



UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Medicine

Course syllabus – part A

Course code: 48SJ-INM68

Cycle: 2025L

ECTS: 1.00

INTERNAL MEDICINE 6/8

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SUBJECT MATTER CONTENT:

Seminar - Cardiology: Pathophysiology of coronary artery atherosclerosis. Epidemiology of coronary heart disease. Risk factors – primary and secondary prevention. Clinical aspects of coronary heart disease. Diagnosis and treatment. Pathophysiology of myocardial infarction (STEMI and NSTEMI). Diagnostic and therapeutic algorithms in life threatening conditions in cardiology. Acquired valvular heart diseases: clinical presentation. Inherited valvular heart diseases in adults: clinical presentation. Clinical diagnosis of chronic heart failure. Infectious diseases of the heart. Heart pacing – indications and techniques. Syncope – differential diagnosis and algorithms Pulmonology: Pneumonia. Covid-19, symptoms, treatment, complications. Interstitial diseases of the lungs. Tuberculosis and other mycobacterial diseases. Acute and chronic respiratory failure. Rare diseases of respiratory system. Gastroenterology : Gastro-oesophageal reflux disease, gastritis, gastric and duodenal ulcer disease. Celiac disease. Bacterial overgrowth syndrome. Irritable bowel syndrome. Diverticular disease of the large intestine. Intestinal ischemia. Bleeding from the upper and lower gastrointestinal tract Hematology : Diagnosis and treatment of thrombocytopenia. Lymphomas. Myelodysplastic syndromes. Rheumatology : Systemic connective tissue disorders: SLE, scleroderma, dermatomyositis, polymyalgia rheumatica. Spondyloarthropathies. Osteoarthritis, gout and other pathologies secondary to crystal deposition within joints and tissues. Acute and life-threatening situations in rheumatoid disease. Paraneoplastic syndromes in rheumatology.

Lecture - Myocardial infarction. Coronary artery disease. Acquired and inherited valvular heart diseases in adults. Chronic heart failure. Myocarditis. Pericarditis. Infectious endocarditis. Heart rhythm disorder. Diagnosis and treatment of hematogenic malignancies. Diagnosis of anemia. Bleeding disorders. Signs symptoms and general characteristics of rheumatoid diseases. Rheumatoid arthritis. Sleep respiratory disorders. Lung cancer. Signs and symptoms of respiratory system diseases. Asthma and Chronic Obstructive Pulmonary Disease. Pulmonary hypertension.

TEACHING OBJECTIVE:

Etiology, pathophysiology, epidemiology, diagnosis and treatment of diseases respiratory system, allergies, metabolic diseases, diseases rheumatological diseases, heart diseases and hematopoietic system diseases.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN

Legal acts specifying learning outcomes:
672/2020;

ISCED Code: -

Status: -

Group of courses: -

Discipline: Medicine

Language: ANG

Classes: Lecture (13h); Seminar (28h);

Program: Medicine

Phase: Kierunek lekarski piąty rok semestr dziesiąty (oferta w jęz. angielskim dla obcokrajowców)

Profile: -

Form: full-time

Level of studies: uniform master's studies

Introductory subject: Anatomy, Physiology, Internal Medicine III, IV year and V year sem. IX

Prerequisites: Knowledge about physiology and human anatomy, Internal Medicine III, IV year and V year sem. IX

Organized by the unit:

Coordinators:

Piotr Cygański, piotr.cyganski@uwm.edu.pl

RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

Symbols for outcomes related to the field of study:

K.1.+, K.2.+, K.3.+, K.4.+, K.5.+, M/NM_K.7.+, KA7_KR1+, D.U15.+, E.U1.+, E.U3.+, E.U16.+, E.U7.+, E.U14.+, E.U13.+, E.U24.+, E.U29.+, E.U30.+, E.U32.+, E.U25.+, M/NM_E.W1.+, M/NM_D.W6.+, M/NM_D.W17.+, KA7_WG15+, M/NM_E.W7.+, M/NM_E.W40.+, M/NM_E.W41.+, M/NM_E.W42.+, KA7_WG14+, M/NM_D.W18.+

Symbols for outcomes related to the field of study:

W1 - The student knows and understand environmental and epidemiological conditions of the most frequent diseases

W2 - The student knows and understands the importance of verbal and non-verbal communication in the process of communicating with the patient and the concept of trust in interaction with the patient

W3 - The student knows and understands patient rights.

W4 - The student knows and understands the principles of nutritional treatment and fluid therapy in various disease states.

W5 - The student knows and understands causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications: 1) circulatory system diseases, including ischemic heart disease, heart defects, endocardial diseases, heart muscle diseases, pericardial diseases, heart failure (acute and chronic), arterial and venous diseases, arterial hypertension – primary and secondary, pulmonary hypertension, 2) respiratory system diseases, including respiratory tract diseases, chronic obstructive pulmonary disease, bronchial asthma, bronchiectasis, cystic fibrosis, respiratory infections, interstitial lung diseases, pleural diseases, mediastinal diseases, obstructive and central sleep apnea, respiratory failure (acute and chronic), respiratory system tumors, 3) diseases of the digestive system, including diseases of the oral cavity, esophagus, stomach and duodenum, intestines, pancreas, liver, bile ducts and gallbladder, 4) diseases of the endocrine system, including diseases of the hypothalamus and pituitary gland, thyroid, parathyroid glands, adrenal cortex and medulla, ovaries and testicles as well as neuroendocrine tumors, multiglandular syndromes, various types of diabetes and metabolic syndrome – hypoglycemia, obesity, dyslipidemia, 5) diseases of the kidneys and urinary tract, including acute and chronic renal failure, glomerular and interstitial kidney diseases, kidney cysts, nephrolithiasis, urinary tract infections, urinary tract tumors, in particular of the urinary bladder and kidney, 6) diseases of the hematopoietic system, including bone marrow aplasia, anemia, granulocytopenia and agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative neoplasms and myelodysplastic-myeloproliferative disorders, myelodysplastic syndromes, neoplasms of mature B and T lymphocytes, bleeding diathesis, thrombophilia, life-threatening conditions in hematology, blood disorders in diseases of other organs, 7) rheumatic diseases, including systemic connective tissue diseases, systemic vasculitis, arthritis with spinal involvement, metabolic bone diseases, in particular osteoporosis and degenerative joint disease, gout, 8) allergic diseases, including anaphylaxis and anaphylactic shock and

angioedema, 9) water-electrolyte and acid-base disorders: states of dehydration, states of overhydration, electrolyte disorders, acidosis and alkalosis;

W6 - The student knows and understands the theoretical and practical foundations of laboratory diagnostics;

W7 - The student knows and understands the possibilities and limitations of laboratory tests in emergency situations;

W8 - The student knows and understands the indications for implementing monitored therapy;

W9 - The student knows and understands the principles of academic, social and professional professionalism;

W10 - The student knows and understands the principles of teamwork

U1 - The student is able to respect the rights of the patient

U2 - The student is able to conduct a medical interview with an adult patient;

U3 - The student is able to perform a complete and focused physical examination of the adult patient;

U4 - The student is able to plan diagnostic, therapeutic and preventive procedures;

U5 - The student is able to assess and describe the patient's somatic and mental condition;

U6 - The student is able to recognize situations of immediate life-threatening situations.

U7 - The student is able to assess and describe the patient's somatic and mental condition;

U8 - The student is able to interpret laboratory test results and identify causes of deviations from the norm;

U9 - The student is able to perform basic medical procedures and treatments, including: 1) measurement of body temperature (superficial and core), pulse measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs using a cardiac monitor, pulse oximetry, 3) spirometry, oxygen therapy, assisted and replacement ventilation, 4) insertion of an oropharyngeal airway, 5) intravenous, intramuscular and subcutaneous injections, cannulation of peripheral veins, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialized capillary blood, 6) collection of nasal, throat and skin swabs, 7) catheterization of the urinary bladder 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 measurement of blood glucose;

U10 - The student is able to assist in carrying out the following medical procedures and treatments: 1) transfusion of blood products and blood derivatives, 2) drainage of the pleural cavity, 3) puncture of the pericardial sac, 4) puncture of the peritoneal cavity, 5) lumbar puncture, 6) fine-needle biopsy, 7) epidermal

tests, 8) intradermal and scarification tests and interpret their results;

U11 - The student is able to plan specialist consultations;

U12 - The student is able to apply nutritional treatment, including enteral and parenteral nutrition

K1 - The student is ready to establish and maintain a deep and respectful contact with the patient, as well as show understanding for worldview and cultural differences

K2 - The student is ready to act in the best interests of the patient

K3 - The student is ready to respect medical confidentiality and patient rights

K4 - The student is ready to take action towards the patient based on ethical principles, with awareness of the social conditions and limitations resulting from the disease

K5 - The student is ready to notice and recognize his/her own limitations and to make a self-assessment of educational deficits and needs

K6 - The student is ready to use objective sources of information

K7 - The student is able to observe and apply the principles of academic and professional ethics and professional image, academic, social and professional professionalism

Symbols for outcomes related to the field of study:

Seminar - ['K1', 'K2', 'K3', 'K4', 'U1', 'U2', 'U3', 'W1', 'W2', 'W3'] - Discussion concerning pathophysiological background of signs and symptoms in internal medicine - relevant to the topics elaborated during the semester

Lecture - ['K1', 'K2', 'K3', 'K4', 'U1', 'U2', 'U3', 'W1', 'W2', 'W3'] - Multimedia presentation

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Evaluation of the work and cooperation in the group) - ['K1', 'K2', 'K3', 'K4', 'U1', 'U2', 'U3', 'W1', 'W2', 'W3'] - Grading based on attendance and activity

Seminar (Evaluation of the work and cooperation in the group) - ['K1', 'K2', 'K3', 'K4', 'U1', 'U2', 'U3', 'W1', 'W2', 'W3'] - Grading based on attendance and activity

Literature:

1. Davidson's Principles & Practice of Medicine, Boone N.A., Colledge N.R – Editors; Churchill Livingstone – Elsevier; 2010; Pages: ; Tome: ; Required literature
2. Differential Diagnosis in Internal Medicine, Siegenthaler W.; Thieme; 2011; Pages: ; Tome: ; Required literature
3. Clinical medicine, Kumar & Clarks; Saunders – Elsevier; 2009; Pages: ; Tome: ; Required literature
4. MD - Goldman's Cecil Medicine, Lee Goldman, MD and Andrew I. Schafer; Saunders; 2012; Pages: ; Tome: ; Complimentary literature



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Detailed description of ECTS credits awarded - part B

Course code: 48SJ-INM68

Cycle: 2025L

ECTS: 1.00

INTERNAL MEDICINE 6/8

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1. Contact hours with the academic teacher:

- participation in: Lecture	13 h
- participation in: Seminar	28 h
- consultation	2 h
Total:	43 h

Independent work of a student:

- Student preparation for classes	4.00 h
Total:	4.00 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS

ECTS Points = 47.00 h : 25 h/ECTS = 1.00 ECTS

Average: 1.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher - 0.91 ECTS pts

- including the number of ECTS credits for hours of independent work of a student - 0.09 ECTS pts