

COURSE UNIT DESCRIPTION

Course unit title	Code
Propaedeutics of Internal Diseases and the Basics of Clinical Oncology (I) 2023-2024	

Lecturer(s)	Department(s)
Coordinator: Assoc. Prof. Violeta Ožeraitienė. Others: <u><i>Propaedeutics of Internal Diseases</i></u> Assist. Prof. Rima Kavalnienė Assist. Prof. Dalia Mečkauskienė Assoc. Prof. Sonata Varvuolytė Lectr. Emilija Kavaliauskaitė Lectr. Mažvydas Jackevičius Lectr. Monika Tuklerieenė Lectr. Ilja Skalskis	Vilnius University Faculty of Medicine Institute of Clinical Medicine Department of Internal Diseases, Family Medicine and Oncology

Cycle	Level of the course unit	Type of the course unit
Integrated University Studies (stages I and II)	-	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Auditorium. Lectures and seminars in auditorium. Practice in training rooms and in Therapeutics divisions of hospitals (clinical examination of patients in wards)	II course, autumn semester, 3rd	Lithuanian, English

Prerequisites and corequisites	
Prerequisites. A student must have completed the following courses: Human Anatomy, Human Histology, Human Biology and Genetics, Biochemistry, Psychology, Basics of Professional Communication and Psychosomatics.	Corequisites (if any): -

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5	133	66	67

Purpose of the course unit		
Programme competences to be developed		
The purpose is to develop student autonomy during the clinical examination of a patient as well as analytical and critical thinking through evaluation of clinical examination data, laboratory and instrumental investigations; to develop professional competence of a medical doctor in establishing the clinical diagnosis of internal disease syndromes and oncological diseases, and to predict further investigation plan and treatment.		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Generic competences At the end of the study programme a graduate will be able:		
1. Professional qualities 1.1. Be able to act in compliance with ethical standards, apply good medical practice principles at work, to be emphatic, honest, to think critically and self-critically, to be creative, take the initiative, and to effectively communicate with others.	Methods of active practical teaching/learning: during the practice in hospital divisions while communicating with patients, hospital employees, and lecturers students learn communication and principles of ethics, develop their skills for appropriate communication with	Continuous assessment of practical skills and theoretical knowledge through the communication between a teacher and a student while performing clinical examination of patients in hospital wards and during colloquiums.

<p>Students at the end this course will be able to adhere to the principles of medical ethics and deontology, think critically and self-critically, be creative.</p>	<p>patients and colleagues. Preparation of presentations, posters, discussions. Research methods: independent search for information, studying professional literature and course materials.</p>	
<p>Subject-specific competences At the end of the study programme a graduate will be able:</p>		
<p>6. Assessment of clinical signs, making an appointment for the laboratory tests and investigations, differential diagnostics and development of a monitoring plan. 6.1. Recognize, assess and describe the manifestation of the diseases and their progress, severity of symptoms and signs; formulate the required tests and interpret their results.</p> <p>Students at the end of this course will be able to perform systemic and complete clinical examination of a patient. The students will be capable to perform structured history taking, practically apply methods of physical examination: inspection, palpation, percussion, auscultation, - and anthropometry, thermometry; to demonstrate expert understanding of the assessment clinical data interpretation; to diagnose the main syndromes of internal diseases and pathological conditions; to develop a patient's investigation plan, and to write a patient's case history independently.</p>	<p>Lectures, seminars, practical training, internship. Methods of active practical teaching/learning: students learn to perform clinical examination of patients practically, analyse, assess and summarize the data of clinical laboratory and instrumental examinations during the practical training in simulation classes, later on in hospital wards. Group discussions; interactive medical cases. Solutions of theoretical clinical situations (long and brief clinical cases). Research methods: analysis of video tutorials of physical examination of patients; audio tutorials (cardiac, lung auscultation); Individual study of course materials, studying professional literature, information search and assessment. Preparation of presentations, posters, e learning.</p>	<p>Continuous assessment of practical skills and theoretical knowledge through the communication between a teacher and a student while performing clinical examination of patients in wards and during colloquiums.</p>

<p>10. Competent communication in medical practice. 10.1. Communicate clearly, sensitively and effectively with patients, colleagues, patient relatives, and the disabled.</p> <p>While effectively communicating with a patient, students will be able to gather information about his/her state of health.</p>	<p>Methods of active practical teaching/learning: students learn to communicate with patients during the practical training in simulation classes, later, in hospital wards. Group discussion. Interactive medical cases, role-plays.</p> <p>Research methods: educational training tests, analysis of clinical cases, individual study of course materials and professional literature.</p>	<p>Continuous assessment of practical skills and theoretical knowledge through the communication between a teacher and a student while performing clinical examination of patients in wards and during colloquiums.</p>
<p>11. Application of ethical and legal principles in medical practice: 11.1 Maintain confidentiality, apply ethical principles in clinical practice; fill in forms of person's informed agreement; apply national and European legislation in clinical practice.</p> <p>Student at the end of this course will be able to apply ethical principles and observe confidentiality while performing clinical examination of patient.</p>	<p>Methods of active practical teaching/learning: during practical training in simulation classes, later in hospital divisions students learn to apply ethical principles while solving clinical situations.</p> <p>Research methods: educational training tests, analysis of clinical cases, group discussion, individual study of course materials and professional literature.</p>	<p>Continuous assessment of practical skills and theoretical knowledge through the communication between a teacher and a student while performing clinical examination of patients in wards and during colloquiums.</p>

5	Contact work hours							Time and tasks of self-study	
	Lectures	Consultations	Practice	Seminars	Laboratory work	Practical training	Total contact hours	Self-study	Tasks
3 semester									
<p>Framework of clinical examination of a patient. Methods of clinical examination. Structured history taking (<i>anamnaesis</i>). Main complaints of a patient: pain, functional and morphological disturbances. Past medical, family, social-occupational histories. A systemic review. Methods of physical examination of a patient: inspection, palpation, percussion, auscultation. Thermometry. Anthropometry. Calculation of body mass index, clinical assessment of findings.</p>	2		2	1			5	3	<p>Study of professional literature. Preparation for practical training and seminars on patient history taking and physical examination.</p>
<p>Clinical examination of a patient with a respiratory disease: structured history taking (anamnesis), inspection, palpation, percussion – comparative and topographic. Tactile vocal <i>fremitus</i>. Clinical assessment of findings.</p>	1		1	1			3	2	<p>Study of relevant literature. Preparation for physical examination of a patient suffering from a respiratory disease.</p>
<p>The techniques and methods of lung auscultation. Normal and abnormal breath sounds. Added (adventitious) sounds: rales or crackles, wheezes, crepitation, pleural rub. Clinical assessment of findings.</p>			1	1			2	2	<p>Study of relevant literature. Preparation for physical examination of a patient suffering from a respiratory disease.</p>

Laboratory, functional and instrumental methods of investigation of respiratory system. The chest X-ray and CT scan in respiratory medicine. Bronchoscopy. Evaluation of laboratory analysis of sputum and pleural effusions, clinical findings assessment.	1			1			2	2	Study of relevant literature. Preparation for a seminar about laboratory and instrumental investigations of the respiratory system.
Clinical examination of patients presenting with respiratory syndromes: consolidation, cavity, chronic airflow limitation, air leakage into pleural space, pleural effusion, obstruction, restriction, respiratory failure. General understanding of etiopathogenesis. Clinical symptoms and signs. Diagnostic criteria.			1	1			2	2	Study of relevant literature. Preparation for practical training about respiratory syndromes, clinical features. Listening to audio tutorials about normal, abnormal, added breath sounds
Clinical examination of patients presenting with endocrine diseases: structured history taking (anamnesis), inspection, and palpation of thyroid gland. Laboratory, biochemical, instrumental, imaging investigations, clinical assessment of findings.	1		1	1			3	3	Study of literature. Preparation for practical training about physical, laboratory, instrumental, imaging investigations of patient suffering from endocrine diseases.
Clinical examination of patients presenting endocrinological system syndromes: Hypoglycaemia, hyperglycaemia, thyroid hyperfunction and hypofunction. General understanding of etiopathogenesis. Clinical symptoms and signs. Diagnostic criteria.	1		1	1			3	2	Study of relevant literature. Preparation for practical training about diabetes mellitus and the main thyroid diseases.
<i>Colloquium I in writing</i>				1			1	3	Preparation for the colloquium
Clinical examination of a patient with a cardiovascular disease: structured history taking (anamnesis), inspection, palpation of apex beat (point of maximum impulse) and precordial movements (parasternal heave, thrill). Percussion of the heart (relative and absolute heart dullness). Clinical assessment of the findings.	1		1	1			3	3	Study of relevant literature. Preparation for practical training on the physical examination of patients suffering from a cardiovascular disease.
Normal heart auscultation: sites of listening, main and additional heart tones, genesis. Heart auscultation with pathology: abnormalities of the heart tones – alterations in intensity, splitting, extra heart sounds, additional sounds. Gallop rhythm: types, genesis, and clinical significance. Heart murmurs: genesis, classification, characteristics and clinical assessment.	1		2	2			5	5	Study of relevant literature. Preparation for practical training about physical examination of patients suffering from a cardiovascular disease.
Examination of pulse. Blood pressure (BP) measurement, blood-pressure categories according to clinical guidelines, interpretation of BP readings. Blood tests in cardiovascular diseases. Instrumental investigations: electrocardiography (ECG - standard, the exercise stress testing (veloergometry), Holter monitor test); echocardiography – transthoracic, transesophageal echocardiograms; coronarography.			1	1			2	2	Study of relevant literature. Preparation for practical training about pulse examination and BP measurement, laboratory and instrumental investigations of cardiovascular diseases.

Conception and genesis of ECG, electrophysiology of impulses, the normal limits of the parameters of waves, intervals and segments on ECG. Main derivations. ECG analysis scheme: estimation of regular rhythm pacemaker, heart rate calculation, voltage, electrical axis of the heart and cardiac rotation (α angle detection).	1		2	2			5	5	Study of relevant literature. Preparation for practical training for normal ECG analysis.
Pathological ECG. Electrocardiographic signs and etiology of heart chambers enlargement and hypertrophy. ECG signs of heart rhythm disorders: sinus tachycardia, sinus bradycardia, premature complexes (ectopic beats), atrial fibrillation and flutter, paroxysmal tachycardia. Cardiac conduction disorders electrocardiographic characteristic: II, III degree atrioventricular blocks and His bundle branch blocks, I. ECG signs of myocardial ischaemia and infarction.	1		4	1			6	5	Study of relevant literature. Preparation for practical training on pathological ECG analysis.
Clinical examination of patients presenting with the main cardiovascular syndromes. Acute and chronic heart failure syndromes. Syncope. Arterial hypertension syndrome. General understanding of etiopathogenesis. Clinical symptoms and signs. Diagnostic criteria.			1	1			2	3	Study of relevant literature. Preparation for practical training about cardiovascular syndromes.
<i>Colloquium II in writing</i>				2			2	6	Preparation for the colloquium
9. Clinical examination of a patient presenting with gastrointestinal, pancreas diseases: structured history taking (anamnesis), inspection, palpation, percussion, auscultation of the abdomen. Laboratory and instrumental investigations in gastrointestinal, pancreatic diseases. Gastric acid secretion test. Analysis of faeces: macroscopic, microscopic, chemical, stool test, stool culture. Endoscopic, imaging, histomorphological investigations, clinical assessment of findings.	1		1	1			3	3	Study of literature. Preparation for practical training about physical examination and laboratory and instrumental investigations of patient suffering from gastrointestinal and pancreas diseases.
Clinical examination of patients presenting with the main gastrointestinal bleeding, malabsorption and nutritional status. Acute abdominal syndrome. General understanding of etiopathogenesis. Clinical symptoms and signs. Diagnostic criteria.	1			2			3	3	Study of relevant literature. Preparation for practical training about the main gastrointestinal syndromes.
Clinical examination of a patient presenting with a hepatobiliary disease: structured history taking (anamnesis), inspection, palpation, percussion. Laboratory, biochemical, instrumental, imaging investigations, clinical assessment of findings.	1		2	1			4	3	Study of literature. Preparation for practical training about physical, laboratory, instrumental, imaging investigations of patients suffering from hepatobiliary diseases.

Clinical examination of patients presenting with the main liver syndromes: jaundice, portal hypertension, hepatic insufficiency. General understanding of etiopathogenesis. Clinical symptoms and signs. Diagnostic criteria.	1		1	1			3	3	Study of relevant literature. Preparation for practical training about the main hepatobiliary system syndromes.
Clinical examination of patients presenting with kidney diseases: structured history taking (anamnesis), inspection, palpation, percussion. Laboratory, biochemical, instrumental, imaging investigations, clinical assessment of findings.	1		1	1			3	3	Study of literature. Preparation for practical training about physical, laboratory, instrumental, imaging investigations of patient suffering from kidney diseases.
Clinical examination of patients presenting with the main renal syndromes: acute and chronic renal failure, nephrotic and nephritic. General understanding of etiopathogenesis. Clinical symptoms and signs. Diagnostic criteria.	1		1	1			3	3	Study of relevant literature. Preparation for practical training about acute and chronic renal failure, nephrotic and nephritic syndromes.
<i>Colloquium III in writing. Credit test.</i>				1			1	3	Preparation for the colloquium and credit test.
Total:	16		24	26			66	67	

Assessment strategy	Assessment criteria
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<p>Assessment requirements</p> <p>Course of Propedeutics of Internal Diseases (PID):</p> <ul style="list-style-type: none"> • 3 colloquiums; • One ECG descriptive analysis. 	<p>Propaedeutics of Internal Diseases and the Basics of Clinical Oncology</p> <p>The course of Propaedeutics of Internal Diseases delivered in the 3rd semester could be accomplished by getting credit. Credit requirements: all grades of three colloquiums and ECG descriptive analysis should be not less than 5.</p> <p>Other provisions to be observed by students during the study of internal medicine. Participation in the practice is compulsory, in accordance with the general dress and hygiene rules of the hospital. Student's absence from classes can only be due to an excused reason. All reporting (colloquia, examinations) is carried out according to the schedule, and the attendance of all students is mandatory. Attendance at the final examination is compulsory for all students, regardless of the cumulative marks obtained (the examination mark is also cumulative). In case of non-attendance, the examination is considered as failed. No notetaking, talking, use of telephones or other electronic devices (artificial intelligence) is allowed during the colloquia and examinations. Being observed committing prohibited acts will result in being removed from the examination (colloquium). Those participating in the colloquium or examination must have a student ID card.</p>
<p>Assessment methods</p> <p>Written Tests:</p> <ul style="list-style-type: none"> • Multiple choice questionnaire 	<p>Assessment of colloquiums of Propaedeutics of Internal Diseases</p> <p>PID colloquium – MCQ test. The test consists of 50 questions. Each of them has five answer choices. Each correct answer brings 0,2 points. In case of all, correct answers per one question -1 point. The overall maximum score of the test - 50 points. The minimum amount-25 points. Evaluation is presented with decimals.</p>

	50-10(excellent) 49-9,80 48,2-9,64 48-9,60... 26,2-5,24 26-5,2 25-5,00 (sufficient).
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Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
Compulsory reading				
Douglas G., Nicol F., Robertson C.	2013	Macleod's Clinical Examination, 14th ed.	textbook	Churchill Livingstone Elsevier, Edinburg.
Epstein O., Perkin D.G., de Bono D.P. & Cookson J.	2008	Clinical Examination, 4th ed.	textbook	Churchill Livingstone Elsevier, London.
Naudžiūnas A., Sadauskas S., Unikauskas A. ir kiti.	2019	Vidaus ligų diagnostikos pagrindai	textbook	Kaunas: Vitae Litera http://ebooks.vitaelitera.lt/
McGee S.	2017	Evidence based physical diagnosis, 4th ed.	e book	Elsevier https://www.clinicalkey.com
DeVita Jr. V.T., Lawrence T.S., Rosenberg S.A. (Editors)	2015	Cancer: principles & practice of oncology. Primer of the Molecular Biology of Cancer, 2nd ed.	book	Philadelphia (Pa): Walters Kluwer/Lippincott Williams & Wilkins
Juozaitytė E. (sudarytoja)	2014	Onkologija ir hematologija	textbook	Kaunas: Vitae Litera
Tobias I., Hochhauser D.	2014	Cancer and its management	book	Wiley-Blackwell
Optional reading				
Danila E., Šatkauskas B.	2009	Klinikinė pulmonologija	book	Vilnius: UAB Vaistų Žinios
Irnius A., Kupčinskas L. ir kt.	2010	Klinikinė gastroenterologija	book	Vilnius: UAB Vaistų Žinios
Laucevičius A, Nemickas R., Petrulionienė Ž.	2008	Klinikinės kardiologijos pagrindai	book	Vilnius: UAB Vaistų Žinios
Miglinas M.	2003	Inkstų ligos	book	Vilnius, UAB „Vaistų žinios“
Sudaryt. G. Kazanavičius	2009	Endokrinologija	book	Kaunas, UAB „Vitae Litera“ http://ebooks.vitaelitera.lt/
Talley NJ, O'Connor S	2014	Clinical Examination, 8th ed.	e book	Elsevier https://www.clinicalkey.com
Henderson MC, Tierne LM Jr., Smetana GW		The Patient History: An Evidence-Based Approach to Differential Diagnosis, 2nd ed.	e book	The McGraw-Hill Companies http://accessmedicine.mhmedical.com
Alastair IJ, Dover AR, Fairhurst K	2018	Macleod's Clinical Examination, 14th ed	e book	Elsevier https://www.clinicalkey.com
Japp AG, Robertson C, Wright RJ, et al.	2018	Macleod's Clinical Diagnosis	e book	Elsevier https://www.clinicalkey.com
Sandilands EA, Strachan K	2020	Macleod's Essentials of Examination	e book	Elsevier https://www.clinicalkey.com
Gleadal J.	2012	History and Clinical Examination at a Glance	book	Chichester: J. Willey Blackwell
Bayes de Luna A.	2014	ECGs for beginners	e book	John Wiley & Sons, Inc.

				https://onlinelibrary.wiley.com
Kumar N, Law A, Choudhry NK.	2016	Teaching Rounds: A Visual Aid to Teaching Internal Medicine Pearls on the Wards	e book	McGraw-Hill Education http://accessmedicine.mhmedical.com