





Medicine, Pulmonology and Allergology														
<b>TOTAL per year:</b>														
Department of Internal Medicine, Pulmonology and Allergology	30			70										
Educational objectives (max. 6 items) <b>C1. mastering in taking medical history in adult patients</b> <b>C2. mastering in physical examination in adult patients</b> <b>C3. mastering in general state of health and consciousness evaluation</b> <b>C4. recognition of environmental and epidemiological risk factors of the most common internal diseases</b> <b>C5. recognition and understanding of reasons for symptoms and rules of diagnosing the most common internal diseases</b>														
<b>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</b>														
Number of course education result	Number of major education result	Student who completes the module/course knows/is able to			Methods of verification of intended education results (forming and summarizing)			Form of didactic class <i>**enter the abbreviation</i>						
U01	E.U1	student takes medical history with adult patient			practical examination, oral examination, written examination			L, CC						
U02	E.U3	student performs full and directed physical examination of adult patient			practical examination, oral examination, written examination			L, CC						
U03	E.U29	student performs basic medical procedures, takes the temperature and noninvasive blood pressure			practical examination, oral examination, written examination			L, CC						
U04	E.U7	student evaluates general state of health and consciousness of adult patient			practical examination, oral examination, written examination			L, CC						
U05	E.U12	student performs basic differential diagnosis of most common symptoms			practical examination, oral examination, written examination			L, CC						
W01	E.W1	student recognizes environmental and epidemiological conditionings of the most common internal diseases			oral examination, written examination			L, CC						
W02	E.W.7	student recognizes and understands reasons, symptoms and rules of diagnosing and treatment of the most common internal diseases			oral examination, written examination			L, CC						
W03	E.W23.	student recognizes environmental and epidemiological conditionings of most common neoplastic diseases			oral examination, written examination			L, CC						
W04	E.W9.	student knows and understands symptoms and the course of aging as well as knows comprehensive geriatric evaluation and interdisciplinary approach to the care of patient at old age			oral examination, written examination			L, CC						



<b>W05</b>	<b>E.W38</b>	student knows the theoretical basis of laboratory exam	oral examination, written examination	L, CC
<p>** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning.</p>				
<p>Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes: Knowledge: 5 Skills: 5</p>				
<b>Student's amount of work (balance of ECTS points)</b>				
<b>Student's workload</b> (class participation, activity, preparation, etc.)			<b>Student Workload (h)</b>	
1. Contact hours:			100	
2. Student's own work (self-study):			35	
Total student's workload			135	
<b>ECTS points for module/course</b>			6.5	
Comments				
<b>Content of classes</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)				
<b>Lectures</b>				
<ol style="list-style-type: none"> <li>1. Organizational issues. Medical history.</li> <li>2. Physical examination. Vital sings.</li> <li>3. Head and neck examination.</li> <li>4. Lung examination – part I (inspection, palpation, percussion).</li> <li>5. Lung examination – part II (auscultation).</li> <li>6. Chest X-ray – principles of examination.</li> <li>7. Lung Function Test (LFT, spirometry). Part I.</li> <li>8. Lung Function Test (LFT, spirometry). Part II.</li> <li>9. Heart examination – part I (inspection, palpation, percussion)</li> <li>10. Heart examination – part II (auscultation, heart sounds)</li> <li>11. Heart examination – part III (auscultation, murmurs)</li> <li>12. Principles of abdomen examination – part I (topical anatomy, inspection, auscultation, percussion and palpation).</li> <li>13. Abdomen examination – part II (liver and gall bladder)</li> <li>14. Abdomen examination – part III (kidneys, spleen, bowels)</li> <li>15. Veins and arteries examination.</li> <li>16. Deep vein insufficiency and peripheral artery disease.</li> <li>17. Asthma – diagnosis and management. Asthma exacerbation.</li> <li>18. Chronic obstructive pulmonary disease – diagnosis and management.</li> <li>19. Lung cancer– diagnosis and management.</li> <li>20. Pneumonia – diagnosis and management.</li> <li>21. Pneumothorax, atelectasis, pleural fluid.</li> <li>22. Dyslipidaemia and atherosclerosis. Ischemic heart disease and myocardial infarction.</li> <li>23. Arterial hypertension.</li> <li>24. Heart failure.</li> <li>25. Acute abdomen. Acute peritonitis.</li> </ol>				



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.

### **Seminars**

#### **Practical classes**

1. Obtaining general medical history and information focused on specific systems and organs.
2. Physical examination (vital signs, mental status exam, skin color: cyanosis, jaundice, other abnormalities). Head, neck and thyroid gland exam. Simplified eye exam.
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).
4. Lung auscultation. Types of breathing sounds (vesicular, bronchial, undifferentiated). Adventitious (Extra) lung sounds (crackles, wheezes, rhonchi).
5. Lung Function Test, spirometry. Performing the manoeuvre and principles of results interpreting.
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.
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).
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.
9. Examination of the liver and gall bladder. Reasons of abnormalities. Examination of the pancreas. Practical exercises.
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.
11. Veins and arteries examination. The upper and lower extremities. Symptoms of arterial and venous insufficiency. Practical exercises.
12. Discussing the most common problems. Multiple choice questions test.
13. Asthma – medical history & clinical symptoms. Physical examination. Obtaining medical history and case presentations.
14. Chronic obstructive pulmonary disease, – clinical symptoms and physical examination. Obtaining medical history and case presentations.
15. Pneumonia. Pleuritis and pneumothorax. - clinical symptoms and physical examination. Obtaining medical history and case presentations.
16. Lung tumours. Atelectasis. – medical history & clinical symptoms. Differential diagnosis of lung diseases. Physical examination. Obtaining medical history and case presentations.
17. Congenital and acquired heart defects - clinical symptoms and physical examination. Rheumatic and bacterial endocarditis, myocarditis and pericarditis - clinical symptoms and physical examination. Obtaining medical history and case presentations.



18. Myocardial infarction. Cardiac arrhythmias – clinical symptoms, physical examination and the ECG. Obtaining medical history and case presentations.
19. Acute and chronic heart failure. Cor pulmonale. Clinical symptoms and physical examination. Obtaining medical history and case presentations.
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.
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.
22. Pyelonephritis. Glomerulonephritis. Kidney tumours - clinical symptoms and physical examination. Obtaining medical history and case presentations.
23. Diabetes. Hyperthyroidism, hypothyroidism and other most common endocrine glands disorders. Medical history, differential diagnosis and physical examination. Obtaining medical history and case presentations.
24. Discussing the most common problems. Make up classes. Credit.

**Other**

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

1. Bickley LS. Guide to physical examination and history taking.
2. Fauci, Braunwald, Kasper et al. Harrison's principles of internal medicine (17 edition)

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

1. Schwartz, M.H. Textbook of Physical Diagnosis: History and Examination, 4th Edition. Philadelphia: W.B. Saunders Company, 2002.
2. Cohen-Cole, S.A. The Medical Interview: The Three Function Approach, 2nd Edition. St. Louis: Mosby Year Book, 2000.
3. Sapira, J.D. The Art and Science of Bedside Diagnosis. Baltimore: Urban and Schwarzenberg, 1990.
4. Willms, J.L, Schneiderman, H., Algranati, P.S. Physical Diagnosis: Bedside Evaluation of Diagnosis and Function. Baltimore: Williams and Williams, 1994.
5. Judge, R.D., Zuidema, G.D., Fitzgerald, F.T. Clinical Diagnosis, 5th Edition. Boston: Little, Brown and Co., 1989.
6. Barker, L.R., Burton, J.R., Zieve, P.D. Principles of Ambulatory Medicine, 6th Edition. Baltimore: Williams and Wilkins, 2002.

**Didactic resources requirements** (e.g. laboratory, multimedia projector, other...)

**Computer, projector, lecture hall.**

**Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)

Students are prepared on current and existing classes.

**Conditions to receive credit for the Propedeutics of Internal Medicine Course** To complete the course and earn the credit the student has to attend all classes (each absence must be made up, including rector's days and dean's hours) and got the pass on the credit, held by the academic teacher providing the class at the end of the semester/year. The credit consists of two parts, the practical and oral. The range of skills covers all topic listed in the syllabus. The necessary condition to take the final exam is to get the credit for the classes. The final exam is held in the form of the test (first trial, written), the open questions (retake, written) and oral (board exam, not mandatory).

**Each absence must be made up, including rector's days and dean's hours.**



<b>Grade:</b>	<b>Criteria for course</b>
Very Good (5.0)	85%-100% correct answers in oral quiz
Good Plus (4.5)	80%-84% correct answers in oral quiz
Good (4.0)	75%-79% correct answers in oral quiz
Satisfactory Plus (3.5)	70%-74% correct answers in oral quiz
Satisfactory (3.0)	60%-69% correct answers in oral quiz
<b>Grade:</b>	<b>Criteria for exam (if applicable)</b>
Very Good (5.0)	85%-100% correct answers in test
Good Plus (4.5)	80%-84% correct answers in test
Good (4.0)	75%-79% correct answers in test
Satisfactory Plus (3.5)	70%-74% correct answers in test
Satisfactory (3.0)	60%-69% correct answers in test

<b>Name of unit teaching course:</b>	Department of Internal Medicine, Pneumology and Allergology
Address	50-367 Wrocław, ul. Skłodowskiej 66
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<b>Person responsible for course:</b>	Andrzej Obojski MD PhD
Phone	71 7842283
E-mail	<a href="mailto:andrzej.obojski@umed.wroc.pl">andrzej.obojski@umed.wroc.pl</a>

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
<b>Andrzej Obojski</b>	MD PhD	Internal Medicine	physician	L, C
<b>Wojciech Barg</b>	MD PhD	Internal Medicine	physician	C
<b>Anna Dor-Wojnarowska</b>	MD PhD	Internal Medicine	physician	C
<b>Robert Pawłowicz</b>	MD PhD	Internal Medicine	physician	C
<b>Krzysztof Gomułka</b>	MD PhD	Internal Medicine	physician	C
<b>Magdalena Kosińska</b>	MD	Internal Medicine	physician	C
<b>Marta Rosiek- Biegus</b>	MD	Internal Medicine	physician	C
<b>Joanna Radzik-Zajac</b>	MD	Internal Medicine	physician	C
<b>Justyna Maciejczek</b>	MD	Internal Medicine	physician	C
<b>Karina Wrona</b>	MD	Internal Medicine	physician	C



**Date of Syllabus development**

2019.08.30

**Syllabus developed by**

Andrzej Obojski MD PhD

**Signature of Head of teaching unit**

Dr n. med. ANDRZEJ OBOJSKI  
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**Signature of Faculty Dean**

Wrocław Medical University  
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kierownik  
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