



48SJ-PATH22
ECTS: 4.20
CYCLE: 2022Z

Course syllabus - part A Pathology 2/2

SUBJECT MATTER CONTENT

LECTURE

LECTURES (online MS Teams): 1. Pathology of the pancreas, liver, gallbladder and biliary tract. (07.11.2022) 2. Pathology of the endocrine system. (14.11.2022) 3. Pathology of the female genital system. (21.11.2022) 4. Pathology of the breast. (28.11.2022) 5. Pathology of the male genital system and prostate gland. (05.12.2022) 6. Pathology of the urinary tract and kidney. (12.12.2022) 7. Pathology of the skin. (19.12.2022) 8. Pathology of the soft tissue, bones and joints. (02.01.2023) 9. Pathology of the nervous system. (09.01.2023) 10. Hemathopathology. (16.01.2023)

SEMINAR

SEMINARS (Online- MS Teams): At each seminar, two students prepare 30-45 minute presentations on the topics listed below. The seminar groups are asked to divide the topics among themselves. In 20-person seminar groups, there are 2 topics for each person. We start our presentations with the first seminar classes, i.e. from October 3rd, 2022 (Monday). Sem. 1: Pathology of the pancreas, liver, biliary tree and gallbladder (03-04.10.2022). Topic 1. Autoimmune pancreatitis- classification, clinical and histopathological picture. Cholecystolithiasis. Topic 2. Viral hepatitis, autoimmune cholangiopathies (primary cholangitis, primary sclerosing cholangitis) - pathogenesis, clinical and histopathological picture. Sem. 2: Pathology of the endocrine system (10-11.10.2022). Topic 1. Posterior pituitary syndromes and pituitary insufficiency - pathogenesis, classification, clinical picture. Topic 2. Diseases of the endocrine pancreas - diabetes. Neuroendocrine neoplasms of pancreas. Sem. 3: Human Papilloma Virus-related neoplasms (head and neck, genital system) (17-18.10.2022). Topic 1. Molecular mechanisms of HPV-induced carcinogenesis Topic 2. HPV vaccines Sem. 4: Diseases of pregnancy (24-25.10.2022). Topic 1. Gestational trophoblastic disease- classification, clinical and histopathological picture Topic 2. Arterial hypertension and diabetes in pregnancy, eclampsia and pre-eclampsia. Sem. 5: Pathology of the prostate gland and infectious diseases of genital system (07-08.11.2022). Topic 1. Prostatitis and benign prostate hyperplasia - pathogenesis, clinical and histopathological picture. Topic 2. Sexually transmitted diseases - syphilis, gonorrhoea, herpes, venereal granuloma, inguinal granuloma, soft chancre. Sem. 6: Pathology of the urinary tract, urinary bladder and kidneys (14-15.11.2022). Topic 1. Pathogenesis, classification, types, clinical picture and histopathological features of glomerulonephritis. Topic 2. Cystitis and nephrolithiasis - classification, clinical and histopathological picture. Sem. 7: Dermatoses (21-22.11.2022). Topic 1. Blistering skin diseases - classification, pathogenesis, clinical and histopathological picture. Topic 2. Behcet's disease, granuloma annulare, psoriasis, lichen planus - pathogenesis, clinical and histopathological picture. Sem. 8: Pathology of the soft tissue, bones and joints. Pathology of the muscles and peripheral nervous system (28-29.11.2022). Topic 1. Osteoporosis, rheumatoid arthritis, systemic lupus erythematosus - pathogenesis, clinical and histopathological picture. Topic 2. Skeletal muscle disorders - muscular dystrophies, congenital and

Legal acts specifying learning outcomes:
672/2020

Disciplines: medical sciences

Status of the

course: Obligatory

Group of courses: A -

przedmioty podstawowe

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: 3/5

Types of classes: Lecture,
Seminar, Classes

Number of hours in semester: Lecture: 20.00,
Seminar: 20.00, Classes:
60.00

Language of instruction: English

Introductory subject:

Prerequisites: Anatomy 2/2,
Histology with Cytophysiology
and Embryology 2/2,
Biochemistry with Elements of
Chemistry 2/2, Molecular
Biology and Genetics,
Microbiology, Physiology 2/2,
Pathology 1/2

Name of the organisational unit conducting the

course: Katedra
Patomorfologii i Medycyny
Sądowej

Person responsible for the realization of the course: dr
n. med. Aleksandra Sejda, dr
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Additional remarks:

acquired myopathies - pathogenesis, classification, clinical features. Sem. 9: Pathology of nervous system (05-06.12.2022). Topic 1. Tauopathies - pathogenesis, classification, clinical and neuropathological features. Topic 2. Synucleinopathies - pathogenesis, classification, clinical and neuropathological features. Sem. 10: Hematopathology (12-13.12.2022). Topic 1. Anemias - classification, pathogenesis, clinical picture. Topic 2. Benign and malignant neoplasms of the thymus - classification, clinical and histopathological picture.

CLASSES

Department of Pathomorphology and Forensic Medicine- groups 1, 3 and 4; Żołnierska 14c room 9F- groups 2 and 5

1. Pathology of the pancreas, liver. 03-07.10.2022
2. Pathology of the endocrine system. 10-12.10.2022, 20-21.10.2022
3. Pathology of the female genital system. 17-19.10.2022, 27-28.10.2022
4. Pathology of the breast. 24-26.10.2022, 03-04.11.2022

Colloquium I /classes 1-4; lectures 1-4; seminars 1-4/ 09.11.2022, 7:00 am

5. Pathology of the male genital system. 07-10.11.2022
6. Pathology of the urinary tract and Kidney. 14-18.11.2022
7. Pathology of the skin. 21-25.11.2022
8. Pathology of the soft tissue. 28.11-02.12.2022

Colloquium II /classes 5-8; lectures 5-8 (soft tissue); seminars 5-8 (soft tissue)/ 07.12.2022, 7:00 am

9. Pathology of bones and joints. 05-09.12.2022
10. Pathology of central nervous system. 12-16.12.2022
11. Hematopathology- bonemarrow. 19-23.12.2022
12. Hematopathology- lymphnodes. 09-13.01.2023

Colloquium III /classes 09-12; lectures 8-10 (bones, joints, nervous system); seminars 8-10 (bones, joints, nervous system)/ 18.01.2023, 7:00 am

13. General Pathology- repetition. 16-20.01.2023

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/NM+++

Symbols for outcomes related to the field of study:

C.W29.+ , C.W.32.+ , C.W.33.+ , C.W28.+ ,
C.W26.+ , C.W.31.+ , K.9.+ , C.U11.+ , K.2.+ ,
C.W27.+ , K.3.+ , K.7.+ , K.4.+ , C.U12.+ , C.W30+

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.29. Definition and pathophysiology of shock, with particular emphasis on the differentiation of causes of shock and multiorgan failure.
- W4 - C.W.30. Etiology of hemodynamic disorders, regressive and progressive changes.
- W5 - 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

W6 - C.W.32. Consequences of developing pathological changes for topographically adjacent organs.

W7 - C.W.26. Patomorphological nomenclature.

W8 - C.W.33. External and internal pathogens, modifiable and non-modifiable

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

K4 - K.5. perceiving and recognizing one's own limitations and self-assessing deficits and educational needs

K5 - K.7.

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.

TEACHING FORMS AND METHODS:

Lecture(W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K2;K4;K5;K6;):Explanation of the topic to the students and active discussion.

Seminar(W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;):Oral presentation of the topic by the student and active discussion.

Classes(W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;):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:

Seminar: Evaluation of the work and cooperation in the group - Passing of each seminar is evaluated upon active participation during current seminar and oral presentation of subject given by the teacher. In case of lack of answers for the questions asked by the teacher student may fail to pass a seminar, and will be obliged to retake it. (W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;);

Lecture: Written exam - To take the Examination Student must pass all practical classes, seminars and lectures, and receive a final passing grade from both, IV-th and V-th semester. The Examination is held after finishing whole educational cycle, and has a form of a multiple-choice-questions test. The Examination consists of theoretical part (95 questions) and practical part (5 questions), which are MCQ questions related to macroscopic and microscopic pictures presented on slides. Material and knowledge required for the Examination includes all seminars, practical classes and lectures. Scale of grades: 0-59% - fail (2) 60-68% - satisfactory (3) 69-76% - satisfactory plus (3,5) 77-84% - good (4) 85-92% - good plus (4,5) 93-100% - very good (5). (W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;);

Lecture: Part in the discussion - Participation in discussion (W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;);

Classes: Colloquium test - During each semester, according to given schedule, three colloquiums will be held in the form of written multiple-choice-question test (20 questions). Material and knowledge included in particular colloquium will be described in the schedule on a website of the Department of Pathomorphology and hanged on an information

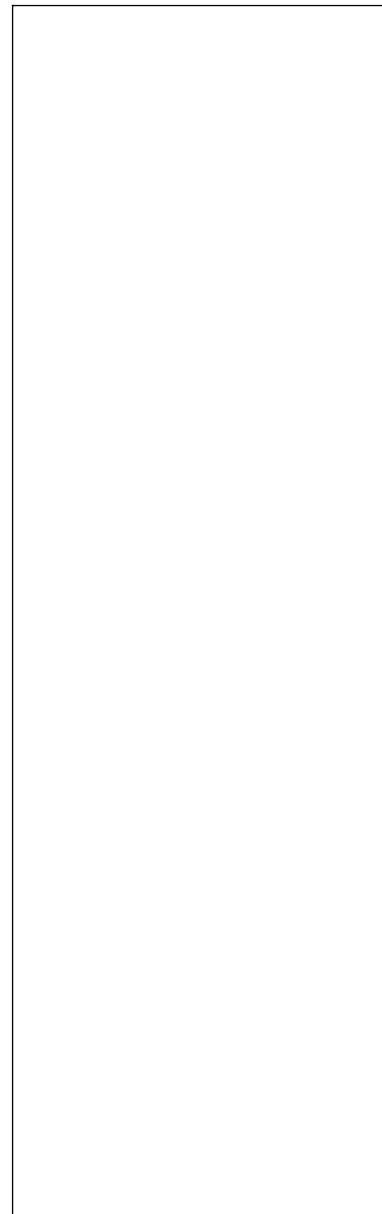
board at the department. For the each colloquium Student may get between 0 and 20 points and will be the underlay for the final grade from V-th semester. There is no possibility of retaking the colloquium. During a semester Student may get between 0 and 60 points summarized for all of the colloquiums. All summarized points are the underlay for the final grade from semester IV and V, according to the following scale of grades: 0-36- fail (2) 36,5-41 - satisfactory (3) 41,5-46 - satisfactory plus (3,5) 46,5-51 - good (4) 51,5- 56,5- good plus (4,5) ≥ 57 punktów - very good (5). (W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;);

Classes: Colloquium practical - 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. (W1;W2;W3;W4;W5;W6;W7;W8;U1;U2;K1;K2;K3;K4;K5;K6;);

BASIC LITERATURE:

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

SUPPLEMENTARY LITERATURE:



Detailed description of ECTS credits awarded - part B

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Pathology 2/2

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	60.0 h
- consultation	5.0
	Total: 105.0 h.

2. Independent work of a student:

Total: 0 h

contact hours + independent work of a student Total: 105.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 105.0 h : 25.0 h/ECTS = 4.20 ECTS on average: 9.0 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: