



48SJ-INM38
2025Z
ECTS: 3.00

Course syllabus – part A INTERNAL MEDICINE 3/8

SUBJECT MATTER CONTENT:

Lecture

Nephrotic syndrome. Primary glomerular disease. Primary hypertension. Secondary hypertension: renal parenchymal hypertension and renovascular hypertension.

Seminar

Chronic kidney disease – part I (definition, diagnosis, monitoring, epidemiology, etiology, clinical appearance. Chronic kidney disease – part II (organ and system damage in chronic uremia; treatment of CKD).

Classes

Assessment of renal function (glomerular filtration rate [GFR], clearances, estimated GFR) and indices of renal injury. Kidney imaging in renal pathologies, the rules of nephroprotection prior to imaging. Contrast-associated nephropathy: risk factors, symptoms, treatment. Patient with chronic glomerular disease. Patient with nephrotic syndrome and sub-nephrotic proteinuria. Patient with hematuria and microhematuria. Indications to kidney biopsy. Primary and secondary glomerular diseases. Tubulo – interstitial nephropathies (TIN). Iatrogenic diseases of the kidney. Classification of TIN. Endogenous and exogenous nephrotoxic substances. Drug-related kidney injury. Analgesic nephropathy. Chemotherapy-induced kidney injury. Electrolyte disorders. Patient with complicated and treatment-resistant hypertension. Diagnosis of target organ damage in arterial hypertension. 'Special' conditions in hypertension: hypertension in pregnancy, hypertensive crisis and 'malignant' hypertension, perioperative period.

TEACHING OBJECTIVE:

Etiology, pathophysiology, epidemiology, diagnosis and treatment of renal diseases (nephrotic syndrome, CKD, acute kidney injury, primary and secondary glomerulonephritis).

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:

Symbols for outcomes related to the discipline:

M/NM+++++

Symbols for outcomes related to the field of study:

Legal acts specifying learning outcomes:

672/2020 (Medicine),

Status of the course: None

Group of courses: None

Discipline: Medical Sciences

Classes:

Lecture (4 h)

Seminar (3 h)

Classes (25 h)

Step: Kierunek lekarski czwarty rok semestr siódmy (oferta w jęz. angielskim dla obcokrajowców)

Program: Medicine

Form of studies: full-time

Level of studies: uniform master's studies

Introductory subject: physiology, pathophysiology, internal medicine

Prerequisites: background of anatomy, physiology and pathophysiology, knowledge of internal medicine (history taking and physical examination)

Coordinators:

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K.1.+, K.2.+, K.3.+, K.5.+, E.U1.+, E.U3.+, E.U13.+, E.U14.+, E.U16.+, E.U24.+, E.U29.+, E.U30.+, E.U32.+, M/NM_E.W1.+, M/NM_E.W7.+, M/NM_E.W40.+, M/NM_E.W41.+, M/NM_E.W42.+

LEARNING OUTCOMES (Knowledge, Skills, Social competence):

<u>W1</u>	The student knows and understands the environmental and epidemiological basis of renal diseases
<u>W2</u>	The student knows and understands etiology, signs, symptoms, principles of diagnosis and therapy in renal diseases and their complications
<u>W3</u>	The student knows the theoretical and practical basis of laboratory diagnostics in the most common renal diseases
<u>W4</u>	The student knows and understands the possibilities and limitations of laboratory tests in emergencies
<u>W5</u>	The student identifies indications for monitored therapy in renal diseases.
<u>U1</u>	The student takes medical history in an adult patient
<u>U2</u>	The student performs a complete and targeted physical examination of an adult patient
<u>U3</u>	The student assesses and describes somatic and psychological status of the patient
<u>U4</u>	The student diagnoses life-threatening conditions
<u>U5</u>	The student plans diagnostic, therapeutic and prophylactic activities
<u>U6</u>	The patient interprets laboratory test results, explains abnormal results in renal diseases
<u>U7</u>	The student perform basic medical procedures and treatments, including: body temperature measurement, heart rate measurement, non-invasive blood pressure measurement, monitoring of vital signs with a cardiomonitor, pulse oximetry, spirometric test, oxygen treatment, assisted and replacement ventilation, oropharyngeal tube insertion, intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, peripheral venous blood collection, blood culture collection, arterial blood collection, arterialized capillary blood collection, nasal, throat and skin swab collection, puncture of the pleural cavity, bladder catheterization in women and men, gastric dipping, gastric lavage, enema, standard resting electrocardiogram with interpretation, electrical cardioversion, cardiac defibrillation, simple test strips and blood glucose measurement
<u>U8</u>	The student assists in the following medical procedures and procedures: transfusion of blood and blood products, drainage of the pleural cavity, puncture of the pericardial sac, puncture of the peritoneal cavity, lumbar puncture, fine needle biopsy, epidermal tests, intradermal and scarification tests and interpret their results
<u>U9</u>	The student properly plans consultations with specialists
<u>K1</u>	The student is ready to establish and maintain a deep and respectful contact with the patient, as well as to show understanding for worldview and cultural differences
<u>K2</u>	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 aware of own limitations and the is able to continually improve education

TEACHING FORMS AND METHODS:

Lecture-['W1', 'W2', 'W3', 'U3', 'W4', 'U4', 'K4', 'W5', 'U5', 'U6']-Presentation

lectures on nephrology

Seminar-['W1', 'U1', 'W2', 'W3', 'U3', 'W4', 'U4', 'K4', 'W5', 'U5', 'U6', 'U9']-

Detailed aspects of nephrology

Classes-['W1', 'U1', 'K1', 'K2', 'W2', 'U2', 'W3', 'U3', 'K3', 'W4', 'U4', 'K4', 'W5',

'U5', 'U6', 'U7', 'U8', 'U9']-Practical classes - Bedside teaching on nephrology,

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Seminar-(Evaluation of the work and cooperation in the group)-['W1', 'U1', 'K1',

'K2', 'W2', 'U2', 'W3', 'U3', 'K3', 'W4', 'U4', 'K4', 'W5', 'U5', 'U6', 'U7', 'U8', 'U9']-

credit based on presence and activity

Classes-(Colloquium test)-['W1', 'U1', 'K1', 'K2', 'W2', 'U2', 'W3', 'U3', 'K3', 'W4',

'U4', 'K4', 'W5', 'U5', 'U6', 'U7', 'U8', 'U9']-Colloquium test - Nephrology test, 30

questions.

Lecture-(Part in the discussion)-['W1', 'U1', 'K1', 'K2', 'W2', 'U2', 'W3', 'U3', 'K3',

'W4', 'U4', 'K4', 'W5', 'U5', 'U6', 'U7', 'U8', 'U9']-credit based on presence and

activity

Literature:

1. **Clinical medicine**, Kumar Clarks Saunders, Elsevier, 2009, Strony: , Tom: (literatura podstawowa)

2. **Differential Diagnosis in Internal Medicine**, Siegenthaler W, Thieme, 2011, Strony: , Tom: (literatura podstawowa)

3. **Davidson's Principles Practice of Medicine.**, Boone N.A., Colledge N.R, Churchill Livingstone – Elsevier, 2010, Strony: , Tom: (literatura podstawowa)

4. **Goldman's Cecil Medicine**, 4. Lee Goldman, MD and Andrew I. Schafer, MD, Saunders, 2012, Strony: , Tom: (literatura uzupełniająca)



Detailed description of ECTS credits awarded - part B
INTERNAL MEDICINE 3/8

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ECTS: 3.00

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	4 h
- participation in: Seminar	3 h
- participation in: Classes	25 h
- consultation	2 h
Total:	34 h

2. Independent work of a student:

Preparing for classes	6.00 h
Total:	6.00 h

Total (contact hours + independent work of a student): 40.00 h

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

ECTS Points = 40.00 h : 25 h/ECTS = **3.00** ECTS

Average: 3.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher	2.55 ECTS
- including the number of ECTS credits for hours of independent work of a student	0.45 ECTS