

**FEDERAL STATE BUDGETARY
EDUCATIONAL INSTITUTION OF HIGHER EDUCATION
"AMUR STATE MEDICAL ACADEMY"
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION**

AGREED

Vice-Rector for Academic Affairs,



N.V. Loskutova

April 17, 2025

Decision of the CCMC

from April 17, 2025

Protocol No. 7

APPROVED

by decision of the Academic Council of the
FSBEI HE Amur SMA of the Ministry of
Health of the Russian Federation

April 22, 2025

Protocol No. 5

Acting Rector of the FSBEI HE Amur SM/
of the Ministry of Health of the Russian
Federation





I.V. Zhukovets

April 22, 2025

EDUCATIONAL PROGRAM

discipline "Phthisiology"

Specialty: 31.05.01 General Medicine

Course: 6

Semester: 11

Total hours: 108 hrs.

Total credits: 3 credit units

Control form: credit, 11semester

Blagoveshchensk, 2025

The educational program of the discipline is designed in accordance with the requirements of the Federal State Educational Standard of Higher Education - specialist in specialty 31.05.01 General Medicine, approved by the order of the Ministry of Education and Science of Russia dated 08.12.2020 No. 988 (registered with the Ministry of Justice of Russia on 08.26.2020 No. 59493), BPEP HE (2021).

Author: Head of the Department of Hospital Therapy with a course in Pharmacology named after Professor Yu.S. Landyshev, Holder of an Advanced Doctorate (Doctor of Science) in Medical Sciences, Full Professor, V.V.Voitsekhovsky

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Associate Professor at the Department of Internal Medicine of the Faculty of Postgraduate Education, Ph.D. of Medical Sciences V.V. Bataeva

**APPROVED at the meeting of the Department of Hospital Therapy with a course in Pharmacology named after Professor Yu.S. Landyshev
Protocol No. 8 dated April 16, 2025**

Head of the Department of Hospital Therapy with a course in Pharmacology named after Professor Yu.S. Landyshev, Holder of an Advanced Doctorate (Doctor of Science) in Medical Sciences, Full Professor


_____ **V.V. Voitsekhovsky**

Conclusion of the Expert Commission on the review of the Educational Programs:

Protocol No. 1 dated April 16, 2025

Expert of the Expert Commission, Holder of an Advanced Doctorate (Doctor of Science) in Medical Sciences, Associate Professor,


_____ **E.E. Molchanova**

APPROVED at the meeting of the CMC No.3:

Protocol No. 6 dated April 17, 2025

Chairman of the CMC No. 3

Holder of an Advanced Doctorate (Doctor of Science) in Medical Sciences, Full Professor _____ **V.V. Voitsekhovsky**

AGREED: Dean of the Faculty of General Medicine, Ph.D. of Medical Sciences, Associate Professor


_____ **N.G. Brush**

April 17, 2025

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1. EXPLANATORY NOTE

1.1. Characteristic disciplines

Discipline "Phthysiology" forms at students skills effectively decide professional tasks, skills to conduct differential diagnostic search, skills provide full phthysiological care, skills to carry out all necessary preventive events.

General labor intensity disciplines makes up 108 hours. From them: lectures - 20 hours, clinical practical classes - 52 hours, 36 hours allocated on independent work.

The course is studied in the 11th semester. Type of control – credit with assessment in the 11th semester, consisting from theoretical parts - interview By tickets And practical parts
- interpretation clinical analyzes, radiographs, spirogram.

Educational base is Amursky regional anti-tuberculosis dispensary.

1.2. Target And tasks disciplines

Target disciplines - Preparation highly qualified specialist, owning certain knowledge, skills And skills V areas phthysiology, With taking into account further professional activities by specialty Healing case.

Tasks disciplines

To promote the development of clinical thinking, skills and professional abilities in students, teach students:

1. Timely diagnostics early manifestations tuberculosis lungs.
2. Right analyze clinical and anamnestic data, results physical examinations patient, data functional, laboratory, X-ray, microbiological examinations.
3. To own differential diagnostics main nosological forms.
4. Work With medical documentation V conditions polyclinics, formulate diagnosis according to modern classifications.
5. Compose individual plans medical and rehabilitation events patients.
6. Clinical thinking And professional skills.

1.3 The place of the discipline in the structure of the main professional educational programs higher education

In accordance with the Federal State Educational Standard of Higher Education - specialist in specialty 31.05.01 General Medicine (2020), discipline "Phthysiology" refers to To main disciplines, Block 1. General The workload is 5 credits (108 hours), taught in the 11th semester. The form of control is a credit with assessment in the XI semester.

1.4. Requirements To students

For studies disciplines are necessary knowledge, skills And skills, being formed preceding disciplines:
Latin language
Knowledge: main medical And pharmaceutical terminology on Latin language
Skills: to be able to apply knowledge For communications And receipt information from medical literature, medical documentation
Skills: applies medical And pharmaceutical terminology on Latin language V professional activities
Professional foreign language
Knowledge: main medical And pharmaceutical terminology on Latin language

Skills: be able to apply knowledge for communication and obtaining information from foreign sources
Skills: applies medical And pharmaceutical terminology on foreign language V professional activities
Story medicine
Knowledge: outstanding figures in medicine and healthcare, Nobel laureates, outstanding medical discoveries V areas therapy, influence humanistic ideas on medicine
Skills: competently And on one's own to expound And analyze contribution domestic scientists V development immunology
Skills: applies experience past researchers For analysis modern literature
Philosophy
Knowledge: methods And techniques philosophical analysis problems; forms And methods scientific knowledge, its evolution; basic patterns and trends of world development historical process; laws dialectical materialism V medicine
Skills: competently And on one's own to expound, analyze forms And methods scientific knowledge And laws dialectical materialism V medicine
Skills: applies methods scientific knowledge For analysis medical information
Bioethics
Knowledge: moral and ethical norms, rules And principles professional medical behavior, rights patient And doctor, main ethical documents, regulatory activity doctor
Skills: build up And support workers relationship With patients, others member team
Skills: applies ethical norms For alignment relations V team And at work With patients
Histology, embryology, cytology
Knowledge: embryogenesis, histological structure fabrics And systems.
Skills: determine age development patterns organs and systems analyze results histophysiological research.
Skills: analyzes And evaluates results histological research biopsy material for tuberculosis
Microbiology, virology
Knowledge: impact on organism microbes, viruses, rickettsia, mushrooms. Microbiological diagnostics infectious diseases
Skills: analyze the results of microbiological diagnostics of infectious diseases
Skills: applies the results of microbiological diagnostics to establish and differential diagnostics tuberculosis
Medical informatics
Knowledge: Mathematical methods solutions intellectual tasks And their application V medicine; theoretical Basics computer science, collection, storage, search, processing, transformation, spreading information V medical And biological systems, usage informational computer systems V medicine And health care; principles works And devices equipment, used V medicine, Basics physical And mathematical laws, receiving display V medicine.
Skills: use the educational, scientific, popular science literature, network Internet For professional activities, work With equipment With taking into account rules techniques security
Skills: applies informational technologies V professional activities, owns

main skills works With PC
Bioorganic chemistry V medicine
Knowledge : chemical and biological essence processes, happening V alive in the body on molecular And at the cellular level.
Skills : analyze contribution chemical processes V functioning of the cardiovascular system vascular, respiratory, digestive, urinary, hematopoietic systems.
Skills: interprets And uses laboratory results research for staging diagnosis And efficiency treatments
Bio-inorganic And biophysical chemistry V medicine
Knowledge: compound blood, biochemical constants blood, hormones, buffer systems, factors oxygenation hemoglobin, metabolism erythrocytes.
Skills: analyze contribution biochemical processes V functioning organs And cardiovascular , respiratory, digestive, urinary, hematopoietic systems, interpret results most common methods laboratory diagnostics For detection violations at diseases internal organs And professional diseases
Skills: interprets and uses the results laboratory research For productions diagnosis And efficiency treatments
Biology
Knowledge: laws genetics her meaning For medicine; regularities heredity And variability in individual development How Basics understanding pathogenesis And etiology hereditary And multifactorial diseases; biosphere And ecology, phenomenon parasitism And bioecological diseases
Skills: analyze patterns of heredity and variability in development diseases internal organs And professional diseases
Skills: knows main genes, responsible for development of tuberculosis process
Anatomy
Knowledge: anatomical and physiological features of the respiratory, cardiovascular ,digestive, hematopoietic system
Skills: analyze age-gender peculiarities buildings organs And systems.
Skills: applies anatomical knowledge For examinations various organs And systems
Normal physiology
Knowledge: reflex arc, conditional And unconditional reflexes, physiology heart-vascular, digestive, urinary, respiratory And hematopoietic systems in norm
Skills : analyze meaning regulations biological processes V in the body human on functioning cardiovascular , digestive, urinary, respiratory, hematopoietic systems
Skills: applies analysis regulations biological processes V medical practice
Safety life activity
Knowledge: sharp And chronic diseases from impacts ionizing radiation (radial disease)
Skills: analyze the significance of ionizing radiation for the formation professional pathologies
Skills: applies main rules security V practical activities
Pathophysiology, clinical pathophysiology
Knowledge: morphological changes fabrics organism at pathologies cordially-vascular, respiratory, digestive, urinary systems And systems blood.
Skills: determine contribution pathophysiological processes V development tuberculosis
Skills: will apply Basics pathogenesis diseases organs breathing For adequate therapy

Immunology
Knowledge: types immunity, regulation immune answer, reasons immunopathological states, clinical manifestations immunopathology, main methods ratings immune status And principles his ratings, indications To application immunotropic therapy
Skills: identify syndromes And symptoms diseases, related With violations immunesystems, prescribe clinical and immunological examination, formulate immunological diagnosis, appoint immunocorrective therapy And preventive events for disease prevention immune system
Skills: applies results immunograms For diagnostics of tuberculosis And his complications
Pharmacology
Knowledge : pharmacokinetics , pharmacodynamics , side effects influence various medicinal drugs on organism
Skills: write out recipes appointed drugs, know indications And contraindications To their appointment
Skills: appoints necessary drugs For tuberculosis treatment
Propaedeutics internal diseases
Knowledge: collection complaints, anamnesis , objective methods examinations sick (palpation, percussion, auscultation).
Skills: conduct anamnestic And physical examination, highlight main syndromes And symptoms diseases internal organs
Skills: systematizes the data obtained from anamnesis, physical examination and additional data For diagnostics tuberculosis
Public health And healthcare, economy health care
Knowledge: Basics legislation Russian Federations By security health population, main normative and technical documents; indicators health population, factors, formative health a person, (ecological, professional, natural climatic, endemic, social, epidemiological, psycho -emotional, professional, genetic)
Skills: plan, analyze And evaluate quality medical help, state health population And influence on him factors surrounding And production environment; calculate medical statistics indicators
Skills: applies procedures and standards for providing medical care to patients phthisiology profile, knows the main periods of incapacity for work under these conditions diseases
Pathological anatomy, clinical pathological anatomy
Knowledge: etiology, pathogenesis, morphogenesis, pathomorphosis diseases, principles classifications diseases; structural And functional Basics diseases And pathological processes; reasons, mechanisms development And outcomes typical pathological processes.
Skills: visually evaluate And to record changes V organs And fabrics corpse, justify character pathological process And his clinical manifestations; give conclusion O reason death and formulate pathological diagnosis;
Skills: applies data pathological research, biopsies fabrics For productions diagnosis
Urgent states V therapy
Knowledge: etiology, pathogenesis, classifications, clinical manifestations, complications, diagnostics, treatments And prevention urgent states V therapy
Skills: diagnose urgent state at main therapeutic states, formulate and substantiate a clinical diagnosis, conduct differential diagnostics And to render urgent help
Skills: provides urgent help at urgent states in phthisiology

Faculty therapy
Knowledge: etiology, pathogenesis, classifications, clinical manifestations, complications, diagnostics, treatments And prevention main diseases respiratory, cordially-vascular, digestive, urinary and hematopoietic systems.
Skills: formulate And justify clinical diagnosis, appoint plan examinations And treatments at main therapeutic diseases, diagnose urgent state Andto render urgent help
Skills: diagnoses And appoints treatment sick tuberculosis

1.5. Interdisciplinary connections With subsequent disciplines

Knowledge And skills, acquired on discipline "Phthiology" are necessary For studies subsequent disciplines:

No .p /p	Name subsequent disciplines	Discipline "Differential diagnostics diseases organs breathing"
1	Hospital therapy	+
2	Outpatient clinic therapy	+
4	Clinical pharmacology	+
5	Anesthesiology, resuscitation, intense therapy	+
6	Dermatovenereology	+
7	Hospital surgery, children's surgery	+
8	Oncology, radial therapy	+
9	Modern methods of diagnostics and treatmentV hematology	+

Code And Name indicator achievements competencies 1.6. Requirements To results development disciplines

Studying disciplines "Phthiology" directed on formation following competencies: **universal (UC), general professional(GPC) and professional (PC) :**
 UC-1, 3; **GPC** -1, 4, 7, 11; **PC**-1,2,3,4,5,6,10,12,14.

No ·P /p	Code and Name competencies	Code and name of the indicator achievements competencies	IN result studies educational disciplines "Phthiology" student must:		
			Know	Be able to	To own
Universal competencies					
1	<p>UC-1. Capable realize critical analysis problematic situations on basis systemic approach, to develop strategy actions</p>	<p>AI UC -1.1 . Analyzes problematic situation, How system, revealing her composite And connections between them. AI UC -1.2. Determines spaces V information, necessary For solutions problematic situations, And designs processes By their elimination. AI UC -1.3. Applies systemic analysis for permission problems-nyh situations V professional - Noah sphere. AI UC -1.4. Uses logical-methodological tools For critical ratings modern concepts philosophical And social character V his subject areas. AI UC -1.5. Critically evaluates reliability sources information, works With contradictory information from different sources.</p>	<p>Main historical stages development disciplines phthiology, anti-tuberculosis services, item And tasks disciplines, connection With others medical-biological And medical disciplines; main terms And concepts, used at tuberculosis ; modern concepts in phthiology; principles use logical-methodological tools For critical ratings modern concepts philosophical And social character in phthiology.</p>	<p>Describe stages formations phthiology How sciences And her role on modern stage ; evaluate levels organizations respiratory systems human; evaluate contribution domestic scientists in development phthiology; develop and to argue strategy solutions problematic situations based on the system And interdisciplinary approaches in phthiology.</p>	<p>Ability analyze significance tuberculosis on modern stage ; systemic analysis received data For permissions problematic situations V professional sphere; methodology developments And argumentation strategies solutions problematic situations on basis systemic And interdisciplinary approaches in phthiology; critical approach To assessment And reliability sources information, methodology works With contradictory information, received from different sources.</p>
2	<p>UC -3. Capable organize And to lead work teams,</p>	<p>AI UC -3.1. Establishes and develops professional contacts in accordance With needs of the joint activities, including exchange</p>	<p>Basic principles tolerant perceptionsocial , ethnic, confessional and cultural differences at</p>	<p>Tolerantly perceivesocial , ethnic, confessional And cultural differences inwork in team;</p>	<p>Ability To developmentteam strategy for achievements delivered goals, including, professional;</p>

	developing command strategy for achievements delivered goals	information And production united strategies; works in a team tolerant, accepting social, ethnic, confessional And cultural differences.	teamwork; skills of effective and conflict-free communication V team.	effectively and without conflict communicate in a group in that number, developing a command strategy to achieve goals.	ways of effective and conflict-free communication in team; tolerant to social , ethnic, confessional And cultural differences.
General professional competencies					
3	<p>GPC-1. Capable to implement moral and legal norms, ethical And deontological - kие principles V professional Ouch activities</p>	<p>AI GPC -1.1 . Carries out professional activity V in accordance With ethical norms And morally-moral principles. AI GPC -1.2. Organizes professional activity, guided by legislation V sphere health care, knowledge medical ethics And deontology. AI GPC -1.3. Has skills presentations independent dots of vision, analysis and logical thinking, public speeches, moral and ethical argumentation, management discussions And round tables, principles medical deontology And medical ethics.</p>	<p>Ethical And deontological aspects relationships "doctor-doctor", "doctor-patient"; principles effective And conflict-free communication with patients; methods effective communication between doctor and patient V difficult situations ; main requirements To personalities doctor; general principles management discussions And round tables.</p>	<p>Conduct physical examination of the patient taking into account ethical And deontological - kikh principles; effectively And conflict-free communicate With patients, relatives, colleagues; to form effective relationships With patient; observe principles confidentiality; conduct discussions, observing principles moral and ethical argumentation.</p>	<p>To own skills communication With sick, relatives colleagues, younger staff; determine problems appeals patient To to the doctor; methods verbal and non-verbal communication With patient; principles confidentiality V professional activities And communication With colleagues; continuous improve skills communication in professional activities of the doctor.</p>
4	<p>GPC -4. Capable apply medical products, provided e in order rendering medical help, A Also conduct</p>	<p>AI GPC -4.1. Uses modern medical technologies, specialized equipment And medical products, disinfection means, medicinal drugs, V volume number immunobiological And other substances And their combinations at decision professional tasks With positions evidentiary</p>	<p>Indications And contraindications To use modern medical technologies , medical products, medicinal drugs, instrumental, functional And laboratory methods</p>	<p>Apply modern medical technologies, specialized equipment, medical products, medicinal drugs V in accordance With in order rendering medical help, with positions evidentiary medicine in the area phthisiology; appoint</p>	<p>Ability To use modern medical technologies, specialized equipment, medical products, medicinal drugs and theirs combinations, With positions evidentiary medicine V in phthisiology; compare results additional</p>

	<p>examinations patient With purpose establishments diagnosis</p>	<p>medicine. AI GPC -4.2. Knows indications And contraindications To appointment instrumental, functional And laboratory methods examinations, possible complications at conducting examinations, urgent help And their warning. AI GPC -4.3. Interprets results most common methods instrumental, laboratory And functional diagnostics, thermometry For detection pathological processes. AI GPC -4.4. Owns methods general clinical examined - nia patient various age. AI GPC -4.5. Formulates preliminary diagnosis And clinical diagnosis according to ICD.</p>	<p>examinations at tuberculosis ; interpretation results most common methods instrumental, laboratory And functional diagnostics; methods general clinical examinations patient; principles formulations preliminary diagnosis And clinical diagnosis in phthisiology according to ICD.</p>	<p>instrumental, functional And laboratory methods examinations; interpret results methods instrumental, laboratory And functional diagnostics; conduct clinical examination patient; formulate preliminary diagnosis And clinical diagnosis to the patient With tuberculosis according to ICD.</p>	<p>methods examinations (instrumental, laboratory And functional diagnostics) For detection pathological processes; methods general clinical examinations patient various age; formulation preliminary diagnosis And clinical diagnosis according to ICD, considering totality clinical And additional methods examinations (instrumental, laboratory and functional).</p>
5	<p>GPC -7. Capable assign treatment and realize control his efficiency And security</p>	<p>AI GPC -7.1. Carries out choice medicinal means By aggregates his pharmacokinetic And pharmacodynamic characteristics For treatments patients With various nosological forms V outpatient And stationary conditions . AI GPC -7.2. Chooses optimal minimum most effective funds, using comfortable methods their applications.</p>	<p>Principles choice medicinal means By aggregates his pharmacokinetic And pharmacodynamic characteristics For treatments patients With various diseases in phthisiology; advantages selected preparation And preferred way his applications;</p>	<p>To implement choice optimal medicinal means (taking into account his pharmacokinetic And pharmacodynamic characteristics) And preferred methods his applications; identify main And side effects actions medicinal drugs, applied at tuberculosis, With taking into account morphofunctional features, physiological</p>	<p>Ability To appointment optimal medicinal means, choice preferred methods his applications, With taking into account morphofunctional features, physiological states And pathological processes at tuberculosis, possible interactions medicinal funds at combined</p>

		<p>AI GPC -7.3. Explains main And side effects actions medicinal drugs, effects from their joint applications And interactions With food With taking into account</p> <p>morphofunctional features, physiological states And pathological processes V in the body human</p> <p>AI GPC -7.5. Takes into account morphofunctional peculiarities, physiological states And pathological processes V in the body human at choice over-the-counter medicinal drugs And others goods pharmacy assortment.</p> <p>AI GPC -7.6. Analyzes results possible interactions medicinal funds at combined application various drugs.</p> <p>AI GPC -7.7. Evaluates efficiency And safety medicinal therapy By aggregates clinical-laboratory, instrumental And others methods diagnostics.</p>	<p>main And side effects actions medicinal drugs; morphofunctional peculiarities, physiological</p> <p>states And pathological processes V in the patient's body phthisiological diseases medicinal means; results possible interactions medicinal funds at combined application various drugs V phthisiology; criteria efficiency And security medicinal therapy By aggregates clinical-laboratory, instrumental And other methods diagnostics tuberculosis.</p>	<p>states And pathological processes organism human; choose over the counter medicinal drugs And other goods pharmacy assortment With taking into account</p> <p>physiological states And pathological processes at patients With tuberculosis; consider possible interaction medicinal funds at combined application various drugs V phthisiology; evaluate efficiency And safety medicinal therapy By aggregates clinical laboratory, instrumental And others methods diagnostics in phthisiology.</p>	<p>application various drugs; ability To timely identification side actions medicinal drugs,</p> <p>applied at tuberculosis ; definition By aggregates clinical-laboratory, instrumental And others methods diagnostics efficiency And security medicinal tuberculosis therapy.</p>
6	<p>GPC -11. Capable</p> <p>ready And apply</p> <p>scientific, scientific-</p>	<p>AI GPC -11.1 Applies modern methods of collection and processing information, conducts statistical analysis</p> <p>received data V professional areas And</p>	<p>Main methodological</p> <p>approaches to work With educational, scientific,</p> <p>reference, medical literature, V volume number,</p>	<p>On one's own work With educational, scientific, reference,</p> <p>medical literature, V volume number, And V networks Internet (conduct search And selection information) V areas</p>	<p>Ability To systemic approach To analysis educational , scientific, reference, medical information, V volume including the Internet sources (methodology</p>

<p>production yy , design, organizationally - managerial And normative documentation V system health care - nia</p>	<p>interprets results For solutions professional tasks. AI GPC 11.2 . Reveals And analyzes problematic situations, carries out search and selection scientific , normative legal And organizational- administrative documentation V in accordance With given goals. AI GPC 11.3. Interprets And applies data physical , chemical, mathematical And other natural sciences concepts and methods for solution professional tasks. AI GPC -11.4. Conducts scientific- practical research, analyzes information With using historical method And designs publications By results research. AI GPC -11.5. Analyzes And makes up accounting and reporting medical documentation And calculates quality And quantitative indicators, used in professional activities.</p>	<p>and in networks Internet (methods collection and processing information); algorithms and software means support acceptance solutions in during the course of treatment diagnostic process at tuberculosis; methods of collection, storage, search, processing, transformations And distribution information V medical informational systems ; methods management medical documentation; main statistical methods solutions intellectual tasks And their application in modern phthiology.</p>	<p>tuberculosis; conduct statistical processing, analysis received data And interpret results For solutions professional tasks V areas diagnostics and treatments tuberculosis; interprets And applies data physical , chemical, mathematical And other natural sciences concepts And methods For solutions professional tasks V areas phthiology.</p>	<p>collection And processing information); main skills use medical informational systems And Internet resources; methodology management medical documentation; main scientific methods knowledge: observation, description, measurement, experiment in areas tuberculosis; analysis And compilation accounting and reporting medical documentation and methodology calculation quality And quantitative indicators, used in phthiology.</p>
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Professional competencies

<p>7</p>	<p>PC-1. Capable to render medical help V urgent And emergency form</p>	<p>AI PC -1.3. Reveals states, requiring rendering medical help V emergency form AI PC - 1.4. Provides medical help V emergency form patients at states , representing threat life patient</p>	<p>Clinical signs states, requiring rendering medical help in emergency form at tuberculosis, methodology rendering medical help in emergency form at</p>	<p>Reveal clinical signs states, requiring turned out - nia medical help V emergency form at tuber - kulese (syndrome bronchial obstructions, acute breather - Noah insufficiency); to render medical help V ext -</p>	<p>Ability diagnose And to render medical help V emergency form at tuberculosis (syndrome bronchial obstructions, acute respiratory insufficiency).</p>
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			tuberculosis .	Rennoy form at tuberculosis.	
8	<p>PC-2. Capable gather And analyze complaints, anamnesis of life and anamnesis diseases patient With purpose establishments diagnosis</p>	<p>AI PC-2.1. Installs contact with the patient. AI PC-2.2. Carries out collection complaints, specifies their, highlighting main and secondary. AI PC-2.3. Collects and analyzes information O beginning diseases, availability factors risk, dynamics development symptoms and currents diseases. AI PC-2.4. Analyzes deadlines first And repetitive appeals for medical help, volume conducted therapy, her efficiency. AI PC-2.5. Collects And evaluates information about anamnesis life, including data O transferred diseases , injuries and surgeons-cheskie interventions , legacy - in the natural , professional, epidemiological anamnesis.</p>	<p>Methodology collection complaints (main, minor)</p> <p>patient With tuberculosis; methodology collection anamnesis diseases (terms appeals for medical with help, dynamics development symptoms, volume conducted therapy and her efficiency), anamnesis life, including factors risk tuberculosis, data O transferred diseases , injuries and surgical interventions , hereditary, professional, epidemiological anamnesis .</p>	<p>Install contact With patient; to conduct collection complaints And anamnesis diseases patient with tuberculosis, analyze received</p> <p>data; define factors risk existing diseases tuberculosis at patient; evaluate information about anamnesis life, devoting special attention accompanying diseases, hereditary, allergological , professional, epidemiological anamnesis .</p>	<p>Ability establishments contact, compliant relationships With patient With disease tuberculosis; conducting collection complaints (main, minor) , anamnesis diseases (start, dynamics development symptoms, appeal for medical with help, characteristic and volume conducted therapy And her efficiency), anamnesis life (factors risk, related diseases, allergological , professional, epidemiological anamnesis) patient With tuberculosis.</p>
9	<p>PC-3. Capable conduct physical examination patient, analyze results additional methods examinations With purpose establishments diagnosis</p>	<p>AI PC-3.1. Conducts complete physical examination patient (inspection, palpation, percussion, auscultation) And interprets his results AI PC-3.2. Justifies necessity, volume, order diagnostic events (laboratory, instrumental) And directions on patient consultations To to medical specialists AI PC-3.3. Analyzes</p>	<p>Methodology full physical examinations patient With disease tuberculosis (inspection, palpation, percussion, auscultation) And interpretation his results; necessity, volume, order diagnostic events And indications</p>	<p>Conduct complete physical examination patient with disease tuberculosis (inspection, palpation, percussion, auscultation) And interpret his results; determine necessity, volume, order diagnostic events And indications For Doctors' consultations-specialists; analyze And</p>	<p>Ability To conducting full physical examination patient with tuberculosis (inspection, palpation, percussion, auscultation) And interpretations his results; direct patient on carrying out diagnostic events (laboratory, instrumental), on consultation patient to</p>

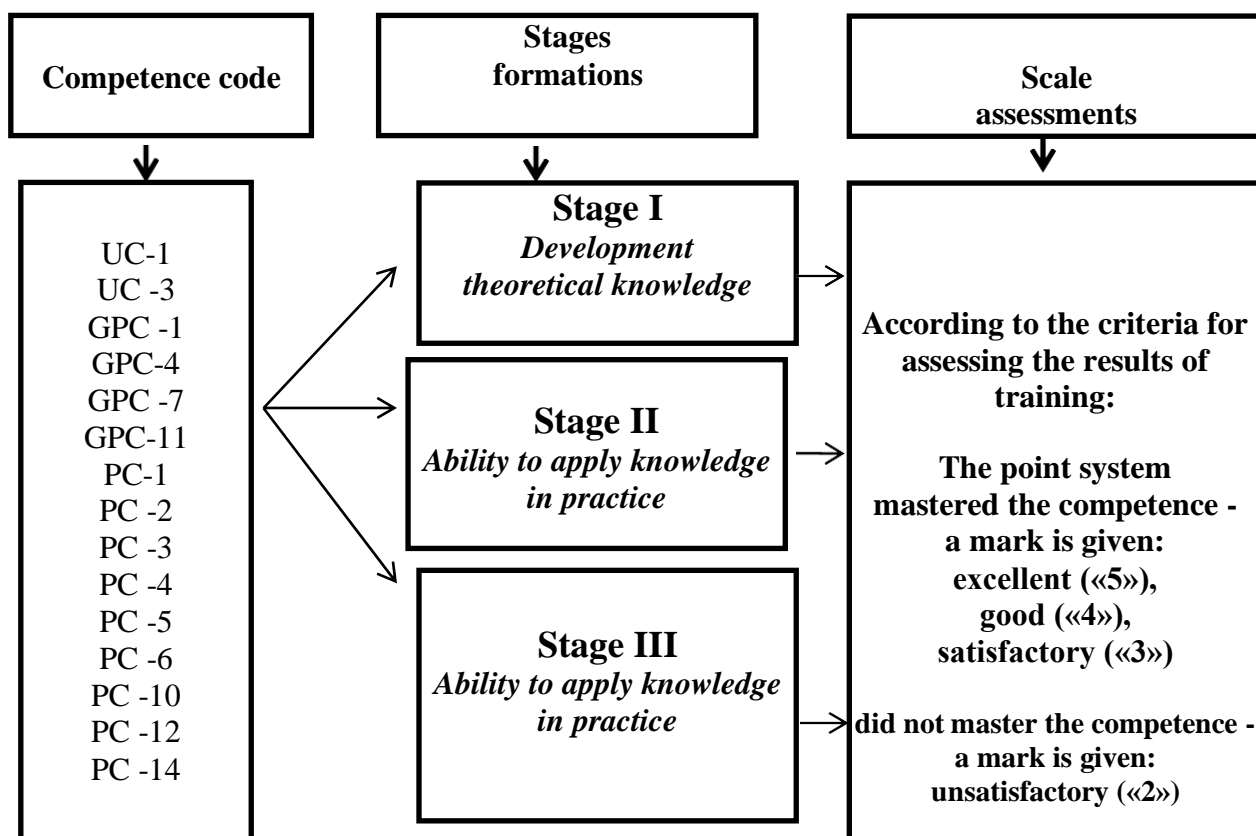
		<p>received results examinations patient, at necessity substantiates And plans volume additional research.</p> <p>AI PC-3.4. Interprets And analyzes results collection information O disease patient, data, received at laboratory, instrumental examination And at consultations patient by medical specialists, at necessity substantiates and plans volume additional research.</p> <p>AI PC-3.5. Carries out early diagnostics diseases internal organs. Installs diagnosis With taking into account current international statistical classifications diseases and problems, related to health (ICD)</p> <p>AI PC-3.6. Conducts differential diagnostics diseases internal organs from others diseases</p>	<p>For Doctors' consultations-specialists; methodology analysis and comparisons received clinical-diagnostic results examinations patient With tuberculosis; indications To appointment additional methods examinations (at necessity); principles early diagnostics, main symptoms and syndromes at tuberculosis; formulation diagnosis With taking into account current international statistical classifications diseases and problems, related with health (ICD); criteria differential diagnostics in phthiisiology.</p>	<p>compare received clinical and diagnostic results examinations patient With disease tuberculosis; determine indications To appointment additional methods examinations; identify syndromes and symptoms at tuberculosis, justify by them clinical diagnosis V in accordance With current international statistical classifications diseases And problems, related with health (ICD); to conduct differential diagnostics identified diseases.</p>	<p>to medical specialists; analysis and comparison received clinical and diagnostic results examinations patient With tuberculosis; skill to conduct analysis main clinical manifestations V differential diagnostics tuberculosis, production clinical diagnosis V in accordance With current international statistical classifications diseases And problems, related with health (ICD) and justify his; conducting differential diagnostics at tuberculosis .</p>
10	<p>PC-4. Capable determine indications To hospitalizations, indications For rendering ambulance , V volume number ambulance specialized nnn ,</p>	<p>AI PC-4.1. Determines medical indications For rendering ambulance , in volume number ambulance specialized,</p> <p>medical help</p> <p>AI PC-4.2. Directs patient For rendering specialized medical help in stationary conditions or V conditions daytime hospital at</p>	<p>Medical indications For rendering ambulance , in volume including ambulance specialized,</p> <p>medical help at tuberculosis ; medical indications</p> <p>For directions patient For rendering specialized</p>	<p>Define medical indications For rendering ambulance , V volume including ambulance specialized,</p> <p>medical help, to the patient with tuberculosis; define medical indications For directions patient For rendering specialized</p>	<p>Ability To definition medical testimony For rendering ambulance , V volume including ambulance specialized, medical help at tuberculosis ; skill</p> <p>define medical indications For directions patient For rendering</p>

	<p>medical help</p>	<p>availability medical testimony V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By questions rendering medical help With taking into account standards medical help AI PC-4.3. Applies medical products V corresponding - vii With in force orders rendering medical help, clinical recommendations (protocols treatment) By questions rendering medical help, help taking into account standards medical help</p>	<p>medical help in stationary conditions or V conditions daytime hospital, principles applications medical products V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By issues of provision medical help with taking into account standards medical help at tuberculosis .</p>	<p>medical help in in hospital or V conditions daytime hospital, principles applications medical products V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) in phthisiology.</p>	<p>specialized medical help in in hospital or in conditions daytime hospital, principles applications medical products V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By issues of provision medical help patients With tuberculosis.</p>
<p>11</p>	<p>PC-5. Capable appoint treatment patients</p>	<p>AI PC-5.1. Comprises plan treatments patient taking into account diagnosis, age patient, clinical paintings diseases, presence complications, accompanying pathologies, V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By questions rendering medical help With taking into account standards medical help AI PC-5.2. Assigns medicinal drugs, medical products and healing nutrition With taking into account diagnosis, age And clinical paintings diseases V in accordance With in force orders</p>	<p>Modern methods applications, mechanism actions, indications And contraindications To appointment medicinal drugs, medical products at differential diagnostics diseases organs I breathe (with taking into account diagnosis, age And clinical paintings diseases) V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By</p>	<p>Compose plan treatments patient with tuberculosis With taking into account diagnosis, age, clinical paintings diseases V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By issues of provision medical help With taking into account standards medical help in phthisiology; assign medicinal drugs, medical products, non-drug treatment at tuberculosis; render palliative help patients With tuberculosis; organize</p>	<p>Ability develop individual plan treatments patient With tuberculosis With taking into account diagnosis, age, clinical paintings diseases V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By issues of provision medical help with taking into account standards medical help in phthisiology; appoint non-drug treatment at tuberculosis; to render palliative</p>

		<p>rendering medical help, clinical recommendations, With taking into account standards medical help AI PC-5.3. Assigns non-drug treatment With taking into account diagnosis, age And clinical paintings diseases V in accordance With in force orders rendering medical help, clinical recommendations, With taking into account standards medical help AI PC-5.4. It turns out palliative medical help at interaction With by medical specialists And other medical workers AI PC-5.5. Organizes personalized treatment patient, V volume number, pregnant women, patients elderly and senile age</p>	<p>issues of provision medical help with taking into account standards medical help at tuberculosis ; non-drug treatment taking into account diagnosis, age And clinical paintings tuberculosis; principles rendering palliative helping patients With tuberculosis; principles organizations personalized treatments patient, in volume number , pregnant women, patients elderly And senile age with tuberculosis.</p>	<p>personalized treatment patient, V volume number, pregnant women, patients elderly And senile age With tuberculosis, V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment)</p>	<p>help patients With tuberculosis; organize personalized treatment patient, V volume number , pregnant women, patients elderly And senile age With tuberculosis, V in accordance With in force orders rendering medical help, clinical recommendations (protocols treatment) By issues of provision medical help with taking into account standards medical help in phthisiology;</p>
<p>12</p>	<p>PC-6. Capable to carry out control efficiency And security conducted therapy</p>	<p>AI PC-6.1. Evaluates effective -ness And safety applications medicinal drugs, medical products, medical nutrition and other methods treatments AI PC-6.2. Takes into account pharmacodynamics And pharmacokinetics main groups medicinal funds, warns development unwanted medicinal reactions, carries out their correction V case occurrence.</p>	<p>Information about efficiency And security applications medicinal drugs, medical products, medical nutrition and others methods treatments tuberculosis ; pharmacodynamics And pharmacokinetics main groups medicinal funds, applied V modern phthisiology.</p>	<p>Evaluate efficiency And safety applications medicinal drugs, medical products, medical nutrition And other methods treatments patients With tuberculosis; consider at appointment pharmacodynamics And pharmacokinetics medicinal funds, applied at treatment tuberculosis</p>	<p>Ability evaluate efficiency And safety applications medicinal drugs, medical products, medical nutrition And other treatment methods tuberculosis; skill consider at appointment peculiarities pharmacodynamics pharmacokinetics medicinal funds, applied V treatment</p>

					tuberculosis
13	<p>PC -10. Capable To conduct And control efficiency events By preventive - what work and formation healthy image life</p>	<p>AI PC-10.1. Assigns preventive events patients With taking into account factors risk For warnings And early detection diseases, V volume number And socially significant diseases</p>	<p>Forms And methods educational works, preventive events for patients - tov taking into account factors risk For warnings And early detection tuberculosis; factors risk development tuberculosis.</p>	<p>Reveal modifiable factors risk development tuberculosis; timely appoint preventive events patients With taking into account factors risk For warnings And early detection tuberculosis How socially significant diseases.</p>	<p>Ability To conducting educational works, preventive events For patients With taking into account identified factors risk development tuberculosis, for warnings And early detection tuberculosis How socially significant diseases.</p>
14	<p>PC-12. Ready. To to conduct medical documentation, V volume number in electronic view</p>	<p>AI PC-12.1 . Fills in medical documentation, V volume number V electronic view AI PC-12.2 . Works With personal data patients And information, components medical secret AI PC-12.3. Designs documents at direction patients on hospitalization, consultation, sanatorium-resort treatment, medical-social expertise</p>	<p>Rules design medical documentation (in volume number V electronic (see) V medical organizations phthisiological profiles; principles works with personal data patients And information, components medical secret</p>	<p>Fill medical documentation (V volume number V electronic (see) V medical organizations phthisiological profiles; work with personal data patients And information, components medical secret; to formalize documents at direction patients on hospitalization, consultation, sanatorium-resort treatment, medical-social expertise.</p>	<p>Ability To filling medical documentation V medical organizations ; skill work With perso-cash data patsi - ents and information, composition-lyating medical secret; to design documents when referral of patients With tuberculosis on hospital - lysis , consultation, sanatorium and resort treat - nie , medical and social expertise.</p>
15	<p>PC-14 . Capable accept participation V scientific-research Ouch activities</p>	<p>AI PC-14.1. Participates V conducting scientific research AI PC-14.2 . Analyzes medical information on basis evidentiary medicine AI PC-14.3 . Implements in practical health care new methods And methods, directed for security health adult population</p>	<p>Methodology conducting scientific research; main directions scientific research V modern phthisiology; principles And methods conducting scientific research, medical statistics</p>	<p>Accept participation V conducted - nii scientific research, analyze information on basis evidentiary medicine, deploy V practice - Czech work new methods, directed on security hi - rovy adult population, V volume number, on prevention development tuberculosis.</p>	<p>Ability participate V conducting scientific research; skill analyze information on basis evidentiary medicine And deploy V practical work new methods, aimed at security health adult population.</p>

1.7. Stages formations competencies And scale assessments



1.8 Forms organizations training And types control

Form organizations training students	Brief characteristic
Lectures	Lecture material contains Key And most problematic questions disciplines, most significant V preparation specialist.
Clinical practical classes	Intended For analysis (fixings) theoretical provisions And control over their assimilation With subsequent application received knowledge V in the course studies topics.
Interactive forms training	<ul style="list-style-type: none"> - execution creative tasks, - Job V Accreditation – simulation center, - discussion, - interactive survey, - business game, - testing V system Moodle .
Participation in scientific research the work of the department, student mug and conferences	<ul style="list-style-type: none"> - Preparation oral messages And stand reports For speeches on student mug or scientific conferences; - writing abstracts and theses on a selected scientific topic direction; - Preparation literary review With using educational , scientific, reference literature And Internet - sources.

Types control	Brief characteristic
Current control	Input control Examination theoretical knowledge And practical skills, being formed at studying the previous disciplines. Input control knowledge includes: <ul style="list-style-type: none"> - testing V Moodle system (test input control knowledge), - solution situational tasks And exercises. Results input control are systematized, are analyzed And are used pedagogical workers departments For developments activities to improve and update methods teaching disciplines.
	Current control (original, day off) knowledge includes: <ul style="list-style-type: none"> - check solutions situational tasks And exercises, completed on one's own (extracurricular independent work); - assessment of the assimilation of theoretical material (oral survey and computer testing); - testing V system Moodle By to all topics disciplines (tests include questions theoretical And practical character); - individual tasks (practical And theoretical) By each studied topic disciplines.
Intermediate certification	Intermediate certification (credit) With assessment) is being carried out V at the end XI semesters, includes 4 stages: <ol style="list-style-type: none"> 1. Test control V system Moodle . 2. Examination practical skills. 3. Interview By control questions. 4. Solution situational tasks.

Explanation. Theoretical knowledge By discipline students receive on lectures, clinical practical classes, accepting participation V research work departments, rounds sick With manager department, professor, associate professors, work V department functional diagnostics, X-ray room , clinical And biochemical laboratories, V Accreditation - simulation center. On clinical practical lessons are used to consolidate and control the acquired material. During the learning process interactive forms of training are used: business games, computer simulations, etc. Practical application theoretical material V everyday work is logical V in the process knowledge, helps purchase practical skills And skills. IN in the process curations patients, educational on duty students are being secured And are improving basics of patient examination, skills of interpretation of clinical and laboratory results instrumental examinations, formulations clinical diagnosis, appointments plan examinations and treatment, medical deontology, medical ethics.

Current control consists of assessing the work done by students during class theoretical knowledge And practical skills And includes V myself: input control (is carried out) on first occupation, intended For definitions level preparedness students And consists of V testing By previously passed disciplines); initial control (checking homework, testing, including, computer, frontal survey (similar theoretical And test questions will be offered on intermediate certification)); day off control (solution situational tasks; examination practical skills (interpretation results inspection patient, laboratory and instrumental methods examinations, formulation And justification

clinical diagnosis, differential diagnosis, compilation plan examinations And treatment), duty report With medical history report patient.

The midterm assessment includes a credit test with an assessment in the 11th semester and consists of ratings developed students for time passing disciplines theoretical knowledge And practical skills, includes final test control (V system Moodle), , check practical skills, interview By questions For intermediate certifications, solution situational tasks.

CHAPTER 2. C STRUCTURE AND CONTENT DISCIPLINES

2.1 Volume disciplines And types educational works

Types educational works	Total hours	XI semester
Lectures	20	20
Clinical practical classes	52	52
Independent Job students	36	36
General labor intensity V hours	108	108
General labor intensity V credited units	5	5

2.2 Thematic plan lectures And their brief content

No ·p /p	Subject lectures And their brief content	Codes generated competencies	Labor m - bone (hour.)
1.	Story development phthisiology. Sanitary and Epidemiological mode V clinic tuberculosis.Features of clinical examination of a patient with tuberculosis. Main clinical symptoms tuberculosis And others diseases lungs, their diagnostic And differentialdiagnostic meaning. Clinical classification of tuberculosis.	UC-1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
2.	Pathogenesis of tuberculosis. Anti-tuberculosis immunity. Vaccination and revaccination against tuberculosis. Efficiency. Post-vaccination immunity. Tuberculin diagnostics . Standard tuberculin try Mantu With 2 THOSE. BCG. Primary infection. Early period. Tuberculosis intoxication. Primary tuberculosis complex. Tuberculosis intrathoracic lymph nodes. Complicated forms primary tuberculosis organs breathing	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
3.	Secondary tuberculosis lungs. Concept. Pathogenesis. Focal, infiltrative tuberculosis. Caseous pneumonia. Clinic, diagnostics, treatment, outcomes. Outpatient clinic observation. Clinical and radiological characteristic. Options currents infiltrative tuberculosis And their meaning V development destructive tuberculosis. Outpatient clinic observation.	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
4.	Disseminated pulmonary tuberculosis. Types of dissemination. Routes of infection spread. Clinical painting disseminated tuberculosis. Diagnostics, clinic, flow, differential diagnostics, complications: generalization process, pleurisy, defeat larynx, eyes and other organs. Tuberculous meningitis. Clinic, diagnostics, treatment, outcomes Pleurisy tuberculous etiology. Clinic, diagnostics, treatment, outcomes.	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
5.	Cavernous, fibro-cavernous tuberculosis. Tuberculoma lungs. Clinic, diagnostics, treatment, dispensary observation. Pathogenesis And pathomorphology tuberculoma easy. Peculiarities of the clinical picture of pulmonary tuberculoma. The importance of the radiological method in diagnostics tuberculoma. Differential diagnostics, treatment And outcomes. Role operational treatments at tuberculomas easy.	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
6.	Extrapulmonary tuberculosis (genitourinary system, bones and joints, abdominal organs, peritoneum, pericardium, meningitis). Anti-tuberculosis antibiotics, chemotherapy drugs, doses, methods introductions, combinations. Meaning chemotherapy. Main principles chemotherapy.Side effects reactions organism on antibacterial drugs, treatment And prevention.	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
7.	Identification tuberculosis doctors common healing networks. Treatment tuberculosis. Methods And principles treatment. Chemotherapy, sanatorium-hygienic regime, pathogenetic treatment,diet therapy. Mass method of detection of tuberculosis, risk groups for tuberculosis,	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2

	individual method detection tuberculosis, decreed population		
8.	Tuberculosis And pregnancy. Principles appointments chemotherapy at pregnant V combination With tuberculosis lungs. Diagnostics tuberculosis, for the first time emerged on background pregnancy. Clinical signs And peculiarities congenital tuberculosis.	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
9.	Complications tuberculosis organs breathing: pulmonary bleeding, spontaneous pneumothorax, amyloidosis, chronic pulmonary heart, atelectasis. Surgical methods treatments sick tuberculosis lungs. Indications To various types surgical interventions. Differential diagnostics pulmonary bleeding. Clinic, diagnostics, rendering urgent help.	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
10.	Prevention tuberculosis. Groups accounting. Constant And temporary loss ability to work. Organization works anti-tuberculosis dispensary. Events By diagnostics tuberculosis, treatment and dispensary observation of patients. The work of general medical institutions preventive network for detection and prevention of patients. Specific prevention. BCG vaccine. Measures to isolate bacteria carriers , to prevent tuberculosis patients to work in children's institutions, enterprises, other institutions, working conditions which requires permanent contacts With population. Sanitary propaganda values By tuberculosis. Social prevention	UC -1, 3 GPC – 1,4,7,11 PC-1,2,3,4,5,6,10,12,14	2
Total			20

2.3. Thematic plan clinical practical classes And their content

No. the me sy p /p	Namethemes clinical practical classes	Contents of clinical topics practical classes	Codes being formed competencies And indicators of them achievements	Types control	We work hard -bone (watch)
1	Sanitary o-epidemiological mode in phthisiology	Theoretical part: Sanitary and epidemiological regime in the clinic tuberculosis. Peculiarities clinical examinations sick With tuberculosis. Deontology in phthisiology. Main clinical symptoms of tuberculosis and other lung diseases, their diagnostic And differential diagnostic meaning. Clinical classification tuberculosis. Formulation clinical diagnosis sick tuberculosis lungs. Practical Part: Methods X-ray diagnostics diseases organs breathing. Main X-ray symptoms	UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5	– home check tasks – frontal survey(oral or writing) – testing, including number and computer	3.4

		tuberculosis And others diseases lungs. Methods endoscopic, cytological, morphological, microbiological, immunological And laboratory diagnostics And differential diagnostics tuberculosis.	PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3	– solution situationaltasks – practical testingskills	
2	Tuberculosis and - nodiagnosics ka. Primary tuberculosis	Theoretical part: Epidemiology, etiology, pathogenesis and factors risk of tuberculosis. Classification. Clinical manifestations. Main diagnostic criteria. Methodology And technique productions samplesMantu With 2 THOSE. Meaning tuberculin samples V diagnostics And differential diagnostics tuberculosis. Anti-tuberculosis vaccination BCG And BCG-M. Indications And contraindications. Grade effectiveness of vaccination, possible complications. Primary period tuberculosis infections, tuberculosis intoxication. Tuberculosis intrathoracic lymphatic nodes, primary tuberculosis complex. Pathogenesis, diagnostics, clinical picture, treatment, differential diagnostics. Practical Part: analysis thematic sick primary tuberculosis, patient care , solving situational problems, working with handouts, educational, scientific, medical and reference materials literature, Federal recommendations By diagnostics And treatment primary tuberculosis.	UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3	– home check tasks – frontal survey(oral or writing) –testing, including number and computer – solution situationaltasks – practical testingskills	3.4
3	"Small forms" secondary tuberculosis	Theoretical part: Focal, infiltrative pulmonary tuberculosis. Caseous pneumonia. Pathogenesis, diagnostics, clinic, treatment. Practical Part: analysis thematic sick With focal And infiltrative tuberculosis. Curation sick, solution situational tasks, design working notebooks, educational stories diseases, Job With dispensing material, educational, scientific, medical and reference literature, Federal recommendationsBy diagnostics And treatment tuberculosis at adults.	UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3	– home check tasks – frontal survey(oral or writing) –testing, including number and computer – solution situationaltasks –examination practicalskills	3.4

4	Antituberculous dispensary	<p>Theoretical part: Anti-tuberculosis dispensary and organization his work. Contingents dispensary observation. Events By diagnostics tuberculosis, treatment And dispensary observation sick. Job institutions common medical o- preventive networks By identification and prevention sick .</p> <p>Practical part: Introduction with the establishment of a phthysiology service in the Amur region. Analysis of the subject patient, supervision of patients, solution situational tasks, design working notebooks, educational medical history, work with handouts, educational, scientific, medical and reference literature, standard specialized medical help, participation V work X-ray room , bronchotherapy room , clinical and biochemical laboratories, execution tasks By sample, report By on duty, design conclusions By archival X-rays.</p>	<p>UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3</p>	<ul style="list-style-type: none"> – home check tasks – frontal survey(oral or writing) – testing, including number and computer – solution situational tasks – practical testingskills 	3.4
5	Disseminated tuberculosis lungs	<p>Theoretical Part: Disseminated tuberculosis lungs. Miliary tuberculosis lungs. Pathogenesis, diagnostics, clinic, treatment, differential diagnostics. Tuberculosis meningitis. Pathogenesis, classification, clinic, diagnostics, treatment. Practical Part: analysis thematic sick or archival stories diseases, curations sick, solution situational tasks, design working notebooks, educational stories diseases, Job With handouts, educational, scientific, medical and reference literature, standard specialized medical help, participation V work X-ray room , bronchotherapy room , clinic o- biochemical laboratory, completing tasks according to the sample, reporting on on duty. design conclusions By archival X-rays.</p>	<p>UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3</p>	<ul style="list-style-type: none"> – home check tasks – frontal survey(oral or writing) – testing, including number and computer – solution situational tasks – practical testingskills 	3.4
6	Pleurisy. Differential linya diagnostics	<p>Theoretical Part: Epidemiology, etiology, factors risk, classification, criteria differential diagnostics pleurisy. Peculiarities pleural effusion at tuberculosis pneumonia, cancer easy, TELA, mesothelioma pleura, carcinomatosis pleura, insufficiency blood circulation, diffuse diseases connecting fabrics, parasitic invasions. Main diagnostic criteria, transudate And exudate. Complications. Treatment</p>	<p>UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5</p>	<ul style="list-style-type: none"> – home check tasks – frontal survey(oral or writing) – testing, including number And 	3.4

		<p>And prevention data diseases. Indications To operational treatment.</p> <p>Practical Part: analysis thematic sick or archival stories diseases, curation sick, solution situational tasks, design working notebooks, educational stories diseases, Job With handouts, educational, scientific, medical and reference literature, standard specialized medical help, participation V work X-ray room , bronchotherapy room , clinical-biochemical laboratory, completing tasks according to the sample, reporting on on duty . about design conclusions By archival X-rays.</p>	<p>PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3</p>	<p>computer – solution situationaltasks – practical testingskills</p>	
7	<p>Tuberculosis in combination with other diseases</p>	<p>Theoretical Part Tuberculosis lungs V combination With others diseases. HIV - infected, sugar diabetes, ulcerative disease stomach, hepatitis, alcoholism, mental diseases .Tuberculosis respiratory organs, combined with professional diseases lungs (coniotuberculosis). Classification, pathogenesis, clinic, differential diagnostics.</p> <p>Practical Part: analysis thematic sick or archival stories diseases, curation sick, solution situational tasks, design working notebooks, educational stories diseases, Job With handouts, educational, scientific, medical and reference literature, standard specialized medical help, participation V work X-ray room, broncho-office, clinic o- biochemical laboratory, completing tasks according to the sample, reporting on on duty, design conclusions .</p>	<p>UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3</p>	<p>– home check tasks – frontal survey(oral or writing) – testing, including number and computer – solution situationaltasks – practical testingskills</p>	3.4
8	<p>Diagnostics And intense therapy for bronchoobstructive syndrome (training in Accreditationally - certification)</p>	<p>Theoretical Part: Anatomical and functional peculiaritiesrespiratory systems (methodology conducting auscultation lungs With definition normal And pathological breathing, With listening wheezing on phantom, With realistically Maybe conducted imitation bronchial obstructions; anatomy bronchopulmonary systems on dummies).</p> <p>Practical part. Navigate in different circumstances development of emergency conditions; perform basic diagnostic measures to identify urgent and life-threatening conditionsin adult patients with respiratory pathology. Conduct timely And V full volume urgent medicinal events V</p>	<p>UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5</p>	<p>– home check tasks – frontal survey(oral or writing) – testing, including number and computer – solution situationaltasks</p>	3.4

	nom center)	in the event of development of life-threatening conditions in case of organ pathologybreathing. Assess your work as a team when performing manipulations.	PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3	– examination practicalskills	
9	Tuberculosis organs And systems	Theoretical part: Clinical symptoms and examination methods patients with tuberculosis of the genitourinary system, bones and joints, organs abdominal cavities, peritoneum, pericardium, meningitis . definition medicinal allergies, epidemiology, etiology Practical part: analysis of thematic patients, supervision of patients, solution situational tasks, design working notebooks, educational medical history, work with handouts, educational, scientific, medical and reference literature, standard specializedmedical help, participation V work bronchotherapy room , clinic o-biochemical laboratories, completing tasks according to the sample, reporting on on duty, design conclusions By laboratory methods diagnostics. Protection educational stories diseases	UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3	– home check tasks – frontal survey(oral or writing) – testing, including number and computer – solution situationaltasks – practical testingskills	3.4
10	Credit with assessment	Intermediate certification (credit) With assessment) is being carried out V 4 stages: 1. Test control V system Moodle 2. Examination practical skills. 3. Interview By control questions. 4. Solution situational tasks.	UC-1: AI 1.1., 1.2., 1.3., 1.4.,1.5 UC -3: AI 3.1. GPC-1: AI 1.1.-1.3 GPC -4: AI 4.1-4.5 GPC -7: AI 7.1.,7.2., 7.3.,7.5.,7.6.,7.7. GPC -11: AI 11.1-11.5 PC-1: AI 1.3.,1.4. PC-2: AI 2.1-2.5 PC-3: AI 3.1-3.6 PC-4: AI 4.1-4.3 PC-5: AI 5.1-5.5 PC-6: AI 6.1., 6.2 PC-10: AI 10.1 PC-12: AI 12.1-12.3 PC-14: AI 14.1-14.3	– credit With assessment (testing in Moodle system , , examination practical skills, interview on questions for intermediate certifications, solution situational tasks)	3.4
Total hours					34

2.4 Interactive forms conducting classes

WITH purpose activation cognitive activities students on practical classeswide interactive are used teaching methods.

No .p /p	Topic of clinical practiceclasses	We work hard bone V hours	Interactive form training	Labor intensity in hours, in % ofclasses
1	Sanitary and Epidemiologicalmode in phthisiology	5.2	Business game, testing V systemMoodle	45 min. (0.75 hours)/14.4%
2	Tuberculin diagnostics .Primary tuberculosis	5.2	Interactive survey, testing V systemMoodle	45 min. (0.75 hours)/14.4%
3	"Small forms" of secondary tuberculosis	5.2	Discussion, testing V systemMoodle	45 min. (0.75 hours)/14.4%
4	Anti-tuberculosis dispensary	5.2	Execution creative tasks, testing V system Moodle	45 min. (0.75 hours)/14.4%
5	Disseminated tuberculosislungs.	5.2	Business game, testing V systemMoodle	45 min. (0.75 hours)/14.4%
6	Pleurisy. Differentialdiagnostics	5.2	Discussion, testing V systemMoodle	45 min. (0.75 hours)/14.4%
7	Pulmonary tuberculosis in combination withothers diseases	5.2	Execution creative tasks, testing V system Moodle	45 min. (0.75 hours)/14.4%
8	Diagnostics and intensive care therapy at broncho-obstructive syndrome (training in Accreditation-simulation - certification center).	5.2	Work in Accreditation – simulation center,testing V system Moodle	45 min. (0.75 hours)/14.4%
9	Tuberculosis of other organs And systems	5.2	Interactive survey, testing V systemMoodle	45 min. (0.75 hours)/14.4%
10	Credit With assessment	5.2	testing V system Moodle	45 min. (0.75 hours)/14.4%

2.5. Criteria assessment of students' knowledge

Grade results training is being carried out according to "Provisions O system assessments results training students Federal State Budgetary Educational Institution of Higher Education Amurskaya GMA Ministry of Health Russia".

The basis for determining the level of knowledge, skills, and abilities are the criteria assessments – completeness and right:

- correct, accurate answer;
- correct, But incomplete or inaccurate answer;
- wrong answer;
- No answer.

At exhibiting marks taken into account classifications errors And their quality:

- rough errors;

- of the same type errors;
- not rude errors;
- shortcomings.

Distribution marks on clinical practical classes

No .p /p	Clinical Topic practical classes	Theoretical - Kaya Part	Practical s- kaya Part	Genera lgrade	Forms control
1.	Sanitary and Epidemiological mode in phthisiology	2-5	2-5	2-5	TheoreticalPart Oral or writing survey -Test tasks, including number computer PracticalPart Interview on situational tasks , examination practical bedside skills sick, in Accreditation - simulation center , design non-educational medical history andskills to work with regulatingwe documents -Execution exercises on sample
2.	Tuberculin diagnostics . Primary tuberculosis	2-5	2-5	2-5	
3.	"Small forms" secondary tuberculosis	2-5	2-5	2-5	
4.	Anti-tuberculosis dispensary	2-5	2-5	2-5	
5.	Disseminated tuberculosis lungs	2-5	2-5	2-5	
6.	Pleurisy. Differential diagnostics	2-5	2-5	2-5	
7.	Tuberculosis lungs in combination With others diseases	2-5	2-5	2-5	
8.	Diagnostics and intensive careat broncho-obstructive syndrome (training in Accreditation - simulation center)	2-5	2-5	2-5	
9.	Tuberculosis other organs And systems	2-5	2-5	2-5	
10.	Credit With assessment	2-5	2-5	2-5	
Educational story diseases				2-5	
Average score					

Input control

It is being held on first occupation, includes testing V system Moodle .

Mode access: <https://educ-amursma.ru/mod/quiz/view.php?id=12416>

Current control

Current control includes original And day off control knowledge.

Original control - is carried out teacher V beginning each classes V viewfrontal survey, solutions situational tasks, testing V system Moodle .

Day off control - includes control for methodology execution practical skills Anddesign protocol, testing V system Moodle .

Mode access: <https://educ-amursma.ru/course/view.php?id=600>

The final assessment during the current knowledge assessment is given on the day of the assessment. classes, as the arithmetic mean result for all types of activities provided forthis in the course of the work program of the discipline

Evaluation scales current control knowledge

Success development students disciplines (topics/sections), practical skills And skills characterized by high quality assessment And is being evaluated By 5-ti pointsystem: "5" - Great, "4" - Fine, "3" - satisfactorily, "2" - unsatisfactory.

Criteria assessments

Level success	Mark By 5-ti point scale
90 - 100%	"5"
80 - 89%	"4"
70 - 79%	"3"
less 70 %	"2"

Criteria ratings (marks) theoretical parts

"5" - for the depth and completeness of mastery of the content of the educational material in which the student easily is oriented, for skills unite theoretical questions With practical , express And to justify their judgments, competently And logical to expound answer; at testing allows up to 10% erroneous answers.

"4" - the student has fully mastered the educational material, is oriented in it, and presents it competently answer, but the content and the form has some inaccuracies; at testing allows to20% erroneous answers.

"3" - the student has mastered the knowledge and understanding of the main provisions of the educational material, but sets out his incomplete, inconsistently, Not can express And to justify their judgments; at testing allows up to 30% erroneous answers.

"2" - student has scattered And unsystematic knowledge educational material, Not can distinguish between the main and the secondary, makes mistakes in defining concepts, distorts them meaning, presents the material in a disorderly and uncertain manner, allows more than 30% during testing erroneous answers.

Criteria ratings practical parts

"5" - the student supervises the thematic patient on a daily basis, has fully mastered the practical skills skills And skills, provided working program disciplines (Right interprets complaints sick, anamnesis, data objective inspection formulates clinical diagnosis, appoints examination And treatment, interprets clinic o- laboratory and instrumental indicators With taking into account the norm).

"4" - the student supervises the thematic patient on a daily basis, has fully mastered the practical skills skills And skills, provided working program disciplines, however allowssome inaccuracies.

"3" - student irregularly supervises sick, student owns only some practical skills and skills.

"2" - student less 4 once visited supervised hurt, practical skills And skills performs with gross errors.

Criteria ratings educational stories diseases

"5" - design educational stories diseases according to requirements.

"4" - in the medical history the student makes some inaccuracies in the wording expanded clinical diagnosis, examination and treatment.

"3" - the medical history is filled out with errors and written in illegible handwriting, admitted inaccuracies V formulation expanded clinical diagnosis, treatments, Not illuminated the full pathogenesis of the disease.

"2" - story diseases written illegible handwriting, With rude mistakes (Not exhibited and a detailed clinical diagnosis is not substantiated, treatment is prescribed incorrectly, and is not covered pathogenesis diseases.

Working off debts By discipline

If a student misses a class for a valid reason, he has the right to work it off it and get the maximum mark provided for by the work program of the discipline for This class. Respectful cause should be documented.

If a student misses a class without a valid reason or receives a grade of "2" for All types of activities on occupation, then he owes it to him work it out.

If a student is exempted from a class on the recommendation of the dean's office (participation in sports, cultural and mass And other events), That to him for This class is exhibited mark "5" at condition provision report O execution mandatory extracurricular independent works on the topic missed class.

Criteria assessments intermediate certifications

Intermediate certification (credit) With assessment) is being carried out V 4 stages:

1. Test control V system Moodle .
Access mode: <https://educ-amursma.ru/mod/quiz/view.php?id=12873>
General number of tests tasks – 342
2. Examination practical skills.
3. Interview By control questions.
4. Solution situational tasks.

Criteria assessments intermediate certifications

“Excellent” - for the depth and completeness of mastery of the content of the educational material, in which the student is easily oriented, for the ability to connect theoretical issues with practical ones , express and justify your judgments, and present your answer competently and logically. Practical skills And skills, provided working program disciplines, mastered fully.

"Fine" - student fully mastered training material, is oriented V him, competently sets out the answer, but the content and form have some inaccuracies. Completely practical skills And skills, provided working program disciplines, however allow some inaccuracies.

"Satisfactorily" - student took possession knowledge And understandings main provisions educational material, But sets out his incomplete, inconsistently, Not can express And to justify their judgments. Owns only some practical skills And skills.

"Unsatisfactory" - student has scattered And unsystematic knowledge educational material, not can distinguish between the main and the secondary, makes mistakes in definition concepts, distorts their meaning, presents the material in a disorderly and uncertain manner. Practical skills And skills are performed with gross errors.

Criteria assessments intermediate certifications

Stages	Mark By 5-ti point scale	
Test control V Moodle system	3-5	5 - "excellent" 4 - "Fine" 3 - "satisfactorily"
Examination practical skills	3-5	
Interview By control questions.	3-5	
Solution situational tasks.	3-5	
Test control V Moodle system	2	2 – "unsatisfactory"
Examination practical skills	2	
Interview By control questions.	2	
Solution situational tasks.	2	

2.6. Independent Job students: auditorium And extracurricular

Independent work of students consists of two components: classroom and extracurricular (mandatory) For all students And optional) work.

Auditorium independent Job students

The students' independent classroom work consists of 25% of the time allotted on educational class. Auditorium Job includes : main didactic tasks independent work of students under the guidance of a teacher: consolidation of knowledge and skills acquired during the study academic discipline in lectures and practical classes classes; prevention their forgetting; extension And deepening educational material; formation skills And skills independent works; development independent thinking and creative students' abilities.

IN auditorium work students includes: examination current knowledge By topic practical lesson in the form of an oral or written survey, test control, decision situational tasks, interpretation of laboratory and instrumental indicators, compilation plan examinations And treatment. Introduction With available on department methodical benefits, tables, schemes, stands, tablets. Curation sick And design educational medical history. Individual work with mastering and implementation practical skills.

Extracurricular independent Job students

IN quality main forms extracurricular independent works can be used: study of basic and additional educational and scientific literature; solution situational tasks, test tasks, Job V Internet class; Preparation oral messages (reports); writing educational stories diseases; duty V clinic; PreparationTo report By on duty, execution diagnostic manipulation; implementation observation and self-observation of specific clinical phenomena under study and others. This type of educational activity should be based on activity, initiative, and awareness. And amateur performance students.

Extracurricular independent Job students

Topic clinical practical classes	Time prepki student To occupation (hour.)	Forms extracurricular independent works	
		Mandatory and the same for all students	By choice student
		On duty at the hospital, report By on duty	
Sanitary o-epidemiological mode in phthisiology	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, preparation of medical history, working notebooks, Job V Internet class . Preparation for report thematic sick.	Report or computer presentation By topic: "Peculiarities examinations tuberculosis sick", "The arrangement of the office doctor - phthisiatrician",
Tuberculin diagnosis with -tick. Primary tuberculosis	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, design stories diseases, working notebooks.	Report or computer presentation By topic: « Modern methods tuberculin diagnosis with - tics ", « Tuberculosis intrathoracic lymph nodes »
"Small Forms" secondary tuberculosis	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.) .Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, preparation of medical history, working notebooks, Job V Internet class .	Report or computer presentation By topic: "Differential diagnostics of "small forms of secondary tuberculosis with others diseases »; "Methods surgical treatments infiltrative tuberculosis"
Anti-tuberculosis dispensary	2	Preparation for theoretical questions (lecturing, basic And additional literature, methodological recommendations, refereeing,	Preparation presentations or making a table, tablet By topic: " Device

		drawing up notes, diagrams, algorithm, etc.) .Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, design stories diseases, workbook, work inInternet class .	anti-tuberculosis services V RF", "Groups dispensary observations"
Disseminated tuberculosis lungs.	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution e(or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, preparation of medical history, working notebooks, Job V Internet class . Preparation for report thematic sick.	Preparation presentations or abstract review on the topic: "Miliary tuberculosis", "Surgical treatment disseminated tuberculosis",
Pleurisy. Differential diagnostics	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution e(or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, preparation of medical history, working notebooks, Job V Internet class .	Preparation presentations or abstract reviewBy topic: "Tuberculosis pleurisy: peculiarities clinical courseand treatments on modern stage."
Pulmonary tuberculosis in in combination with othersdiseases	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, design stories diseases, workbook, work inInternet class .	Preparation presentations or abstract reviewBy topic: "Coniotuberculosis" "Tuberculosis and Sugar diabetes".
Diagnostics And intense therapy atbroncho-obstructive syndrome (education V Accreditation - simulation center	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm And etc.). Solution (or (composition) tasks, tests,	Preparation presentations or abstract reviewBy topic: " Broncho-obstruction in -ny syndrome"

		writing recipes, algorithms, preparation of medical history, working notebooks, Job V Internet class . Preparation for report thematic sick.	
Tuberculosis of othersorgans and systems	3	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, preparation of medical history, workbook, work in Internet class . Preparing for the report thematic patient. Preparation To final occupation, design working notebooks.	Preparation presentations or abstract review on the topic: "Tuberculosis adrenal glands", "Tuberculosis eye"
Emergency conditions (status asthmaticus, anaphylactic shock, urticaria, swelling Quincke)	1	Preparation for theoretical questions (lecturing, primary and secondary literature, methodological recommendations, refereeing, drawing up notes, diagrams, algorithm, etc.). Solution (or compilation) of tasks, tests, writing recipes, algorithms, completing tasks according to a model, preparation of medical history, working notebooks, preparation for protection stories diseases.	Preparation presentations By topic: "Complications surgical treatment for tuberculosis lungs"
Intermediate certification (credit withassessment)	2	Preparing for the Clinical Decision situational tasks and tests intermediate knowledge control. Preparing for an interview questions for credit, for passing practical skills, to protection educational medical history	
Labor intensity V hours	30	30	6
General labor intensityhours	36		

2.7. Research and development (project) Job

Research (project) work of students (R&D) is mandatory section of the study of the discipline and is aimed at the comprehensive formation of universal, general professional And professional competencies students, provides for study of specialized literature and other scientific and technical information on the achievement domestic and foreign science and technology in the relevant field of knowledge, participation in conducting scientific research, etc. Subjects of scientific research can be chosen by students on one's own or in consultation with teacher.

Approximate topics research (project) works students:

1. Peculiarities clinical currents tuberculosis.
2. Clinical and functional features of the course of pulmonary tuberculosis in pregnant women and in postpartum period.
3. Peculiarities clinical currents, structure tuberculosis V Amur areas.
4. Current questions diagnostics And treatments tuberculosis.

For ratings Research accepted binary scale evaluation: "passed", "not "passed."

Criterion ratings research (project) works students:

- the material on the results of the research in the report is presented in detail, well-developed special literature, studied scientific and technical information O achievement domestic And foreign sciences and techniques V corresponding areas knowledge - "passed".
- material O results research V report outlined not enough right, Badly worked out special literature, studied scientific and technical information O achievements of domestic and foreign science and technology in the relevant field knowledge - "Not "passed."

3. EDUCATIONAL, METHODOLOGICAL, MATERIAL AND TECHNICALINFORMATIONAL SECURITY DISCIPLINES

3.1 Main literature:

1. Koshechkin V.A., Phthisiatry / Koshechkin V.A. - M. : ГЭОТАР-Медиа, 2017. - 256 с. - ISBN 978-5-9704-3973-9 - Phthisiatry : textbook / Koshechkin V.A. - M. : GEOTAR-Media, 2017. - 256 p. - ISBN 978-5-9704-3973-9.

<http://www.studentlibrary.ru/book/ISBN9785970439739.html>

2. Phthisiology: textbook / D. B. Giller, V. Yu. Mishin et al. - Moscow: GEOTAR-Media, 2024. - 576 p. - ISBN 978-5-9704-8197-4. - Text: electronic // Electronic Library System "Student Consultant": [site]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970481974.html> (date accessed: 02.11.2024). - Access mode: by subscription.

3. Perelman, M. I. Phthisiology: textbook / M. I. Perelman, I. V. Bogadejnikova. - 4th ed., revised and enlarged. - Moscow: GEOTAR-Media, 2015. - 448 p. - ISBN 978-5-9704-3318-8. - Text: electronic // Electronic Library System "Student Consultant": [website]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970433188.html> (date accessed: 08.11.2024). - Access mode: by subscription.

4. Mishin, V. Yu. Phthisiology: textbook / V. Yu. Mishin, S. P. Zavrashnov, A. V. Mitronin, A. V. Mishina. - 3rd ed., revised and enlarged. - Moscow: GEOTAR-Media, 2021. - 528 p. - ISBN 978-5-9704-6391-8. - Text: electronic // Electronic Library System "Student Consultant": [site]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970463918.html> (date accessed: 11/12/2024). - Access mode: by subscription.

5. Koshechkin, V. A. Phthisiology: textbook / V. A. Koshechkin. - Moscow: GEOTAR-Media, 2018. - 304 p.: ill. - 304 p. - ISBN 978-5-9704-4627-0. - Text: electronic // Electronic Library System "Student Consultant": [website]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970446270.html> (date accessed: 11/12/2024). - Access mode: by subscription.

3.2 Further reading:

1. Borodulina, E. A. Radiation diagnostics of pulmonary tuberculosis: a tutorial / Borodulina E. A., Borodulin B. E., Kuznetsova A. N. - Moscow: GEOTAR-Media, 2021. - 120 p. - ISBN 978-5-9704-5991-1. - Text: electronic // Electronic Library System "Student Consultant": [site]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970459911.html> (accessed: 11/12/2024). - Access mode: by subscription.
2. Kulchavenya, E. V. Tuberculosis as a sexually transmitted disease: a guide for doctors / E. V. Kulchavenya. - Moscow: GEOTAR-Media, 2023. - 160 p. - ISBN 978-5-9704-7559-1, DOI: 10.33029/9704-7559-1-KEV-2023-1-160. - The electronic version is available on the website of the electronic library system "Student Consultant": [site]. URL: <https://www.studentlibrary.ru/book/ISBN9785970475591.html> (date of access: 11/12/2024). - Access mode: by subscription. - Text: electronic

3. Emergencies in Tuberculosis: a tutorial / T. V. Zyryanova, L. V. Lebed, S. V. Sklyuev [et al.]. - Novosibirsk: NGMU, 2021. - 69 p. - Text: electronic // Lan: electronic library system. - URL: <https://e.lanbook.com/book/258119> (date accessed: 11/12/2024). - Access mode: for authorized users.
4. Private issues of phthisiology: a tutorial / P.N. Novoselov, T.P. Dudarova, I.A. Denisenko, I.V. Ebert. - Chelyabinsk: Titul, 2021. - 122 p. - Text: electronic // EBS "Bukap": [site]. - URL: <https://www.books-up.ru/ru/book/chastnye-voprosy-ftiziatrii-15046133>. - Access mode: by subscription.

3.3. Educational and methodological security disciplines, prepared employees departments

1. Voitsehovsky V.V., Landyshev Yu.S., Grigorenko A.A. Bronchopulmonary complications chronic lymphocytic leukemia And multiple myelomas. - Blagoveshchensk, 2009. 305 With.
2. Landyshev Yu.S., Dorovskikh V.A. Pneumonia V period pandemics flu A/H1N1 swl . - Blagoveshchensk, 2011. 172 p.

Electronic And digital technologies:

Multimedia presentations (Microsoft Power Point 2016), to lecture-type classes, according to, thematic plan lectures:

Mode access: <https://educ-amursma.ru/course/view.php?id=600>

Video films, photographic materials used in teaching students(prepared department employees)

Video films And photo materials:

1. Segmental structure lungs
2. Primary tuberculosis complex
3. Disseminated tuberculosis lungs
4. Focal tuberculosis lungs
5. Infiltrative tuberculosis lungs
6. Cavernous tuberculosis lungs
7. Fibrocavernous tuberculosis lungs
8. Laboratory diagnostics
9. Diaskintest

Electronic educational benefits:

"Principles examinations sick With pathology bronchopulmonary systems" (posted on website Federal State Budgetary Educational Institution (VO Amur State Medical Academy).

Mode access: <https://www.amursma.ru/zakrytaya-chast-sayta/6-kurs/>

3.4. Equipment, used For educational process

No. p /p	Name	Quantity - in
Educational room №1		
1	Board educational	0
2	Table teacher	1
3	Table training	7
4	Chair	14
5	Negatoscope	1
6	Pulse oximeter	0
7	Stands thematic	3
8	Folder-booklet With set radiographs	4
Accreditation and certification center (audiences №3)		
9	Table	1
10	Bedside nightstand	1

11	System video monitoring And records process simulation training	1
12	Bed medical	1
13	Table medical	1
14	Table procedural	1
15	Simulator patient, imitation adult man For training skills ECG	1
16	Robot simulator For training skills extended cordially-pulmonary resuscitation	1
17	Dummy For cardiopulmonary resuscitation	1
18	training mannequin With opportunity conducting defibrillation	1
19	Pulse oximeter	1
20	Glucometer	1
21	Exercise machine recovery cross-country ability respiratory paths	1
22	Exercise machine resuscitation adult human	1
23	Phantom resuscitation	1
Cabinet bronchoscope and JSC PTD		
24	Bronchofiberscope BF-P 60	1
25	Pulse oximeter	1

3.5. Professional databases, information and reference systems, electronic educational resources

Resource name	Resource Description	Access	Resource address
Electronic library systems			
"Student consultant. Electronic library of the medical university"	For students and teachers of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids and periodicals.	Remote access after registration under the university profile	https://www.studentlibrary.ru/
Reference and information system "MedBaseGeotar".	The reference and information system "MedBaseGeotar" is intended for practicing medical specialists, researchers, teachers, postgraduate students, residents, senior students, and healthcare managers for the rapid search, selection, and reading of medical literature necessary for work in a single data source.	Remote access after registration under the university profile	https://mbasegeotar.ru/pages/index.html
Electronic library system "Bookup"	Large medical library - information and educational platform for the joint use of electronic educational, educational and methodological publications of medical universities of Russia and the CIS countries	Remote access after registration under the university profile	https://www.books-up.ru/
EBS "Lan"	Network electronic library of medical universities - an electronic database of educational and scientific works on medical topics, created for the purpose of implementing network forms of professional educational programs, open access to educational materials for partner universities	Remote access after registration under the university profile	https://e.lanbook.com/
Scientific electronic library "CyberLeninka"	CyberLeninka is a scientific electronic library built on the paradigm of open science (Open Science), the main tasks of which are the popularization of science and scientific activity, public control of the quality of scientific publications, the development of interdisciplinary research, a modern institute of scientific review, increasing the citation of Russian science and building a knowledge infrastructure. Contains more than 2.3 million scientific articles.	free access	https://cyberleninka.ru/
Oxford Medicine Online	A collection of Oxford medical publications, bringing together over 350 titles into a single, cross-searchable resource. Publications include The Oxford Handbook of Clinical Medicine and The Oxford Textbook of Medicine, both of which are continually updated electronically.	free access	http://www.oxfordmedicine.com
Human Biology Knowledge Base	Reference information on physiology , cell biology , genetics , biochemistry , immunology , pathology . (Resource of the Institute of Molecular Genetics of the Russian Academy of Sciences .)	free access	http://humbio.ru/
Medical online library	Free reference books, encyclopedias, books, monographs, abstracts, English-language literature, tests.	free access	https://www.medlib.ru/library/library/books
Information systems			
Clinical Guidelines Rubricator	A resource of the Russian Ministry of Health that contains clinical recommendations developed and approved by medical professional non-profit organizations of the Russian Federation, as well as methodological guidelines, nomenclatures and other reference materials.	link to download the application	https://cr.minzdrav.gov.ru/#/
Federal Electronic Medical Library (FEMB)	The Federal Electronic Medical Library is part of the unified state information system in the field of healthcare as a reference system . FEMB was created on the basis of the funds of the Central Scientific Medical Library named after I.M. Sechenov.	free access	https://femb.ru/
Russian Medical Association	Professional Internet resource. Objective: to promote effective professional activity of medical personnel. Contains the charter, personnel, structure, rules of entry, information about the Russian Medical Union.	free access	http://www.rmass.ru/
Web-medicine	The site presents a catalog of professional medical resources, including links to the most authoritative subject sites, journals, societies, as well as useful documents and programs. The site is intended for doctors, students,	free access	http://webmed.irkutsk.ru/

	employees of medical universities and scientific institutions.		
Databases			
World Health Organization	The site contains news, statistics on countries that are members of the World Health Organization, fact sheets, reports, WHO publications and much more.	free access	http://www.who.int/ru/
Ministry of Science and Higher Education of the Russian Federation	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters, reports, publications and much more	free access	http://www.minobrnauki.gov.ru
Ministry of Education of the Russian Federation	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications and much more	free access	https://edu.gov.ru/
Federal portal "Russian education"	A single window for access to educational resources. This portal provides access to textbooks on all areas of medicine and health care.	free access	http://www.edu.ru/
Polpred.com	Electronic library system Business media. Media Review	free access	https://polpred.com/news
Bibliographic databases			
Database "Russian Medicine"	It is created in the Central Scientific and Methodological Library and covers the entire collection, starting from 1988. The database contains bibliographic descriptions of articles from domestic journals and collections, dissertations and their abstracts, as well as domestic and foreign books, collections of institute proceedings, conference materials, etc. Thematically, the database covers all areas of medicine and related areas of biology, biophysics, biochemistry, psychology, etc.	free access	https://rucml.ru/
PubMed	A text database of medical and biological publications in English. The PubMed database is an electronic search engine with free access to 30 million publications from 4,800 indexed journals on medical topics. The database contains articles published from 1960 to the present day, including information from MEDLINE, PreMEDLINE, NLM. Each year, the portal is replenished with more than 500 thousand new works.	free access	https://pubmed.ncbi.nlm.nih.gov/
eLIBRARY.RU	Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of more than 13 million scientific articles and publications. The eLIBRARY.RU platform provides electronic versions of more than 2,000 Russian scientific and technical journals, including more than 1,000 open access journals.	Full functionality of the site is available after registration	http://elibrary.ru/defaultx.asp
Electronic library of dissertations (RSL)	Currently, the Electronic Library of Dissertations of the Russian State Library contains more than 919,000 full texts of dissertations and abstracts.	free access	http://diss.rsl.ru/?menu=disscatalog/
Medline.ru	Medical and biological portal for specialists. Biomedical journal.	free access	https://journal.scbmt.ru/jour/index
Official Internet portal of legal information	The single official state information and legal resource in Russia	free access	http://pravo.gov.ru/

3.6. "Licensed and freely distributed software used in the educational process."

List of software (commercial software products)

No. p/p	List of software (commercial software products)	Details of supporting documents
1.	MS Operating System Windows 7 Pro	License number 48381779
2.	MS Operating System Windows 10 Pro	CONTRACT No. UT-368 from 09.21.2021

3.	MS Office	License number: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919
4.	Kaspersky Endpoint Security for Business – Standard Russian Edition. 50-99 Node 1 year Educational Renewal License	Agreement No. 7 AA dated 02/07/2025
5.	1C Accounting and 1C Salary	LICENSE AGREEMENT 612/L dated 02.02.2022 (additional licenses)
6.	PROF University	LICENSE AGREEMENT No. KrTsB-004537 dated 12/19/2023
7.	1C: PROF Library	LICENSE AGREEMENT No. 2281 dated 11.11.2020
8.	Consultant Plus	Contract No. 41AA dated 12/27/2024
9.	Contour.Tolk	Agreement No. K213753/24 dated 13.08.2024
10.	E-learning environment 3KL (Russian Moodle)	Agreement No. 1362.5 dated November 20, 2024
11.	Astra Linux Common Edition	Agreement No. 142 A dated September 21, 2021
12.	Information system "Plans"	Agreement No. 2873-24 dated June 28, 2024
13.	1C: Document Management	Agreement No. 2191 dated 10/15/2020
14.	R7-Office	Agreement No. 2 KS dated 12/18/2020
15.	License "OS ROSA CHROME workstation"	Agreement No. 88A dated 08/22/2024
16.	Alt Virtualization Server 10 (for secondary specialized and higher professional education)	Agreement No. 14AK dated 09/27/2024
17.	Dr.Web Desktop Security Suite Comprehensive protection + Control Center for 12 months.	Agreement No. 8 dated October 21, 2024
18.	Software "Schedule for educational institutions"	Agreement No. 82A dated July 30, 2024

List of freely distributed software

No. p/p	List of freely distributed software	Links to license agreement
1.	Yandex Browser	Freely distributed License agreement for the use of Yandex Browser programs https://yandex.ru/legal/browser_agreement/
2.	Yandex.Telemost	Freely distributed License Agreement for the Use of Programs https://yandex.ru/legal/telemost_mobile_agreement/
3.	Dr.Web CureIt!	Freely distributed License Agreement: https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf
4.	OpenOffice	Freely distributed License: http://www.gnu.org/copyleft/lesser.html
5.	LibreOffice	Freely distributed License: https://ru.libreoffice.org/about-us/license/
6.	VK Calls	Freely distributed https://vk.com/license
7.	Kaspersky Free Antivirus	Freely distributed https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt

3.7. Resources of the information and telecommunications network "Internet"

- Replace the Amur State Medical Academy library e-mail address with <https://amurgma.ru/obuchenie/biblioteki/biblioteka-amurskoy-gma/>
- The e-mail address of the Electronic Library System "Student Consultant" should be replaced with <https://www.studentlibrary.ru>

4. FUND EVALUATION MEANS

4.1. Test tasks current control And intermediate certifications

4.1.1. Test tasks current control (input, original, day off)

Entrance control for the discipline is carried out in the Moodle system , access mode:
<https://educ-amursma.ru/mod/quiz/view.php?id=12416>

general quantity test tasks - 149.

Examples test tasks input control (With standards answers)

Examples test tasks V system Moodle :

Specify one correct answer

1. "TYPICAL PATHOLOGICAL PROCESS" - THIS
 - 1) This standard, formed V in the course evolution process, carrier V to yourself protective and adaptive mechanisms, developing V answer on action pathogenic factors (inadequate irritants) And By his essence is sanogenetic mechanism
 - 2) This inadequate (quantitatively And qualitatively) answer on physiological stimulus or on action non-physiological stimulus
 - 3) this is a long-term pathological process or recovery with a defect functions
 - 4) This answer organism or his parts on external or internal impacts

2. REACTION AG-GCAT (IGE) ON SURFACES TARGET CELLS (OBESITY, BAZOPHILOV), ACCOMPANIED SUBSEQUENT ACTIVATION THESE CELLS AND RELEASE MEDIATORS, IS CENTRAL PATHOGENETIC IN A LINK ALLERGIES
 - 1) I - type
 - 2) II- type
 - 3) IV- type
 - 4) V- type

3. ACUTE INFLAMMATION IS CHARACTERISTIC OF THE FOLLOWING SEQUENCE PATHOPHYSIOLOGICAL PROCESSES
 - 1) alteration → activation of lysosomal enzymes, release of mediators and reaction microcirculatory channels → change permeability, exudation Andemigration, phagocytosis → proliferation and restoration defect
 - 2) alteration → disorder microcirculation → proliferation
 - 3) alteration → emigration → disorder microcirculation → proliferation
 - 4) alteration → proliferation → disorder microcirculation → emigration

4. THE MAIN PATHOGENETIC LINK IN THE DEVELOPMENT OF THE FIRST STAGE DV S-SYNDROME
 - 1) excessive admission V blood exogenous And endogenous procoagulants
 - 2) activation fibrinolysis
 - 3) activation systems primary anticoagulants
 - 4) thrombocytopenia

Standards answers: loyal answer 1).

Examples test tasks original, weekend control (With standards answers)

Initial, final control for the discipline is carried out in the Moodle system , access mode:

<https://educ-amursma.ru/course/view.php?id=600>

General quantity test tasks - 100.

Examples of test tasks in the Moodle system (initial control):Specify one correct answer

1. TRULY PATHOGENIC TO HUMANS: A) HUMAN ; B) BULL; IN) BIRD; G) LEPROSY; D) AFRICAN
 - 1) A, b , c
 - 2) A, b, G , d
 - 3) b, V, G , d
 - 4) b, G , d

2. NOSOCOMIAL PNEUMONIA IS MOST COMMONLY CAUSED BY MICROORGANISMS A) NEVMOCOCCUS; B) STAPHYLOCOCCUS; C) LEGIONELLA; D) MYCOPLASMA; D) GRAM-NEGATIVE FLORA. CHOOSE CORRECT COMBINATION ANSWERS
- 1) b, V, G
 - 2) G , d
 - 3) b , d
 - 4) A, d
3. U EMPLOYEES LARGE HOTELS, EQUIPPED AIR CONDITIONERS, THE TEMPERATURE RISE ACUTELY TO 40 °C , CHILLS AND COUGH APPEARED PHUM, HEMOPYTHIASIS, PAIN IN CHEST CAGE AT BREATHING, MYALGIA, NAUSEA, DIARRHEA. AT RADIOGRAPHY IDENTIFIED INFILTRATIVE CHANGES IN BOTH LUNGS. A FEW DAYS AGO A PATIENT CO-WORKER WAS HOSPITALIZED WITH PNEUMONIA. THE MOST PROBABLE CAUSE PNEUMONIA
- 1) Klebsiella
 - 2) legionella
 - 3) mycoplasma pneumonia
 - 4) wand Pfeiffer
4. TO DEVELOPMENT ABSCESS EASY PREDISPOSE STATES A) ABUSE ALCOHOL; B) AIDS; IN) ADDICTION; G) FOREIGN BODY BRONCHA; D) NEUTROPENIA AT HEMOBLASTOSIS. CHOOSE CORRECT COMBINATION ANSWERS
- 1) A, V, G
 - 2) A, d
 - 3) A, V, d
 - 4) A, G

Standards answers: 1-2, 2-3, 3-2, 4-1, 4-4.

Examples of test assignments in the Moodle system (final control):

Specify one correct answer

1. HEMOPYTHIASIS OBSERVED AT NEXT DISEASES A) PULMONARY EMBOLISM; B) BRONCHIOECTATIC DISEASE; C) CANCER EASY; G) MITRAL STENOSIS; D) EMPHYSEMA LUNG. CHOOSE CORRECT COMBINATION
- 1) b , c
 - 2) A, b , c
 - 3) A, V, G , d
 - 4) A, b, V, G
2. THE PATIENT HAS SYMMETRICAL CHEST MOVEMENTS, BOX SOUND AT PERCUSSIONS, WEAKENED VESICULAR BREATH WITH EXTENDED EXHALE, LIVER STUPIDITY DISPLACED DOWN. YOUR DIAGNOSIS
- 1) hydropneumothorax
 - 2) fibrosis
 - 3) diffuse emphysema lungs
 - 4) lobular pneumonia
3. U SICK CHEST CELL NORMAL FORMS, DISPLACEMENTS THERE IS NO MEDISTINUM, DULL SOUND ON PERCUSSION, SONORING WET RHELENISHING AND DISCLAIMER CREPTITATION. YOURS DIAGNOSIS
- 1) pneumonia
 - 2) emphysema
 - 3) pneumothorax
 - 4) pulmonary fibrosis
4. ECHOCARDIOGRAPHICALLY AT PULMONARY HEART DISCOVER
- 1) hypertrophy And dilation right departments hearts
 - 2) hypertrophy And dilation left departments hearts
 - 3) dilation all cameras hearts

4) left ventricular hypertrophy

Standards answers: 1-4, 2-3, 3-1, 4-1, 15-1.

4.1.2. Test tasks intermediate certifications

It is being held V Moodle system , mode access:

<https://educ-amursma.ru/mod/quiz/view.php?id=12873>

General quantity test tasks - 342

Examples test tasks intermediate certifications (With standards answers)

Examples test tasks V system Moodle . Specify one correct answer:

1. WHAT IS THE MOST IMPORTANT POINT IN DIAGNOSIS OF TUBERCULOSIS IN ADULTS
 - 1) study sputum on mycobacteria tuberculosis
 - 2) biochemical analysis blood
 - 3) try Mantu
 - 4) general analysis blood And urine
2. CHARACTER PHUM MORE OFTEN TOTAL HAPPENS U SICK TUBERCULOSIS LUNG
 - 1) abundant , "full "with mouth"
 - 2) abundant, mucopurulent , three-layer
 - 3) meager, sticky, rusty
 - 4) moderate quantity , mucopurulent , Sometimes With veins blood
3. LIST TERMS AND CONDITIONS STORAGE VACCINES
 - 1) V refrigerator at temperature $0\pm 8^{\circ}\text{C}$
 - 2) V refrigerator at temperature $0\pm 4^{\circ}\text{C}$
 - 3) V refrigerator at temperature $0\pm 6^{\circ}\text{C}$
 - 4) V refrigerator at temperature $0\pm 10^{\circ}\text{C}$
4. PRIMARY VACCINATION IS CARRIED OUT TO HEALTHY FULL-TERM CHILDREN NEWBORNS
 - 1) V 1-2 day life
 - 2) 1-4 day life
 - 3) 1-6 day life
 - 4) through month
5. BEFORE YOU 3 SAMPLES PHUM ON MBT, COLLECTED FOR ONE DAY U PATIENT TO BE DIAGNOSISED. DO THE FOLLOWING THEY REQUIREMENT?
 - 1) correspond
 - 2) need to 3 samples collect 3 days contract By in the morning
 - 3) need to 3 samples to collect for 2 days
 - 4) needed 2 samples
6. ABOUT DESTRUCTIONS FABRICS EASY TESTIFIES DETECTION INPHUM
 - 1) crystals Charcot-Leyden
 - 2) big numbers leukocytes
 - 3) elastic fibers
 - 4) a large number of red blood cells

Standards answers: 1-1, 2-4, 3-1, 4-2, 5-3, 6-3.

4.2. Situational tasks

Examples situational tasks current control

Examples tasks in the system Moodle , mode access:

<https://educ-amursma.ru/course/view.php?id=600>

General quantity tasks – 100.

Task No. 1

Sick 38 years. Counts myself sick two years. Has increased temperature bodies, appeared cough. The local doctor diagnosed pneumonia and prescribed appropriate treatment. The patient's condition improved after 9 days, he returned to work, but continued to be bothered cough. IN flow subsequent years, periodically (every 3 - 4 months) was increasing temperature, was getting stronger cough, increased quantity sputum. Sputum acquired purulent nature. With suspicion of tuberculosis as the cause of the disease, he was hospitalized in anti-tuberculosis dispensary.

Contact With sick tuberculosis denies.

State sick satisfactory. Right half chest cells lags behind at breathing. On percussion on the right at the level of the 4th rib along the midclavicular line, shortening sound, turning into liver dullness. When auscultating at the site of shortening against the background hard breathing weight dry And of different calibers wet wheezing. Voice trembling on the right is enhanced. In the hemogram, leukocytosis 12000, accelerated ESR - 35 mm / h. Tuberculin reactions negative. Data X-ray research: on the right respectively average share right easy inhomogeneous intense blackout. Share some

reduced V volume. Lower Part main And additional interlobar cracks concave Vside middle lobe. Right the diaphragm dome is somewhat raised.

1. Formulate clinical diagnosis.
2. Justification diagnosis.

Standards answers To task №1:

Cirrhotic tuberculosis lungs, phase disintegration .

Task №2

of the chest two weeks ago. cells, increased fatigue, subfebrile temperature. I went to the clinic, from there she was sent for examination to Anti-tuberculosis dispensary. Contact with patients tuberculosis denies.

The patient's condition is satisfactory, both halves of the chest are equally involved inact breathing. Percussion sound on the right V interscapular space shortened. Auscultatory on place shortenings sound on background some weakened breathingare listened to finely bubbled wheezing. IN lower departments easy is listened to noise friction pleura. In hemogram accelerated ESR – 25mm/h.

X-ray examination data: there is a triangular shadow in the middle lobe on the right side, with its base facing the periphery and its apex facing the root of the lung. The lower border of the shadow is clear, is located at the level of the 4th rib and is projected onto the additional interlobar fissure. Contours top borders shadows fuzzy, blurred. Roots lungs Not expanded. Diaphragm mobile.

1. Formulate clinical diagnosis.
2. Justification diagnosis.

Standards answers To task №2:

Infiltrative tuberculosis lungs on the right V average shares, phase disintegration. MB T(-). Pe - recissuris .

4.3 List of practical skills that a student must possessafter mastering the discipline

1. Compilation plan examinations patient With purpose diagnostics or exceptions tuberculosis.
2. Conducting questioning patient And his relatives, carrying out physical examinations sick, formulation preliminary diagnosis, designmedical documentation based on the results examinations.
3. Light microscopic examination of sputum smears to detect MBT and assess results bacterioscopic and bacteriological research.
4. Description And grade pathological changes, identified radial methods research at sick tuberculosis.
5. Definition testimony, contraindications And grade results samples Mantoux.
6. Definition testimony And contraindications To conducting anti-tuberculosis vaccinations, revaccinations And grade currents grafting reactions at intradermal introduction BCG; definition testimony To conducting chemoprophylaxis tuberculosis.
7. Definition testimony To conducting antibacterial therapy And grade her portability.

8. Diagnostics urgent states at sick tuberculosis And rendering urgent help.
9. Determining the type of tuberculosis infection focus and drawing up a plan of measures for its elimination health improvement.
10. Solution deontological questions, related With examination And treatmentsick tuberculosis.

4.7. Scroll questions To credit

- 1 Tuberculous pleurisy. Clinic. Diagnostic methods. Differentialdiagnostics. Treatment.
- 2 Infiltrative pulmonary tuberculosis. Clinic. Diagnostics. Differentialdiagnostics.
- 3 collapse therapy methods for tuberculosis: artificial pneumothorax andpneumoperitoneum . Indications to their application.
- 4 Cirrhotic tuberculosis of the lungs. Pathogenesis and pathomorphological picture. Clinical And X-ray signs, flow And Exodus. Peculiarities treatment.
- 5 Spontaneous pneumothorax. His types, diagnostics And first help.
- 6 Classification anti-tuberculosis drugs.
- 7 Tuberculosis of the upper respiratory tract, trachea and bronchi. Pathogenesis, clinical features,diagnostics, differential, diagnostics, treatment.
- 8 Complications, related With application vaccines BCG, their prevention And treatment.
- 9 Main anti-tuberculosis drugs. Mechanism actions.
- 10 Infiltrative pulmonary tuberculosis. Types of infiltrates. Diagnostics, differential diagnostics, course And Exodus.
11. Revaccination. Selection contingents For revaccination.
12. Reserve anti-tuberculosis drugs. Mechanism actions.
13. Cavernous tuberculosis of the lungs. Clinic, diagnostics, course and outcome. Distinction cavernous tuberculosis from infiltrative in the decay phase and fibrous-cavernoustuberculosis.
14. Tuberculin samples: types, interpretation.
15. Methods introductions anti-tuberculosis drugs. Advantages various methods Vdepending on the form tuberculosis.
16. Characteristic clinical and radiological signs of fibrous-cavernous tuberculosislungs. Course, complications, Exodus.
17. Methods discharge mycobacteria V pathological material.
18. Side effects actions anti-tuberculosis drugs.
19. Tuberculoma . Pathogenesis, forms of tuberculoma , differential diagnostics, outcome. Features of therapy.
20. Methods; detection of MBT in pathological material. Advantages and disadvantagesvarious methods.
21. Atypical forms tuberculosis at sick With HIV/AIDS infection.
22. Focal tuberculosis lungs. Classification, clinic, methods diagnostics And treatment.
23. Pulmonary hemorrhage, hemoptysis. Diagnostics, differential diagnostics andtreatment.
24. Classification anti-tuberculosis drugs. Mechanism their actions.
25. Subacute and chronic disseminated pulmonary tuberculosis. Clinic, methodsdiagnostics, Differential diagnostics, treatment And Exodus.
26. Methods active detection tuberculosis. Groups risk.
27. Pathogenetic therapy tuberculosis lungs.
28. Modern clinical classification tuberculosis.
29. Caseous pneumonia. Clinic, diagnostics, Exodus.
30. Peculiarities treatments sick With for the first time revealed tuberculosis lungs.
31. Complications primary tuberculosis complex.
32. Job anti-tuberculosis dispensary: tasks, grouping contingents.
33. Modes chemotherapy tuberculosis.
34. Primary tuberculosis complex, pathomorphological features. Clinic,diagnostics, differential diagnostics, flow And Exodus.
35. Chemoprophylaxis : indications, methods implementation.
36. Indications To surgical treatment tuberculosis lungs.
37. Tuberculosis, intrathoracic lymph nodes. Classification,clinic,

- diagnostics, differential diagnostics, flow And Exodus.
38. Characteristic immunity at tuberculosis. Reasons, contributing developmentdiseases.
 39. Peculiarities treatments sick With tuberculomas .
 40. Miliary tuberculosis of the lungs. Clinical manifestations, diagnostics, differential diagnostics, treatment and the outcome.
 41. X-ray classification infiltrative tuberculosis lungs.
 42. Differential diagnostics syndrome rounded shadows V easy.
 43. Types operational interventions at tuberculosis.
 44. Combination tuberculosis With HIV/AIDS infection.
 45. Characteristic anti-tuberculosis drugs.
 46. Chemoprophylaxis . Classification. Indications.
 47. Differential diagnostics syndrome dissemination V easy.
 48. Characteristics of tuberculosis foci. Current and final disinfection duringtuberculosis.
 49. Indications To hormone therapy at tuberculosis lungs.
 50. Complications tuberculosis.
 51. Tuberculomas . Clinic. Diagnostics. Differential diagnostics.
 52. Side effects of anti-tuberculosis drugs, their classification methodselimination.
 53. Tuberculosis in combination with occupational diseases. Methods of diagnostics and treatment.
 54. Groups dispensary accounting sick tuberculosis.
 55. Reasons inefficiencies conservative anti-tuberculosis therapy.
 56. Tuberculosis lungs at patients with diabetes diabetes, peculiarities clinics And treatment.
 57. Methods detection MBT from pathological material at sick tuberculosis.
 58. Modern method surgical treatments tuberculosis lungs.
 59. Tuberculosis meningitis. Pathogenesis, clinic, diagnostics And Exodus.
 60. Vaccine BCG, her characteristic, grafting dose, methods introduction.
 61. Role vaccines BCG. Vaccine BCG-M: characteristic, indications To application.
 62. Peculiarities treatment patients with for the first time revealed tuberculosis lungs.
 63. Chronically current primary tuberculosis. Peculiarities clinics, diagnostics.
 64. Indications And contraindications To vaccinations vaccine BCG And BCG-M.
 65. Peculiarities treatments sick With tuberculomas .
 66. Differential diagnostics tuberculosis meningitis. Peculiarities cerebrospinal fluid.
 67. Tuberculosis kidneys. Clinic, diagnostics, Exodus.
 68. Classification anti-tuberculosis drugs.
 69. Peculiarities tuberculosis at persons senile age.
 70. Osteoarticular tuberculosis. Classification, clinical picture, diagnostics, And Exodus.
 71. Peculiarities primary tuberculosis.
 72. Indications And contraindications For vaccinations.
 73. Reasons inefficiencies anti-tuberculosis therapy.
 74. Differential diagnostics syndrome limited blackouts V easy.
 75. Methods specific prevention tuberculosis.
 76. Indications To surgical treatment at various forms tuberculosis lungs.
 77. Differential diagnostics signs cavernous tuberculosis, abscess,solitary cysts, cystic form of cancer.
 78. Peculiarities of treatment of patients with chronic forms of pulmonary tuberculosis. The concept of medicinal sustainability MBT.
 79. The main differential diagnostic signs of fibrous-cavernous tuberculosis are :leza lungs, polycystic disease .
 80. Principles treatments tuberculosis lungs.
 81. The main clinical and radiological differences between encapsulated interlobar pleurisy and syndrome middle share.
 82. Characteristic local grafting reactions at BCG.
 83. Main clinical differences exudative costal pleurisy And pneumonia.
 84. Tuberculin samples: Mantu, Koha, Pirke. Target productions various samples.
 85. Characteristic drugs groups GINK: mechanism actions, side effects actions.

86. Hemoptysis And pulmonary bleeding at tuberculosis. Diagnostics, treatment.
87. Ventilation violations breathing at sick With various forms tuberculosislungs.

APPROVED
Head of the Department of
Hospital Therapy with a course Pharmacology
named after Professor Yu.S. Landyshev

Protocol No. 8 of 05/08/2026

Head of Department

V.V. Voitsekhovsky 

**ADDITIONS AND CHANGES TO THE EDUCATIONAL PROGRAM FOR
DISCIPLINES «PHTHISIOLOGY»
SPECIALTY: 31.05.01 GENERAL MEDICINE
FOR THE 2026–2027 ACADEMIC YEAR**

1. Make additions and changes to the table in section 3.5. "Professional databases, information and reference systems, electronic educational resources" should be worded as follows:

List of software (commercial software products)

No. p/p	List of software (commercial software products)	Details of supporting documents
1.	MS operating system Windows 7 Pro	License number 48381779
2.	MS operating system Windows 10 Pro	CONTRACT No. UT-368 from September 21, 2021
3 .	MS Office	License numbers: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919
4.	Kaspersky Endpoint Security for Business - Standard Russian Edition . 50-99 Node 1-year Educational Renewal License	Agreement No. 7 AA dated 02/07/2025
5.	1C Accounting and 1C Salary	LICENSE AGREEMENT 612/L dated 02.02.2022 (additional licenses)
6.	1C: PROF University	LICENSE AGREEMENT No. KrTsB-004537 dated December 19, 2023
7.	1C: PROF Library	LICENSE AGREEMENT No. 2281 dated November 11, 2020
8.	Consultant Plus	Contract No. 41AA dated December 27, 2024
9.	Kontur.Tolk	Agreement No. K213753/24 dated August 13, 2024
10.	3KL e-learning environment (Russian Moodle)	Agreement No. 1362.5 dated November 20, 2024
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2.	Yandex.Telemost	Freely distributed License Agreement for the Use of Software https://yandex.ru/legal/telemost_mobile_agreement/
3.	Dr.Web CureIt !	Freely distributed License Agreement: https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf
4.	OpenOffice	Freely distributed License: http://www.gnu.org/copyleft/lesser.html
5.	LibreOffice	Freely distributed License: https://ru.libreoffice.org/about-us/license/
6.	VK Calls	Freely distributed https://vk.com/licence
7.	Kaspersky Free Antivirus	Freely distributed https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt

Professional databases, information and reference systems, electronic educational resources

Resource name	Resource Description	Access	Resource address
Electronic library systems			
Student Consultant. Medical University Electronic Library	For students and faculty of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids, and periodicals.	Remote access after registration under the university profile	https://www.studentlibrary.ru/
Reference and information system "	The MedBaseGeotar reference and information system is designed for practicing medical specialists, researchers,	Remote access after registration under the	https://mbasegeotar.ru/pages/index.html

MedBaseGeotar".	teachers, postgraduate students, residents, senior students, and healthcare managers to quickly search, select, and read the medical literature they need for their work in a single data source.	university profile	
Electronic Library System "Bookup"	A large medical library is an information and educational platform for the shared use of electronic educational and methodological publications from medical universities in Russia and the CIS countries.	Remote access after registration under the university profile	https://www.books-up.ru/
Electronic Block System "Lan"	The Network Electronic Library of Medical Universities is an electronic database of educational and scientific works on medical topics, created for the purpose of implementing network forms of professional educational programs, open access to educational materials for partner universities.	Remote access after registration under the university profile	https://e.lanbook.com/
Scientific electronic library "CyberLeninka"	CyberLeninka is a scientific electronic library built on the Open Science paradigm. Its primary goals are the popularization of science and scientific activity, public oversight of the quality of scientific publications, the development of interdisciplinary research, a modern institution of scientific review, increasing the citation rate of Russian science, and building a knowledge infrastructure. It contains over 2.3 million scientific articles.	free access	https://cyberleninka.ru/
Human Biology Knowledge Base	Reference information on <u>physiology</u> , <u>cell biology</u> , <u>genetics</u> , <u>biochemistry</u> , <u>immunology</u> , <u>pathology</u> . (Resource of the Institute of <u>Molecular Genetics of the Russian Academy of Sciences</u> .)	free access	http://humbio.ru/

State Register of Medicines	The State Register of Medicines website contains information about medications: indications, contraindications, mechanism of action, side effects, dosages, and methods of administration.	free access	https://grls.rosminzdrav.ru/GRLS.aspx
Information systems			
Clinical Guidelines Index	A resource of the Russian Ministry of Health that contains clinical guidelines developed and approved by medical professional non-profit organizations of the Russian Federation, as well as methodological manuals, nomenclatures, and other reference materials.	Link to download the application	https://cr.minzdrav.gov.ru/#/
Federal Electronic Medical Library (FEMB)	The Federal Electronic Medical Library is part of the unified state information system in the field of healthcare as a reference system . The FEMB was created on the basis of the funds of the Central Scientific Medical Library named after I.M. Sechenov.	free access	https://femb.ru/
Russian State Library (RSL)	Collection size: approximately 3 million titles Period covered: from the 11th century to the present The Russian State Library's Electronic Library is a collection of electronic copies of valuable and frequently requested publications from the Russian State Library's collections, from external sources, as well as documents originally created in electronic form.	Registration on the website	https://www.rsl.ru/
Russian Medical Association	A professional online resource. Purpose: to promote effective professional activity among medical personnel. Contains the charter, personnel, structure, membership rules, and information about the Russian Medical Union.	free access	http://www.rmass.ru/

Web medicine	The website provides a directory of professional medical resources, including links to the most authoritative specialized websites, journals, societies, as well as useful documents and programs. It is intended for physicians, students, and staff of medical universities and research institutions.	free access	http://webmed.irkutsk.ru/
Databases			
World Health Organization	The site contains news, statistics on countries that are members of the World Health Organization, fact sheets, reports, WHO publications, and much more.	free access	http://www.who.int/ru/
Ministry of Science and Higher Education of the Russian Federation	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters, reports, publications, and much more.	free access	http://www.minobrnauki.gov.ru
Ministry of Education of the Russian Federation	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications, and much more.	free access	https://edu.gov.ru/
<u>Polpred.com</u>	Electronic library system Business media. Media review	free access	https://polpred.com/news
Bibliographic databases			
Database "Russian Medicine"	Created at the Central Scientific and Methodological Library, it covers the entire collection since 1988. The database contains bibliographic descriptions of articles from Russian journals and collections, dissertations and their abstracts, as well as Russian and foreign books, institute proceedings, conference materials, etc. Thematically, the database covers all areas of medicine	free access	https://rucml.ru/

	and related fields of biology, biophysics, biochemistry, psychology, etc.		
PubMed	A text database of medical and biological publications in English. PubMed is an electronic search engine with free access to 30 million publications from 4,800 indexed medical journals. The database contains articles published from 1960 to the present, including information from MEDLINE, PreMEDLINE, and NLM. Each year, the portal is updated with more than 500,000 new papers.	free access	https://pubmed.ncbi.nlm.nih.gov/
eLIBRARY.RU	A Russian information portal in science, technology, medicine, and education, containing abstracts and full texts of over 13 million scientific articles and publications. The eLIBRARY.RU platform offers electronic versions of over 2,000 Russian scientific and technical journals, including over 1,000 open-access journals.	Full functionality of the site is available after registration.	http://elibrary.ru/defaultx.asp
Electronic library of dissertations (RSL)	Currently, the Electronic Library of Dissertations of the Russian State Library contains more than 919,000 full texts of dissertations and abstracts.	free access	http://diss.rsl.ru/?menu=disscatalog/
Medline.ru	Medical and biological portal for specialists. Biomedical journal.	free access	https://journal.scbmt.ru/jour/index
Official Internet portal of legal information	The single official state information and legal resource in Russia	free access	http://pravo.gov.ru/