



Syllabus for academic year: 2021/2022  
Training cycle: 2019/2020-2023/2024

Description of the course		Group of detailed education results	
Course	Internal diseases	Group code	E
		Group name	Non-surgical clinical sciences
Faculty	Dentistry		
Major	dentistry		
Level of studies	X uniform magister studies		
Form of studies	X full-time		
Year of studies	III	Semester:	X winter
			X summer
Type of course	X obligatory		
Language of study	X English		
Number of hours			
Form of education			
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)
	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)
	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)
		Physical Education (PE)	Vocational Practice (VP)
		Directed Self-Study (DSS)	E-learning (EL)
<b>Winter semester:</b>			
Department of Nephrology and Transplantation Medicine, Department of Gastroenterology and Hepatology, Department of Heart Diseases, Department of Internal, Occupational Diseases, Hypertension and Clinical Oncology (Dep. in charge of the course)			
Direct (contact) education <sup>1</sup>			30

<sup>1</sup> Education conducted with direct participation of university teachers or other academics



Distance learning <sup>2</sup>	15	5																	
<b>Summer semester:</b>																			
Department of Nephrology and Transplantation Medicine, Department of Gastroenterology and Hepatology, Department of Heart Diseases, Department of Internal, Occupational Diseases, Hypertension and Clinical Oncology (Dep. in charge of the course)																			
Direct (contact) education										30									
Distance learning	15	5																	
<b>TOTAL per year:</b>																			
Department of Nephrology and Transplantation Medicine, Department of Gastroenterology and Hepatology, Department of Heart Diseases, Department of Internal, Occupational Diseases, Hypertension and Clinical Oncology (Dep. in charge of the course)																			
Direct (contact) education										60									
Distance learning	30	10																	
<b>Educational objectives (max. 6 items)</b> 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.																			
<b>Education result for course in relation to verification methods of the intended education result and the type of class:</b>																			
Number of detailed education result	Student who completes the course knows/is able to									Methods of verification of intended education	Form of didactic class <i>*enter the abbreviation</i>								

<sup>2</sup> Education with applied methods and techniques for distance learning



		results	
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,	Oral or written	CC



	alcoholism and other addictions;	answer / assessment of practical skills	
E. U18	diagnose diseases which involve enlargement of the lymph nodes in the neck and the submandibular region and infectious diseases, with a particular emphasis on lesions within the oral cavity;	Oral or written answer / test / analysis of clinical cases	CC
E. U20	perform basic medical procedures: temperature measurement, pulse measurement, noninvasive blood pressure measurement, oxygen therapy, assisted and artificial respiration, oropharyngeal tube insertion, preparation of the surgical field, hygienic and surgical hand disinfection, intravenous, intramuscular and subcutaneous injections, collection of peripheral venous blood, collection of nasal, throat and skin swabs, simple strip tests, blood glucose measurement.		

\* 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:	60
2. Number of hours of distance learning:	40
3. Number of hours of student's own work:	20
4. Number of hours of directed self-study	
Total student's workload	120
ECTS points for course	4

**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 psychological 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 (30 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 patent with hematuria and proteinuria. Glomerular diseases. Renal stones. Acute kidney failure. Chronic kidney disease. Renal replacement therapy.
24. Endocrine disorders, part 1. Diabetes mellitus, Hypoglycemia, comas. OGTT and other functional tests. Complications of diabetes mellitus.
25. Endocrine disorders, part 2. Disorders of pituitary, thyroid and suprarenal glands.
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.
27. Arthrosis and arthritis. Systemic collagenous diseases: lupus, sclerodermia, rheumatoid arthritis.
28. Hematology: anemia, bleeding diathesis, leukemias, lymphadenopathy.
29. Allergy, drug intolerance, shock.
30. Summary and repetition.

**Basic literature** (list according to importance, no more than 3 items)

1. G. Herold „Internal medicine”,
2. „Harrison’s Principles of Internal Medicine”
3. Macleod's Clinical Examination G. Douglas, C. Robertson.

**Preliminary conditions:**

Completing subjects from previous years of study (Anatomy I year, Human Physiology II year, Microbiology II year).

**Conditions to receive credit for the course:**

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.

	<b>Criteria for courses ending with a credit<sup>3</sup></b>
Credit	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.

<b>Department in charge of the course:</b>	Department of Nephrology and Transplantation Medicine
<b>Department address:</b>	50-556 Wrocław, ul. Borowska 213
<b>Telephone:</b>	71 733 2500
<b>E-Mail:</b>	<a href="mailto:nefrologia@umed.wroc.pl">nefrologia@umed.wroc.pl</a>

<b>Person in charge for the course:</b>	Dr hab. n.med. Oktawia Mazanowska, prof. UMW
<b>Telephone:</b>	71 733 2551
<b>E-Mail:</b>	<a href="mailto:oktawia.mazanowska@umed.wroc.pl">oktawia.mazanowska@umed.wroc.pl</a>
<b>List of persons conducting specific classes:</b>	



Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Oktawia Mazanowska	prof. UMW	Medical science	Medical doctor, academic teacher	L/SE/CC
Magdalena Krajewska	prof.	Medical science	Medical doctor, academic teacher	L/SE/CC
Mariusz Kusztal	prof.	Medical science	Medical doctor, academic teacher	L/SE/CC
Mirostaw Banasik	prof. UMW	Medical science	Medical doctor, academic teacher	L/SE/CC
Krzysztof Letachowicz	prof. UMW	Medical science	Medical doctor, academic teacher	L/SE/CC
Dorota Kamińska	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Katarzyna Madziarska	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Tomasz Gołębiowski	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Hanna Augustyniak-Bartosik	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Katarzyna Jakuszko	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Andrzej Konieczny	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Magdalena Kuriata-Kordek	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Maciej Szymczak	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Sławomir Zmonarski	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Paweł Poznański	MD	Medical science	Medical doctor, academic teacher	L/SE/CC
Anna Szymczak	MD	Medical science	Medical doctor, academic teacher	L/SE/CC
Dorota Zielińska	MD	Medical science	Medical doctor, academic teacher	L/SE/CC

Department in charge of the course:	Department of Gastroenterology and Hepatology
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Person in charge for the course:	Prof. Elżbieta Poniewierka
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List of persons conducting specific classes:				
Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Elżbieta Poniewierka	prof.	Medical science	Medical doctor, academic teacher	L/SE/CC
Agata Mulak	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Dorota Waško-Czopnik	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Katarzyna Neubauer	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Radosław Kempniński	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Ewa Waszczuk	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Adam Smereka	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Barbara Woźniak-Stolarska	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Robert Dudkowiak	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Monika Kukulska	MD, PhD	Medical science	Medical doctor, academic teacher	L/SE/CC
Izabela Smoła	MD	Medical science	Medical doctor, academic teacher	L/SE/CC
Wojciech Pisarek	MD	Medical science	Medical doctor	L/SE/CC
Paweł Kuźnicki	MD	Medical science	Medical doctor	L/SE/CC
Dominika Ślósarz	MD	Medical science	Medical doctor	L/SE/CC

Department in charge of the course:	<b>Department of Heart Diseases</b>
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Person in charge for the course:	dr n.med. Wojciech Zimoch
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List of persons conducting specific classes:				
Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Wojciech Zimoch	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Krzysztof Josiak	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Michał Kosowski	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Stanisław Tubek	MD, PhD	Medical science	Medical doctor, academic teacher	CC





Piotr Niewiński	MD, PhD	Medical science	Medical doctor, academic teacher	CC
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Department in charge of the course:	Department and Clinic of Internal, Occupational Diseases, Hypertension and Clinical Oncology
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Person in charge for the course:	Anna Jodkowska, MD, PhD
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List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Adrian Doroszko	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Anna Jodkowska	MD, PhD	Medical science	Medical doctor, academic teacher	L/CC
Maciej Podgórski	MD	Medical science	Medical doctor,	CC
Helena Martynowicz	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Jakub Gawryś	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Jakub Mochol	MD	Medical science	Medical doctor,	CC
Damian Gajecki	MD	Medical science	Medical doctor,	CC
Siddarth Agrawal	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Prof. Anna Skoczyńska	Prof.	Medical science	Medical doctor, academic teacher	CC
Anna Szymańska-Chabowska	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Arkadiusz Derkacz	Prof.	Medical science	Medical doctor, academic teacher	CC
Jacek Polański	MD, PhD	Medical science	Medical doctor, academic teacher	CC
Agnieszka Sławuta	MD, PhD	Medical science	Medical doctor, academic teacher	CC



Date of Syllabus development

Syllabus developed by

dr hab. n.med. Oktawia Mazanowska, prof. UMW

dr hab. n.med. Dorota Kamińska

dr n.med. Katarzyna Jakuszko

.....16.06.2021.....

Signature of Head(s) of teaching unit(s)

dr hab. n. med. Oktawia Mazanowska  
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Dean's signature  
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DZIEKAN

.....prof. dr hab. Marcin Mikulewicz.....