



· Patomorphology

1. IMPRINT	
Academic Year	2022/2023
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical sciences
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform Msc
Form of studies	Stationary
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Exam
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Pathology, Medical University of Warsaw Pawińskiego St. 7, 02-106 Warsaw Phone (022) 599-16-70 patomorfologia@wum.edu.pl

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Course coordinator (title, First Name, Last Name, contact)	Barbara Górnicka, MD, PhD; bgornicka@wum.edu.pl
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2. BASIC INFORMATION			
Year and semester of studies	III year, V semester	Number of ECTS credits	3
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		15 (15 in form of e-learning)	0,5
Seminar (S)		22	0,7
Discussions (D)		-	
e-learning (e-L)		-	
Practical classes (PC)		15	0,5
Work placement (WP)		-	
Unassisted student's work			
Preparation for classes and completions		39	1,3

3. COURSE OBJECTIVES	
O1	Provide basic knowledge that will allow students to understand the process of disease and to help them develop ability to properly diagnose and treat patients, which is essential for clinical practice and further post-graduate training.
O2	Provide with basic knowledge about the mechanisms of the origin and development of disease and its manifestations in the form of physiological and morphological changes

O3	Integrate the knowledge of pathomorphology with knowledge and skills from other basic and clinical specialities, especially in terms of their manifestation in oral cavity.
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4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

<p>Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</p>	<p>Effects in time</p>
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Knowledge – Graduate* knows and understands:

C.W13.	the concept of health and disease, mechanisms of the formation and development of the disease process at the molecular, cellular, tissue and systemic levels, clinical symptoms of the disease, prognosis and complications of the disease
C.W14.	mechanisms of inflammation and wound healing
C.W16.	diagnostic methods used in pathomorphology and the role of laboratory tests in the prevention and diagnosis of organ and systemic disorders
C.W17.	signs of death and post-mortem changes as well as principles of technique and autopsy
E.W1.	the relation between morphological abnormalities, function of affected organs and systems, clinical signs, and diagnostic and therapeutic options.
E.W15.	cytological diagnostic methods and cytodiagnostic criteria for diagnosing neoplastic and non-neoplastic diseases.

Skills– Graduate* is able to:

C.U6.	identify pathological changes in cells, tissues and organs in terms of circulatory disorders, retrograde changes, progressive changes and inflammations
C.U7.	determine pathological changes caused by HIV infection and observed in patients with acquired immunodeficiency syndrome (AIDS)
C.U14.	determine pathological changes of cells, tissues and organs according to basic mechanisms
F.U5.	collect and preserve material for diagnostic tests, including cytological tests
F.U6.	interpret the results of additional tests and consultations
G.U28.	assess postmortem changes

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)

Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	-
Skills– Graduate is able to:	
C1	-
Social Competencies – Graduate is ready for:	
SC1	-

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	L1 - Lecture 1 - Introduction to pathology General information, introduction to course, basic techniques in pathology.	C.W13., C.W16.
	L2 - Lecture 2 - Hemodynamic disorders Pathology of edema, shock, thrombosis and embolism.	C.W13., E.W1.
	L3 - Lecture 3 – Cardiovascular diseases Definition of infarction. Selected cardiovascular disease: hypertension, atherosclerosis.	C.W13., C.W14., C.W16.
	L4 - Lecture 4 – Adaptation Definition of adaptive changes: hyperplasia, hyperthrophy, atrophy, metaplasia.	C.U6., C.U14.
	L5 - Lecture 5 – Inflammation General information on basic types of inflammation.	C.W14., E.W1., C.U6., C.U14
	L6 - Lecture 6 – Pathology of contagious diseases Description of morphological aspects of different types of contagious diseases, including AIDS.	C.W13., C.W14., E.W1., C.U6., C.U7.
	L7 - Lecture 7 – Pediatric pathology Selected topic form pediatric pathology.	C.W16., E.W1., E.W15., F.U6.
	L8 - Lecture 8 – Neoplasia General information on the process of carcinogenesis.	E.W1., C.W13., C.W14., C.W16.
Seminars	S1 - Seminar 1 – Epithelial neoplasms Morphology of selected benign and malignant epithelial neoplasms.	C.W13., E.W1., C.U6., C.U14.
	S2 - Seminar 2 – Nonepithelial neoplasms, dermatopathology Morphology of selected nonepithelial neoplasms, dermatopathology.	C.W13., C.W16., E.W1., C.U6., C.U14., F.U6.
	S3 - Seminar 3 – Head and neck pathology Morphology of selected neoplastic and non-neoplastic diseases in head and neck.	C.W13., C.W16., E.W1., C.U6., C.U14., F.U6.

	S4 - Seminar 4 – Gastrointestinal pathology Morphology of selected neoplastic and non-neoplastic diseases in gastrointestinal tract.	C.W13., C.W14., C.W16., E.W1., C.U6., C.U14., F.U6.
	S5 - Seminar 5 – MCQ test 1 Covers topics from seminars 1-4.	C.W13., C.W14., C.W16., E.W1., E.W15., C.U6., C.U7., C.U14., F.U6.
	S6 - Seminar 6 – Respiratory tract pathology Morphology of selected neoplastic and non-neoplastic diseases of respiratory system.	C.W13., C.W14., C.W16., E.W1., C.U14., F.U6.
	S7 - Seminar 7 – Endocrine system pathology Morphology of selected neoplastic and non-neoplastic diseases of endocrine system.	C.W13., C.W14., C.W16., E.W1., E.W15., C.U14., F.U5., F.U6.
	S8 - Seminar 8 – Genitourinary system pathology Morphology of selected neoplastic and non-neoplastic diseases of male reproductive system and urinary tract.	C.W13., C.W14., C.W16., E.W1., C.U14., F.U6.
	S9 - Seminar 9 – Female reproductive system and breast pathology Morphology of selected neoplastic and non-neoplastic diseases in of female reproductive system and breast.	C.W13., C.W14., C.W16., E.W1., E.W15., C.U14., F.U6.
	S10 - Seminar 10 - MCQ test 1 Covers topics from seminars 6-9.	C.W13., C.W14., C.W16., E.W1., E.W15., C.U6., C.U14., F.U5., F.U6.
Practical Classes	PC 1 - Classes in autopsy room, including autopsy cases, gross pathology examination and sampling of surgical specimens – part I.	C.W17., C.U6., F.U5., C.U14., G.U28.
	PC2 - Classes in autopsy room, including autopsy cases, gross pathology examination and sampling of surgical specimens – part II.	C.W17., C.U6., F.U5., C.U14., G.U28.
	PC3 - Classes in autopsy room, including autopsy cases, gross pathology examination and sampling of surgical specimens – part III.	C.W17., C.U6., F.U5., C.U14., G.U28.
	PC4 - Classes in autopsy room, including autopsy cases, gross pathology examination and sampling of surgical specimens – part IV	C.W17., C.U6., F.U5., C.U14., G.U28.
	PC5 - Classes in autopsy room, including autopsy cases, gross pathology examination and sampling of surgical specimen – part V.	C.W17., C.U6., F.U5., C.U14., G.U28.

7. LITERATURE

Obligatory

1. Robbins Basic Pathology, 10th edition, Kumar, Abbas, Aster

Supplementary

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8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
C.W13., C.W14., C.W16., E.W1., E.W15., C.U6., C.U7., F.U5., F.U6., C.U14.	Two intermediate MCQ tests consisting of 24 questions, each worth 1 point.	0-12 points: fail (2) 13-15 points: satisfactory (3) 16-18 points: rather good (3,5) 19-20 points: good (4) 21-22 points: more than good (4,5) 23-24 points: very good (5)
C.W16., C.W17., E.W1., C.U6., C.U14., F.U5., F.U6., G.U28.	Interaction with teacher and active participation in classes	Presence and participation in all classes are required to take intermediate MCQ tests.
C.W13., C.W14., C.W16., C.W17., E.W1., E.W15., C.U6., C.U7., F.U5., F.U6., F.U16, G.U28.	Student receives grade after passing final exam in the form of MCQ test consisting of 50 questions, each worth 1 point.	Student passes the exam if he scores at least 61% points (31 points). Thresholds for grades will be set based on the exam results of all students.

9. ADDITIONAL INFORMATION <i>(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)</i>
<ol style="list-style-type: none"> All classes are held in Forensic Medicine Department facility at Pawińskiego St. 7, Warsaw: seminars on the third floor and practical classes in the autopsy room on the ground level. There are student lockers on the third floor where students can change into protective clothes and leave their belongings before classes. White coat and protective glasses are required for practical classes. Department of Pathology provides gloves. The use of mobile phones or other recording devices during practical class is strictly prohibited. All classes are mandatory. Absence from a seminar must be covered by writing an essay covering the topic of a seminar, and absence from a practical class – by taking part in Department’s usual gross pathology work outside teaching hours. In both cases, student is to contact the Course coordinator beforehand about the details. All the Seminars and Lectures are available on the Department of Pathology website (see below). <p>Additional information is available at: https://patomorfologia.wum.edu.pl/node/176</p>

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