

COURSE UNIT DESCRIPTON

Course unit title	Code
Final exam	

Lecturer(s)	Department, Faculty
Coordinating: Assoc. Prof. PhD. Mindaugas Šilkūnas	Vilnius University, Faculty of Medicine, Institute of Clinical Medicine

Study cycle	Level of the course	Type of the course unit
Continuous studies (levels I and II)	I	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	Semester XII	English

	Requisites											
Prerequisites:		Corequisites (if any):										
The student must be settled f	e student must be settled for all subjects provided in Students must have completed and defended a Master											
the study plan.		thesis, completed an internship practice and passed an internship exam.										
Number of ECTS credits	Student's total workload	Contact hours	Self-study hours									
allocated												
5	135	5	130									

Discipline (module) objective: competencies to be developed during the study program

To acquire adequate knowledge and skills in medicine and to be able to apply them in practice, to know the structure, functions and behaviour of a healthy and sick person, to know the relations between the state of health and physical and social surroundings of the human being; a good understanding of the scientific methods. To develop the student's professionalism, ability and readiness to work independently and in an interdisciplinary team, to interact with people from different socio-cultural backgrounds, to follow medical ethics and deontology, health and social medicine organization requirements, to make an assessment within the scope of one's competence limits and be able to answer properly for one's actions. To develop a holistic approach to the patient, to be able to recognize acute conditions in a timely and appropriate manner and to provide medical care and life support; to know the epidemiology of diseases, to identify diseases of all ages individuals, their aetiology and major risk factors, symptoms, acute and chronic complications, evaluate the clinical status and vital signs of the patient, to know and apply basic methods of diagnostics, assign targeted examinations and, if indicated such as, to provide additional tests, interpreting the results of tests performed, performing differential diagnostics, understanding the principles of pharmacology, to be able to design a long-term patient care and observation plan, to understand the principles of treatment, and methods of preventing diseases. To be able to collect, systematize, analyse, interpret information, present conclusions and recommendations and plan their actions based on them. To pursue professional development throughout all professional career.

Learning outcomes of the course unit	Teaching and learning methods	Assessment method
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Generic competencies		
After successful completion of this module, the student will be able to:		
Students will be able to apply knowledge in practice, act honestly, independently, qualitatively and appropriately, self-criticize the quality of their work, to assess the limits of their competences and, if necessary, seek help and take responsibility for their actions, act and adapt to new situations; Students will have professional ethical skills and the ability to comply with ethical obligations, apply the principles of good medical practice at work, communicate with patients and their families, be empathetic, tolerant and confidential, respect and uphold patients' rights, taking into account the individual's physical and mental development peculiarities, age, psychology of a healthy and sick person. Students will be able to work with specialists in other fields and experts in other sciences, share existing knowledge, experience and good practice, solve problems, make common decisions and evaluate their impact. Students will be able to think critically and selfcritically, collect information and data from various sources, analyse, systematize, critically evaluate, interpret, fluently and reasonably express their thoughts orally and in writing. Students will be able to develop ideas, be creative and proactive, conduct research, organize, plan and execute projects, achieve goals. Students will be able to pursue general, non-medical knowledge, further education, independent lifelong learning and professional development, to train and motivate others Students will be able to communicate with the public, cooperate with various health care, personal and public health care institutions, disseminating science-based knowledge to the public, patients, their relatives, medical staff and other professionals; will be able to understand environmental diversity and multiculturalism; understand and take into account the customs of other cultures; work in an international environment and communicate in other foreign languages.	Studying all course units (lectures, seminars and practise workshops in various departments, surgery or procedure rooms of health care institutions (hospitals and outpatient clinics), problematic learning, presentation delivery, analysis of clinical cases and situations, brainstorming, telling, work in small group or pairs, open discussion, creative tasks, error analysis, theoretical modelling, video demonstration of operations, simulation of surgery, summer practice, internship practice; self-study, search for information and literature analysis, analysis of law; clinical case history writing.	Test
Subject-specific competences After successful completion of this semester the student will be able:		
Students will be able to apply the achievements of biomedical sciences, principles, skills and knowledge of evidence-based medicine; will be able to consult the patient, to assess clinical signs, perform physical examination and assessment of mental state, to order tests, to interpret results obtained from medical history, physical examination, instrumental and laboratory examinations, to perform differential diagnosis, preliminary assessment of the patient's problems and formulate the diagnosis, treatment and monitoring plans; to prescribe treatment and to write detailed case history.	Studying all course units (lectures, seminars and practise workshops in various departments, surgery or procedure rooms of health care institutions (hospitals and outpatient	Test

Students will be able to provide emergency medical aid, including first aid and resuscitation, in trauma, accident, poisoning, acute conditions and illnesses and other life-threatening situations in newborns, infants, children, adults, at labour and all other situations where no specialist physician is available in place and

in the duties of the of Lithuanian Medicine Norm - Medical Doctor: Functions, Rights, Duties,

Competence and Responsibilities MN7: 1995.

Students will be able to apply basic principles of nursing.

Students will know, comply with and apply national and European legislation governing the operation of healthcare, personal care facilities and the services they provide. In the prescribed order will be able to complete medical records on results of patient examining, treatment and preventive work, to report identified or suspected acute infectious disease, food poisoning and occupational poisoning, to report violent injury to police, to prescribe medicines, death certificates and other medical records.

Students will be able to address public health issues, identify disease prevention issues and common risk factors for disease prevention, promote occupational disease prevention, promote healthy lifestyles, disease prevention and health promotion and education, and advise individuals on healthy lifestyles and diets using health education methodologies, will be able to perform preventive vaccinations and organize the prevention of communicable diseases.

clinics), problematic learning, presentation delivery, analysis of clinical cases and situations. brainstorming, telling, work in small group or pairs, open discussion, creative tasks, error analysis, theoretical modelling, video demonstration of operations, simulation of surgery, summer practice, internship practice; self-study, search for information and literature analysis, analysis of law; clinical case history writing.

		Contact work hours						Tin	Time and tasks of self- study		
Topics Medical Studies Program	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Total contact hours	Self-study	Tasks		
HEALTH POLICY, PUBLIC HEALTH, ETHICS AND THE BASIS OF COMMUNICATION Public health and mental health policy, systems of health care, indicators of health assessment and prevention of disorders; impact of water, nutrition, lifestyle, environment, noise, vibration, harmful chemicals and dust, occupational factors, psychological risk factors on individual and public health. Principles of health care organization, social medicine, health law, bioethics, evidence-based medicine, biomedical research, economic and legal aspects of health care services, principles of									Studies of the subject literature according to the topic. Analysis of questions of Medicine program final exam database; student self-study.		

professional contact, nonverbal					
communication and teamwork.					
BASICS OF CLINICAL					
PHARMACOLOGY					
Principles of pharmacology, major					
classes of medicines, therapeutic drug					
monitoring, medicines interactions,					
adverse drug reactions, principles of					
pharmacovigilance, rational use of					
medicines, clinical pharmacology of					
drug use in patients with renal and					
hepatic impairment, critically ill					
patients, paediatric and geriatric					
individuals, pregnancy and lactation,					
evaluation of clinical trials, principles					
of medicine prescribing.					
THE CIRCULATORY					
(CARDIOVASCULAR SYSTEM)					
AND DISEASES					
The anatomy, physiology, pathology					
and clinical examination of the					
circulatory system, principles and					
assessment of arterial blood pressure					
measurement and electrocardiography.					
Evaluation and interpretation of					
laboratory and instrumental					
examination of cardiovascular system					
diseases.					
Acute and chronic cardiovascular					
failure (sudden death, cardiogenic					
shock, fainting, collapse, pulmonary					
oedema), atherosclerosis, chest pain,					
coronary artery disease (angina					
pectoris, acute coronary syndromes,					
myocardial infarction, post infarction					
cardiosclerosis), aortic diseases,					
rhythm and conduction disorders					
(tachyarrhythmias, paroxysmal rhythm					
of the heart, bradyarrhythmia,					
Morgagni-Adams-Stokes attack, etc.),					
arterial hypertension (primary and					
secondary, hypertensive crises),					
dyslipidaemia, cardiomyopathies,					
myocarditis, pericardial disease, acute					
pulmonary embolism, pulmonary					
hypertension, chronic pulmonary					
heart, valvular heart disease, infective					
endocarditis, congenital heart disease,					
congenital heart disease in new-borns					
and infants; peripheral and visceral					
artery occlusive disease, limb artery					
embolism; diabetic foot, congenital					
vascular malformations, chronic					
venous disease, deep vein thrombosis,					
lymphatic system pathology, cardiac					
arrhythmias and other conditions					
requiring long-term antithrombotic					
treatment: epidemiology, major risk					
factors, aetiology, symptoms,					
complications, diagnostic options,					
complications, diagnostic options,					

differential diagnosis, emergency					
medical care, treatment principles,					
long-term observation, indications for					
hospitalization, oxygen therapy,					
surgical treatment and heart					
transplantation, principles of surgical					
treatment, methods of preventing					
cardiovascular diseases.					
Principles of first aid					
(cardiopulmonary resuscitation,					
artificial respiration, defibrillation and					
medications) in cases of ventricular					
fibrillation, cardiac asystole and					
electromechanical cardiac					
dissociation.					
RESPIRATORY SYSTEM AND					
DISEASES					
Respiratory system anatomy,					
physiology, pathology and clinical					
examination. Principles and					
assessment of lung functions testing,					
non-apparatus oxygen therapy, pleural					
puncture (thoracocentesis), sputum					
examination, radiological methods of					
lungs examination. Evaluation and					
interpretation of other laboratory and					
instrumental examination of					
respiratory diseases. Clinical					
pulmonary syndromes, differential					
diagnosis of cough, bronchial					
obstruction and dyspnoea, smoking					
injury and treatment methods.					
Upper respiratory tract infection, acute					
and chronic bronchitis, chronic					
obstructive lung disease, acute					
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(bronchial asthma attack, asthmatic					
condition), dry and exudative pleurisy,					
bronchiectasis, interstitial lung					
diseases, pulmonary embolism, lung					
cancer, tuberculosis, bleeding from					
lungs, haemorrhage, sleep apnoea					
syndrome, acute respiratory distress					
syndrome, pulmonary hypertension,					
pneumoconiosis, fungal and parasitic					
lung disease, drug-induced lung injury,					
pulmonary damage in systemic					
collagen vascular diseases, heart,					
digestive tract and haematological					
disorders, non-tuberculous					
mycobacterial lung disease, acute and					
chronic respiratory failure, chest					
traumas, pneumothorax, nonspecific					
pleuropulmonary suppurations,					
tumours of respiratory system and					
pleura, oesophageal diseases,					
iatrogenic injuries and blunt trauma of					
the airway, mediastinal diseases and					
tumours, diaphragm injuries and					
diseases: epidemiology, major risk					

factors, aetiology, symptoms,					
complications, diagnostic options,					
differential diagnosis, emergency					
medical care, treatment principles,					
long-term observation, indications for					
hospitalization, oxygen therapy,					
surgical treatment, principles of					
surgical treatment methods of					
preventing respiratory diseases.					
Foreign bodies in the trachea,					
indications and complications of					
tracheostomy.					
DIGESTIVE SYSTEM AND					
DISEASES					
Digestive system anatomy,					
physiology, pathology and clinical					
examination of abdomen. Principles					
and evaluation of gastric lavage and					
gastric and duodenal contents, faecal					
occult blood test, ascites puncture,					
digital rectal and speculum					
examination. Evaluation and					
interpretation of laboratory and					
instrumental examination of digestive					
system diseases. Differential diagnosis					
of abdominal pain.					
Benign diseases of the oesophagus,					
stomach and duodenum (reflux					
oesophagitis, acute and chronic					
gastritis, ulcer) and tumours, eating					
disorders, gallbladder and ductal					
diseases (gallstones, cholecystitis,					
syndrome), pancreas, liver disease,					
acute and chronic liver failure; small					
bowel diseases, appendicitis, colonic					
diseases, intestinal obstruction,					
irritable bowel syndrome, constipation,					
rectal and anal canal diseases,					
abdominal hernias, peritonitis,					
abdominal trauma, gastrointestinal					
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bleeding: epidemiology, major risk					
factors, aetiology, symptoms,					
complications, diagnostic options,					
differential diagnosis, emergency					
medical care, principles of treatment,					
long-term follow-up, indications for					
hospitalization and surgery, principles					
of surgical treatment, metabolic and					
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endocrine surgery and abdominal					
organ transplantation, principles of					
dietary treatment of patients with					
gastrointestinal diseases, and methods					
of preventing digestive diseases.					

CONNECTIVE TISSUE AND					
MUSCULOSKELETAL SYSTEM					
AND DISEASES					
Anatomy, physiology, pathology and					
clinical examination of connective					
tissue and musculoskeletal system.					
Geriatric examination of the elderly.					
Evaluation and interpretation of joint					
function, radiographs of joints and					
bones, other laboratory and					
instrumental examination of					
connective tissue and musculoskeletal					
disorders.					
Rheumatoid arthritis, undifferentiated					
arthritis, dermatomyositis, myopathies,					
rheumatoid arthritis, Sjogren's					
syndrome, rheumatic fever, arthritis associated with infections,					
associated with infections, microcrystalline arthritis (gout,					
chondrocalcinosis), systemic lupus					
erythematosus, antiphospholipid					
syndrome, vasculitis, systemic					
sclerosis, ankylosing spondylitis,					
spondylarthritis, degenerative joint and					
spinal disorders (coxarthrosis,					
gonarthrosis, osteochondrosis),					
fibromyalgia, osteoporosis,					
periarthropathies of hand, elbow,					
shoulder, hip, knee and foot,					
(tendovaginitis, bursitis, ligamentitis),					
gait and balance disorders, wounds,					
bone fractures, dislocations, joint and					
spinal injuries, polytrauma, tunnel					
syndromes, nerve trauma and foot					
nerve pathology, bone and cartilage					
tumours: epidemiology, major risk factors, aetiology, symptoms,					
factors, aetiology, symptoms, complications, diagnostic options,					
differential diagnosis, emergency					
medical care, treatment principles,					
indications for hospitalization and					
surgery, principles of surgery and					
methods of preventing connective					
tissue an musculoskeletal diseases.					
Principles of bleeding control,					
application of soft and plaster					
bandages, immobilization of hand and					
foot bone fractures, treatment of					
uncomplicated wounds, indications for					
endoprosthesis and skin plastics and					
their application.					
GENITOURINARY SYSTEM AND					
DISEASES					
Anatomy, physiology, pathology and					
clinical examination of the urogenital					
system and renal function. Evaluation					
and interpretation of laboratory and					
instrumental examination of diseases					
of the urogenital system. Principles of					

bladder catheterization and kidney					
biopsy.					
Acute renal injury, glomerulopathies,					
nephropathies, other renal diseases,					
urogenital tract infection (cystitis,					
acute and chronic pyelonephritis,					
urosepsis), urinary stone disease, renal					
colic, obstructive uropathy, dysuria,					
female and male urinary incontinence,					
acute and chronic renal failure, chronic					
kidney disease, prostate, kidney,					
bladder and testicular cancer,					
urological trauma: epidemiology,					
3					
symptoms, complications, diagnostic					
options, differential diagnosis,					
emergency medical care, treatment					
principles, long- term monitoring,					
indications hospitalization, renal					
replacement therapy (haemodialysis,					
peritoneal dialysis), surgical treatment,					
kidney transplantation, and application					
principles, methods of preventing					
urogenital diseases.					
ENDOCRINE SYSTEM AND					
DISEASES					
Anatomy, physiology, pathology and					
clinical examination of the endocrine					
system. Evaluation and interpretation					
of laboratory and instrumental					
examination of endocrine disorders.					
Hormone secretion disorders of					
anterior pituitary, thyroid, parathyroid					
and adrenal glands, thyrotoxic crisis,					
myxedemic coma, adrenal hyperplasia,					
acute and chronic adrenal					
insufficiency; glucose metabolism,					
diabetes mellitus, diabetic coma,					
hypoglycaemia, and chronic diabetic					
complications, gonadal hormones and					
their role in reproduction, sex					
chromosome diseases (Aneupoids -					
Turner and Klinefelter syndromes):					
epidemiology, major risk factors,					
aetiology, symptoms, complications,					
diagnostic options, differential					
diagnosis, emergency medical care,					
treatment principles, long-term					
follow-up, indications for					
hospitalization and surgery, methods					
of preventing endocrine diseases.	-				
BLOOD AND HAEMOPOIETIC					
SYSTEM AND DISEASES					
Anatomy, physiology, pathology and					
clinical examination of the blood and					
hematopoietic system. Evaluation and					
interpretation of laboratory and					
instrumental examination blood and					
haematopoietic diseases.					
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Iron, vitamin B12 and folic acid					
deficiency anaemia, lymphatic system					
pathology, lymphoproliferative					
diseases, acute leukaemia, chronic					
leukemia, paraproteinemia, thrombosis					
and bleeding syndrome, haemophilia,					
disseminated intravascular					
coagulation: epidemiology, major risk					
factors, aetiology, symptoms,					
complications, diagnostic options,					
differential diagnostics, emergency					
medical care, treatment principles,					
long- term follow-up, indications for					
hospitalization, surgery and bone					
marrow transplantation, principles of					
treatment and clinical transfusion,					
methods of preventing blood and					
hematopoietic diseases.					
SKIN AND ITS ADDITIVES,					
DERMATOVENEROLOGICAL					
AND ALLERGIC DISEASES					
Anatomy, physiology, pathology and					
clinical examination of the skin, its					
additives and the immune system.					
Evaluation and interpretation of					
microbiological, laboratory and					
instrumental examination of					
dermatovenerological and allergic					
diseases. Bacterial and parasitic skin					
diseases, viral skin and mucous					
membrane diseases, fungal infections,					
psoriasis, dermatitis, photodermatoses,					
acne and acne related diseases,					
rosacea, sexually transmitted					
infections, AIDS and skin diseases,					
autoimmune connective tissue					
diseases, bullous skin diseases,					
precancerous skin diseases and benign					
skin tumours, malignant skin tumours,					
allergic rhinitis and allergic					
conjunctivitis, allergic bronchial					
asthma, acute allergic reactions					
(Queens oedema, anaphylactic shock),					
urticaria and angioedema, allergic					
dermatitis, food allergy, drug					
hypersensitivity, anaphylaxis, toxic					
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epidermal necrosis, immunodeficiency: epidemiology,					
3					
symptoms, complications, diagnostic options, differential diagnosis,					
emergency medical care, treatment					
principles, long-term follow-up,					
indications for hospitalization and					
methods of preventing of					
dermatovenerological and allergic					
diseases.					
NERVOUS SYSTEM AND					
DISEASES					

Anatomy, physiology, pathology and					
clinical examination of the nervous					
system. Evaluation and interpretation					
of laboratory, functional and					
instrumental examination of the					
nervous system diseases. Differential					
diagnosis of unconsciousness,					
seizures, lumbar and abdominal pain.					
Disorders of sensation and somatic					
sensation, central and peripheral					
paralysis, pyramidal, extrapyramidal					
and coordination disorders, seizures,					
cranial nerves disorders, cerebral					
cortical dysfunction, disorders of					
autonomic nervous system, peripheral					
nervous system disorders,					
cerebrovascular diseases, infectious					
diseases of nervous system, headache,					
dementia and other cognitive					
disorders, epilepsy, disturbances of					
consciousness, demyelinating					
disorders of the central nervous					
system, neuromuscular disorders,					
diseases of motoneuron, craniocerebral					
trauma, brain tumours, cerebrovascular					
abnormalities, pathology of carotid and					
vertebral arteries, spinal injury,					
degenerative disorders of spine,					
oncological disorders of spine and					
spinal cord, disturbances of circulation					
of cerebrospinal fluid, neurosurgical					
disorders in children: epidemiology,					
5					
symptoms, complications, diagnostic					
options, differential diagnosis,					
emergency medical care, treatment					
principles, long-term follow- up,					
indications for hospitalization surgical					
treatment and functional neurosurgery,					
principles of surgical treatment,					
methods of preventing of nervous					
system diseases.					
PRINCIPLES OF					
COMMUNICABLE DISEASE					
AND EPIDEMIOLOGY					
Indicators and research in					
epidemiology, epidemiology,					
prevention and management principles					
of communicable infectious diseases,					
basics of immunoprophylaxis,					
principles of organization of anti-					
epidemic measures in case of suspicion					
of extremely dangerous infection.					
Interpretation and evaluation of					
microbiological, laboratory and					
instrumental examination of					
communicable diseases. Degrees of					
dehydration.					
Acute infectious diseases (typhoid,					
paratyphoids, intestinal salmonellosis					
paracyphotos, incoming sumforchosts					

and other food toxic infections,					
botulism), viral diarrhoea, yersiniosis					
(intestinal yersiniosis and					
pseudotuberculosis), protozoal					
diseases, shigellosis,					
campylobacteriosis, helminthiasis,					
viral hepatitis, viral respiratory					
infections, diphtheria, streptococcal					
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chlamydial pneumonia, pneumococcal					
infection, legionellosis, rickettsiosis,					
infection caused by Herpes family					
viruses, bacterial and viral meningitis,					
meningococcal meningitis, extremely					
dangerous infections (cholera, plague,					
yellow butterfly), sepsis, infectious-					
toxic shock, tick-borne diseases,					
traveller diseases, zoonoses, HIV					
infection, AIDS and opportunistic					
infections, human papillomavirus					
infection, polio, tetanus, rabies, rose,					
cellulitis, skin infections following					
animal bites: epidemiology, major risk					
factors, aetiology, symptoms,					
complications, diagnostic options,					
differential diagnosis, emergency					
medical care, treatment principles,					
long-term follow- up, indications for					
hospitalization and methods of					
preventing communicable infectious					
diseases.					
MENTAL AND BEHAVIUORAL					
DISORDERS					
General psychopathology,					
schizophrenia, eating disorders,					
inorganic sleep disorders, depression,					
bipolar affective disorder, organic and					
symptomatic psychiatric disorders,					
personality and behavioural disorders,					
somatoform and dissociative disorders,					
anxiety and stress disorders,					
psychoactive substance abuse, autism					
spectrum disorders, other					
developmental disorders, behavioural					
disorders in children and adolescents,					
hyperkinetic disorders, emotional					
disturbances in children and					
adolescents, tics, enuresis:					
epidemiology, major risk factors,					
aetiology, symptoms, complications,					
diagnostic options, differential					
diagnosis, treatment principles, long-					
term follow-up, indications for					
hospitalization and methods of mental					
and behavioural disorders.					
Violence against children, peculiarities					
of adult age-related mental disorders in					
childhood and adolescence, suicidal					
habarian basis (C					
behaviour, basics of social psychiatry, biological methods of treatment,					

directions and basics of psychotherapy, principles of integrated child and family care. BASICS OF CLINICAL GENETICS Genetic counselling. Bioethical and legal issues in clinical genetics. Genealogy analysis. Rare diseases. Multiple Diseases. Elements of morphology: phenotypic evaluation of head, face, ears, eyes, nose, mouth, extremities. Databases used for differential diagnosis in clinical genetics. Chromosomal diseases (sex chromosome aneupoids, autosomal trisomies, microdeletion syndromes). Clinical syndromology. Syndromes associated with craniofacial contour, affected faces, proportionally short stature, bone and connective tissue pathology, overgrowth and postnatal onset obesity, premature aging, skin and mucosa. Monogenic diseases mainly affecting the central nervous system, respiratory system, cardiovascular system, hematopoietic system, urogenital, digestive and endocrine system. Inherited peripheral nervous system and muscle disorders. Hereditary metabolic diseases
family care. BASICS OF CLINICAL GENETICS Genetic counselling. Bioethical and legal issues in clinical genetics. Genealogy analysis. Rare diseases. Multiple Diseases. Elements of morphology: phenotypic evaluation of head, face, ears, eyes, nose, mouth, extremities. Databases used for differential diagnosis in clinical genetics. Chromosomal diseases (sex chromosome aneupoids, autosomal trisomies, microdeletion syndromes). Clinical syndromology. Syndromes associated with craniofacial contour, affected faces, proportionally short stature, bone and connective tissue pathology, overgrowth and postnatal onset obesity, premature aging, skin and mucosa. Monogenic diseases mainly affecting the central nervous system, respiratory system, cardiovascular system, hematopoietic system, urogenital, digestive and endocrine system. Inherited peripheral nervous system and muscle disorders.
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Multiple Diseases. Elements of morphology: phenotypic evaluation of head, face, ears, eyes, nose, mouth, extremities. Databases used for differential diagnosis in clinical genetics. Chromosomal diseases (sex chromosome aneupoids, autosomal trisomies, microdeletion syndromes). Clinical syndromology. Syndromes associated with craniofacial contour, affected faces, proportionally short stature, bone and connective tissue pathology, overgrowth and postnatal onset obesity, premature aging, skin and mucosa. Monogenic diseases mainly affecting the central nervous system, respiratory system, cardiovascular system, hematopoietic system, urogenital, digestive and endocrine system. Inherited peripheral nervous system and muscle disorders.
morphology: phenotypic evaluation of head, face, ears, eyes, nose, mouth, extremities. Databases used for differential diagnosis in clinical genetics. Chromosomal diseases (sex chromosome aneupoids, autosomal trisomies, microdeletion syndromes). Clinical syndromology. Syndromes associated with craniofacial contour, affected faces, proportionally short stature, bone and connective tissue pathology, overgrowth and postnatal onset obesity, premature aging, skin and mucosa. Monogenic diseases mainly affecting the central nervous system, respiratory system, cardiovascular system, hematopoietic system, urogenital, digestive and endocrine system. Inherited peripheral nervous system and muscle disorders.
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endocrine system. Inherited peripheral nervous system and muscle disorders.
nervous system and muscle disorders.
(phenylketonuria, tyrosinemia, type I,
urea synthesis disorders,
galactosemia). Disorders of energy
metabolism. Mitochondriopathies.
Disorders of fatty acid oxidation. Mucopolysaccharidoses. Prenatal
diagnosis and genetic counselling.
Preimplantation genetic diagnostics.
CHILDREN DISEASES Stores and abpropriation of the
Stages and characteristics of the
physical and mental development of
healthy child, maturity and
physiological development of the new- born: Paediatric anatomical and
born; Paediatric anatomical and physiological peculiarities of different
organ system, clinical examination of
different age child. Care of a healthy
and sick child, natural, formula, mixed
and additional infant feeding, feeding
of elder children, dentition and dental
change; rickets, spasmophilia.
Evaluation and interpretation of
laboratory and instrumental
examination in children, peculiarities
of children's electrocardiogram.
Immunoprophylaxis in children. Initial
resuscitation of new-born and child.
Transient neonatal conditions,
common neonatal disorders:
haemolytic, haemorrhagic, common

embryopathy and fetopathy, prenatal					٦
infection and neonatal sepsis, perinatal					
hypoxia.					
Children congenital and acquired heart					
diseases, paediatric inflammatory heart					
diseases in children: myocarditis,					
infectious endocarditis, pericarditis,					
cardiomyopathies, acute heart failure,					
inherited arrhythmias, paroxysmal					
tachycardia.					
The most common respiratory system					
diseases in children: acute upper					
respiratory tract infections, acute					
bronchitis, pneumonia, upper and					
lower airway obstruction, acute					
respiratory failure, bronchial asthma,					
respiratory system abnormalities in					
neonates and children, foreign bodies					
of respiratory tract.					
The most common diseases and					
functional disorders of the					
gastrointestinal tract in children:					
diseases of children oesophagus and					
stomach, malabsorption syndrome and					
celiac disease, functional disorders of					
digestive tract and constipation.					
Common urinary tract disorders and					
urinary disorders in children: urinary					
tract infection, nephritic and nephrotic					
syndrome, acute kidney failure.					
Vasculitis in children, juvenile					
idiopathic arthritis and systemic					
connective tissue disease.					
Hemoblastoses and solid tumours,					
anaemias, thrombocytopenia,					
disorders of haemostasis, histiocytes					
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and macrophages.					
Paediatric diabetes mellitus, diabetic,					
ketoacidosis and hypoglycaemia, paediatric obesity and type 2 diabetes,					
adrenal disease, acute adrenal disorders, congenital adrenogenital					
disorders, congenital adrenogenital syndrome, disorders of growth and					
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puberty.					
Children's seizures, epilepsy, non-					
epileptic seizures, children					
developmental disorders, cerebral					
palsy, congenital neuromuscular					
diseases.					
The most common allergic diseases in					
children: skin allergies, digestive					
allergies, allergic rhinitis and					
conjunctivitis, feeding of allergic child,					
toxic epidermal necrosis.					
Bacterial gastrointestinal infections					
(salmonellosis, shigellosis,					
esherichiosis, campylobacteriosis,					
yersiniosis, pseudotuberculosis), viral					
gastrointestinal infections. Viral					
infections: measles, rubella,					

chickenpox, shingles, Herpes simplex					
infection, sudden exanthema,					
infectious mononucleosis, mumps,					
parvovirus infection. Bacterial					
infections: scarlet fever, pertussis,					
parapertussis, Haemophilus influenzae					
infection, meningococcal infection,					
streptococcal infection, diphtheria in					
children; helminthiasis.					
Urgent pediatric surgical diseases of					
abdominal organs: acute appendicitis,					
acquired and congenital bowel					
obstruction, trauma of abdominal and					
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retroperitoneal organs, gastrointestinal					
foreign bodies of gastrointestinal tract.					
Benign tumours (hemangiomas,					
lymphangiomas, teratomas), and					
malignant tumours (neuroblastoma,					
hepatoblastoma, teratoblastoma).					
Purulent diseases of children: acute					
hematogenous osteomyelitis, dermal					
and subdermal infections, destructive					
pneumonia and its complications.					
Congenital malformations of the					
urinary and urogenital systems, urinary					
tract stone disease, nephroboblastoma.					
The most common paediatric					
orthopaedic abnormalities, paediatric					
traumas and accidents: bone fractures,					
neurotrauma, burns, chilblains.					
Epidemiology, major risk factors,					
aetiology, symptoms, complications,					
diagnostic options, differential					
diagnosis, emergency medical					
treatment, principles of treatment,					
long-term follow-up, indications for					
hospitalization and surgery, principles					
of surgical treatment ways to prevent					
childhood and childhood illness					
Peculiarities of children's emergency					
conditions: acute unconsciousness,					
respiratory and circulatory failure,					
shock of various origins, critical					
conditions, anaphylaxis, fever and					
hyperthermia; peculiarities of					
specialized child resuscitation.					
Peculiarities of child homeostasis, and					
disorders, dehydration; principles of					
paediatric infusion therapy. Children's					
accidents: acute household poisoning					
by medicines and chemicals, choke,					
shocked infant's syndrome, drowning,					
heat injury, severe trauma.					
BASICS OF GENERAL					
SURGERY					
Principles of asepsis and antisepsis,					
disinfection and sterilisation, sutures,					
drains, probes, catheters, instruments,					
surgical infection, intoxication,					
abscess, cellulitis (phlegmon),					

necrotising fasciitis, closed body cavity infections, sepsis, septic shock trauma and polytrauma, wounds, thermal nipuries burns, frostbite), external bleeding. Bleccing and principles of haemostasis in surgery, recament of uncomplicated wounds, surgical wound dressing, post-operative patient care. THIE EVE DISEASES Eye anatomy, physiology, pathology and clinical examination. Evaluation and interpretation of laboratory and instrumental examination. Strabismus, eyelid and conjunctival diseases, lacrimal disorders, cornea and uveal tract diseases, lens diseases, glaucoma, diseases of retina and optic nerve, eye traumas: eyelidemiology, major risk factors, actiology, symptoms, complications, diagnostic ortical care, principles of treatment, indications for hospitalization and surgery, methods of preventing eye diseases. EARS, NOSE AND THROAT DISEASES EAR, Nose AND THROAT DISEASES EAR, increased and interpretation of laboratory and instrumental examination. Evaluation and interpretation of laboratory and instrumental examination. Otitis, mastoiditis, tympanofibrosis, labyrinthitis, dizziness, intracranial otogenic complications, Menicre's disease, sensorineural hearing loss, otosclerosis, nose obstruction, rhinitis, massifurnnel, beharding and interpretation of laboratory and interpretation of explanting and interpretation of participles of treatment, indications, tumours epidemiology, major risk factors, actional participles of retainent, indications for heaving loss, otosclerosis, nose obstruction, rhinitis, massifurnnel, beharding and intracranial congenic complications, tumours epidemiology, major risk factors, actional participles of retainent, indications for hearing aids, hospognical and surgical treatment, methods of preventing ear, nose and throat diseases.						
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failure, intraabdominal hypertension, acute renal failure, nosocomial infection, coma; seizures; stroke, severe head trauma, polytrauma, choking, drowning, acute and chronic pain, hyperthermia, dehydration, disseminating intravascular coagulation, injuries, accidents: epidemiology, major risk factors, aetiology, symptoms, complications, diagnostic options, differential diagnosis, emergency medical care, principles of treatment, indications for treatment in intensive care unit, ethical questions in intensive care, end-of-life						
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pain, hyperthermia, dehydration, disseminating intravascular coagulation, injuries, accidents: epidemiology, major risk factors, aetiology, symptoms, complications, diagnostic options, differential diagnosis, emergency medical care, principles of treatment, indications for treatment in intensive care unit, ethical questions in intensive care, end-of-life						
disseminating intravascular coagulation, injuries, accidents: epidemiology, major risk factors, aetiology, symptoms, complications, diagnostic options, differential diagnosis, emergency medical care, principles of treatment, indications for treatment in intensive care unit, ethical questions in intensive care, end-of-life	0.					
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treatment in intensive care unit, ethical questions in intensive care, end-of-life						
questions in intensive care, end-of-life						
decisions.						
	decisions.					

Poisoning by medicines, psychoactive					
(narcotic) substances, barbiturates,					
organic substances, poisonous gases,					
carbon monoxide, methaemoglobin					
creating substances, arsenic and metal					
compounds, biological poisons,					
insecticides, pesticides, methyl and					
ethyl alcohol, acids and alkalis, food					
and first aid when poisoning (non-					
specific detoxification measures,					
elimination of resorbed poisons,					
promotion of metabolism in the body,					
antidote therapy), forms of prevention					
measures and information					
management.					
Types, principles and complications of					
anaesthesia, principles of infusion and					
transfusion therapy, pharmacotherapy					
of critical illness, basics of homeostasis					
correction, electrolyte disbalance,					
metabolic control, acid-base balance					
disorders, pain physiology and					
pharmacology; Enteral and parenteral					
nutrition: evaluating the deterioration					
of and individual needs for nutrition,					
setting the nutrition-plan, and its					
specifics in different critical states of					
patients.					
HYSIOLOGY AND PATHOLOGY					
OF PREGNANCY					
Physiology of pregnancy, multiple					
pregnancy, adolescent pregnancy,					
development of foetus, physiology of					
labour, antenatal assessment of foetal					
wellbeing and foetal wellbeing					
assessment in labour, evaluation of					
new-born health, physiology of					
puerperium, peculiarities of					
breastfeeding. Chronic illnesses and					
medication use during pregnancy					
planning, pregnancy and feeding.					
Prenatal diagnosis of hereditary					
diseases and congenital defects,					
evaluation and interpretation of					
laboratory and instrumental					
examination of the pregnant women					
and foetus. Antenatal care in outpatient					
clinic, peculiarities of care of labour in					
term, preterm and postterm labour,					
care and treatment of healthy and					
preterm new-born, transitive new-born					
conditions. Principles of normal labour					
mechanisms, first neonatal toilet,					
maternal care during the placental					
period, labour induction and					
stimulation, obstetrical operations.					
Hypertension disorders in pregnancy,					
preeclampsia, eclampsia, HELLP					
syndrome, haemorrhage in pregnancy,					
labour and postpartum, perinatal	I				

infection, multiple pregnancy:						
complications in pregnancy and						
labour, labour distortion,						
malpresentations and malpositions of						
foetus, Rh isoimmunization:						
epidemiology, major risk factors,						
aetiology, symptoms, complications,						
diagnostic options, differential						
diagnosis, emergency medical care,						
principles of treatment, indications for						
hospitalization, indications for surgery.						
GYNECOLOGICAL DISEASES						
Age related anatomy, physiology,						
pathology, and clinical examination of						
the women reproductive system.						
Peculiarities of normal and						
pathological puberty, perimenopausal						
and postmenopausal period. Family						
planning and infertility issues.						
Evaluation and interpretation of						
laboratory and instrumental						
examinations important to diagnose						
gynaecological disease. Gynaecologic						
problems in girls, menstrual cycle						
disorders, benign and malignant						
lesions of external genitalia, benign						
and malignant cervical lesions,						
polycystic ovary syndrome,						
hyperandrogenaemia, ovarian benign						
and malignant tumours, endometrium						
hyperplasia, polyps and cancer, uterine						
leiomyomas, endometriosis, chronic						
pelvic pain, gynaecological diseases						
and disorders of urinating, urgent						
situations in gynaecology:						
epidemiology, major risk factors,						
aetiology, symptoms, complications,						
diagnostic options, differential						
diagnosis, emergency medical care,						
first aid in uterine bleeding, principles						
of treatment, indications for						
hospitalization and surgical treatment,						
principles of surgical treatment and						
methods of preventing gynaecological						
diseases.						
BASICS OF NURSING						
Nursing classification, types, infection						
control in health care institutions and						
asepsis, work safety and hygiene,						
hands and medical devices' hygiene,						
safe environment. Patient's personal						
hygiene, environment and mobility						
issues, eating and drinking, body						
temperature control issues and nursing,						
hyperthermia, hypothermia, urinary						
and defecation issues and nursing, drug						
administration.						
BASICS TO PHYSICAL						
MEDICINE AND						
REHABILITATION						
						<u> </u>

Principles of rehabilitation, physical therapy and occupational therapy, principles of social, psychological and professional rehabilitation, teamwork in rehabilitation, biopsychosocial functions, physical and functional capacity, health promoting physical activity, determination of disability and working capacity, speech and swallowing disorders and their correction.						
BASICS OF FORENSIC MEDICINE Principles of thanatology and forensic psychiatry; deontology and ethics of forensic medicine; influence of external factors to the human body, hypothermia, frostbite, overheating, burn, asphyxia and its types, drowning, sexual crimes, gunshot wounds, stabwounds, cut-wounds, bone fracture mechanisms, injuries caused by physical and chemical factors, effects of electricity on human body, injuries caused by mechanical factors, health impairment level evaluation.						
Total:		5		5	130	

Assessment strategy	Weight	Assessment period	Assessment criteria
Examination in the computed classroom	After completing of XII semester		Knowledge of course is evaluated by 10 points system 10 point – excellent knowledge and skills, synthesis and understanding, knowledge application level, the student mastered the studied material well, is able to analyse and summarize, accurately uses the concepts and terms, detailed and correct answers to all questions, approximate percentage of required knowledge 93–100 % of questions answered correctly.
			9 point – strong, good knowledge and abilities, approximate percentage of required knowledge 83,7–92,9 % of questions answered correctly.
			8 point – better than average knowledge and abilities, understanding and knowledge application level, the student ably mastered the studied material, is able to organize and summarize, and uses correctly the concepts and terms, might be some minor isolated non-essential errors, approximate percentage of required knowledge 75,3–83,6 % of questions answered correctly.
			7 point – average knowledge and abilities, understanding and knowledge application level, nonessential mistakes, no more than two significant error responses, approximate percentage

of required knowledge 66,9–75,2 % of questions answered correctly.
6 point – knowledge and abilities worse than average, approximate percentage of required knowledge 58,5–66,8 % of questions answered correctly.
5 point – knowledge and abilities, adequate to minimal requirements, understanding and knowledge application level, lots of errors, approximate percentage of required knowledge 50,1–58,4 % of questions answered correctly.
4 point and less – minimal requirements not fulfilled, student's knowledge is insufficient, terms and concepts used incorrectly.
4 point – approximate percentage of required knowledge 40–50,0 % of questions answered correctly.
3 point – approximate percentage of required knowledge 30–39,9 % of questions answered correctly.
2 point – approximate percentage of required knowledge 20–29,9 % of questions answered correctly.
1 point – approximate percentage of required knowledge < 20 % of questions answered correctly.

Author	Year of publicati on	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link				
Required reading								
R. S. Ašoklis	2018	Eye diseases	-	https://is.vu.lt/pls/klevas/logon				
V. Paliulytė	2018	Obstetrics	-	https://is.vu.lt/pls/klevas/logon				
AC	2019	Diagnostics and Treatment Methods in Obstetrics and Neonatology		sam.lrv.lt/lt/veiklos- sritys/programos-ir- projektai/sveicarijos-paramos- programa/akuserijos-ir- neonatologijos-diagnostikos-ir- gydymo-metodikos/akuserijos- diagnostikos-ir-gydymo- metodikos				
Magowan BA	2019	Clinical Obstetrics and Gynaecology	4th edition	https://www.clinicalkey.com/# !/browse/book/3-s2.0- C2016003512X				
Smith RP	2017	Netter's Obstetrics and Gynaecology	3th edition	https://www.clinicalkey.com/# !/browse/book/3-s2.0- C20150058695				
J. Šipylaitė	2018	Anaesthesiology and Reanimathology	-	https://is.vu.lt/pls/klevas/logon				
E. Lesinskas	2018	Ear, nose, throat diseases	-	https://is.vu.lt/pls/klevas/logon				
S. Petraitienė	2018	General Paediatrics and Neonatology	-	https://is.vu.lt/pls/klevas/logon				
A. Gintautas	2018	Pharmacology		https://is.vu.lt/pls/klevas/logon				
G. Sadauskaite	2018	Gastroenterology and abdominal surgery	-	https://is.vu.lt/pls/klevas/logon				

Ž. Bumbulienė	2018	Gynaecology	_	https://is.vu.lt/pls/klevas/logon
S. Glaveckaitė	2018	Cardiology and	-	https://is.vu.lt/pls/klevas/logon
		cardiovascular surgery		
J. Gulbinovič	2018	Clinical pharmacology, drug	-	https://is.vu.lt/pls/klevas/logon
		approval and safety		
B. Tumienė	2018	Clinical genetics	-	https://is.vu.lt/pls/klevas/logon
A. E. Tamošiūnas	2018	Clinical radiology	-	https://is.vu.lt/pls/klevas/logon
J. Šipylaitė	2018	Critical Care Medicine,	-	https://is.vu.lt/pls/klevas/logon
		Transfusiology and		
		Toxicology		
D. Karčiauskaitė	2018	Laboratory medicine	-	https://is.vu.lt/pls/klevas/logon
E. Gefenas	2018	Medical ethics	-	https://is.vu.lt/pls/klevas/logon
J. Dadonienė	2018	Research methods and	-	https://is.vu.lt/pls/klevas/logon
		biostatistics		
L. Rimševičius	2018	Nephrology and Urology	-	https://is.vu.lt/pls/klevas/logon
D. Jatužis	2018	Neurology and Neurosurgery	-	https://is.vu.lt/pls/klevas/logon
S. Lesinskienė	2018	Psychology, professional	-	https://is.vu.lt/pls/klevas/logon
		Communication and		
G T ' 1' '	2010	Psychosomatic Medicine		1 //. 1./ 1.01
S. Lesinskienė	2018	Psychiatry, child and adolescent psychiatry,	-	https://is.vu.lt/pls/klevas/logon
		adolescent psychiatry, psychotherapy		
E. Danila	2018	Pulmonology, phthisiology	_	https://is.vu.lt/pls/klevas/logon
E. Dailla	2018	and thoracic surgery, clinical	_	https://is.vu.id/pis/kievas/logon
		immunology		
I. Butrimienė	2018	Rheumatology, gerontology,	_	https://is.vu.lt/pls/klevas/logon
		endocrinology		
A. Beržanskytė	2018	Social medicine. Health Law	-	https://is.vu.lt/pls/klevas/logon
·		and Economics		
J. Stasiūnienė	2018	Forensic medicine	-	https://is.vu.lt/pls/klevas/logon
N. Porvaneckas	2018	Traumatology, orthopaedics,	-	https://is.vu.lt/pls/klevas/logon
		plastic and reconstructive		
		surgery		
L. Jančorienė	2018	Infectious diseases and	-	https://is.vu.lt/pls/klevas/logon
D. II.	2010	epidemiology		1 (6. 1./ 1.01. 0
R. Kemežys	2018	Children diseases, paediatric	-	https://is.vu.lt/pls/klevas/logon
V Č 1	2010	surgery		1 //. 1./ 1./ 1.
V. Šapoka	2018	Differential diagnosis of	-	https://is.vu.lt/pls/klevas/logon
		internal medicine, haematology and family		
		medicine		
V. Ožeraitienė	2018	Fundamentals of Internal	_	https://is.vu.lt/pls/klevas/logon
V. Ozeraniene	2010	Medicine and Nursing		intepoliting value play the vast rogon
M. Jakubauskienė	2018	Public health	-	https://is.vu.lt/pls/klevas/logon
Ministry of health	2022	Dėl Lietuvos medicinos	-	Available from: V-930 Dėl
		normos MN 7:2022		<u>Lietuvos medicinos normos</u>
		"Medicinos gydytojas"		MN 7:2022 "Medicinos
		patvirtinimo" 2022 m.		gydytojas" patvirtinimo
		gegužės 9 d. Įsakymas Nr. V-		(etar.lt)
		930 [angl. – Order "On the		
		approval of the Lithuanian medical norm "Medical		
		doctor" MN 7:2022, adopted		
		in 2022 May 9]		
		W LOLL May /]	i	