathy, Diabetic foot. Manifestation stages, diagnostic criteria and treatment.
Diseases of the thyroid and parathyroid gland.	Thyroid disease. Hormonal and radioisotope studies, thyroid scan, thyroid ultrasound. Goiter: endemic and sporadic. Diffuse toxic goiter. Thyrotoxic crisis. Endocrine ophthalmopathy. Hypothyroidism. Hypothyroid coma. Acute suppurative thyroiditis. Subacute thyroiditis (de Quervain). Chronic fibrous thyroiditis (Riedel goiter). Autoimmune thyroiditis. Hyper and hypo parathyroidism.
Diseases of the hypothalamus	Cushing's disease: etiology, classification, clinical picture. Laboratory and instrumental diagnostic methods. Ectopic ACTH-syndrome. Acromegaly and Gigantism. Diabetes insipidus. Obesity. Panhypopitutarism.
Diseases of Adrenal gland.	Adrenal gland diseases; Primary hypocorticism. Acute adrenal insufficiency. Primary hyperaldosteronism (Conn's syndrome). Pheochromocytoma. Catecholamine crisis. Exogenous cushing syndrome.

Developers:

Associate Professor of Hospital Therapy with a course Clinical Laboratory Diagnosis

Kurnikova I.A.

Head of the Department of Hospital Therapy with a course Clinical Laboratory Diagnosis

Ogurtsov P.P

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of the discipline	Infectious diseases
The amount of discipline	9 CU (324 hours)
	Course Description
Topics	Content of topics
Speciality introduction	Theory of the general pathology of infectious diseases.
	Medical care of patients with infectious disease
	Ward rounds
	Medical case history analysis
Air borne infectious diseases	Influenza and other acute respiratory viral infections.
	Meningococcal infection
	Diphtheria
	Infectious mononucleosis
	Legionellosis Mycoplasma infection Herpetic infection
Gastro-intestinal infectious	Typhoid fever, paratyphoid A, B. Dysentery
disease	Cholera
	Viral gastroenteritis
	Amebiasis
	Foodborne diseases Salmonellosis Botulism
	Pseudotuberculosis Yersiniosis Enterovirus infections Viral
	hepatitis A
	Viral hepatitis E
Blood borne infectious diseases	Rickettsiosis. Typhoid fever Brill-Zinsser disease Endemic
	(flea) typhus.
	Systemic tick-borne borreliosis (Lyme disease)
	Malaria
	Tick-borne typhoid fever
Integumentary manifestations of	Viral hepatitis B
infectious diseases	Viral hepatitis D
	Viral hepatitis C
	Viral hepatitis G
	HIV infection
	Erysipelas
	Control test

Zoonoses.	Plague
	Tularemia Hemorrhagic fevers anthrax
	Tetanus
	Rabies
	Brucellosis
	Chlamydial infection. Ornithosis Ku fever
	Leptospirosis
	Protozoa. Visceral leishmaniasis Protozoa.
	Trypanosomiasis.
Syndrome diagnosis. Emergency	Syndrome of jaundice. Differential diagnostics
conditions in infectious diseases.	Diarrheal syndrome. Differential diagnostics.
	Meningeal syndrome. Differential diagnostics.
	Respiratory syndrome. Differential diagnostics.
	Exanthemes and enanthems in infectology. Differential
	diagnosis of rashes.
	Emergency conditions in infectious diseases. Hypovolemic
	shock. Infectious-toxic shock.
	Meningitis. Edema is the swelling of the brain.
Helminthiases (worm infections)	Nematodose. Ascaridosis
	Trichocephalosis
	Enterobiosis Ankylostomidosis
	Strongyloidosis Trichinosis Filariatosis
	Cestodoza.

Associate Professor, Department of Infectious Diseases with courses of epidemiology and phthisiology.

Voznesensky S.L.

Head of the Department of Infectious Diseases with courses of epidemiology and phthisiology

Kozhevnikova G.M.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Phthisiatry
The amount of discipline	5 CU (180 hours)
	Course Description
Topics	Content of topics
Introduction to the specialty	 History of phthisiology. Epidemiology of tuberculosis in the world and the Russian Federation. The etiology of tuberculosis, the species properties of the office. Pathogenesis of tuberculosis. The concept of the disease and latent tuberculosis infection.
Prevention of tuberculosis.	Pathomorphology of tuberculous inflammation. Social prevention of tuberculosis. Immunization against tuberculosis, characteristic of anti- tuberculosis immunity. Work in the foci of tuberculosis infection. Chemoprophylaxis of tuberculosis. Tuberculosis infection control
Early detection of tuberculosis.	Measures for the early and timely detection of adult tuberculosis. Measures for early and timely detection of tuberculosis in children and adolescents.
Diagnosis of tuberculosis	Complaints suspicious of tuberculosis, especially respiratory and intoxication syndromes in tuberculosis. Microbiological diagnosis of tuberculosis. X-ray diagnostics of respiratory tuberculosis. Laboratory and instrumental methods for the diagnosis of tuberculosis. Diagnostic algorithm for examining a patient with suspected tuberculosis. Immunological methods for the diagnosis of tuberculosis (Mantoux reaction, diaskintest, IGRA tests).
Organization of tuberculosis care. Treatment of tuberculosis.	Tuberculosis dispensary: goals, objectives, structure, functions. Group dispensary tuberculosis patients. Foci of tuberculosis infection. Anti-epidemic measures in the outbreaks. Treatment of tuberculosis: anti-TB drugs, chemotherapy regimens.

Classification of tuberculosis	Classification of tuberculosis (Russian, WHO, ICD-10).
Primary tuberculosis in	Primary tuberculosis in children: clinical forms, features of
children and adolescents.	diagnosis and course.
Secondary respiratory	Clinical and radiological characteristics of limited forms of
tuberculosis.	tuberculosis: focal, tuberculoma.
	Clinical and radiological characteristics of infiltrative
	tuberculosis.
	Clinical and radiological characteristics of disseminated
	tuberculosis.
	Clinical and radiological characteristics of caseous
	pneumonia.
	Clinical and radiological characteristics of cavernous
	tuberculosis.
	Clinical and radiological characteristics of chronic forms of
	tuberculosis: fibrous-cavernous and cirrhotic.
Beyond Thoracic Tuberculosis.	Pathogenesis of extrathoracic tuberculosis.
	Tuberculous meningoencephalitis.
	Tuberculosis of the genitourinary system.
	Osteo-articular tuberculosis.
	Abdominal tuberculosis.
	Peripheral lymph node tuberculosis.
Tuberculosis in special	Clinical and radiological features of tuberculosis in patients
situations	with HIV infection, depending on the degree of
	immunosuppression.
	Features of diagnosis of tuberculosis in patients with HIV
	infection.
	Tuberculosis during pregnancy: features of the course,
	diagnosis, management.
	Tuberculosis and diabetes.
	Tuberculosis in individuals receiving cytotoxic and
	immunosuppressive therapy.

Associate Professor, Department of Infectious Diseases with courses of epidemiology and phthisiology	Zimin V.N.
Head of the Department of Infectious Diseases with courses of epidemiology and phthisiology	Kozhevnikova G.M.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Outpatient therapy				
The amount of discipline	10 CU (360 hours)				
Course Description					
The name of sections (themes)	The s	ummary of discipline:			
of discipline					
Organization of the work of	1.	The general principles of the organization of the			
outpatient clinics.		outpatient clinics. Organization and content of			
Organization of the local therapist		work of therapeutic department clinics.			
and general practitioner work.	2.	Organization of the local therapist and general			
		practitioner.			
Diseases and syndromes common in	1.	Fever and low-grade fever in			
outpatient therapist and general	2.	outpatient practice. Differential diagnosis. Management			
practitioner. Primary and differential	l	of patients.			
diagnosis, patient	3.	Interpretation of blood count in outpatientpractice,			
managementtactics. Urgent Care.		highlighting the main syndromes and initial diagnosis.			
Indications for hospitalization.		Anemic syndrome.			
Treatment. Examination of	4.	The interpretation of urinalysis. Urinary Syndrome.			
disability. Clinical supervision.		Urogenital diseases in general practice.			
Rehabilitation. Spa treatment.	5.	Respiratory diseases in outpatient practice. Diseases of			
		the circulatory system in theoutpatient practice.			
	6.	Diseases of the digestive system in the outpatient			
	7	practice.			
	/.	Endocrine, nutritional and metabolic			
	0	Articular sundrome in outpatient practice.			
	0. 0	Somatoform disorders in general practice.			
	9.	Headachesundromeingeneralpractice			
	10.	The role of the doctor's clinic in detecting			
	11.	cancer. Keeping cancer patients at different			
		stages of the disease			
	12	Alcohol poisoning and alcoholic disease in			
	12.	the practice of the local therapist.			
	13.	Iatrogenicillnessinoutpatient practice. Drug-			
		induced diseases.			

Features of the course and treatment of somatic diseases in people of different age and gender groups in outpatient practice.	 Features of the course and treatment of somatic diseases in people of different age groups inoutpatient practice. Features of the course and treatment of somatic diseases during pregnancy and problem therapist clinics in the conduct of normal pregnancy. Requirements for the organization of outpatient reception and recording and reporting of different age and social groups.
Methods of drug and non- drug therapy in outpatient practice. Preventative work at polyclinics.	 Rationalantibiotictherapyinoutpatient practice. Herbal medicine in the GP. Diseases prevention at the stage of polyclinics.

Associate Professor of the Department of General Med	ical Practice Rusanova E.I.
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Head of the General Practice Department

Sturov N.V.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	General surgery			
Volume of discipline	6 points of credit (216 hours)			
Course Description				
Topics	Content of topics			
1. General surgery issues	Bleeding, blood loss.			
	Blood products and components			
	Blood transfusion			
	complications.			
	Asepsis. Asepsis. Antisepsis. Bleeding.			
	Hemotransfusion. Preoperative and			
	postoperative periods. Operation. Wounds.			
	Burns. Burn disease.			
	Frostbites. Necrosis. Ulcers.			
	Fistulas.			
	Plastic surgery.			
	Principles of surgical oncology.			
	Local anesthesia. Novocaine blocks			
2 Particular issues of surgery	Local and General reaction of the body to			
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2. 1 di ticului ibbuch vi buigery	infaction Surgical consis			
	Drin sigled sepsis.			
	Principles of treatment of purulent infection			
	Purulent diseases of soft tissues (furuncle,			
	carbuncle, hydradenitis, erysipelas, abscess,			
	phlegmon).			
	Acute inflammation of lymphatic and venous vessels			
	(lymphangitis, lymphadenitis, acute			
	thrombophlebitis). Purulent inflammation of parotid			
	glands and breast (acute parotitis, acute mastitis).			
	Acute paraproctitis.			
	Purulent diseases of fingers and			
	hand. Osteomyelitis.			
	Chest purulent infection (pleural			
	empyema). Peritonitis.			
	Anaerobic infection (clostridial and non-			
	clostridial infection, tetanus).			
	Closed soft-tissue injuries.			
	Fractures and			
	dislocations.			
	Closed craniocerebral injury (concussion,			
	contusion, brain compression).			
	Chest trauma (pneumothorax,			
	hemothorax). Abdominal trauma.			
	Special diagnostic methods in surgery.			

Associate Professor, Department of Surgery Professor Head of the Department of Surgery PhD . A.A. Barkhudarov MD Professor. A.E. Klimov

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Anesthesiology, Resuscitation, Critical Care	
The amount of discipline	3 CU (108 hours)	
Course Description		
Topics	Content of topics	
Анестезиология. Fundamentals of modern anesthesiology.	Aim and tasks of anesthesiology aid. Classification of modern methods of anesthesiology. Local anesthesia. General anesthesia. Procedure Advantages and disadvantages, Indications and contraindications. Dangers and complications, their prophylaxis and treatment.	

Pain syndrome. Acute and chronic pain.	Modern conception of pain. Pharmacologic agents, administered for pain management. Pain management in the post-operative period. Chronic pain syndrome management.	
Reanimatology. Fundamentals of modern reanimatology. Cardiopulmonary resuscitation. Post- resuscitation period.	Methods of airway patency recovery.Basic Cardiopulmonary resuscitation algorithm Diagnostics of brain death. Craniocerebral hypothermia.	
Intensive therapyAcute respiratory distress	Intensive therapy of ARDS. Respiratory support.Selecting the ventilation parameters. Indications for Mechanical ventilation. Procedures.	
Acute cardio- vascular insufficiency.	Intensivetherapyofacutecardio-vascularinsufficiency. Central hemodynamics monitoring. Inotropic and vasoactive agents administration.	
Modern aspects of infusion- transfusion therapy.	Volemic status evaluation. Infusion- transfusion therapy indication. Infusion agents. Basis and correction of infusion- transfusion therapy. Transfusion of packed red blood cells and blood components. Centralveincatheterization.	
Homeostasis	Etiology and pathogenesis of acid base disturbances. Types of disturbances. Diagnosis of disturbances. Corrective methods in acid base shifts. Aqueous sector: volume and ionic content. Electrolyte balance regulation. Diagnosis of disturbances. Osmolality. Electrolyte disturbances prophylaxis and correction.	
Shock. Extracorporeal methods of treatment.	Classification of shock. Clinical picture. Diagnosis. Intensive therapy. Extracorporeal methods of treatment.	
Acute disorders of consciousness. Intensive therapy of comatose state.	Classification of comatose state. Primary diagnostics algorithm and treatment of comatose state. Level of consciousness evaluation. Monitoring. General principles of comatose state intensive therapy. Cerebral edema therapy.	
Sepsis. Infection in ICU.	Sepsis. Clinical manifestations. Diagnostics. Modern principles of antibiotics therapy. Intensive therapy.	
Artificial feeding in critical state	Diagnosis of nutritional insufficiency. Evaluation of energy requirements and contents of artificial nutrition. Effectiveness of artificial nutritional therapy. Algorithm and protocol of nutritional support in the ICU.	

Associate Professor, Department of Anesthesiology and Intensive Care

with a course of medical rehabilitation

Moroz V.A.

Head of the Department of Anesthesiology and Intensive Care

with a course of medical rehabilitation

Petrova M.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Faculty Surgery	
Volume of discipline	5 points of credit (180 hours)	
	Course Description	
Topics	Content of topics	
Particular issues of surgery	 Appendicitis. Acute appendicitis. Clinic. Diagnostics. Treatment. Complications of appendicitis. Clinic. Diagnostics. Treatment. Chronic appendicitis. Clinic. Differential diagnosis. Indications for surgery. Hernias. The General notion about hernias. Types of hernias. Inguinal hernia. Congenital inguinal hernias. Femoral hernias. Umbilical and hernia of the white line of the abdomen. Anatomy. Differential diagnosis Clinic. Surgical treatment. Strangulated hernia. Views. Clinic. Diagnostics. Treatment. Clinic, diagnosis. Features of operational equipment. Bowel disease. Crohn disease. Ulcerative colitis. Clinic. Diagnostics. Treatment. Complications. Diverticulosis of the large intestine. Complications. Diverticulosis of the large intestine. Complications. Diverticulosis of the large intestine. Complications. Diagnostics. Treatment. Breast disease. Benign breast tumors. Views. Method of treatment. Liver disease. Liver cancer. Views. Diagnostic method. Treatment. Portal hypertension syndrome. Cirrhosis. Diagnostics. Complications. Clinic. Treatment. Diseases of the stomach and duodenum. Gastric and duodenal ulcer. Conservative therapy. Indications for surgical treatment. Methods of surgical treatment. Complications of duodenal ulcer. Clinic. Diagnostics. Treatment. Stomach cancer. Classification. Clinic. Diagnostics. Treatment. Stomach cancer. Classification. Clinic. Diagnostics. Treatment. Methods of surgical treatment. Complications of duodenal ulcer. Clinic. Diagnostics. Treatment. Stomach cancer. Classification. Clinic. Diseases of the rectum. Hemorrhoids. Complications. Diagnostics. Treatment. Diseases of the rectum. Hemorrhoids. Complications. 	

Atherosclerosis of vessels of the lower extremities Clinic	
Diagnostics Treatment Complications Differential	
diagnostics. Heatinent. Completations. Differential	
of the lower extremities	
Of the lower extremities.	
9. Invroid disease. Invrotoxic goiter. Clinic.	
Diagnostics. Ireatment.	
Graves disease. Clinic. Diagnostics. Treatment.	
Endemic goiter. Classification, diagnosis. Treatment,	
prevention. Complications of thyroid surgery.	
10. Calculous cholecystitis. Acute cholecystitis.	
Clinic. Diagnostics. Treatment. Complications of	
cholecystitis.	
Chronic cholecystitis. Clinic. Diagnostics. Treatment.	
Type of operation.	
11. Intestinal obstruction. Classification. Clinic.	
Methods of conservative and surgical treatment.	
Mechanical and dynamic intestinal obstruction.	
Classification. Reasons. Views. Clinic. Diagnostics.	
Treatment	
12. Mechanical jaundice. Reasons. Diagnostic	
method. Treatment.	
13. Pancreatitis. Acute pancreatitis. Classification.	
Clinic. Diagnostics. Treatment. Complications.	
Chronic pancreatitis. Classification. Clinic. Methods of	
diagnosis and surgical treatment.	
14. Peritonitis. Classification. Etiopathogenesis.	
Clinic. Treatment. Ways to reduce mortality.	
15. Special research methods. Methods of endoscopic	
diagnosis of diseases of the digestive system. Modern	
methods of early diagnosis of tumors of the digestive tract.	
X-ray contrast methods for the study of bile ducts.	

Associate Professor, Department of Surgery Professor Head of the Department of Surgery

PhD . A.A. Barkhudarov MD Professor. A.E. Klimov

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of the disciplineUrologyThe amount of discipline2 CU (72 hours)Course Description

The amount of discipline 2 CU (72 hours)		
	Course Description	
Topics	Content of topics	
Fundamentals of social hygiene and organization of care for patients with urological diseases in the Russian Federation	Introduction to the specialty of urology. History of development of urology. Organization of specialized surgical care for patients with cardiovascular diseases. Features and forms of organization of care for patients with urological diseases in specialized hospitals. The organization of emergency urological care for patients with acute diseases and injuries of the urogenital system. Medical labor examination and rehabilitation of patients with urological diseases. Temporary disability. Terms of temporary disability and criteria for their duration in urological diseases. Organization of the examination of temporary disability. The concept of disability. Criteria for determining the disability groups of urological patients. Causes of disability of patients with surgical diseases of the genitourinary system. Rehabilitation of urological patients and disabled. Medical ethics and deontology. Features of ethics and deontology in urology, transplantology. The legal basis of the limits of resuscitation.	
Physiological and clinical principles of urology	Basics of clinical physiology and pathophysiology. Genitourinary system. Water and electrolyte metabolism. Acid-base balance. Clinical pharmacology. Cardiac glycosides. Inotropic drugs. Antispasmodics. Diuretics. Antibacterial drugs. Drugs that affect hemostasis. Blood products and blood substitutes. Interaction and compatibility of drugs. Formation of the diagnosis and indications for surgery. Classification of the main diseases of the urogenital system.	
Surgical anatomy and operative surgery of the kidneys, urinary tract and male genital organs	Surgical anatomy of the retroperitoneal space. Surgical anatomy of the scrotum organs. The lumbar region, muscles, blood supply, lymph flow and innervation. Bladder, blood supply, lymph flow, innervation. Surgical anatomy of the penis. Prompt access to the kidney, bladder.	

Methods of diagnosis of diseases of the kidneys and urinary tract	Symptoms of urological diseases. Qualitative and quantitative analyzes of urine. Blood tests. Sample Reberg- Tareeva. Bacteriuria, determination of urine microflora sensitivity. Radiographic methods of diagnosis in urology: excretory urography, antegrade and retrograde urography, cystography, urethrography. Modern diagnostic methods: computed tomography, MSCT, MRI, angiography. Isotopic research methods in urology. The history of the development of endoscopic research methods in urology: urethroscopy, cystoscopy, ureteroscopy, nephroscopy. Ultrasound diagnostic methods.
Nonspecific inflammatory diseases of the kidneys and urinary tract, organs of the scrotum, penis	Acute pyelonephritis: etiology, pathogenesis, clinic, diagnosis and treatment. Pyelonephritis in pregnant women: pathogenesis, clinical features, diagnosis and treatment. Complications of acute pyelonephritis. Chronic pyelonephritis. Pararanephritis: etiology, pathogenesis, clinical presentation, diagnosis and treatment. Ormond disease. Acute cystitis: etiology, pathogenesis, clinic, diagnosis and treatment. Chronic cystitis. Acute prostatitis: etiology, pathogenesis, clinic, diagnosis and treatment. Chronic prostatitis. Acute non-specific urethritis: etiology, pathogenesis, clinic, diagnosis and treatment. Epididymitis: etiology, pathogenesis, clinic, diagnosis and treatment. Orchitis: etiology, pathogenesis, clinic, diagnosis and treatment. Balanoposthitis.
Urolithiasis disease	Etiology, pathogenesis, clinic, diagnosis of urolithiasis. Modern theories of stone formation. Renal colic: the mechanism of development and methods of stopping renal colic. Conservative therapy. Surgical treatment depending on the location of the calculus. Remote lithotripsy: indications, contraindications, complications. Endoscopic treatment of urolithiasis. Urolithiasis Metaphilic
Benign prostatic hyperplasia, prostate cancer.	Causes of benign prostatic hyperplasia (BPH). Features of the clinical picture, depending on the stage of BPH, complications. Conservative treatment of BPH. Surgical treatment of BPH: transvesicular adenomectomy, retropubic adenomectomy. Transurethral electrosurgical and other modern methods of surgical treatment of BPH. Postoperative complications, possible methods of their prevention and treatment. Causes of prostate cancer, pathogenesis and clinical features. Modern methods of diagnosis of prostate cancer. Conservative treatment methods. Surgical treatment.
Tumors of the kidneys and bladder	Etiology and pathogenesis of kidney parenchyma tumors and renal pelvis, clinical features. Modern methods of diagnosis of kidney tumors. Algorithm for examining patients with kidney tumors. Features of diagnosis of a tumor of the renal pelvis. Symptom Shevassu. Features of surgical treatment of patients with tumor thrombus in the renal vein, inferior vena cava. Features of surgical treatment of patients with a renal pelvis tumor. Modern minimally invasive treatment methods.

Acute renal failure, chronic renal failure, hemodialysis, peritoneal dialysis, kidney transplantation	Causes of acute renal failure, clinical presentation, diagnostic features. Stages of development of the disease, features of therapy, depending on the stage of development of the process. Chronic renal failure: causes of development, clinical picture, modern classification. Features of treatment
	depending on the stage of development of the process. Hemodialysis: the history of the creation of a method of treatment, the importance of this technique for modern medicine and its use for the treatment of acute and chronic diseases. Peritoneal dialysis: the history of the creation of methods, indications and contraindications, methods of use. Kidney transplantation: ethical, medical and legal aspects, the importance of the achievements of pharmacology in solving the problem, especially the surgical technique.
Hydronephrosis, nephroptosis, orthostatic varicocele, hydrocele.	Hydronephrosis: causes of development, classification, clinic diagnosis, treatment. Rehabilitation of patients with postoperative period Nephroptosis: causes of development, clinical presentation, diagnosis, treatment (Rivoir operation in Pytel-Lopatkin modification). Orthostatic varicocele: causes of development, clinical presentation, diagnosis, treatment. Hydrocele: causes of development, clinic, diagnosis, treatment.
Tuberculosis of the kidneys, ureters, bladder	Etiology and pathogenesis of urogenital tuberculosis, clinical presentation, diagnosis. Features of treatment of the disease, depending on the stage of development of the process. Features of the pathogenesis of ureteric tuberculosis, clinic, diagnosis, treatment. Bladder tuberculosis: clinic diagnosis, treatment.
Trauma to the kidneys, ureters, bladder and urethra. Male infertility. Erectile disfunction.	Trauma kidney: clinic, diagnosis, classification. Features of treatment depending on the degree of damage to the kidney. Ureteral injury: clinic diagnosis, treatment. Features of the development of intraperitoneal and extraperitoneal rupture of the bladder, clinic diagnosis, treatment. Urethral trauma: injury mechanism, clinic, diagnostic features, treatment. Primary suture of the urethra: indications and contraindications. Features of surgical treatment of post- traumatic strictures of the urethra, depending on their localization.

Professor, Department of Urology and Operative Nephrology with a course of oncourology	Kostin A.A.
Professor of the Department of Urology and Operative Nephrology with the course of oncourology	Vinogradov I.V.
Head of the Department of Urology and Operative Nephrology with the course of oncourology	Kaprin A.D.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Hospital Surgery, Pediatric Surgery	
The amount of discipline	10 CU (360 hours)	
	Course Description	
Topics	Content of topics	
Abdominal Surgery.	Acute appendicitis. Peritonitis. Compartment syndrome. Acute cholecystitis. Liver abscess. Cholecystopancreatitis. Liver failure. Acute pancreatitis. Chronic pancreatitis. Liver injury. Cysts, abscesses and tumors of the liver. Echinococcosis, alveococcosis. Peptic ulcer and duodenal ulcer. Dumping syndrome. Hypoglycemic syndrome. Anemia. Alkaline reflux gastritis, reflux esophagitis. Non-healing or recurrent ulcers after vagotomy. Ulcerative colitis and Crohn's disease. Intestinal bleeding. Classification of intestinal obstruction	
Thoracic Surgery.	Semiotics of chest wall diseases. Diagnostic methods: non-invasive and invasive. Methods of surgical treatment. Surgical accesses. Inflammatory diseases: non-specific and specific. Chest wall tumors: benign and malignant. Congenital malformations of trachea. Traumatic injuries of the trachea. Tracheal stenoses: primary and secondary (compression), expiratory stenosis. Acquired esophageal-tracheal fistula. Tracheal tumors. Nonspecific inflammatory diseases of the lungs. Specific inflammatory diseases of the lungs. Bronchiectasis. Congenital malformations of the esophagus. Benign tumors of the esophagus. Esophageal carcinoma. Cysts and tumors of the diaphragm.	
Cardiovascular Surgery.	Anatomical and physiological information about the cardiovascular system. History of Cardiovascular Surgery. Semiotics and classification of cardiovascular diseases. Non-invasive diagnostic methods. Invasive diagnostic methods. Methods of surgical treatment of vascular diseases. Surgical accesses. Vascular suture. Artery operations. The basic principles of surgical interventions on the heart. Interventional cardiology.	
Pediatric Surgery.	Anatomical and physiological features of the child's	

body. The principal differences in pediatric surgery.	
Features of examination of young children and	
newborns. Syndromology. General embryology and	
teratology. Features of the children's surgeon. Intensive	
therapy and reanimation of children's age. Etiology and	
pathogenesis of childhood surgical infection.	

Associate Professor of Hospital Surgery	Manzhos P.I.
Associate Professor of Hospital Surgery	Chinikov M.A.
Associate Professor at the Department of Hospital Surgery	Baranovich V.Yu.
Associate Professor of the Department of Hospital Surgery	G.I. Retunik
Head of the Department of Hospital Surgery	Faybushevich A.G.

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Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Dentistry
The amount of discipline	2 CU (72 hours)
Course Description	
Topics	Content of topics
Introduction to the course of dentistry.	The goals and objectives of the discipline. The role and place of the dentist in clinical medicine. Manifestations in the oral cavity of some common diseases (demonstration and analysis of rare clinical cases from the experience of the department, requiring general clinical training of dentists). Algorithm of diagnostics and meddisciplinary interaction. Principles, features of treatment. (Symptomatic and pathogenetic therapy)
Manifestations of somatic diseases in the mouth.	Manifestations in the mouth of diabetes mellitus, arterial hypertension, blood diseases, HIV infection.
Providing dental care to patients with cardiac pathology.	Features of the examination of cardiac patients. Clinical experience of the department. Long-term results of clinical observations.

Review of modern means and methods of radiological diagnosis of head and neck organs.	The main objectives and principles of radiation diagnosis in the mouth. Types of radiation studies (CT, MRI, PET CT, Osteoscintigraphy)
The role of the dentist in solving interdisciplinary tasks.	Analysis of complex clinical cases using telemedicine tools and methods. Demonstration of the clinical material of the department (including live transmission of clinical situations from the RCRD).
Clinical modeling of outpatient situations requiring dental surgery.	Clinical modeling of the use of composite materials to eliminate the defects of hard tissues of teeth of different origin. Clinical modeling of the restoration of teeth using crowns, veneers and tabs. Demonstration of the possibilities of dental photography on clinical examples from the professional experience of a general dentist.
Clinical aspects of calcium metabolism in the body. The role of calcium in the prevention of dental diseases.	Clinical aspects of calcium metabolism in the body. The role of calcium in the prevention of dental diseases.
Clinical aspects of immunity in the oral cavity. Protective and barrier functions of the oral mucosa.	Clinical aspects of immunity in the oral cavity. Protective and barrier functions of the oral mucosa.

Assistant of the Department of General and Clinical Dentistry	y Gvozdikova E.N.

Head of the Department of General and Clinical Dentistry

Avanesov A.M.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Oncology, Radiotherapy
The amount of discipline	3 CU (108 hours)
Course Description	
Topics	Content of topics
Lung cancer	Modern instrumental, morphological and laboratory diagnosis of lung cancer, stages according to the TNM system. Indications and contraindications for planning and conducting surgical, radiation and drug treatment. Monitoring and rehabilitation of patients after treatment.

Breast cancer. Stomach cancer	 Epidemiology and prevalence of breast cancer. A modern instrumental, morphological, laboratory diagnosis, including immunohistochemical and genetic studies, is presented. Modern radical surgical interventions, plastic surgery on the mammary gland are presented. The indications for radiotherapy and polychemotherapy are determined. hormone therapy. Provides data on the diagnosis of gastric cancer, including x-ray, endoscopic, laboratory methods. The current data on the morphology of gastric cancer is presented. The issues of early gastric cancer, as well as TNM classification are considered. The types of radical and palliative operations are determined depending on the location of the tumor and its prevalence along the wall of
	the stomach. Presented modern drug therapy of gastric cancer, radiation therapy.
Esophageal carcinoma.	Modern diagnostics of esophageal cancer, allowing to determine the stage and prevalence of the pathological process. Modern surgical, radiation and drug treatments, monitoring and rehabilitation of patients are presented.
Colon cancer.	Provides data on modern instrumental, laboratory diagnosis of cancer of the colon and rectum. The issues of radical, cytoreductive and palliative surgery of colon cancer are considered depending on the tumor localization. Indications for chemotherapy and targeted therapy.
Lymphogranulomatosis.	Modern classifications of lymphomas are considered. Presents diagnostic methods and morphological features of lymphoma granulomatosis. Classification of the pathological process, modern chemotherapy, radiation therapy, complex treatment, rehabilitation
Liver cancer and pancreatobiliary cancer.	Modern data on diagnostics, features of the course of pancreatibiliary cancer and liver cancer are presented. The issues of elimination of tumor jaundice, preparation of patients for treatment: surgical, combined and complex. Features of the course of pancreatobiliary cancer and liver cancer. Long-term results.
Skin cancer and melanoma.	The statistical and epidemiological issues of skin cancer and melanoma are presented. The features of the development and metastasis of tumors are considered. Modern surgical, radiation and drug approaches to the treatment of these diseases. Features of metastasis and course of melanoma.
Chemotherapy of malignant neoplasms.	Modern drug therapy of human malignant neoplasms. The classification of drugs, their mechanisms of action and the importance of various drugs in private oncology.
Radiotherapy of malignant neoplasms.	Issues of modern use of various radiations for the treatment of malignant processes. The types of radiation and their use in various malignant tumors are presented. Modern methods of treatment on particle accelerators and interstitial therapy. Intravenous radiation therapy.

Thyroid cancer.	Statistics and epidemiology of thyroid cancer. The
	morphological structure of tumors. Clinical course. Radical
	operations. Remote and intravenous cancer therapy.
	Hormone replacement.

Associate Professor, Department of Oncology and X-ray Radiology,	Kunda M.A.
Associate Professor of the Department of Oncology and X-ray Radiology	Zapirov G.M.
Head of the Department of Oncology and X-ray Radiology	Kharchenko N.V.

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Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Traumatology & Orthopedics
The amount of discipline	6 CU (216 hours)
Course Description	
Topics	Content of topics
General questions of	History of traumatology and orthopedy development. Bone
traumatology.	tissue regeneration. Types of trauma and trauma care organization.
Principes of pediatric and adult	Methods of evaluation. Basic principles of treatment in
traumatology.	traumatology and orthopedy. Treatment features in different
	age groups.
Injuries of the hip joint and	Fractures of the head and neck of the femur. Fractures of
femur.	trochanterian part of the femur. Fractures of the
	acetabulum. Soft tissue injuries of the hip.
Disorders of kne-joint, ankle,	Fractures of the bones of knee-joint (paraarticular and
foot.	intraarticular condyles fractures of femur and tibia, patella
	fractures). Knee-joint soft-tissue disorders. Bone and soft-
	tissue damage of shin. Trauma of ankle- joint. Trauma of
	heel-bone, metatarsal and tarsal bones, phalanxes, soft-
	tissue foot disorders.
Upper-extremities traumas.	Bone and soft-tissue hand trauma (hand bones fractures and
	dislocations, hand tendons and muscles impairment).
	Scapula, clavicle, humeral disorders, humeral-joint soft-
	tissue disorders. Bone and soft- tissue injuries of elbow.
	Forearm and wrist bone and soft-tissue disorders.

Open, complicated and shoot	Open and shoot fractures. Complicated fractures (fractures
fractures.	with inner organs damage, neuro-vascular damage, infected
	fractures). Classification. Diagnostics. Treatment.
Polytrauma, multiple trauma,	Polytrauma. Multiple trauma. Combined trauma.
combined trauma.	Classification. Diagnostics. Treatment.
Spinal injuries. Brain injury.	Spinal injuries (vertebra fractures and dislocations, vertebra
	arcs and processes injury on different levels). Close brain
	injury. Open brain injury.
Thoracic and pelvic injuries.	Isolated pelvic injuries (pelvic column fractures,
	combination with pelvic inner organs injuries). Isolated and
	combined thoracic bone fractures (rib fractures, hemo-
	pneumothrax, heart injury, mediastinum.
Osteoarthrosis.	Osthearthrosis of big and small joints, posttraumatic
	osteoarthrosis. Classification. Diagnostics. Treatment.
Ostearthritis.	Specific and non-specific arthriris (septic, rheumatoid
	arthritis).
Arthroplasty.	Modern types of implants of large joints, tribology. Hip
	arthroplasty. Knee and shoulder arthroplasty. Big joints
	arthroplasty.
Osteochondrosis.	Degenerative spine diseases. Spondylolisthesis.
	Spondilodesis. Scheuermann-Mau disease. Kifo-scoliotik
	deformities.
Child orthopedy.	Hip dysplasia. Congenital lower extremities deformities.
	Congenital upper extremities deformities. Congenital
	muscular torticollis. Clubfoot. Clubhand. Osteogenesis
	imperfecta.
Skeletal deformities.	Deformity of the foot. Valgus deformity of the 1st toe.
	Plano-valgus foot. Varus, valgus deformity of the shin.
	Treatment of posttraumatic deformities of the long bones.
Skeletal tumors.	Benign skeletal tumors. Malign skeletal tumors.
Arthroscopy	Arthroscopy knee, shoulder, hip and other joints.
Tuberculosis, poliomyelitis.	Tuberculosis, tuberculosis spondylitis. Poliomyelitis.
Osteoporosis. Modern opinion	Osteoporosis. Mineral supply disorders. Clinic, diagnosis.
and treatment.	Osteoporosis complications. Modern concept for
	osteoporosis treatment.

Professor of the Department of Traumatology and Orthopedics	Lazko F.L.
Associate Professor of the Department of Traumatology and Orthopedics	Prizes A.P.
Head of the Department of Traumatology and Orthopedics	Zagorodniy N.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Obstetrics and gynecology
The amount of discipline	14 CU (504 hours)
	Course Description
Topics	Content of topics
Gynecology	Operative obstetrics
	Propaedeutics of gynecologic diseases Inflammatory diseases
	of female genital system Disorders of menstrual function
	Pathology of the perimenopopausal period Infertility and
	family planning
	Benign tumors of genital system
	Myoma uteri
	Hormonal disorders of breast
	Protumoral and tumoral disasses of conitals Tranhablastic
	disease
	Impairments of development of genitals organs Anomalies of
	genital organs position
	Female diseases of urinary system
	Typical gynecologic operations
	Emergency care in gynecology
Physiological obstetrics	Clinical anatomy and physiology of female reproductive
	system. Physiology of pregnancy. Physiology of labor.
	Physiology of the postnatal period and period of a neonatality
Pathological obstetrics	Pathological pregnancy
	Pathology of childbirth
	Maternal obstetric trauma
	Pathology of the postnatal period
	Physiology and pathology of the period of a neonatality
Operative obstetrics	Epidemiology, classification, conditions and indications for
	Obstetric operations.
	Casaraan sastion in modern obstatries
	Vecuum extraction
	vacuum extraction

Educational program 31.05.01 General medicine

Developers:

Associate Professor at the Department of Obstetrics and Gynecologywith a course of perinatologyLebedeva M.G.Head of the Department of Obstetrics and Gynecologywith a course of perinatologywith a course of perinatologyRadzinsky V.E.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Pediatrics
The amount of discipline	10 CU (360 hours)
	Course Description
Topics	Content of topics
Development, growth and nutrition of the child. Propedeutics of childhood diseases.	The organization of medical and preventive care for children. Fundamentals of the organization of the children's hospital and specialized pediatric care. Periods of childhood. Nutrition children. Physical and sexual development. Age-related morphological and functional features of organs and systems.
Neonatology. Diseases of newborns and young children	Introduction to Perinatology. Physiology and pathology of the newborn. Border conditions of newborns. Principles of rational feeding of newborns. Jaundice of newborns. Birth injury.Perinatal lesions of the nervous system.
Allergology. Allergic diseases.	Diseases of the upper respiratory tract. Lower respiratory tract infections: acute bronchitis, bronchiolitis, pneumonia. Chronic lung disease in children. Bronchial asthma. Diseases of the circulatory system.
Diseases of the cardiovascular system in children	Congenital heart defects and large vessels. Diseases of the myocardium and pericardium.
Rheumatology	Rheumatic fever. Diffuse connective tissue diseases: systemic lupus erythematosus, juvenile rheumatoid arthritis, juvenile dermatomyositis, systemic scleroderma. Systemic vasculitis.
Gastroenterology	Diseases of the digestive system
Nefrology	Diseases of the urinary system in children
Hematology. Blood diseases in children.	Hematopoietic diseases, hemorrhagic and thrombotic diseases
Endocrinology	Endocrine diseases in children
Infectious diseases in children	Infectious exanthema. Bacterial meningitis and meningoencephalitis. Herpesvirus infections. Acute intestinal infections. Malaria, HIV infection, tuberculosis, hemorrhagic fevers

Educational program 31.05.01 General medicine

Developers:

Professor of the Department of Pediatrics Associate Professor of the Department of Pediatrics Head of the Department of Pediatrics Kuzmenko L.G. Kantemirova M.G. Ovsyannikov D.Yu.

ANNOTATION OF ACADEMIC DISCIPLINE

The name of the discipline	Physical Culture	
The amount of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Practical section	Topic 1. Athletics. Topic 2. Basketball. Topic 3. Badminton. Topic 4. Skiing. Topic 5. Volleyball. Topic 6. Football.	

Educational program 31.05.01 General medicine

Developers:

Professor of the Department of Physical Education and Sport	Pushkin V.N.
Associate Professor of the Department of Physical Education and Sport	Razmakhova S.Yu.
Associate Professor of the Department of Physical Education and Sport	Shulyatev V.M.

VARIABLE PART

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Discipline	Russian language and culture of speech
General labour intensity	2 CU (72 hours)
General content	of the discipline
Aims and objectives of discipline	
Development and improvement of the integrative professional-communicative competence of future doctors that includes the following components: linguistic, sociocultural and national strategic, compensatory, discursive, behavioral and others. That provides the achievement of the required level of communicative training, readiness and ability to solve professional- communicative tasks in different spheres of doctor's professional activities in compliance with the norms of social and relationship status.	
Sections of the disciplines Summary of sections	
CULTURE OF ACADEMIC AND SCIENTIFIC COMMUNICATION	Russian language and speech. A culture of speech. Types of communication: academic, scientific etc. The basic concepts of the course. Literary language, literary and linguistic norm. Types of norms. Speech and its characteristics. Speech influence. The methods of persuasion. The basic norms and rules of non-verbal and verbal etiquette.

		Professional communication: the essence,
CULTURE OF	PROFESSIONAL	features, innovative technology tools.
COMMUNICATION		Communicative portrait of a specialist.
		Oral professional communication: general
		concept, the basic communication forms and
		signs.
		Written speech of a doctor.
		Innovative informational and communicative
		technologies of a professional interaction.
		Tolerant intercultural
		professional
		communication: the basic principles and
		strategies.

The developers are the associate professors of the Russian language department of Medical Institute Yu.N. Gosteva, R.A. Arzumanova, M.A. Bulavina.

Head of Russian Language Department of Medical Institute

V.B. Kurilenko

VARIABLE PART

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Faculty of Physical, Mathematical and Natural Sciences

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Bioorganic chemistry	
Volume of discipline	2 point of credit (72 hours)	
Course Description		
Topics	Content of topics	
Introduction	 Bioorganic chemistry as a branch of science that studies the structure and mechanisms of biologically active molecules from the standpoint of organic chemistry. Organic chemistry - a fundamental basis of bioorganic chemistry. The main provisions of the theory of chemical structure. Isomers. Classes of organic compounds. Hybridizations of carbon atom. 	

Hydrocarbons	Alkanes. Nomenclature, isomerism, methods of preparation. Physical and chemical properties. Alkenes. Nomenclature, isomerism, methods of preparation. Physical and chemical properties. Alkynes. Nomenclature. Methods of preparation. Physical and chemical properties. Dienes. Nomenclature. Methods of preparation. Chemical properties.
Aromatic compounds	Aromatic compounds. The concept of aromaticity. Electrophilic substitution reactions for aromatic compounds. The rules of orientation.
Alkyl Halides	Alkyl Halides. Reactions of nucleophilic substitution of halogen in alkyl halides and arenes. Elimination reaction. Zaitsev's rule. Interaction with metals.
Alcohols. Phenols	Methods for preparation of alcohols. Atomicity of alcohols. The hydrogen bond. Reactivity of alcohols. Preparation of ethers and esters. Oxidation reaction. Phenol, methods of synthesis and chemical properties.
Amines. Aminophenols. Aminoalcohols.	Aliphatic and aromatic amines. The basicity of amines. Effect of substituents on the basic properties of amines. The salt formation. Acylation and alkylation. Reaction with nitrous acid. Aniline, methods of synthesis and chemical
Aldehydes and Ketons.	Methods for preparation of aldehydes and ketones. The reactions of the carbonyl group and a-position. Acetals and ketals. Reactions of oxocompounds with nitrogen-containing nucleophiles. Oxidation reaction. Aldol and crotonic condensation.
Carboxylic acid. Derivatives of carboxylic acids.	Methods of preparation. Reaction of the carboxyl group and a-position. Derivatives of carboxylic acid: salts, halides, anhydrides, amides, nitriles, esters. Preparation and
Carboxylic acid. Derivatives of carboxylic acids.	Methods of preparation. Reaction of the carboxyl group and a-position. Derivatives of carboxylic acid: salts, halides, anhydrides, amides, nitriles, esters.

Associate Professor, Department of Organic Chemistry

Sorokina E. A.

The Head of Department of Organic Chemistry

Voskresensky L.G..

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Name of discipline	BIOSTATISTICS	
General labour intensity	2 credit points (72 Hours)	
Course summary		
Topics	Content of topics	
BASICS OF	PLANNING BIOMEDICAL RESEARCH.	
BIOMEDICAL	Stages of biomedical research: planning and research	
RESEARCH	programs; data collection; processing the collected	
	material; data analysis, conclusions and	
	recommendations. Population and sampling.	
	Requirements for the sample.	
	TYPES OF RESEARCH.	
	Cross-sectional and longitudinal, prospective and	
	retrospective studies; case-control study, cohort	
	study, randomized clinical trials, meta-analysis.	
DESCRIPTIVE STATISTIC	GRAPHICAL REPRESENTATION OF DATA	
	The concept of statistical graphics, the basic	
	elements of graphics, chart types. Histogram.	
	Empirical distribution function and its properties.	
	ESTIMATES OF DISTRIBUTION	
	PARAMETERS.	
	Point estimation of distribution parameters,	
	requirements for point estimates: unbiasedness,	
	consistency, efficiency. Interval estimation of	
	distribution parameters, confidence interval,	
	confidence probability. Interval estimation of the	
	mean, interval estimation of variance.	

STATISTICAL ANALYSIS OF	STATISTICAL HYPOTHESIS TESTING.
DATA.	General scheme of testing statistical hypotheses.
	Types of errors: systematic and random errors, error
	I and II type. Determination of sample size.
	Statistical criterions, the critical area, the level of
	significance, power of the criterion. Pearson, Fisher
	and Kolmogorov criterions. Testing statistical
	hypotheses about the equality of the
	average to the specific numeric value.
	COMPARING THE GROUPS.
	Testing statistical hypotheses about the equality of the
	average values of the two normally distributed
	equality of dispersions of the two research normally
	distributed general totality with unknown and known
	average value. Bound and unbound samples.
	REGRESSION ANALYSIS.
	equation estimation of regression parameters using
	the least square method. Testing the hypothesis on the
	significance of the regression dependence.
	CORRELATION ANALYSIS.
	correlation coefficient Spearman's rank correlation
	coefficient. Testing the hypothesis on the significance
	of the correlation coefficient.
	ANALYSIS OF THE RELATIONSHIP OF OUALITATIVE FEATURES
	Tables of conjugate features, the connection
	coefficients. Testing the hypothesis about the
	importance of the connection coefficients.
	ANALYSIS OF VARIANCE.
	formulation of hypotheses, the sequence of hypothesis
	testing. Two-factor analysis of variance. Cross-model
	and hierarchical model of two-factor analysis.

Developers:	
Professor	V.D. Protsenko
Associate Professor	E.A. Lukianova
Associate Professor	T.V. Lyapunova
Head of Department Medical informatics and telemedicine	V.L. Stolyar

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Biotechnology		
Volume of discipline	2 CU (72 hours)		
	Course Description		
Topics	Content of topics		
Introduction to modern biotechnology.	Biotechnology development vectors and medical applications Bio-object - the basis of biomedical technologies, classification, improvement.		
Fundamentals of biomedical production technologies.	Features of the production of drugs by the methods of modern biotechnology.		
Cell technology in medicine.	Culture of cells, organs and tissues of plants. Cultivation of organs. Animal cloning. Methods of nuclear transplantation. Cloning of mammals. Methods for preserving cell cultures.		
Enzymes, as objects and means of production of drugs	Drugs based on enzymes for replacement therapy and treatment of purulent-inflammatory processes and necrosis. Enzyme preparations as biocatalysts in the pharmaceutical industry.		
Vegetable producers of biologically active substances.	The main groups of biologically active substances produced by plants used in medical practice. Alkaloids. Cardiac glycosides. Triterpene saponins. Terpenoids and essential oils. Flavonoids and polyphenolic compounds.		
BAS produced by microorganisms.	Antibiotics. Probiotics and normal flora. Amino acids. Vitamins. Steroids.		
Recombinant proteins and peptides.	Production of genetically engineered insulin and peptide growth factors. Recombinant interleukins, interferons, etc.		
Gene therapy	Drugs based on gene therapy methods, the principle of the approach, the concept of "pathological" protein.		

Educational program 31.05.01 General medicine

Developers:

Professor, Department of General Pharmaceutical	
and biomedical technology	Lukanin A.V.
Associate Professor, Department of General Pharmaceutical	
and biomedical technology	Samadadze T.E.
Associate Professor, Department of General Pharmaceutical	
and biomedical technology	Homik A.S.
Head of the Department of General Pharmaceutical	
and biomedical technology	Suslina S.N.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of discipline	Introduction to medical elementology	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Introduction to medical	1. Subject of medical elementology. Biological classification	
elementology	of chemical elements. Concept of bioelements.	
	2. Biogeochemistry and factors affecting the elemental	
	status of population.	
	3. New paradigm of nutrition and therapy.	
General elementology	4. Factors affecting the homeostasis of trace elements.	
	5. Elemental status of humans. Dersonalized assessment of	
	buman elemental status	
Special elementelogy	6 Essential trace elements (iron zine conner manganese	
Special elementology	observation of the second seco	
	the body: absorption: avaration: deficiency and toxicity:	
	associated diseases: sources	
	7 Conditionally assential trace elements (lithium strontium	
	vanadium nickel tin silicon fluorine): role in the body:	
	absorption: excretion: deficiency and toxicity: associated	
	diseases: sources	
	8 Toxic and potentially toxic trace elements (arsenic	
	aluminum, lead, cadmium, mercury): role in the body:	
	absorption: excretion: toxicity: associated diseases: sources.	
	9. Macroelements (potassium, sodium, calcium, magnesium,	
	phosphorus, sulfur, chlorine): role in the body; absorption;	
	excretion; deficiency and excess; toxicity; associated	
	diseases; sources.	
	10. Elements-organogens (carbon, oxygen, nitrogen,	
	hydrogen): role in the body; absorption; excretion;	
	associated diseases; sources.	

Developers:

Assistant Professor of the Department of Nursing Activities Senior Lecturer of the Department of Nursing Management activities Head of the Department of Nursing Activities Skalny VV Umnova T.N. Radysh I.V.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of discipline	Evidence-based medicine
Volume of discipline	2 CU (72 hours)
Course Description	
Topics	Content of topics
1. Introduction to Evidence- Based Medicine. Levels of Evidence.	 Evidence-based medicine as the main way to improve the quality of medical care for the population. History of Evidence-Based Medicine Basic concepts and methods. Tasks of evidence-based
	medicine, role in the training of a doctor.3. Levels of evidence (A, B, C) and recommendation classes (I, IIa, IIb, III). A systematic review. Meta-analysis. Final interview for the discipline.
2. Statistics in evidence-based medicine. Analysis of publications from the position of evidence-based medicine.	 Basic statistical knowledge necessary for the interpretation of data on evidence-based medicine. Graphical representation of statistical data. 3. Analysis of publications from the position of evidence- based medicine.
	Conflict of interest. Final interview for the discipline.
3. Pharmacoepidemiology. Pharmacoeconomics.	 Definition. Types of pharmacoepidemiological studies. Basic methods of pharmacoepidemiological analysis and modeling.
	3. Analysis of drug consumption. Final interview for the discipline.

4. Clinical studies. Formular system. Adverse drug reactions.	1 Clinical studies of medicines: phases, GCP, ethical and legal norms.
	2. Formular system: principles of construction, methods of choosing medicines. System of rational use of medicines in Russia.
	3. Classification of NLR. Methods of monitoring. Pharmacovigilance. Final interview for the discipline.
5. Sources of the Data for Evidence-Based Medicine.	1. Uniform standards for reporting the results of randomized controlled trials.
	2. Development of clinical guidelines and guidelines.
	3. Clinical thinking and the logic of the diagnosis in the era of evidence-based medicine. Final interview for the discipline. Final interview for all sections of the discipline.

e Department of Evidence-Based Medicine
e Department of Evidence-Based Medicine
partment of Evidence-Based Medicine
e Department of Evidence-Based Medicine partment of Evidence-Based Medicine

Vykhristyuk OF Petryaykina EE Koltunov I.Ye.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of discipline	Allergology	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
1. Organization of a clinical immunology and allergology service and public health issues.	Organizational principles of helping patients with allergic diseases and immunodeficiencies. Organization of allergological and immunological assistance. The main provisions of the organization of allergological and immunological services.	

2.Immunological laboratory.	The principles of the organization of the immunological laboratory. Basic regulatory documents. Equipment and reagents. Features of the organization and work of allergological Organization of specialized outpatient care for patients with allergic diseases and immunodeficiencies. cabinets in pediatric medical institutions and departments for patients with immunodeficiencies.	
3. Assessment of the human immune system.	Immune status. Methods of its assessment. Immunogram Immuno-phenotyping, CD classification. ELISA methods, PCR diagnostics. Genotyping Specific diagnosis of allergic diseases. Allergic history. Skin tests. Provocative allergic tests. Elimination tests. Specific diagnosis of allergic diseases in vitro. The role, indications, characteristics of laboratory methods of specific diagnostics in an allergological clinic.	
Fundar	nental immunology and allergology	
General issues.	Allergens and their classification. Classifications and pathogenesis of allergic reactions. Allergic reactions of an immediate type. 1st and 2nd order target cells. Early and late phase of the reaction. Allergic inflammation. Reactions of the Arthus phenomenon type (serum sickness, exogenous allergic alveolitis). Slow allergic reactions (T-dependent), clinical manifestations, pathogenesis of diseases, the role of cytokines.	
Primary immunodeficiencies	Epidemiology, genetic basis. Classification. Clinical and immunological characteristics of primary immunodeficiencies. Differential diagnosis. Treatment.	
Secondary immunodeficiencies.	Factors contributing to their development, pathogenesis, main clinical manifestations. Principles and methods for the diagnosis of immunocorrection. Immunorehabilitation. The principles of laboratory diagnosis of immunodeficiency.	
Patient management tactics	Principles and methods for the diagnosis of immunocorrection. Immunorehabilitation. Laboratory principles diagnosis of immunodeficiency.	
Particula	Particular issues of allergology and immunology	
Actual issues.	Immunology of connective tissue diseases. Immunology of skin diseases. Autoimmune diseases of the nervous system. The immune system for tumor diseases. The participation of the immune system in the antitumor defense of the body. A study on transplant immunity. Immunosuppressive therapy for transplantation.	
Bronchial asthma.	Epidemiology, classification. etiology and pathogenesis of various forms of bronchial asthma (BA). Clinic BA. Pharmacotherapy.	

Allergic rhinitis.	Classification, etiology, pathogenesis. Clinic of allergic rhinitis. Diagnostics and differential diagnostics. Treatment of allergic rhinitis. Complications of allergic rhinitis.
Polliposis of the nose.	Relationship with bronchial asthma.
Pollinosis.	Allergic rhinoconjunctivitis. Properties of pollen of allergenic plants. Etiology, clinic, diagnosis of pollinosis. Combinations with cross food and drug allergies. Features of skin tests with pollen allergens. Pollinosis treatment. Elimination of allergen. Pharmacotherapy. Specific therapy. Prevention.
Urticaria and Quincke's edema.	Classification, etiology, pathogenesis, differential diagnosis.
Pseudo-allergic reactions.	Clinic, diagnostics and differential diagnostics.

Professor of the Department of Immunology and Allergology T. Slavyanskaya Professor of the Department of Immunology and Allergology Hanferyan R.A. Associate Professor, Department of Immunology and Allergology Levkova EA Associate Professor of the Department of Immunology and Allergology Salnikova SV Head of the Department of Immunology and Allergology Sepiashvili R.I.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

The name of discipline	Telemedicine
Volume of discipline	2 CU (72 hours)
	Course Description
Topics	Content of topics
Introduction to Telemedicine.	A history of the Telemedicine. Advancement of Telemedicine in Russia and abroad. The reasons for successes and failures of telemedicine projects. The relations between Telemedicine and Computer Science
A technological equipment of telemedicine activities.	Internet portal as an environment for organizing telemedicine events. A technological equipment of mobile telemedicine. Videoconferencing as a technological basis for telemedicine. Patients graphic information storage and transmission standards. Principles of PACS construction. Areas of application and technological equipment of the telepathology.
Scenarios of Telemedicine activities.	Legal and economic relations of subjects in telemedicine. Economics and marketing of telemedicine today. Problems of Russian telemedicine and ways to solve them. Protection of personal data during telemedicine activities. The level of confidence in the information sent and responsibilities of the parties. Electronic signature, "telemedicine manager". Features of remote access to IIA during remote consultations. Copyright protection for remote interactive studying. Nowaday's developments of leading manufacturers for telemedicine.

31.05.01 General medicine

Developers:

Associate Professor of the Department of Medical Informatics Senior Lecturer of the Department of Medical Informatics Head of the Department of Medical Informatics

Lukyanova E.A. Lyapunova T.V. Stolyar V.L.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Maxillofacial Surgery
Volume of discipline	2 CU (72 hours)
Course Description	
Topics	Content of topics
Odontogenic inflammatory diseases	Anatomy and topographic anatomy of the cellular spaces of the maxillofacial region. Clinical characteristic of inflammation. Pathoanatomical and pathophysiological picture of inflammation. Definition of abscess and phlegmon. The method of treatment of a purulent wound of the maxillofacial area. Principles of medical treatment of acute inflammatory diseases of the maxillofacial area.
Non-fire fractures of the upper jaw, zygomatic bone, nose bones	Classification of facial fractures. Etiology, pathogenesis, assessment of the severity of damage, general post- traumatic disorders taking into account age and comorbidities. Features of emergency care for fractures of the upper jaw, zygomatic bone, nasal bones. Prevention, diagnosis and prediction of post-traumatic complications, the choice of treatment tactics, interaction with doctors of related specialties.
Non-refractory mandibular fractures	Classification of mandibular fractures, the mechanisms of their occurrence. Clinic, diagnosis and treatment of patients. The choice of treatment. Dislocation of the lower jaw, rehabilitation of patients with injuries of the lower jaw. Possible complications and principles of their prevention.
Neoplasms of maxillofacial area	Classification of maxillofacial tumors. Diagnosis, features of the course and treatment of benign and malignant tumors of the maxillofacial area. Emergency and planned care for patients with maxillofacial tumors. Principles of oncological vigilance, deontological principles of communication with patients with maxillofacial tumors. Differential diagnosis of tumors with similar pathological processes. Treatment plan for various tumor processes.
Salivary gland diseases	Methods of research of the salivary glands, methods of their evaluation. Classification, clinical presentation and treatment of sialoadenitis, salivary stone disease, salivary gland tumor lesions. The technique of diagnostic puncture of the glands, removal of stones from the ducts of the salivary glands, extirpation of the submandibular and parotid salivary glands, the algorithm for the treatment of diseases depending on etiopathogenesis.

Types and origin of defects.	Causes and types of defects of the maxillofacial area.
The basic principles of	Principles of planning and carrying out recovery operations
recovery operations in the	in the maxillofacial area. Indications for various types of
maxillofacial region.	recovery operations. Deontological methods of behavior with
	patients with defects and deformities of the tissues of the
	maxillofacial region. Features of the structure of the
	maxillofacial area and the basic principles of rehabilitation
	treatment planning, the main components of rehabilitation
	treatment, types of rehabilitation operations and features of
	their implementation in the maxillofacial area, especially
	medical rehabilitation of patients with defects and
	deformities of the maxillofacial area.

Associate Professor, Department of Maxillofacial Surgery	Zandelov V.L.
Head of the Department of Maxillofacial Surgery	Ivanov S.Yu.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Autopsy course
Volume of discipline	1 CU (36 hours)
Course Description	
Topics	Content of topics
Organization of the pathology service.	Introduction to pathological anatomy. History of the development of pathological anatomy. Characteristics and forms of pathology work in health care settings. Medical ethics and deontology. Features of ethics and deontology in pathological anatomy.
Rules of the sectional studies.	Rules of conduct in the sectional, clothing doctor. Safety behavior in the sectional. Features clothing doctor with suspected infectious diseases. Compliance with sanitary and anti-epidemic rules of work in the sectional room and biopsy block. Common techniques, working with tools. Evisceration by Shore, by Virchow, cut along Leshke. The procedure for autopsy: the appearance of the deceased, the state of the musculoskeletal system. An autopsy study of the cranial cavity and its contents, the study of the pituitary. Chest dissection, thoracic cavity examination, carrying out a sample for pneumothorax and air embolism. Abdominal cavity dissection, the study of the digestive system, opening of the retroperitoneal space.

Rules of biopsy studies.	Obligations of a clinician for taking, fixing, marking, storing and delivering biopsy and surgical material to a histological laboratory. The rules of registration of the accompanying documents to the histology laboratory. The responsibility of the clinician for the time and quality of the material and documents sent. Safety, clothes of a doctor. Reception of surgical material. Urgent biopsies. Viewing of biopsy glasses. Terms of storage and rules for the issuance of sectional and biopsy-operational material (histological preparations, blocks, wet archive) and documents.
Principles of design and comparison of the final clinical and pathologic diagnoses.	Underlying disease, competing disease, comorbidities, baseline disease. Complication of the underlying disease. Comorbidities. Guidelines for issuing medical certificates of death. Categories differences diagnoses. Objective and subjective reasons of diagnostic errors.

Associate Professor of the Department of Pathological Anatomy	Ivina AA
Head of the Department of Pathological Anatomy	Babichenko I.I.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program 31.05.01 General medicine

The name of discipline	Reproductive health	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
General issues of reproductive	1. Reproductive health of women in the	
health of women.	Russian Federation.	
	2. Reproductive behavior.	
Reproductive infectology.	1. Normal vaginal biocenosis.	
	2. Bacterial vaginosis. Vaginitis	
Family planning.	1. Family planning. Contraceptive methods.	
	2. Abortion is dangerous and safe.	
	3. Pregravid preparation	

Developers:

Associate Professor at the Department of Obstetrics and Gynecology with a course of perinatology Leb Head of the Department of Obstetrics and Gynecology with a course of perinatology Rad

Lebedeva M.G.

Radzinsky V.E.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program

31.05.01 General medicine

The name of discipline	Endoscopic Urology
Volume of discipline	2 CU (72 HOURS)
Cour	se Description
Topics	Content of topics
The history of endoscopic urology, its current state and prospects.	The history of the development of endoscopic diagnostic methods in urology. Instrumental and endoscopic methods for the study of the urological patient.
Organization of endosurgery.	Endoscopic surgery as a method of surgical treatment of diseases, with the implementation of radical interventions through pinhole tissue punctures or natural physiological holes. Requirements for the complex endoscopic operating room.
General technique of endourological procedures: Urethrocystoscopy Ureteroscopy, catheterization of the ureter KLT.	Urethrocystoscopy. Indications, contraindications, technique of performance, evaluation of results. Urethroscopy: dry and irrigation. Indications, contraindications, technique of performance, assessment of the results of KLT. Indications, contraindications, technique of performance, evaluation of results.
General technique of endourological procedures: Nephroscopy Lapaxia PEPS	Nephroscopy. Indications, contraindications, technique of performance, evaluation of results. Lapaxia. Indications, contraindications, technique of performance, assessment of results PEPS. Indications, contraindications, technique of performance, evaluation of results.
Transurethral prostate surgery.	The choice of method of anesthesia for TUPS. The organization is operating. Variants of TUPS: "pseudo-TOUR", "partial TOUR", "total TOUR", "radical (subradical) TOUR". Indications, contraindications, technique of performance, evaluation of results.

General technique endosurgical	Equipment and instruments for laparoscopic
procedures.	operations. Preparation of laparoscopic operating. The main stages of laparoscopic surgery in urology.
Laparoscopic operations on the pelvic	Laparoscopic adenomectomy, radical prostatectomy, cystectomy. Indications,
organs.	contraindications, technique of performance, evaluation of results.
Laparoscopic kidney surgery.	Laparoscopic nephrectomy, kidney resection, nephropexy, kidney cyst removal, retroperitoneoscopic ureterolithotomy Indications, contraindications, technique, evaluation of results.

Professor of the Department of Urology and Operative Nephrology	
with a course of oncourology	Kostin A.A.
Professor of the Department of Urology and Operative Nephrology	
with the course of oncourology	Vinogradov I.V.
Head of the Department of Urology and Operative Nephrology	
with the course of oncourology	Kaprin A.D.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Introduction to Nutrition	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Introduction to Nutritionology	Value nutrition in human life. Nutrition, food products and nutrients.	
Energy metabolism. Energy requirements.	Energy expenditure of the body and energy requirements. Food as a source of energy. Energy balance. Change of body weight. Energy balance and obesity.	
Macronutrients. Micronutrients.	Proteins. Lipids. Carbohydrates. Water. The structure, classification, properties, digestion, absorption, transportation and nutritional value of macronutrients.	

	Vitamins. Chemical elements. Amino acids. The general physiological role of vitamins, chemical elements and amino acids. Prevention of loss of vitamins for cooking and storing food. Food is the source of minerals. Prevention of micronutrient deficiencies from food.
Non-nutrient bioactive substances in food.	Minor components of food. Protective components of food products. Non-nutrient and some other components of food that have an adverse effect on the body. Chemical changes in basic nutrients during cooking.
Nutritional value of food products. Nutrition and human health.	Nutritional, biological values and dietary properties of the main groups of food products (home-cooked food and catering). Advanced approaches, principles and recommendations. Diseases associated with malnutrition. The link between food, nutrition and non-communicable diseases.

Assistant Professor of the Department of Nursing ActivitiesSkalny VVSenior Lecturer of the Department of Nursing Management activitiesUmnova T.N.Head of the Department of Nursing ActivitiesRadysh I.V.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Molecular genetics in practical biology and medicine		
Volume of discipline	2 CU (72 hours)		
	Course Description		
Topics	Content of topics		
Introduction into Molecular Genetics	History of Molecular Genetics. Important trends and advances in Molecular Genetics.		
Transfer of genetic material in prokaryotes	Conjugation. Transformation. Transduction		
Polymerase chain reaction	Polymerase chain reaction. Types of PCR. Detection of amplified products.		
Genetic engineering. Hybridization methods	Genetic engineering. Vectors. Restriction Enzyme Digest Analysis. Hybridization methods. Types of nucleic acid hybridization.		
DNA sequencing	History of the method. DNA sequencing techniques and their application.		

Molecular cytogenetic methods	Classical cytogenetics: karyotyping techniques. Fluorescence in situ hybridization (FISH). Comparative genomic hybridization (CGH).
Stem cells and genome reprogramming	Types of stem cells and their characteristics. Induced pluripotent stem cells. Nuclear reprogramming technologies. Genome editing.
Methods of epigenetic analysis	Introduction into Epigenetics. Factors influencing the epigenotype. Methods of epigenetic analysis.

Associate Professor, Department of Biology and General GeneticsGigani O. B.Head of the Department of Biology and General GeneticsAzova M.M.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Special patient care management
Volume of discipline	3 CU (108 hours)
Course Description	
Topics	Content of topics
Specialized patient care	Organization of special care. Staff training. Job
	responsibilities. Medical-legal, medical-social,
	medical-psychological, pedagogical aspects.
	Organization of the patient's school.
Specialized patient care in	Organization of care for stroke, cerebral ischemia, mental
neurology	disorders.
	Process, phases, planning, assessment of care. Special care
	and rehabilitation products.
Specialized patient care in	Organization of care at various stages of the oncological
oncology	process. Process, phases, planning, assessment of care.
	Communication problems. Care for the disease.
	Recovery is faith and hope. Pain. Smell. Risk of
	development and the formation of pressure sores. Skin care
	in the irradiated area. Nutrition. Therapeutic and protective
	regimen.
	Special means of care and rehabilitation.
Specialized care for	Incontinence. Problems of incontinence. Causes. Treatment.
patients with	Process, phases, planning, assessment of care. Means of
incontinence	care and rehabilitation for incontinence, especially the
	choice, selection, use. Skin care, especially intimate
	nygiene. Depression. School patient.

Specialized patient care in pulmonology	Features of care for bronchopulmonary pathology. Process, phases, planning, assessment of care. Patient's position in bed. Drainage piling. Oxygen therapy. Inhalation. Respiratory and therapeutic exercises, massage. Patient's diary. Observation, self-
	control, self-care. Means of care and rehabilitation.
Specialized care for patients with HIV / AIDS	Features of invasive procedures. Process, phases, planning, assessment of care. Inspection and oral hygiene, as a marker of the manifestation of HIV / AIDS, the condition of the body. Skin care, manicure, pedicure. Prevention of infection.

Bershadskaya MB
Antyushko T.D.
Andrev L.
Radysh I.V.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Molecular physiology
Volume of discipline	3 CU (108 hours)
Course Description	
Topics	Content of topics
The molecular basis of excitability	Properties of ion channels, their role in the formation of PP and PD, molecular causes of accommodation and refractoriness.
Signal transmission mechanism from cell to cell	Age characteristics of the reaction of the cardiovascular system to physical activity. Changes in the frequency and depth of respiratory movements, vital capacity of lungs, minute volume of breathing, features of regulation of breathing at different ages
Molecular mechanism muscle contraction, the role of contractile proteins.	Electromechanical conjugation in the muscle. The molecular mechanism of muscle contraction, the role of contractile proteins.
Molecular properties of chromoproteins.	Molecular properties of chromoproteins, their role in gas exchange. Characterization of normal and pathological hemoglobin compounds.
Principles of molecular interaction of receptors and ligands.	The principles of interaction of receptors and ligands. The characteristic of metabotropic receptors is a cascade of intracellular reactions. The concept of the first and second intermediaries.
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Molecular mechanisms of transport.	Types of transport. Systems for the transfer of various nutrient nutrients through epithelial structures. Energy costs during active transport.

Associate Professor of the Department of Normal Physiology	Sveshnikov D.S.
Head of the Department of Normal Physiology	Torshin V.I.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program 31.05.01 General medicine

The name of discipline	Rhetoric	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Rhetoric as a science.	 Rhetoric as a scientific discipline and as an art eloquence. A brief history of the development of oratory. The rhetorical canon and modern eloquence. Stages of the classic rhetorical canon Rhetoric in the professional sphere and public life of a person in the information age. General and private rhetoric. Laws and principles of modern general rhetoric. Neo-rhetoric. 	
Types of eloquence.	The classification of oratory by their scope: academic, eloquence, social, political, social, spiritual, judicial. Their specifics, outstanding speakers. Types of oratory speeches about the target: argumentative speech (persuading and agitating) informative speech, entertaining speech.	

Speech exposure and methods of persuasion.	Methods, strategies and tactics of speech exposure. Speech exposure factors. Communicative position and methods of its strengthening. Speech exposure and manipulation. Ways to overcome speech aggression. Classification of methods of persuasion by the nature of the audience: universal and non-universal (contextual). Methods of universal argumentation: empirical argumentation, theoretical argumentation. Methods of theoretical argumentation, system
	argumentation, principle verifiability and principal refutability, compatibility condition, methodological argumentation. 14 rules of persuasion: the rules of Homer, Socrates, Pascal, etc.
The art of argument. Reasoning speech.	Classification of disputes (discussion, controversy, debate) and types of discussion of the problem (debate, debate). Functions and varieties of argumentative speech. Proof in argumentative speech: thesis, arguments, demonstration. Requirements for the thesis. The specifics of rhetorical argumentation. Typology of arguments.
Public speech.	Features of public speaking. Classification of audiences by volume, uniformity. The specifics of the speaker in different types of audiences.
The dialogical form of verbal communication.	The essence and logical structure of the issue. Classification of questions. General rules for raising questions and the specifics of their application. Answers, their types. Rules for the formulation of the answer. Principles of the speaker's response to questions during a public presentation. Questions as a means of manipulating the interlocutor.

Associate Professor, Russian Language Department, MI	Gosteva Yu.N.
Associate Professor of the Russian Language Department MI	Arzumanova R.A.
Associate Professor of the Russian Language Department MI	Bulavina MA
Head of the Department of Russian Language MI	Kurilenko VB

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Psychology of Ethnic Conflict
Volume of discipline	2 CU (72 hours)
	Course Description
Topics	Content of topics
Introduction to the	Ethnopsychology and ethnoconflictology as a branch of
psychology of ethnic	science, their place in the system of sciences, functions,
conflict. Ethnosocial	basic concepts: ethnos, ethnicity, ethnic identity, ethnic
processes and structures.	processes and relations, conflict, constructive and
	destructive conflict, ethnic conflict, tolerance.
Ethnic conflicts	Basic ideas about the causes and essence of ethnic conflicts. The concept of ethnic conflict. The specificity of ethnic conflicts. Interethnic tension. Historical forms of community of people. Principles and methods of analysis of ethnic conflict. The concept of the function of ethnic conflict. Forms of manifestation of function: explicit, latent, direct, indirect. Material and spiritual consequences of ethnic conflict. Constructive and destructive functions of ethno-conflict. Signal, informational, differentiating, dynamic, and other functions of ethnic conflict. Stages of conflict development and its dynamic characteristics. The formation of a conflict situation. Conflict interaction.
Work in a multi-ethnic team.	Gender and age stereotypes of various ethnic groups in matters of the profession. Labor Features interactions in the cultural traditions of various ethnic groups. Interethnic and interfaith conflicts in a multiethnic confessional collective. Methods for the formation of group cohesion.
Education of tolerance and	Tolerance. Tolerant personality. Culture
culture of interethnic	interethnic communication in the context of national and
communication.	ethnic problems. Multiethnic environment and its features.
	Features of the education of a culture of interethnic
	communication in collectives with a mixed ethnic
	composition.

Educational program 31.05.01 General medicine

Developers:

Associate Professor, Department of Psychology and Pedagogy Head of the Department of Psychology and Pedagogy Logvinova OK Karabuschenko NB

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Medical Enzymology
Volume of discipline	2 CU (72 hours)
	Course Description
Topics	Content of topics
Formation and success of medical enzymology. Chemical nature of enzymes.	The subject, objectives and main directions of medical enzymology. The main chemical components of living systems. The concept of the structure of proteins. Amino acids are monomers of protein molecules and peptides. Proteinogenic amino acids. Classification of amino acids. Structure and physico-chemical properties of amino acids. Biologically active peptides. Structural and functional diversity of proteins. The structure of proteins. Monomers and oligomers. Domain structure. Site directed mutagenesis. Physico- chemical properties of proteins. Methods for studying proteins. Classification of proteins (simple and complex proteins). Connection of protein structure with their function. Features protein identification. Western blot.
Basics of biocatalysis. Enzymology problems and evaluation of the results obtained.	 Basics of biocatalysis. Activation energy Chemical nature of enzymes. Features of enzymes as biocatalysts: dependence on physical and physicochemical environmental conditions (temperature, ionic strength, pH); high selectivity (substrate specificity and action specificity); sensitivity to the physicochemical parameters of various substances (inhibitors, activators). Differences of enzymes from inorganic catalysts. The active center, its adsorption and catalytic sites. Coenzymes - the concept of their functional role and chemical diversity. The theory of induced correspondence of the active center to the structure of the substrate. Allosteric centers, their regulatory functions. Classification and nomenclature of enzymes. The activity of enzymes, its units of measurement. Units of measurement of the amount of enzymes. Molecular and specific activity of the enzyme. Kinetics of enzymatic catalysis. The Michaelis – Menten equation. Regulation of enzymatic activity: fast and slow ways to implement it. Enzyme inhibitors: irreversible and reversible; competitive and noncompetitive (allosteric). The use of

Educational program 31.05.01 General medicine

	inhibitors in medicine and in everyday life. Reversible	
	inhibition of 25 enzymes as the mechanism of action of	
	most drugs. Retro inhibition.	
Enzyme therapy.	Isozymes, their role in enzymodiagnostics. Immobilized	
	enzymes.	
	Coenzymes - derivatives of vitamins. The functional role	
	of coenzymes.	
	Enzymotherapy of tumors.	
	The role of glutathione and glutathione-dependent enzymes	
	in the redox-dependent mechanisms of the formation of drug	
	resistance of tumor cells.	
	Redox-dependent regulation of tumor cell death	
	mechanisms.	
Enzymodiagnosis.	Catabolism of amino acids: (transamination of amino acids,	
	deamination of amino acids; (direct and indirect),	
	decarboxylation of amino acids, hydroxylation of amino	
	acids).	
	Specific metabolic pathways of individual amino acids.	
	The diagnosis of the disease when determining the activity	
	of enzymes in biological fluids.	
	Polyamine exchange as a therapeutic target.	
	Reactive oxygen species and antioxidant system.	
	Regulation of cellular redox status in health and disease.	
Enzymes-analytical reagents	Enzymes as analytical reagents in clinical biochemistry.	

Professor of the Department of Biochemistry. Acad. Berezova T.T.	Kalinina E.V.
Associate Professor of the Department of Biochemistry. Acad. Berezova T.T.	Lobaeva T.A.
Professor of the Department of Biochemistry. Acad. Berezova T.T.	Pokrovsky V.S.

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Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program	
31.05.01 General medicine	

The name of discipline	Basics of Integrative Medicine
Volume of discipline	2 CU (72 h)
Course Description	
Topics	Content of topics
Introduction to Integrative Medicine	The body from the standpoint of modern medicine.The disease from the perspective of modern medicine.Views on the origin of disease: Euro-American and Indo-Chinese concepts.

Scientific and practical aspects of the integrative medicine system	 Biochemical portrait of a healthy and sick person. Connective tissue is the main morphological and functional link in the development of diseases in a living organism. The main proteins of connective tissue are collagen and elastin. Synthesis and Properties. Multilevel systemic cybernetic organization of connective tissue components. Multiple dysplasias are the basis for a deeper analysis of human health
Strategy and tactics of the treatment process in integrative medicine system.	Integrative treatment schemes, medical rehabilitation and disease prevention. The principles of integrative treatment: mediastinum, systemicity, metabolism.
Homeopathy in the system of integrative medicine.	Modern views on the extracellular matrix. Change in the phase states of the matrix (sol-gel) due to the action of the enzyme hyaluronidase.On the integration of the methods of allopathy and homeopathy.
	About the method of allopathy and homeopathy. On the integration of the methods of allopathy and homeopathy.

Associate Professor of the Department of Nursing Management	Skalny V.V.
Senior Lecturer, Department of Nursing Management	Umnova T.N.
Head of the Department of Nursing Management	Radysh I.V.

Federal State Autonomic Educational Institution of Higher Education «Peoples' Friendship University of Russia»

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

Educational program 31.05.01 General medicine

The name of discipline	Topical issues of neonatology	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	

Perinatal asphyxia, hypoxic-	Perinatal asphyxia, hypoxic-ischemic	
ischemic encephalopathy and their	encephalopathy and their consequences. Etiology.	
consequences. Birth injury.	Pathogenesis. Criteria for diagnosis. Classification. Apgar	
	scale. Clinical picture. Hypoxic-ischemic encephalopathy	
	(HIE). Sarnat classification. Lesions of internal organs with	
	asphyxia of newborns (meconium aspiration syndrome,	
	persistent pulmonary hypertension, necrotizing	
	enterocolitis, acute renal damage). Features of hypoxic	
	damage to the brain in prematurity (intraventricular	
	hemorrhage, periventricular leukomalacia). Therapy.	
	Primary resuscitation of newborns. Prognosis.	
	Consequences of HIE. Cerebral palsy. Attention Deficit	
	Hyperactivity Disorder. Birth injury. Etiology.	
	Pathogenesis. Birth trauma of the skin and subcutaneous	
	fat, musculoskeletal system, internal organs, central (brain,	
	spinal cord) and peripheral nervous system. Types of	
	intracranial hemorrhage. Diagnostics. Therapy. Prevention.	
	Prognosis. Consequences of perinatal lesions of the	
	nervous system of traumatic origin.	
Respiratory diseases in newborns.	Respiratory distress syndrome of newborns.	
	Bronchopulmonary dysplasia (BPD). Congenital	
	pneumonia. Apnea. Causes.Frequency. Etiology.	
	Classification. Pathogenesis. Clinical picture. Diagnostic	
	criteria. Differential diagnostics. Therapy. Prevention.	
Localized purulent-inflammatory	Clinical forms of localized infections (skin and	
diseases of newborns. Skin	subcutaneous fat infections, omphalitis, osteomyelitis,	
diseases of newborns.	arthritis, conjunctivitis).Predisposing factors. Etiology.	
	Epidemiology. Classification. Pathogenesis. Clinical	
	picture. Diagnostics. Diagnostic criteria. Therapy.	
	Prognosis. Prevention. Diaper dermatitis. Seborrheic	
	dermatitis. Etiology. Classification. Pathogenesis. Clinical	
	picture. Diagnostics and differential diagnostics. Therapy.	
	Prevention. Prognosis.	

Associate Professor of the Department of Pediatrics Head of the Department of Pediatrics

Kantimirova M.G. Ovsyannikov D.Yu.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Basics of Nutrition Childhood	
Volume of discipline	2 CU (72 hours)	
Course Description		
Topics	Content of topics	
Nutrition of healthy baby	Definitions concerning feeding children. Principles of nutrition of children. Properties and composition of female breast milk. The benefits of breastfeeding. The value of nutrition in the first year of life for the subsequent human health. Physiology of lactation. Actions and methods that help and prevent breastfeeding. Breast feeding technique. Principles of support for (successful) breastfeeding in the WHO Friendly Baby Hospital program. Breastfeeding counseling. Contraindications to breastfeeding and early breastfeeding of the child. Causes, signs, prevention and treatment of hypogalactia. Definition, causes, rules and timing of the introduction of complementary foods. Principles of artificial and mixed feeding. Principles of adaptation of milk formulas. Classification of infant formula. Nutrition of children over the age of a year.	
Hypotrophy. Protein and	Kwashiorkor. Alimentary insanity. Malabsorption.	
energy deficiency. Intrauterine	Paratrophy. Etiology. Pathogenesis. Classification. Clinical	
growth retardation	picture. Diagnostics. Therapy. Forecast. Prevention. Long-	
Disorders of the metabolism of	Rickets. Hypervitaminosis D. Etiology. Pathogenesis.	
vitamins. Hypo- and	Classification. Clinical picture. Diagnostics. Therapy.	
hypervitaminosis	Forecast. Prevention. Long-term consequences.	

Educational program 31.05.01 General medicine

Developers:

Associate Professor of the Department of Pediatrics Head of the Department of Pediatrics Kantimirova M.G. Ovsyannikov D.Yu.

Medical Institute

ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline **Outpatient Cardiology** Volume of discipline 2 CU (72 h) **Course Description Content of topics Topics** 1. Characteristics of the main 1. ACE inhibitors. General characteristics and cardiovascular agents. place in therapy. Classification of ACE inhibitors. Features of use of some preparations. Complications and limitations to use. 2. Sartans. Sakibuthril / valsartan. 3. Beta-blockers. Characteristics of the group. Cautions and complications of beta-blocker therapy. 4. Nitrates. Characteristics of nitrates. Place nitrates in therapy. Complications and cautions when using. Nicorandil. 5. Calcium channel blockers (BCC). Dihydropyridine BCC. Complications with dihydropyridines. Pulse-thinning BPC. 6. Alpha-1-adrenoblockers 7. Diuretics. Loop diuretics. Thiazides and similar diuretics. Antagonists of aldosterone. Potassium-sparing diuretics. Inhibitors of carbonic anhydrase. 8. Antihypertensive drugs of centralaction. 9. Cardiac glycosides. Mechanism of action and effects. Place in modern therapy. Complications and contraindications for use 10. Antiarrhythmic drugs (AAP). AARP IA class. AARP IB class. AAS class IC. AARP class II. AARP class III. AARP class IV. Other AARPs. 11. Antithrombotic agents. Antiaggregants, anticoagulants. 12. Lipid-lowering drugs. Statins. Fibrates. Ezetimibe. Anicotinic acid. Final interview on the section. 1. Arterial hypertension (AH). General issues. 2. Rational pharmacotherapy of cardiovascular diseases in Rational pharmacotherapy. AH in pregnancy outpatient practice. and lactation. Resistant hypertension.

Educational program 31.05.01 General medicine

	Pulmonary hypertension. Pharmacotherapy of
	hypertensive crises.
	2. Ischemic heart disease (CHD). Angina
	pectoris. General issues. Rational
	pharmacotherapy of angina pectoris. Variable
	angina pectoris (Prinzmetal angina).
	Microvascular angina pectoris (syndrome X).
	3. Chronic heart failure (CHF). General issues.
	Rational pharmacotherapy.
	4. Heart rhythm disturbances. Sinus
	tachycardia. Isolated sinus tachycardia.
	Extravital extrasystole. Ventricular
	extrasystole. Reciprocal AV-node tachycardia.
	Atrial fibrillation. Atrial flutter. Ventricular
	tachycardia. WPW-syndrome. Final interview
	on the section.
3. Some features of outpatient	1. Indications for consultation of a cardiologist
management of cardiac patients	and necessary studies before consultation.
	2. AH, angina of tension, CHF.
	3. Atrial fibrillation. Atrialflutter.
	4. Other rhythm disturbances.
	5. Postponed myocardial infarction, coronary
	angioplasty, aorto-coronary bypass. Final
	interview on the section. Final interview on
	discipline.

Assistant professor of the Department of General Practice Assistant professor of the Department of General Practice Head of the Department of General Practice G.N. Kobylyanu A.V. Syrov Sturov N.V.

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ANNOTATION OF ACADEMIC DISCIPLINE

The name of discipline	Examination of temporary disability	
Volume of discipline	2 CU (72 h)	
Course Description		
Topics	Content of topics	
The normative base of examination of temporary disability (ETD).	The main legislative and regulatory instruments for the examination of disability.	

Educational program 31.05.01 General medicine

ETD in various diseases and conditions.	ETD in diseases of the cardiovascular system, nervous system, respiratory system, obstetric practice, medicine, surgery, traumatology and orthopedics, pediatrics. Estimated time of disability.
The methodology of the organization of ETD in a medical organization.	Practical aspects of registration and issuance of sick leaves in the outpatient and inpatient facility. Mandatory accounting and operational documentation for ETD in a medical organization.
The role of the Medical Commission at ETD.	The technology of carrying out examination of temporary disability by self-employed physician and in medical organizations: issues of temporary disability in the work of the Medical Commission. Controversial and complex cases of ETD.
Criteria and technology of direction on MSE (medico- social examination).	The selection criteria for medico-social examination, technology of directions for the MSE and the registration of medical certificate during the disability.
Legal liability under ETD.	Medical error at ETD. Classification and analysis. Legal liability of medical institution, it's head and a doctor.

Assistant professor of the Department of General Practice Head of the Department of General Practice

E.I. Rusanova Sturov N.V.

Bguer

Радыш И.В

Руководитель программы