



48SJ-PATH12
ECTS: 6.00
CYCLE: 2023L

Course syllabus - part A Pathology 1/2

SUBJECT MATTER CONTENT

LECTURE

LECTURES: 1. Introduction to pathomorphology, cell injury, cell death and adaptations. 2. Hemodynamic disorders. 3. Inflammation. 4. Neoplasms. 5. Diseases of lung and pleura. 6. Pediatric diseases. 7. Heart diseases. 8. Blood vessels pathology. 9. Head and Neck pathology. 10. Gastrointestinal tract pathology.

SEMINAR

At each seminar, two people prepare 30-45 minute presentations- topics below. Please create the list of the students with assigned topics. Please be prepared for all the seminars and classes. SEMINARS: SEMINAR 1. CELLULAR ADAPTATIONS. HEMODYNAMIC DISORDERS. 1. Amyloidosis - general characteristics, classification, examples 2. Shock - types, pathomechanisms, symptoms SEMINAR 2. INFLAMMATION. INFECTIOUS DISEASES. 1. Granulomatous inflammations - definition, pathomechanisms, examples 2. HIV infection and AIDS, COVID-19, influenza SEMINAR 3. DISEASES OF THE IMMUNE SYSTEM. 1. Hypersensitivity reactions - general characteristics, classification, examples 2. Primary and secondary immune deficiencies - general characteristics, examples SEMINAR 4. ENVIRONMENTAL AND NUTRITIONAL DISEASES. 1. Protein, energy and vitamin deficiencies. 2. Obesity as a disease of affluence. SEMINAR 5. NEOPLASMS. 1. Avoidance of the immune system and role of inflammatory reactions in carcinogenesis. Basics of immunotherapy in cancer treatment- definition, examples. 2. Hallmarks of cancer. SEMINAR 6. DISEASES OF LUNG AND PLEURA. 1. Pleural and mediastinal neoplasms - mesothelioma, solitary fibrous tumor, adenomatoid tumor, neurofibroma. 2. Interstitial lung diseases - classification, clinical symptoms, morphological picture. SEMINAR 7. PEDIATRIC DISEASES. 1. Monogenic disorders. 2. Genetic disorders dependent on chromosomal aberrations. SEMINAR 8. DISEASES OF HEART AND VESSELS. 1. Inflammation of small vessels/cryoglobulinemia, Henoch-Schonlein purpura, Goodpasture's syndrome (anti-GBM disease)/. 2. Superior vena cava syndrome, lymphedema and primary cardiac neoplasms (cardiac myxoma, papillary fibroelastoma, rhabdomyoma, angiosarcoma). SEMINAR 9. PATHOLOGY OF SALIVARY GLANDS. 1. Malignant neoplasms of salivary glands of epithelial origin - classification, epidemiology, morphological picture. 2. Sialolithiasis, Sjogren's syndrome, acute and chronic sialadenitis - pathogenesis, clinical symptoms, morphological picture. SEMINAR 10. PATHOLOGY OF THE GASTROINTESTINAL TRACT. 1. Celiac disease and intestinal lymphomas- pathogenesis, clinical symptoms, morphological picture. 2. Microscopic enteritis (collagen and lymphocytic enteritis), eosinophilic esophagitis, eosinophilic gastroenterocolitis - pathogenesis, clinical symptoms, morphological picture.

CLASSES

1. Introduction to pathomorphology. 2. Cell injury, cell death and adaptations. Amyloidosis. 3. Hemodynamic disorders. 4. Inflammation. 5. Neoplasms. 6. Diseases of lung and pleura. 7. Pediatric diseases. 8.

Legal acts specifying learning outcomes: 672/2020, 311/2023
Disciplines: medical sciences
Status of the course: Obligatoryjny
Group of courses: A - przedmioty podstawowe
Code: ISCED 0912
Field of study: Medicine, Medicine
Scope of education:
Profile of education: General academic
Form of studies: full-time
Level of studies: uniform master's studies
Year/semester: 2/4

Types of classes: Lecture, Seminar, Classes
Number of hours in semester: Lecture: 20.00, Seminar: 20.00, Classes: 40.00
Language of instruction: English
Introductory subject: Anatomy 2/2, Histology with Cytophysiology and Embryology 2/2, Biochemistry with Elements of Chemistry 2/2, Molecular Biology and Genetics, Microbiology, Physiology 1/2
Prerequisites: Anatomy 2/2, Histology with Cytophysiology and Embryology 2/2, Biochemistry with Elements of Chemistry 2/2, Molecular Biology and Genetics, Microbiology, Physiology 1/2

Name of the organisational unit conducting the course: Katedra Patomorfologii i Medycyny Sądowej
Person responsible for the realization of the course: dr hab. n. med. Konrad Ptaszyński, prof. UWM, dr n. med. Aleksandra Sejda
e-mail: konrad.ptaszynski@uwm.edu.pl
BRAK

Additional remarks: .

Diseases of blood vessels and heart. 9. Head and neck pathology (oral cavity, larynx, pharynx, salivary glands). 10. Gastrointestinal tract pathology (esophagus, stomach, small and large intestines). FINAL CREDIT FINAL RETAKE CREDIT (CONDITIONAL)

TEACHING OBJECTIVE

General Pathology and Systemic Pathology: study and understanding of the basis of the disorders treated in hospitals and outpatients clinics. Interpretation of cytologic and histopathologic examinations records. Mastering of attitudes and behaviours in accordance with medical ethics.

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/NMA_P7S_KO+, M/NM+++ , M/NMA_P7S_KR+, M/NMA_P7S_WG+++

Symbols for outcomes related to the field of study:

C.W30.+ , K.4.++ , C.W26.++ , K.9.++ , C.W28.+ , K.2.++ , K.7.++ , C.W30+ , K.5.++ , C.W.31.+ , C.W29.++ , C.U12.++ , C.W31.+ , K.3.++ , C.W27.++ , C.U11.++

LEARNING OUTCOMES:

Knowledge:

W1 - C.W.27. Basic mechanisms of cell and tissue injury

W2 - C.W.28 Clinical course of specific and non-specific inflammation and regeneration processes of tissues and organs.

W3 - C.W.26. Patomorphological nomenclature.

W4 - C.W.29. Definition and pathophysiology of shock, with particular emphasis on the differentiation of causes of shock and multiorgan failure.

W5 - C.W.30. Etiology of hemodynamic disorders, regressive and progressive changes.

W6 - C.W.31. Issues in the field of systemic surgical pathology, macro- and microscopic images and the clinical course of pathomorphological changes in particular organs

Skills:

U1 - C.U.11. Relate the images of tissue and organ damage with clinical manifestations of the disease, medical history and laboratory test results

U2 - C.U.12. Analyze reactive, defensive and adaptive changes and regulation disorders caused by an etiological factor

Social competence:

K1 - K.2. Guiding the patient's well-being

K2 - K.3. Compliance with medical confidentiality and patient's rights

K3 - K.4. Behaving with dignity and respect in the presence of human bodies and remains

K5 - K.7. Use of objective sources of information

K6 - K.9. Implementation of the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment.

K7 - K.5. perceiving and recognizing one's own limitations and self-assessing deficits and educational needs

TEACHING FORMS AND METHODS:

Lecture(W1;W2;W3;W4;W5;W6;U1;U2;K1;K2;K3;K5;K6;K7;):Explanation of the topic to the students. Active discussion.

Seminar(W1;W2;W3;W4;W5;W6;U1;U2;K1;K2;K3;K5;K6;K7;):Oral presentation of the topic by the student. Active discussion.

Classes(W1;W2;W3;W4;W5;W6;U1;U2;K1;K2;K3;K5;K6;K7;):Teaching methods: practical exercises with case studies, demonstration of microscopic slides, interpretation of microscopic images with correlation to clinical data, autopsies

FORM AND CONDITIONS OF VERIFYING LEARNING

OUTCOMES:

Lecture (Evaluation of the work and cooperation in the group) - Participation in discussion. Student gets a passing grade based upon presence and active participation in lectures. All topics and materials given during the lecture will be included in the Final Examination. Evaluation of the work and cooperation in the group - a. Student gets a passing grade based upon presence and active participation in lectures. b. All topics and materials given during the lecture will be included in the final colloquiums and exam. -

Seminar (Part in the discussion) - Part in the discussion - a. The seminars are conducted in the form of multimedia presentations prepared by and presented by students. b. Topics of seminars are given in a form of a schedule on a website of the Department of Pathomorphology and Forensic Medicine and posted on an information board at the department. c. At each seminar, four people prepare 30-45 minute presentations. d. The student gets credit for the seminars on the basis of the assessment of the presented topic, substantive activity and cooperation during classes. A student who does not demonstrate knowledge in the given seminar may fail the seminar, which results in the necessity to pass them on the terms described in point 4 of the regulations. -

Classes (Colloquium test) - In case of obtaining final failing grade (2) in IV-th and/or V-th semester, Student has a right to take Final Retake Colloquium (after IV-th and/or V-th semester accordingly). Final Retake Colloquium is held in the written form (30 multiple-choice questions) for all of the Students with failing grade, in the same time and date, before the beginning of the examination session. To obtain a passing grade (satisfactory - 3) Student has to give at least 60% of answers correct - at least 18 points. There is no retake for the Final Retake Colloquium. In case of failing Final Retake Colloquium Student fails classes, and as a result Student is not allowed to attend another semester nor take the Final Examination, gets a fail grade (2) and has to retake IV-th or V-th semester respectively. Theoretical knowledge may be checked orally during each practical class. Required knowledge includes subject of present practical class and all previous practical classes. Passing of each class is evaluated upon active participation during current practical class. In case of lack of answers for the questions asked by the teacher student may fail to pass a practical class, and will be obliged to retake this class. -

BASIC LITERATURE:

1. Vinay Kumar, Abul K. Abbas, Jon C. Aster, *Robbins Basic Pathology*, Tom tenth edit, Wyd. Elsevier, R. 2017

SUPPLEMENTARY LITERATURE:

1. Brierley J, Gospodarowicz M, Wittekind Ch, *8th Edition of the UICC TNM classification of Malignant Tumors*, Wyd. Wiley, R. 2017

Detailed description of ECTS credits awarded - part B

48SJ-PATH12
ECTS: 6.00
CYCLE: 2023L

Pathology 1/2

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	20.0 h
- participation in: Seminar	20.0 h
- participation in: Classes	40.0 h
- consultation	2.0
	Total: 82.0 h.

2. Independent work of a student:

Samodzielna praca studenta	68.00 h
----------------------------	---------

Total: 68.0 h

contact hours + independent work of a student Total: 150.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 150.0 h : 25.0 h/ECTS = 6.00 ECTS on average: 6.0 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: