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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYNFaculty of Medicine |
|  | **Course sylabus – part A** |
| **48SJ-INM48** | **INTERNAL MEDICINE 4/8** |
| **ECTS: 3.00**  |  |
| **CYCLE: 2023L** |  |

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| **SUBJECT MATTER CONTENT****LECTURE**Urinary tract infections. Kidneys in pregnancy Renal cysts and malignancies. Renal stone diseases**SEMINAR**1. Acute kidney injury (1.5 hrs) 2. Autosomal dominant polycystic kidney disease (1.5 hrs)**CLASSES**1. Acute kidney injury. Urinary tract infections. 2. Chronic kidney disease. Clinical presentation and complications. 3. Hemodialysis. Dialysis access. Water purification for dialysis. How artificial kidney works – biophysical and technical principles of hemodialysis. 4. Infectious and non-infectious complications of dialysis. 5. Peritoneal dialysis. Dialysis access. Outcome and long-term results. How peritoneal dialysis compares to hemodialysis. Dialysis-related peritonitis and other complications of peritoneal dialysis.**TEACHING OBJECTIVE**Etiology, pathophysiology, epidemiology, diagnosis and treatment of renal diseases (acute kidney injury, secondary glomerulonephritis, autosomal dominant polycystic kidney disease, secondary hypertension, resistant hypertension, tubulointerstitial nephritis, CKD, nephrolithiasis, kidney cysts, kidney tumors**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 RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY**:

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| **Symbols for outcomes related to the discipline:** | M/NM+++ |
| **Symbols for outcomes related to the field of study:**  | M/NM\_E.W1.+, E.U38.+, E.U14.+, E.U30.+, K.2.+, E.U29.+, E.U7.+, M/NM\_E.W40.+, E.U25.+, M/NM\_E.W41.+, K.3.+, E.U3.+, K.5.+, M/NM\_D.W17.+, E.U32.+, E.U1.+, M/NM\_E.W7.+, K.1.+, E.U13.+ |

**LEARNING OUTCOMES:** **Knowledge:**

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| W1 – The student knows and understand environmental and epidemiological conditions of the most frequent diseases |
| W2 – The student knows and understand the causes, symptoms, principles of diagnosing and treating the most frequently encountered internal diseases of adults and their complications: 1) cardiovascular diseases, including ischemic heart disease, heart defects, diseases of the endocardium, myocardium, and pericardium, heart insufficiency (acute and chronic), arterial and venous diseases, hypertension – primary and secondary, pulmonary hypertension, 2) respiratory diseases, including airways diseases, chronic obstructive pulmonary disease, bronchial asthma, bronchiectasis, cystic fibrosis, respiratory tract infections, interstitial respiratory diseases, pleural diseases, mediastinum diseases, obstructive sleep apnoea, respiratory distress (acute and chronic), bronchogenic carcinomas, 3) gastrointestinal diseases, including oral diseases, oesophageal diseases, stomach and duodenal diseases, intestinal diseases, pancreatic diseases, liver diseases, biliary tract and gallbladder diseases, 4) endocrine system diseases, including the hypothalamus and pituitary gland diseases, thyroid and parathyroid diseases, adrenal cortex and medulla diseases, ovary and testicle diseases and neuroendocrine tumours, polyglandular syndromes, diabetes of various types, and the metabolic syndrome – hypoglycaemia, obesity, dyslipidaemia, 5) kidney and urinary tract diseases, including acute and chronic kidney failures, glomerulus and interstitial kidney diseases, renal cysts, kidney stones, urinary tract infections, urinary tract carcinomas, especially of the urinary bladder and kidneys, 6) diseases of the haematopoietic system, including bone marrow aplasia, anaemia, granulocytopaenia and agranulocytosis, thrombocytopaenia, acute leukaemias, myeloproliferative and myeloproliferative-myelodysplastic neoplasms, myelodysplastic syndromes, neoplasms of mature lymphocytes B and T, haemorrhagic diatheses, thrombophilia, immediate life-threatening conditions in haematology, blood disorders in diseases of other organs, 7) rheumatic diseases, including systemic connective tissue diseases, systemic vasculitis, spondyloarthropathies, bone metabolic diseases, especially osteoporosis and osteoarthritis, gout, 8) allergic diseases, including anaphylaxis and anaphylactic shock, and angioedema, water-and-electrolyte and acid-base disorders: dehydrations, excessive water retention, electrolyte management disorders, acidosis and alkalosis |
| W3 – The student knows and understand the patient’s rights |
| W4 – The student knows and understand the theoretical and practical foundations of laboratory diagnostics |
| W5 – The student knows and understand the potential and limitations of laboratory tests in emergencies |

**Skills:**

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| U1 – The student can take medical interview with an adult patient |
| U2 – The student can conduct complete and targeted physical examination of an adult patient |
| U3 – The student can evaluate the overall condition, state of consciousness, and awareness of the patient |
| U4 – The student can assess and describe the patient’s somatic and mental condition |
| U5 – The student can recognise immediately life-threatening conditions |
| U6 – The student can apply nutritional treatment, including enteral and parenteral feeding |
| U7 – The student can perform the basic medical procedures and therapies, including: 1) taking the body temperature (both external and internal), the heart rate, the arterial pressure applying a non-invasive method, 2) monitoring the vital signs with the use of the patient monitor, pulse oximetry, 3) conducting spirometry tests, oxygentherapy, assisted and controlled ventilation, 4) inserting the oropharyngeal tube, 5) performing intravenous, intramuscular, and subcutaneous injections, cannulating peripheral veins, sampling peripheral venous blood, sampling blood for culture, sampling arterial blood, sampling arterialised capillary blood, 6) taking swabs from the nose, throat, and skin, 7) catheterising the urinary bladder in women and men, inserting the gastric tube, performing gastric lavage, enema, 8) taking standard electrocardiogram tests and interpreting them, performing electrical cardioversion and defibrillation, 9) taking simple strip tests and measuring glucose concentration in blood |
| U8 – The student can assist in the following medical procedures and operations: l) transfusing blood and blood product preparations, 2) performing pleural drainage, 3) performing pericardiocentesis, 4) performing paracentesis, 5) performing lumbar puncture, 6) performing thin needle biopsy, 7) performing epicutaneous tests, 8) performing intradermal and scarification tests and interpreting their results |
| U9 – The student can plan specialist consultations |
| U10 – The student can keep the patient’s medical records |

**Social competence:**

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| 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 be guided by the good of the patient |
| K3 – The student is ready to respect medical confidentiality and patient rights |
| K4 – The student is ready to perceive and recognize his own limitations and to self-assess deficits and educational needs |

**TEACHING FORMS AND METHODS:**

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| Lecture(W1;W4;W5;U4;U5;U6;U7;U8;U9;U10;K4;):Lectures on nephrology. Multimedia presentation |
| Seminar(W1;W4;W5;U4;U5;U6;U7;U8;U9;U10;K4;):Detailed aspects of nephrology |
| Classes(W1;W2;W3;W4;W5;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;K1;K2;K3;K4;):Practical classes - Bedside teaching on nephrology |

**FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

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| Lecture (Part in the discussion) - Attendance and participation in lectures - |
| Seminar (Part in the discussion) - Active participation in seminars - |
| Classes (Colloquium test) - Nephrology test - 30 questions, pass threshold - 60% - |

**BASIC LITERATURE:**

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| 1. Siegenthaler W., *Differential Diagnosis in Internal Medicine*, Wyd. Thieme, R. 2011 |
| 2. Kumar Clarks, *Clinical medicine*, Wyd. Kumar Clarks Saunders – Elsevier, R. 2009 |
| 3. Boone N.A., Colledge N.R, *Churchill Livingstone, Davidson’s Principles Practice of Medicine*, Wyd. Elsevier, R. 2010 |

**SUPPLEMENTARY LITERATURE**:

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| 1. Lee Goldman, MD and Andrew I. Schafer, MD, *Goldman's Cecil Medicine*, Wyd. Saunders, R. 2012 |

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| **Legal acts specifying learning outcomes:** **672/2020****Disciplines:** medical sciences**Status of the course:**Obligatoryjny**Group of courses:**B - przedmioty kierunkowe**Code: ISCED** 0912**Field of study:**Medicine**Scope of education:****Profile of education:** General academic**Form of studies:** full-time**Level of studies**: uniform master's studies**Year/semester:** 4/8 |

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| **Types of classes:** Lecture, Seminar, Classes**Number of hours in semester:**Lecture: 6.00, Seminar: 3.00, Classes: 25.00**Language of instruction:**English**Introductory subject:** anatomy,physiology, pathophysiology, internal medicine**Prerequisites:** background of anatomy, physiology and pathophysiology, knowledge of to internal medicine sem. V, VI |

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| **Name of the organisational unit conducting the course:**Katedra Kardiologii i Chorób Wewnętrznych Katedra Chorób Wewnętrznych**Person responsible for the realization of the course:**prof. dr hab. n. med. Tomasz Stompór, dr n. med. Piotr Cygański**e-mail:** tomasz.stompor@uwm.edu.pl |

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| **Additional remarks:**  |

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**Detailed description of ECTS credits awarded - part B**

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| **48SJ-INM48****ECTS: 3.00****CYCLE: 2023L** | **INTERNAL MEDICINE 4/8** |

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

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| - participation in: Lecture | 6.0 h |
| - participation in: Seminar | 3.0 h |
| - participation in: Classes | 25.0 h |
| - consultation | 2.0 |

Total: 36.0 h.

2. Independent work of a student:

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| Student preparation for classes | 39.00 h |

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Total: 39.0 h

contact hours + independent work of a student Total: 75.0 h

1 ECTS credit = 25-30 h of an average student’s work, number of ECTS credit = 75.0 h : 25.0 h/ECTS = 3.00 ECTS on average: 3.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

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