



Syllabus for academic year: 2021/2022 Training cycle: 2019/2020-2024/2025													
Description of the course													
Course	Internal Medicine (Propaedeutics)								Group of detailed education results				
									Group code	Group name			
									E	NON-INTERVENTIONAL CLINICAL SCIENCES			
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	<input checked="" type="checkbox"/> uniform magister studies <input type="checkbox"/> 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies												
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time												
Year of studies	III							Semester:	<input checked="" type="checkbox"/> winter <input checked="" type="checkbox"/> summer				
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> 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)
Winter semester:													
Dpt of Internal Medicine, Pneumology and Allergology													
Direct (contact) education ¹					35								
Distance learning ²	15												
Summer semester:													
Dpt of Internal Medicine, Pneumology and Allergology													
Direct (contact) education					35								
Distance learning	15												

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

² Education with applied methods and techniques for distance learning



TOTAL per year:													
Dpt of Internal Medicine, Pneumology and Allergology													
Direct (contact) education					70								
Distance learning	30												
Educational objectives (max. 6 items) C1. mastering in taking medical history in adult patients C2. mastering in physical examination in adult patients C3. mastering in general state of health and consciousness evaluation C4. recognition of environmental and epidemiological risk factors of the most common internal diseases C5. recognition and understanding of reasons for symptoms and rules of diagnosing the most common internal diseases C6. development social competences needed to practice the medical profession, in accordance with graduate's profile.													
Education result for course in relation to verification methods of the intended education result and the type of class#:													
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.	student recognizes environmental and epidemiological conditionings of the most common internal diseases							written examination (test)	L, CC				
E.W7.	Student knows and understands the causes, symptoms, principles of diagnosis and therapeutic management of the most common internal diseases affecting adults and their complications: 1) cardiovascular diseases, including ischaemic heart disease, heart defects, diseases of the endocardium, heart muscle, pericardium, heart failure (acute and chronic), arterial and venous vascular diseases, hypertension - primary and secondary, pulmonary hypertension, 2) diseases of the respiratory system, including respiratory tract diseases, chronic obstructive pulmonary disease, bronchial asthma, bronchial dilatation, cystic fibrosis, respiratory infections, interstitial lung diseases, pleural diseases, mediastinal diseases, obstructive and central sleep apnoea, respiratory failure (acute and chronic), respiratory cancers, 3) diseases of the digestive system, including diseases of the oral cavity, oesophagus, stomach and duodenum, intestines, pancreas, liver, bile ducts and gallbladder, 4) endocrine diseases, including hypothalamus and pituitary, thyroid, parathyroid gland, cortex of the adrenal gland and suprarenal medulla, ovarian and testicular diseases and neuroendocrine tumours, polyglandular syndromes, different types of diabetes												



	<p>mellitus and metabolic syndrome - hypoglycaemia, obesity, dyslipidaemia,</p> <p>5) kidney and urinary tract diseases, including acute and chronic renal failure, glomerular and interstitial kidney diseases, renal cysts, kidney stones, urinary tract infections, and urinary tract tumours, in particular of the bladder and kidney,</p> <p>6) haematopoietic diseases including bone marrow aplasia, anaemia, granulocytopenia and agranulocytosis, thrombocytopenia, acute leukaemias, myeloproliferative neoplasms and myelodysplastic/myeloproliferative neoplasms, myelodysplastic syndromes, mature B and T cell neoplasms, haemorrhagic diathesis, thrombophilia, life-threatening conditions in haematology, blood disorders in diseases of other organs,</p> <p>7) rheumatic diseases, including systemic connective tissue diseases, systemic vasculitis, arthritis with spinal involvement, metabolic bone diseases, in particular osteoporosis and osteoarthritis, gout,</p> <p>8) allergic diseases, including anaphylaxis and anaphylactic shock, and angioedema,</p> <p>9) water-electrolyte and acid-base disorders: states of dehydration, states of overhydration, electrolyte disturbances, acidosis and alkalosis;</p>		
E.W9.	student knows and understands the causes and main specificities of the most common diseases affecting the elderly and the management of the main geriatric syndromes;	written examination (test)	L, CC
E.W23.	student knows and understands the environmental and epidemiological determinants of the most common cancers;	written examination (test)	L, CC
E.W24.	student knows and understands the basics of early cancer detection and principles of screening in oncology;	written examination (test)	L, CC
E.W40.	the theoretical and practical background of laboratory diagnostics;	written examination (test)	L, CC
E.U1.	student conducts anamnesis with an adult patient;	written examination (test)	L, CC
E.U3.	student conducts a complete and focused physical examination of an adult patient;	observation of the student's work and oral answer	CC
E.U7	student assesses the general condition, state of consciousness and awareness of the patient;	observation of the student's work and oral answer	CC
E.U12	student performs differential diagnosis of the most common diseases of adults and children;	observation of the student's work and oral answer	L, CC
E.U14	student recognizes immediate life-threatening conditions;	observation of the student's work and oral answer	L, CC
E.U20	student qualifies the patient for home and hospital treatment;	observation of the student's work and oral answer	L, CC



E.U24	student interprets laboratory test results and identify causes of deviations from the norm;	observation of the student's work and oral answer	L, CC
E.U29	student performs basic medical procedures and treatments including: 1) measurement of body temperature (surface and deep), heart rate measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs with a cardiomonitor, pulse oximetry, 3) spirometric examination, oxygen treatment, support and mechanical ventilation, 4) inserting an oropharyngeal tube, 5) intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialised capillary blood, 6) taking nasal, throat and skin swabs, 7) bladder catheterisation in women and men, gastric probing, gastric lavage, enema, 8) standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation, 9) simple strip tests and blood glucose measurement;	observation of the student's work and oral answer	L, CC

applies to skills written in bold

* 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:	100
2. Number of hours of distance learning:	-
3. Number of hours of student's own work:	95
4. Number of hours of directed self-study	n/a
Total student's workload	195
ECTS points for course	6,5

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

1. Organizational issues. Medical history.
2. Physical examination. Vital sings.
3. Head and neck examination.
4. Lung examination – part I (inspection, palpation, percussion).
5. Lung examination – part II (auscultation).
6. Chest X-ray – principles of examination.
7. Lung Function Test (LFT, spirometry). Part I.
8. Lung Function Test (LFT, spirometry). Part II.
9. Heart examination – part I (inspection, palpation, percussion)
10. Heart examination – part II (auscultation, heart sounds)



11. Heart examination – part III (auscultation, murmurs)
12. Principles of abdomen examination – part I (topical anatomy, inspection, auscultation, percussion and palpation).
13. Abdomen examination – part II (liver and gall bladder)
14. Abdomen examination – part III (kidneys, spleen, bowels)
15. Veins and arteries examination.
16. Deep vein insufficiency and peripheral artery disease.
17. Asthma – diagnosis and management. Asthma exacerbation.
18. Chronic obstructive pulmonary disease – diagnosis and management.
19. Lung cancer– diagnosis and management.
20. Pneumonia – diagnosis and management.
21. Pneumothorax, atelectasis, pleural fluid.
22. Dyslipidaemia and atherosclerosis. Ischemic heart disease and myocardial infarction.
23. Arterial hypertension.
24. Heart failure.
25. Acute abdomen. Acute peritonitis.
26. Gastric ulcer and stomach cancer.
27. Ulcerative colitis and Crohn disease. Colorectal cancer.
28. Nephrolithiasis. Chronic and acute nephritis. Renal failure.
29. Lupus Erythematosus and Rheumatoid Arthritis – main autoimmune diseases.
30. Diabetes. Thyroid gland diseases.

Practical classes

1. Obtaining general medical history and information focused on specific systems and organs. (3 hours)
2. Physical examination (vital signs, mental status exam, skin color: cyanosis, jaundice, other abnormalities). Head, neck and thyroid gland exam. Simplified eye exam. (3 hours)
3. Chest exam (inspection, chest types: pectus excavatum, barrel chest and topography). Chest percussion. Finding anatomic boundaries of the lungs and typical abnormalities (dull and hyperresonant sounds). (3 hours)
4. Lung auscultation. Types of breathing sounds (vesicular, bronchial, undifferentiated). Adventitious (Extra) lung sounds (crackles, wheezes, rhonchi). (3 hours)
5. Lung Function Test, spirometry. Performing the manoeuvre and principles of results interpreting. (3 hours)
6. Heart examination. Inspection and palpation of the precordial area. Precordial movement and point of maximal impulse. Percussion and finding anatomic boundaries of the heart. Heart sounds – mechanism of origin. Typical areas of valves auscultation. Sounds' splitting. Extra heart sounds. Gallop and summation gallop. (3 hours)
7. Heart murmurs – mechanism of origin. Organic and functional murmurs. Diastolic (mitral stenosis or aortic regurgitation) and systolic (aortic stenosis or mitral regurgitation) murmurs. Obtaining medical history and practical exercises in heart percussion and auscultation). (3 hours)
8. Examination of the abdomen. Quadrants and topical anatomy of the abdominal cavity. Various causes of abdominal distention. Abdominal palpation, auscultation and percussion. Examination of stomach and duodenum. Practical exercises. (3 hours)
9. Examination of the liver and gall bladder. Reasons of abnormalities. Examination of the pancreas. Practical exercises. (3 hours)



10. Examination of kidneys. Goldflam sign. Reasons of kidneys enlargement and displacement. Examination of the spleen. Principles in urogenital organs examination. Practical exercises. Bowels and appendix vermiformis. Acute abdomen. (3 hours)
11. Veins and arteries examination. The upper and lower extremities. Symptoms of arterial and venous insufficiency. Practical exercises. (3 hours)
12. Discussing the most common problems. Multiple choice questions test. (2 hours)
13. Asthma – medical history & clinical symptoms. Physical examination. Obtaining medical history and case presentations. (3 hours)
14. Chronic obstructive pulmonary disease, – clinical symptoms and physical examination. Obtaining medical history and case presentations. (3 hours)
15. Pneumonia. Pleuritis and pneumothorax. - clinical symptoms and physical examination. Obtaining medical history and case presentations. (3 hours)
16. Lung tumours. Atelectasis. – medical history & clinical symptoms. Differential diagnosis of lung diseases. Physical examination. Obtaining medical history and case presentations. (3 hours)
17. Congenital and acquired heart defects - clinical symptoms and physical examination. (3 hours)
Rheumatic and bacterial endocarditis, myocarditis and pericarditis - clinical symptoms and physical examination. Obtaining medical history and case presentations. (3 hours)
18. Myocardial infarction. Cardiac arrhythmias – clinical symptoms, physical examination and the ECG. Obtaining medical history and case presentations. (3 hours)
19. Acute and chronic heart failure. Cor pulmonale. Clinical symptoms and physical examination. Obtaining medical history and case presentations. (3 hours)
20. Gastric and duodenal ulcer. Zollinger-Ellison syndrome. Stomach cancer. Clinical symptoms and physical examination. Colitis ulcerosa. Leśniowski-Crohn disease. Colonic cancer. Obtaining medical history and case presentations. (3 hours)
21. Hepatic cirrhosis and tumours. Cholelithiasis. Types of icterus – clinical symptoms and physical examination. Acute abdomen. Acute peritonitis. (acute appendicitis, acute pancreatitis). - clinical symptoms and physical examination. Obtaining medical history and case presentations. (3 hours)
22. Pyelonephritis. Glomerulonephritis. Kidney tumours - clinical symptoms and physical examination. Obtaining medical history and case presentations. (3 hours)
23. Diabetes. Hyperthyroidism, hypothyroidism and other most common endocrine glands disorders. Medical history, differential diagnosis and physical examination. Obtaining medical history and case presentations. (3 hours)
24. Discussing the most common problems. Make up classes. Credit. (2 hours)

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

1. Macleod's Clinical Examination; 13th edition
2. Bickley LS. Bates' Guide to Physical Examination and History Taking Twelfth, North American Edition.
3. Schwartz, M.H. Textbook of Physical Diagnosis: History and Examination, 7th Edition.

Additional literature and other materials (no more than 3 items)

1. Davidson's Principles and Practice of Medicine; vol 1-3; 23rd edition
2. Fauci, Braunwald, Kasper et al. Harrison's principles of internal medicine (20 edition)

Preliminary conditions: (minimum requirements to be met by the student before starting the course)

Students are prepared on current and existing classes.

Students has knowledge of anatomy, biochemistry and human physiology.

Students have knowledge about the policy of dealing with the COVID-19 pandemic.

Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)



Attention! Attendance can not be a condition for passing the course

Grade:	Criteria for courses ending with a grade ³ (the first semester credit with a grade)
Very Good (5.0)	85%-100% correct answers answers to questions very good knowledge of the methodology of medical history collecting and physical examination, very good knowledge of the symptomatology of the diseases discussed during the classes,
Good Above (4.5)	80%-84% correct answers answers to questions better than good knowledge of the methodology of medical history collecting and physical examination, better than good knowledge of the symptomatology of the diseases discussed during the classes,
Good (4.0)	75%-79% correct answers answers to questions good knowledge of the methodology of medical history collecting and physical examination, good knowledge of the symptomatology of the diseases discussed during the classes,
Satisfactory Plus (3.5)	70%-74% correct answers answers to questions better than satisfactory knowledge of the methodology of medical history collecting and physical examination, better than satisfactory knowledge of the symptomatology of the diseases discussed during the classes,
Satisfactory (3.0)	60%-69% correct answers answers to questions satisfactory knowledge of the methodology of medical history collecting and physical examination, satisfactory knowledge of the symptomatology of the diseases discussed during the classes,
	Criteria for courses ending with a credit³
Credit	

Grade:	Criteria for exam ³
Very Good (5.0)	85%-100% correct answers in the written test
Good Above (4.5)	80%-84% correct answers in the written test
Good (4.0)	75%-79% correct answers in the written test
Satisfactory Plus (3.5)	70%-74% correct answers in the written test
Satisfactory (3.0)	60%-69% correct answers in the written test

Department in charge of the course:	Dpt of Internal Medicine, Pneumology and Allergology
Department address:	Ul. Marii Skłodowskiej Curie 66, 50-369 Wrocław
Telephone:	71 7842521
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Person in charge for the course:	Andrzej Obojski MD PhD
Telephone:	71 7842521
E-Mail:	andrzej.obojski@umw.edu.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
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³ The verification must cover all education results, which are realize in all form of classes within the course



Andrzej Obojski	MD PhD	Internal Medicine	physician	L, C
Wojciech Barg	MD PhD	Internal Medicine	physician	C
Robert Pawłowicz	MD PhD	Internal Medicine	physician	C
Magdalena Kosińska	MD	Internal Medicine	physician	C
Marta Rosiek- Biegus	MD PhD	Internal Medicine	physician	C
Karina Gójny	MD	Internal Medicine	physician	C
Anna Tumińska	MD PhD	Internal Medicine	physician	C

Date of Syllabus development

2021.09.28

Syllabus developed by

Andrzej Obojski MD PhD

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

Dean's signature
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