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|  | UNIWERSYTET WARMIŃSKO-MAZURSKI W OLSZTYNIEWydział Lekarski |
|  | **Sylabus przedmiotu – część A** |
| **48SJ-INM48** | **INTERNAL MEDICINE 4/8** |
| **ECTS: 3.00**  |  |
| **CYKL: 2024L** |  |

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| **TREŚCI MERYTORYCZNE****WYKŁAD**Urinary tract infections. Kidneys in pregnancy Renal cysts and malignancies. Renal stone diseases**SEMINARIUM**Acute kidney injury (1.5 hrs) Autosomal dominant polycystic kidney disease (1.5 hrs)**ĆWICZENIA**Acute kidney injury. Urinary tract infections. Chronic kidney disease. Clinical presentation and complications. Hemodialysis. Dialysis access. Water purification for dialysis. How artificial kidney works – biophysical and technical principles of hemodialysis. Infectious and non-infectious complications of dialysis. Peritoneal dialysis. Dialysis access. Outcome and long-term results. How peritoneal dialysis compares to hemodialysis. Dialysis-related peritonitis and other complications of peritoneal dialysis.**CEL KSZTAŁCENIA**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**OPIS EFEKTÓW UCZENIA SIĘ PRZEDMIOTU W ODNIESIENIU DO OPISU CHARAKTERYSTYK DRUGIEGO STOPNIA EFEKTÓW UCZENIA SIĘ DLA KWALIFIKACJI NA POZIOMACH 6-8 POLSKIEJ RAMY KWALIFIKACJI W ODNIESIENIU DO DYSCYPLIN NAUKOWYCH I EFEKTÓW KIERUNKOWYCH**

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| **Symbole efektów dyscyplinowych:**  | M/NMA\_P7S\_WG+++ |
| **Symbole efektów kierunkowych:**  | E.U13.+, E.U3.+, K.5.+, E.U29.+, E.W40.+, E.U32.+, E.W1.+, D.W17.+, K.3.+, E.U30.+, E.W41.+, K.2.+, E.U14.+, E.U25.+, E.U38.+, E.U1.+, E.W7.+, E.U7.+, K.1.+ |

**EFEKTY UCZENIA SIĘ:****Wiedza:**

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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 |

**Umiejętności:**

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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 |

**Kompetencje społeczne:**

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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 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 |

**FORMY I METODY DYDAKTYCZNE:**

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| Wykład(W1;W4;W5;U4;U5;U6;U7;U8;U9;U10;K4;):Lectures on nephrology. Multimedia presentation |
| Seminarium(W1;W4;W5;U4;U5;U6;U7;U8;U9;U10;K4;):Detailed aspects of nephrology, |
| Ćwiczenia(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 |

**FORMA I WARUNKI WERYFIKACJI EFEKTÓW UCZENIA SIĘ:**

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| Wykład (Udział w dyskusji) - Obecność i aktywność na wykładach - |
| Seminarium (Udział w dyskusji) - Part in the discussion - regular class attendance, activity during seminars - W1, W2, W3, W4, W5, U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, K1, K2, K3, K4 |
| Ćwiczenia (Kolokwium pisemne) - Colloquium test - Nephrology test - 30 questions, pass threshold - 60% - W1, W2, W3, W4, W5, U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, K1, K2, K3, K4 |

**LITERATURA PODSTAWOWA:**

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

**LITERATURA UZUPEŁNIAJĄCA:**

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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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| **Akty prawne określające efekty uczenia się:** 311/2023**Dyscypliny:** nauki medyczne**Status przedmiotu**: Obligatoryjny**Grupa przedmiotów:**B - przedmioty kierunkowe**Kod: ISCED** 0912**Kierunek studiów:** Kierunek lekarski**Zakres kształcenia**:**Profil kształcenia:** Praktyczny, Ogólnoakademicki**Forma studiów:** Stacjonarne**Poziom studiów:** Jednolite magisterskie**Rok/semestr:** 4/8 |

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| **Rodzaj zajęć:** Wykład, Seminarium, Ćwiczenia**Liczba godzin w semestrze:** Wykład: 6.00, Seminarium: 3.00, Ćwiczenia: 25.00**Język wykładowy:**angielski**Przedmioty wprowadzające:** physiology, pathophysiology, internal medicine**Wymagania wstępne:**background of anatomy, physiology and pathophysiology, knowledge of to internal medicine sem. V, VI |

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| **Nazwa jednostki org. realizującej przedmiot:** Katedra Kardiologii i Chorób Wewnętrznych Katedra Chorób Wewnętrznych**Osoba odpowiedzialna za realizację** **przedmiotu:** dr n. med. Piotr Cygański, prof. dr hab. n. med. Tomasz Stompór**e-mail:** piotr.cyganski@uwm.edu.pl tomasz.stompor@uwm.edu.pl |

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| **Uwagi dodatkowe:**  |

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**Szczegółowy opis przyznanej punktacji ECTS – część B**

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| **48SJ-INM48****ECTS: 3.00****CYKL: 2024L** | **INTERNAL MEDICINE 4/8** |

Na przyznaną liczbę punktów ECTS składają się:

1. Godziny kontaktowe z nauczycielem akademickim:

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| - udział w: Wykład | 6.0 h |
| - udział w: Seminarium | 3.0 h |
| - udział w: Ćwiczenia | 25.0 h |
| - konsultacje | 2.0 h |

OGÓŁEM: 36.0 h

2. Samodzielna praca studenta:

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| Przygotowanie się studenta do zajęć | 39.00 h |

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OGÓŁEM: 39.0 h

godziny kontaktowe + samodzielna praca studenta OGÓŁEM: 75.0 h

1 punkt ECTS = 25-30 h pracy przeciętnego studenta,

liczba punktów ECTS= 75.0 h : 25.0 h/ECTS = 3.00 ECTS

Średnio: **3.0 ECTS**

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| - w tym liczba punktów ECTS za godziny kontaktowe z bezpośrednim udziałem nauczyciela akademickiego | 1.44 punktów ECTS |
| - w tym liczba punktów ECTS za godziny realizowane w formie samodzielnej pracy studenta | 1.56 punktów ECTS |