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			Sylla				year: 2		021					
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Madula/Cauraa				Des	scriptio	טוו טו נו	ne cour	se			-£ -l - 4 -	اد د اد دا:		
Module/Course				PATHO	IOGV					Group of detailed education results				
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										de C		efore of		
														161
Faculty					ion – I	aculty	of Dei	ntistry						
Major			Dentis	try										
Unit realizing the subje	ct		Depar	tment	of Pa	tholog	gy and	Oncol	ogical	Cyto	ology			
Specialties														
Level of studies		- 1				tudies	$X^*$							
		- 1	_	ree stu										
			2 <sup>nd</sup> deg	gree st	udies									
			3 <sup>rd</sup> deg	ree st	udies [									
			postgr	aduate	studi	es 🗆								
Form of studies			<b>X</b> full-	time	□ра	rt-tim	е							
Year of studies			Ш					Seme	ester		Winter			
									VI	X	Summ	er		
Type of course			${f X}$ obli	gatory										
			□ limit	ed cho	ice									
			□ free	choice	e / elec	ctive								1,
Course			□ majo	or <b>X</b> ba	asic						,			
Language of instruction	า		□ Polish <b>X</b> English □ other											
* mark 🗆 with an X	1													
3				1		ber of								
					Form	of edu	cation							
			4C)	Major Classes – not clinical (MC)		(0)		Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	(VP)	nwo	
Unit teaching the			Auditorium classes (AC)	- not	()	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	s with	es – n	ge Co	ion o	Vocational Practice (VP)	Self-Study (Student's own work)	
course	(7)	(SE)	m clas	sses -	Clinical Classes (CC)	y Clas	Classes in Simula Conditions (CSC)	Classe	Class CM)	ngna	ducat	I Prac	/ (Stuc	(EL)
	Lectures (L)	Seminars (SE)	itoriu	or Cla	Ca Cl	orator	ses in dition	tical (	ialist ies (S	ign la	sical E	ationa	Study <)	E-learning (EL)
	Lect	Sem	Audi	Majo (MC	Clini	Labo	Conc	Practi (PCP)	Spec	Fore	Phys (PE)	V 003	Self-St work)	E-lea
Winter Semester -	.1												-	
Direct (contact)														
education	-					-						-	-	
Online learning														
(synchronous)  Distance learning	-	-										-		
(asynchronous)														

Summer Semester: 4				T	Т	Т		 		 		
Direct (contact)		400	15									
education												
Online learning	15		15									
(synchronous)												
Online learning												
(asynchronous)						:						
TOTAL per year: 45 h						•						
Direct (contact)			15	T	T		T	T	Т	<u> </u>	T	
Direct (contact)			15		T			T				
Direct (contact) education	15		15									
Direct (contact) education							-					
Direct (contact) education Online learning												

Educational objectives (max. 6 items)

- C1. 1. To familiarize students with the range of issues dealt with in modern/contemporary pathology.
- C2. Understanding the mechanisms of developing of basic disease entities.
- C3. The ability to associate the clinical symptoms and conditions with the macro- and microscopic changes and features in cells, tissues and organs.
- C4. Knowledge of the principles of autopsy and sectional/dissection techniques.
- C5. The ability to interpret data from various sources, including pathology, for more effective diagnosis of diseases.
- C6. Study and understanding of the basis of the disorders treated in hospitals and outpatients clinics.

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

	Number of	Ctudont who consults the	Methods of verification	Form of didactic
Number of course	major	Student who completes the	of intended education	class
education result	education	module/course knows/is able to	results (forming and	**enter the
	result		summarising)	abbreviation
W 01	C.W16.	knows the diagnostic methods used in	Two tests per	L, MC, PCP
		pathomorphology and the role of laboratory methods in the prevention and diagnosis of	semester for a class	, ,
		organ ans systemic disorders	in the form of test	
	C.W17.	recognizes the signs of death and posthumous changes and knows the principles of corpse technique and autopsy	questions.	
	E.W1.	understands the relationship between morphological abnormalities and the function of changed organs and systems as well as clinical symptoms and possibilities of diagnostics and treatment		
6	E.W2.	knows the basic methods of medical examination and the role of additional examinations in diagnosis, monitoring, prognosis and prevention of disorders organ and systemic, with particular emphasis on their impact on oral tissues	s	
	E.W3.	knows the etiopathogenesis and symptomatology of respiratory, circulatory,		

		hematopoietic, genitourinary, immune, digestive and endocrine system, with particular emphasis on the disease whose symptoms occur in the oral cavity	
	E 14/4 E		
	E.W15.	knows methods of cytological diagnostics and cytodiagnostic criteria in diagnosis and differentiation of cancer and nonneoplastic diseases	
	F.W5.		
	G.W31.	knows the symptoms, course and procedures in certain diseases of the mouth, head and neck, taking into account age groups	
	0.1101.	knows the rules of dealing with corpses	
	G.W32.	knows the principles of keeping, storing and sharing medical records and protecting	
		personal data of patients	
U 01	C.U6.	describes pathological changes in cells, tissues and organs in the field of circulatory disorders, regressive changes, progressive changes and inflammations	L, MC, PCP
	D.U12.	observes the patient's rights, including: the right to the protection of personal data, the right to privacy, the right to information about the state of health, the right to express informed consent to treatment or withdrawal	
	D.U15.	from it, and the right to a dignified death  uses and processes information using information technology and using	
	D.U19.	contemporary sources of medical knowledge critically analyzes scientific literature and	
	ELIE	draws conclusions	
	F.U5.	collects and protects biological and tissue material for diagnostic tests, including cytological tests	
	F.U6.	3,10108.00.100.00	
	F.U13.	interprets the results of additional tests and examinations	
		maintains ongoing patient records, issues referrals for specialist dental and general medical examinations or treatment	
	F.U15.	presents selected medical problems in oral or written form, in a manner adequate to the level of recipients	
	F.U16.	describes pathological changes of cells, tissues and organs according to basic mechanisms	a.
8	G.U41.	evaluates posthumous changes (signs of death)	
K 01	K.01.	Recognizes own diagnostic and therapeutic restrictions, educational needs, plans educational activities	L, MC, PCP
	K.02.	Is able to work in a team of professionals in a multicultural and multinational environment	

K.03.	Implements the principles of professional camaraderie and cooperation with representatives of other professions in the field of health protection
K.04.	Observes medical confidentiality and patient's rights

\*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning.

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: 3

Skills: 2

Social competences: 1

Student's workload	Student Workload (h)
(class participation, activity, preparation, etc.)	
1. Contact hours:	15

15	
30	

1

3. Student's own work (self-study):30Total student's workload75

ECTS points for module/course
Comments

2. Online learning hours (e-learning):

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

#### Lectures

- 1. General pathology, histopathological examination methods, autopsy rules.
- 2. Genetic, congenital and developmental defects.
- 3. Degenerations and regressive changes.
- 4. Hemodynamic disorders, thromboembolic disease and shock.
- 5. Acute and chronic inflammation.

Student's amount of work (balance of ECTS points)

- 6. Neoplasia: epidemiology, molecular basis of cancer, carcinogenic agents, characteristics of benign and malignant neoplasms, Grading and Staging of tumors, TNM Classifiaction.
- 7. Neopasia: epithelial and mesenchymal neoplasms.
- 8. Blood vessles and heart pathology.
- § 9. Respiratory tract and pulmonary pathology.
  - 10. Gastrointestinal tract pathology: esophagus, stomach, bowels, liver and pancreas.
  - 11. Urinary tract and kidney pathology.
  - 12. Female genital tract and breast pathology.
  - 13. Male genital tract pathology.
- 14. Central nervous system pathology.
- 15. Endocrine and skin pathology.

#### Practical classes

1. Introduction to pathology: the organization of pathology department and histopathological laboratory, principles of taking and procurement of the histopathological/tissue material, method of research: proceedings of specimens, histochemical and immunohistochemical

- 2. Degenerations: basic definitions and classifications.
- 3. Adaptations, injury and death: apoptosis, necrosis and atrophy.
- 4. Circulatory disorders: thrombosis, DIC, ischemia, congestion, edema, hemorrhage, shock.
- 5. Inflammation: definition, causes, terminology, divisions, inflammation, acute and chronic.
- 6. Tumours: definition, division, tumor growth, the spread of cancer, metastatic disease.
- 7. Tumours of epithelial and mesenchymal origin.
- 8. Cardiovascular system.
- 9. Respiratory tract.
- 10. Male and female genital tract and breast.
- 11. Kidneys and urinary tract.
- 12. The central nervous system and peripheral nerves.
- 13. Hematopoietic system and endocrine system.
- 14. Musculo-skeletal system: bones, joints and muscles.
- 15. Pathology of the skin.

#### Basic literature (list according to importance, no more than 3 items)

- 1. Kumar V, Abbas A.K., Aster J.: Robbins Basic Pathology. 10th Edition; 2017.
- 2. Anderson: Pathology, part I and II, 1995-2000.
- 3. Stevens A, Lowe JS, Young B: Wheater's Basic Histopathology. A colour atlas & text; 2002.

### Additional literature and other materials (no more than 3 items)

- 1. Lippincott's Illustrated Q&A Review of Rubin's Pathology, 2nd Edition; Lippincott's 2011.
- 2. Goljan E.F.: Rapid Review Pathology, 2ed, Mosby 2007.

## Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

- 1. Cytological and histopathological laboratory with equipment.
- 2. Dissecting and autopsy room with equipment.
- 3. Microscopes.
- 4. Seminar room and multimedia slide projector.

# Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

- 1. Knowledge of basic issues of normal and topographic human anatomy.
- 2. Knowledge of basic issues of human physiology and pathophysiology.
- 3. Knowledge of basic issues in human histology.

## Conditions to receive credit for the course

The condition for passing the course is to obtain a positive assessment of the two tests in the form of test questions.

Grade:	Criteria (examination evaluation criteria)			
Very Good (5.0)	90% positive answers			
Good Plus (4.5)	85% positive answers			
Good (4.0)	80% positive answers			
Satisfactory Plus (3.5)	70% positive answers			
Satisfactory (3.0)	60% positive answers			
Unit realizing the subject	Department of Pathology and Oncological Cytology			
Unit address	ul. Borowska 213, 50-556 Wrocław			
Telephone	71 734 39 60			
E-Mail	ws-13.1@umed.wroc.pl			

Person responsible for module	Prof. dr hab. Agnieszka Hałoń
Coordinator	Prof. dr hab. Agnieszka Hałoń
Telephone	71 734 39 60
E-Mail	ws-13.1@umed.wroc.pl

List of persons cond	ucting specific class	es	®	1
Full name	Full name	Full name	Full name	Full name
Agnieszka Hałoń	Agnieszka	Agnieszka Hałoń	Agnieszka Hałoń	Agnieszka Hałoń
	Hałoń		~	3
Paweł Gajdzis	Paweł Gajdzis	Paweł Gajdzis	Paweł Gajdzis	Paweł Gajdzis
Maciej	Maciej	Maciej Kaczorowski	Maciej	Maciej Kaczorowski
Kaczorowski	Kaczorowski		Kaczorowski	300 F

Date of Syllabus development

Syllabus developed by

25.09.2020

Prof. dr hab. Agnieszka Hałoń

Signature of Head of teaching unit

Uniwersytet Medyczyy we Wrocławii KATEDRA ORAZ ZAKŁAD PATOMORFOLOGII I CYTOLOGII ONKOJO

prof. dr hab. Agnieszka Hałoń

Signature of Faculty Dean