



Direct (contact) education ¹		5			30								
Distance learning ²	15												
Summer semester:													
Department of Nephrology and Transplantation Medicine, Department of Gastroenterology and Hepatology, Department of Heart Diseases, Department of Internal, Occupational Diseases, Hypertension and Clinical Oncology													
Direct (contact) education		5			45								
Distance learning	15												
TOTAL per year:													
Department of Nephrology and Transplantation Medicine, Department of Gastroenterology and Hepatology, Department of Heart Diseases, Department of Internal, Occupational Diseases, Hypertension and Clinical Oncology													
Direct (contact) education		10			75								
Distance learning	30												
Educational objectives (max. 6 items)													
C1. The purpose of education is to familiarize students with the pathogenesis, symptomatology, and treatment of internal diseases.													
C2. Knowing preventive activities against formation of internal medicine.													
C3. Keeping medical records.													
C4. Students should possess the ability to efficiently collect medical history, physical examination, proper technique with the correct interpretation of the clinical examination ascertained deviations from the norm.													
C5. Students also owe to possess knowledge of basic laboratory tests and diagnostic procedures, including internal medicine with knowledge of the results of variations in the underlying disease entities.													
C6. Students should possess the ability to carry out differential diagnosis, perform simple diagnostic tests with the diagnosis, therapy planning of the basic units of internal diseases.													
Education result for course in relation to verification methods of the intended education result and the type of class:													

¹ Education conducted with direct participation of university teachers or other academics

² Education with applied methods and techniques for distance learning



Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>
E. W1.	In terms of knowledge the graduate knows and understands: the relationship between morphological abnormalities and the function of changed organs and systems and between clinical symptoms and diagnostic and treatment options;	MCQ test	L/SE
E.W2.	the basic methods for conducting a medical examination and the role of additional tests in diagnosis, monitoring, prognosis and prevention of organ and systemic disorders, with a particular emphasis on their effects on oral tissues;	MCQ test	L/SE
E. W3.	the aetiopathogenesis and symptomatology of diseases of the respiratory, circulatory, haematopoietic, genitourinary, immune, gastrointestinal, musculoskeletal and endocrine systems, with a particular emphasis on diseases manifesting in the oral cavity;	MCQ test	L/SE
E. W16.	immunological aspects of transplantation and haemotherapy;	MCQ test	L/SE
E. W18.	life-threatening situations;	MCQ test	L/SE
E. W20.	the cases where the patient should be referred to a hospital;	MCQ test	L/SE
E. U1.	In terms of skills the graduate is able to: perform differential diagnosis of the most common diseases;	Oral or written answer / assessment of practical skills	CC
E. U2.	assess and describe the somatic and psychological state of the patient;	Oral or written answer / assessment of practical skills	CC
E. U3.	plan diagnosis and therapy for the most common diseases;	Oral or written answer / assessment of practical skills	CC
E. U4.	interpret laboratory test results;	Oral or written answer / assessment of practical skills	CC
E. U5.	identify correct and pathological structures and organs in additional imaging examinations (X-ray, ultrasound, computed tomography [CT]);	Oral or written answer / assessment of practical skills	CC



E. U17	recognise diseases related to nicotine dependence, alcoholism and other addictions;	Oral or written answer / assessment of practical skills	CC
E. U20	perform basic medical procedures and treatments: temperature measurement, pulse measurement, non-invasive blood pressure measurement, oxygen treatment, hygienic and surgical hand decontamination	Oral or written answer / test / analysis of clinical cases	CC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

Student's amount of work (balance of ECTS points):

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	85
2. Number of hours of distance learning:	30
3. Number of hours of student's own work:	60
4. Number of hours of directed self-study	0
Total student's workload	175
ECTS points for course	7

Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

WINTER SEMESTER (15 hours)

1. Introduction: why and to what extent a dentist needs knowledge in the field of internal medicine.
2. Rules for collecting medical history.
3. Basics of physical examination.
4. Symptoms and diagnostics of respiratory diseases.
5. Symptoms and diagnostics of gastrointestinal diseases.
6. Symptoms and diagnostics of heart disease.
7. Life-threatening conditions in heart disease, cardiogenic shock.

SUMMER SEMESTER (15 hours)

8. Symptomatic syndromes and diagnosis of kidney diseases.
9. Selected issues of infectious diseases, including hepatitis B and C infection.
10. Symptoms and diagnostics of rheumatological disorders.
11. Diseases of endocrine glands, with particular emphasis on diabetes.
12. Symptoms and diagnostics of coagulation disorders.
13. Diagnosis and symptoms of allergic diseases, anaphylactic shock.
14. Symptoms and diagnostics of hematopoietic diseases.

Seminars

WINTER SEMESTER (5 hours)

1. Rules for collecting medical history. Basics of physical examination.
2. Symptoms and diagnostics of heart disease.
3. Symptoms and diagnostics of respiratory diseases.
4. Symptoms and diagnostics of gastrointestinal diseases.
5. Symptomatic syndromes and diagnosis of kidney diseases.

SUMMER SEMESTER (5 hours)



6. Symptoms and diagnostics of hematopoietic diseases.
7. Diseases of endocrine glands.
8. Diabetes and complications of diabetes
9. Diagnosis and symptoms of allergic diseases, anaphylactic shock.
10. Symptoms and diagnostics of rheumatological disorders.

Classes

WINTER SEMESTER (30 hours)

1. Organization of the Internal Ward. Interviewing and comprehensive health history taking. Principal symptoms of diseases: pain, fainting, dizziness, dyspnoea, edema, heart palpitation.
2. Medical history taking. Social interview, family history, epidemic diseases, stimulants, medications. Simplifying evaluation of the patient general status (consciousness, complaints, vital signs).
3. Assessment of the patient's general health status (vital signs, cognitive and psychical status, nutritional status). Skin assessment. Examination of head, neck and lymph nodes.
4. Examination of the chest. Types of chest. Topography of chest organs. Chest percussion and auscultation.
5. Examination of the respiratory system. General palpation of the chest wall. Percussion of lungs. Breath sounds.
6. Chest examination continuation: the heart. Inspection and palpation of the heart region. Cardiac apex impulse.
7. The cardiac examination. Heart sounds and murmurs, heart rate.
8. Examination the vascular system. Blood pressure measurement. Arterial pulse characteristics. Physical examination of limb vessels. Symptoms of deep vein thrombosis and critical limb ischemia. Oedemas.
9. Abdomen examination – quadrants and regions of the abdomen, common findings on inspection, auscultation and palpation of the abdomen, causes of abdominal pain and distension.
10. Abdomen examination – locations of abdominal organs, examination of liver, spleen, pancreas. Gut sounds. Signs of peritoneal irritation.
11. Examination of genito-urinary system.
12. The physical examination of the spine and lower extremities, special maneuvers for examination of the spine, knee and ankle.
13. Neurologic examination – cranial nerves. Examination of touch, sharp, position and vibration sensation. Deep tendon reflexes examination. Tests of coordination. Abnormal gaits.
14. Summary and repetition part 1.
15. Summary and repetition part 2.

SUMMER SEMESTER (45 hours)

16. Respiratory disorders, part 1. Upper respiratory tract infections. Asthma vs COPD. Pulmonary function tests.
17. Respiratory disorders, part 2. Lower respiratory tract infections. Pneumonia. Pneumothorax . Hydrothorax. Lung abscess. Tuberculosis. Lung cancer. Radiological and diagnostic procedures.
18. Circulatory disorders, part. 1. Valvular heart disease. Congenital and acquired heart defects. Endocarditis, myocarditis and pericarditis. Systemic hypertension, primary and secondary arterial hypertension.
19. Circulatory disorders, part. 2. ECG. Atherosclerosis. Ischemic heart disease. Myocardial infarction.
20. Circulatory disorders, part. 3. Acute and chronic circulatory insufficiency. Cardiac arrhythmia. Thrombophlebitis and thromboembolism.
21. Gastrointestinal tract disorders, part 1. Patient with abdominal pain, dysphagia, vomiting, constipation, diarrhea. Acute abdomen. Gastrointestinal bleeding. GERD. Inflammatory bowel diseases. Irritated bowel syndrome.
22. Gastrointestinal tract disorders, part 2. Acute and chronic hepatitis. Liver cirrhosis. A patient with jaundice. Pancreatitis. Gallstone disease. GI tract cancers.
23. Urinary tract disorders. Symptoms, urine analysis, ultrasound examination. \approach to patient with hematuria and proteinuria. Glomerular diseases. Renal stones. Acute kidney failure. Chronic kidney disease. Renal replacement therapy.



<p>24. Endocrine disorders, part 1. Diabetes mellitus, Hypoglycemia, comas. OGTT and other functional tests. Complications of diabetes mellitus.</p> <p>25. Endocrine disorders, part 2. Disorders of pituitary, thyroid and suprarenal glands.</p> <p>26. Endocrine disorders, part 3. Osteoporosis – diagnosis, prevention and treatment. . Parathyroid glands disorders: the role of parathormone, calcitonin and vitamin D in the homeostasis of calcium.</p> <p>27. Arthrosis and arthritis. Systemic collagenous diseases: lupus, sclerodermia, rheumatoid arthritis.</p> <p>28. Hematology: anemia, bleeding diathesis, leukemias, lymphadenopathy.</p> <p>29. Allergy, drug intolerance, shock.</p> <p>Summary and repetition.</p>
<p>Other</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>ect.</p>
<p>Basic literature (list according to importance, no more than 3 items)</p> <p>1. G. Herold „Internal medicine”,</p> <p>2. „Harrison’s Principles of Internal Medicine”</p> <p>3. Macleod's Clinical Examination G. Douglas, C. Robertson.</p> <p>Additional literature and other materials (no more than 3 items)</p> <p>1.</p> <p>2.</p> <p>3.</p>
<p>Preliminary conditions: (minimum requirements to be met by the student before starting the course)</p> <p>Completing subjects from previous years of study (Anatomy I year, Human Physiology II year, Microbiology II year).</p>

Rules for granting partial grades in the subject during the semester:	
Conditions to receive credit for the course: ⁴	
	Criteria for courses ending with a credit (without a grade)
Credit	The condition of passing the course is the presence at all classes and obtaining a positive assessment from the teacher. All absences must be made up, including rector's and dean's hours. The credit will be issued on the basis of the teacher's recorded activity: case presentation, participation in the discussion, observation, oral answer, and test. Attendance at all classes. Knowledge of issues related to pathogenesis, symptomatology, treatment and prevention of internal diseases. The student interprets medical research, makes a diagnosis, performs differential diagnosis, and proposes treatment. Answers correctly to 60 % of asked questions.



⁴ Please only fill out the conditions to receive credit specific to the given course and delete the remainder. Conditions to receive credit for the course (ie. with a grade or without), and the conditions for obtaining a grade from the exam, must include verification of the result of the given education carried out during all forms of teaching within the given subject (the following must be specified: form, criteria, and conditions to receive credit for classes included in the course, the admission terms to the final theoretical or practical examination, the form and requirements that must be met by the student to pass, as well as the criteria for specific grades). ATTENTION! Attendance can not be a condition for passing the course

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Department in charge of the course: ⁵	Department of Gastroenterology and Hepatology,
Head of Department in charge of the course:	Prof. dr hab. Elżbieta Poniewierka
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Department in charge of the course: ⁵	Department of Heart Diseases,
Head of Department in charge of the course:	Prof. dr hab. Krzysztof Reczuch
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Department in charge of the course: ⁵	Department of Internal, Occupational Diseases, Hypertension and Clinical Oncology
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Person in charge for the course:	Dr hab. n.med. Oktawia Mazanowska, prof. UMW
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CONSULTATION: Detailed information pertaining to the dates and places for consultation of academic staff are provided on the university websites of the departments in which the given subjects are being conducted. Additionally the information is posted next to the department secretary.



Date of Syllabus development
30.06.2022

⁵ For coordinated subjects, subjects which are coordinated by more than one department, this part should be duplicated and completed separately for each of the departments which will be conducting didactic classes.