

SYLLABUS

The cycle of instruction 2019-2025

Module/course name:	Introduction to internal medicine	Module code	LK.3.E.001
Faculty:	I Faculty of Medicine with Dentistry Division II Faculty of Medicine with English Division		
Major:	Medical		
Specialty:			
Level of study:	I (Bachelor studies) <input type="checkbox"/> II (Master studies) <input type="checkbox"/> integrated Master studies X III (Doctoral studies) <input type="checkbox"/>		
Mode of study :	full-time X		
Year of study:	I <input type="checkbox"/> II <input type="checkbox"/> III <input checked="" type="checkbox"/> IV X V <input type="checkbox"/> VI <input type="checkbox"/>	Semester :	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 X 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/>
Module/course type:	obligatory X elective <input type="checkbox"/>		
Language of instruction:	Polish <input type="checkbox"/> Foreign X		

Form of education	Hours
Lecture	
Seminar	10
Laboratory class	40
E-learning	
Practical class	
Internship	
Other	
TOTAL	50

Student's work input (participation in class, preparation, evaluation, etc.)	Student's hourly workload
1. In class	50
2. Student's own work	25
Summary of the student's workload	75
ECTS points for module/course	3

Educational objectives:

'Introduction to internal medicine' represents the initial phase in training in „Internal Medicine Module”. The students are expected to get thorough knowledge with regard to practical clinical approach to patients as well as certain ethical issues that are likely to arise in daily routine. Special emphasis will be put on the skills of history-taking and physical examination. Medical nomenclature will be explained, moreover the importance of differential diagnosis will be investigated. The students will be engaged in clinical activities. The course will end with a test verifying both theoretical knowledge and practical skills. It is believed that this training program will provide the adequate clinical basis for more detailed courses within „Internal Medicine Module”.

The matrix of learning outcomes for module/ subject with reference to verification methods of the intended educational outcomes and forms of instruction:

Learning outcome code	A student who has obtained a credit for the module/course has the knowledge/skill to:	Methods of verifying the achievement of the intended learning outcomes:	Form of instruction * provide the symbol
E.W1.	knows the genetic, environmental and epidemiological background of most common diseases		

<p>E.W7.</p> <p>(a, b, c, d, e, f, g, i)</p>	<p>Knows and understands the causes, symptoms, diagnostic principles and therapeutic procedures in respect to most common internal diseases in adults and their complications;</p> <p>a/ circulatory disorders, including ischaemic heart disease, heart defects, disorders of the endocardium, myocardium, pericardium, acute and chronic cardiac failure, arterial and venous disorders, primary and secondary arterial hypertension, pulmonary hypertension,</p> <p>b/ respiratory disorders, including: diseases of the respiratory tract, chronic bronchial asthma, obstructive pulmonary disease, bronchiectasis, mucoviscidosis, infections of the respiratory tract, interstitial diseases of the lungs, pleura, mediastinum, obstructive and central sleep apnea, respiratory failure (acute and chronic), malignancies of the respiratory system.</p> <p>c/ disorders of the digestive system, including: diseases of the oral cavity, esophagus, stomach and duodenum, intestines, pancreas, liver, biliary tracts and gallbladder,</p> <p>d/ disorders of the endocrine system, including diseases of hypothalamus and pituitary gland, thyroid, parathyroid glands, adrenal cortex and core, ovaries and testes, neuroendocrine tumors, pluriglandular hypofunction, various types of diabetes and metabolic syndrome; hypoglycemia, obesity, dislipidemia;</p> <p>e/ diseases of kidneys and urinary tract, including acute and chronic renal failure, glomerular disorders, interstitial renal disorders, renal cysts, urolithiasis, urinary infections, malignancies of the urinary system, and in particular, cancers of the urinary bladder and kidney.</p> <p>f/ disorders of the hematopoietic system, including bone marrow aplasia, anemia, granulocytopenia and agnucleocytosis, thrombocytopenia, acute leukemia, myeloproliferative and myelodysplastic- myeloproliferative tumors, myelodysplastic syndromes, tumors from mature B and T lymphocytes, bleeding diathesis, thrombophilia, life threatening conditions in hematology, blood disorders in diseases of other organs, blood donation and blood therapy, bone marrow transplantation;</p> <p>g/ rheumatic disorders, including systemic disorders of connective tissue, systemic vasculitis, arthritis involving the vertebral column, metabolic diseases of bones, in particular, osteoporosis and deformative arthrosis, gout;</p> <p>h/ allergic diseases, including anaphylaxis and anaphylactic shock, angioedema i/ water-electrolyte and acido-basic disturbances, dehydration, hyperhydration, electrolyte disorders, acidosis and alkalosis.</p>		
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E.U.1.	carries out history taking in adult patient;	Practical task	lec
E.U.3.	performs complete and organ-system specific physical examination of adult patient;	Medical record	Lab
E. U.7.	can carry out recognition of a general state, a condition of the consciousness and awareness of the patient;	Medical record	Lab
E. U.12.	examines the differencing diagnostics of most frequent illness of adults performs differential diagnostics of most common diseases in adults;	Practical task	Lab
Asse E.U13.	assesses and describes somatic and mental condition of patient;	Practical task	lab
E. U.14.	identifies life-threatening conditions;	Practical task	Lab
E. U.15.	identifies conditions after alcohol, drug and other stimulant abuse;	Practical task	Lab
E. U.16.	develops plan of diagnostic, therapeutic and prophylactic procedures;	Practical task	Lab
E. U.17.	analyses the possible adverse effects of drugs and their interactions;	Practical task	Lab
E. U.18.	proposes individualization of the routine therapeutic directives and other treatment methods in view of lack of effectiveness or contraindications to standard therapy;	Practical task	Lab
E. U.20.	qualifies for inpatient or outpatient treatment;	Practical task	Lab
EV. U.21.	identifies conditions in which survival time, functional status or patient's preferences limit procedures concordant with the directives specified for a given disease;	Practical task	Lab
E. U.22.	performs functional assessment of a disabled patient;	Practical task	Lab
E. U.23.	can suggest rehabilitation program in most common diseases;	Practical task	Lab
E. U.24.	interprets laboratory test results and identifies reasons for deflections from normal;	Medical record	Lab
E. U.26	plans procedures in case of exposure to blood transmitted infections;	Practical task	Lab
E.U28.	can collect and secure specimens to be used for laboratory diagnostics;		
E. U.29. (a,b,c,h)	can perform basic medical procedures, including: a/ temperature (body surface and core), pulse rate and noninvasive arterial pressure measurements, b/ vital signs monitoring using a cardiomonitor, pulse oxymetry, c/ spirometric test, oxygen therapy, assisted ventilation and intubation, h/ standard ECG at rest with interpretation, electric cardioversion and defibrillation	Practical task	Lab

assists	assists in carrying out of the following medical procedures and treatments:		
E. U.30. (a,b,d)	a/ transfusion of blood products and blood components, b/ pleural cavity drainage, c/ p d / puncture of the peritoneal cavity,	Practical task	Lab
E. U.32.	can plan specialist consultations;	Practical task	Lab
E U.37.	identifies patient` s death throes and certifies death;	Medical record	Lab
E. U.38.	can keep patient` s medical records.	Medical record	Lab

EXAMPLES OF METHODS VERIFYING THE ACHIEVEMENT OF THE INTENDED LEARNING OUTCOMES:

In terms of knowledge: oral exam

In terms of skills: practical history taking and physical examination

In terms of social competences: observation

Course content:

Lab classes (clinical practice):

Components of clinical examination. The structure and purposes of the health history. Family history. General symptoms: weight loss and weight gain, weakness, fever, consciousness (Glasgow coma scale), syncope. Chest pain – causes and differential diagnosis, palpitations, dyspnea, cough, hemoptysis, dysphagia. Abdominal pain, nausea, vomiting, black and bloody stools, constipation, diarrhea, polyuria, dysuria, nycturia, urinary incontinence, low back pain. General survey: height and built, weight, posture and gait, nails clubbing. Vital signs: pulse, breathing, blood pressure, body temperature. Discoloration of the skin: jaundice- pathogenesis, type, differential diagnosis, cyanosis- central and peripheral, causes; paleness- type of anaemia. Peripheral oedemas- causes, pathogenesis. Lymph nodes enlargement- causes, features. Thyroid enlargement (goiter) and thyroid dysfunction. Thorax and lungs examination: percussion notes, lung sounds. Abnormalities in rate and rhythm of breathing, deformities of the thorax; physical signs: chronic bronchitis, consolidation (pneumonia), atelectasis, pleural effusion, pneumothorax, emphysema, asthma, lung cancer, respiratory failure – diagnosis, disorders of lung, ventilation: restriction and obstruction. Examination of cardiovascular system: cardiac cycle, heart sounds, heart murmurs, pulse, blood pressure, the apical impulse, estimation of cardiac size- cardiac dullness; heart failure – symptoms and signs, NYHA grading. Examination of the abdomen: protuberant abdomen – causes, ascites, signs of peritoneal inflammation (acute abdomen)- rebound tenderness, muscular rigidity, enlargement of liver and spleen, signs and symptoms of: gastrointestinal bleeding and hemorrhage, peptic ulcer, Crohn disease, ulcerative colitis, colon cancer (rectal examination- indications, technique), liver cirrhosis, gallstones, cholecystitis, appendicitis; kidney tenderness, kidney stones, signs and symptoms of urinary tract infection.

Lectures:

The structure and purposes of health history. Principles of interviewing.

Symptomatology of gastrointestinal, urinary, musculoskeletal and endocrine diseases

Dyspnea types and causes. The approach to breathlessness. Respiratory failure.

The general survey: height and built, weight, vital signs. Skin colour and lesions. The assessment of mental status. Fever, jaundice and cyanosis

Edemas – types and pathogenesis. Principles of the head and neck examination.

The examination of the thorax and lungs: location findings on the chest, the survey of respiration, inspection and palpation

Functional examination of the respiratory system (spirometry). Examination of sputum, transudates and exudates

Lung sounds – principles of auscultation

Signs and symptoms of particular pulmonary diseases

Examination of cardiovascular system – the general approach. The arterial pulse and blood pressure. The cardiac examination: inspection, palpation and percussion.

The general approach to abdomen examination: inspection, percussion, light and deep palpation

Kidney and urinary tract examination. Anus, rectum, and prostate examination and their importance in

everyday practice
Signs and symptoms of gastrointestinal and urinary system diseases.
The process of clinical thinking. The patients record. Laboratory tests and imaging in clinical diagnosis.

Obligatory literature for Lecture and lab classes: Bates' Guide to Physical Examination and History-Taking - 11th Edition
Complementary literature for Lecture and lab classes: Kumar and Clark Clinical Medicine 9th Edition.

Requirements for didactic aids :multimedia projector, laptop

Conditions for obtaining a credit for the subject:

A positive result from a theoretical exam and the history taking and physical examination as well as planning of further diagnostic and therapeutic. Knowledge of the basic concepts of internal diseases. **W-40%**

Practical skills for clinical examination and the assessment of the patient status. Documentation of history taking and physical examination of indicated patient (medical history). **U-50%**

Adherence to principles of dealing with patient, and present the right attitude in contact with them and co-workers. **K-10%**

Attendance: mandatory for lectures and lab classes

Uniforms: lab coats and lab shoes

Missed exams/Assignments/Make-up policy: retakes and makeups to be arranged with the teacher student is assigned to.

The name and address of the department/clinic, where the course is taught (module/course); contact details (phone number/ email address): Departemnt of Internal Diseases Medical University of Lublin; SPSK-1, 20-081 Lublin ; Staszica 16 street. Tel/fax +815327717; e-mail: lubelskainterna@op.pl

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Signature of the head of the department/clinic



Dean's signature

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Date of submission: