

"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST





DISCIPLINE GRID

1. Programme:

1.1.	CAROL DAVILA UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY / 2 nd DEPARTMENT
1.3.	DIVISION: Anatomical Pathology
1.4.	STUDY DOMAIN: Health, sectoral regulated within European Union
1.5.	STUDY LEVEL: LICENCE
1.6.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline:

2.1.	DISCIPLINE NAME: Anatomical Pathology							
2.2.	LOCA	LOCATION: Colentina University Hospital, 19-21 Stefan cel Mare, sector 2, Bucharest						
2.3.	Lectu	Lectures tenure:						
	Sabin	a Zu	rac (MD, PhI	O) – Professo	r			
	Alexa	ndra	Bastian (MD	, PhD)- Asso	ociate Professo	r		
	Luciana Nichita (MD, PhD) – Lecturer							
	Claudiu Socoliuc (MD, PhD) – Lecturer							
2.4.	Practical classes tenure:							
	Luciana Nichita (MD, PhD) – Lecturer							
	Claudiu Socoliuc (MD, PhD) – Lecturer							
2.5.		II	2.6.	IV	2.7.	Exam	2.8. Type of	CD/FD
Study	ly year Semester Evaluation discipline							

3. Estimated total time (hours/semester)

No. hours/week	5	out of which	Lecture: 2	Laboratory session: 3	
Total hours out of	70	out of which	Lectures: 28	Laboratory sessions: 42	
learning schedule	70			Laboratory sessions. 42	

Time distribution	hours
Textbook study, lecture support, bibliography and notes	25
Supplementary documentation activity in the library, on online platforms	15
Practical activity support material, homework, portfolio and essays	5
Tutorial activity	5
Examinations	2
Other activities	3
Total hours of individual study	55
Total hours per semester	125
Credits	5

4. Preconditions

4.1. curriculum	Knowledge of anatomy
	Knowledge of histology
	 Knowledge of biophysics
	 Knowledge of biochemistry
	Knowledge of physiology
4.2. proficiencies	To know histology techniques

5. Conditions

5.1. for lecture activity	Amphitheater minimum 70 seats, computer, video projector
5.2. for laboratory activity	Practical work room with individual microscopes,
	multi-head microscope, computer
	Morgue with autopsy room

6. Accumulated skills

6.1. Proficiencies	Knowledge acquired by the student:				
(knowledge and abilities)	- correct definition from a histopathological point of view of the main diseases				
, J	studied				
	- to differentiate reversible from irreversible cellular lesions				
	- identification and differentiation between the main types of histopathological				
	lesions (circulatory disorders, dystrophies, inflammations and tumors)				
	- identification and differentiation between specific and non-specific				
	inflammations				
	- identification and differentiation between tumor and non-tumor diseases				
	- identification and differentiation between benign and malignant tumors in				
	terms of biological evolution				
	- correlation between histopathological lesions, pathophysiological				
	mechanisms and clinical manifestations.				
	- Identification of the main equipment used in histopathological processing,				
	macroscopic orientation and necropsy				
6.2. Transversal skills	- Identifying the type of a disease, knowing the lesion substrate and the				
(role, professional and	evolutionary possibilities corroborated with the impact on the patient				
personal development)	- Identifying roles and responsibilities in a multidisciplinary team; applyi				
	effective relationship and work techniques within the team				
	- Efficient use of information sources and communication resources and				
	assisted training				

7. Objectives (based on the grid of acquired specific skills)

7.1. General Objective	- Understanding and mastering the fundamental notions of general pathology					
	(circulatory disorders, dystrophies, nonspecific and specific inflammations, tumors)					
	and oral pathology					
7.2. Specific Objectives	- Presentation of histological lesions in correlation with pathophysiological					
	mechanisms and clinical manifestations					
	- At the end of the course students should be able to present all the equipment used					
	in pathological anatomy and all the diseases studied in the lectures (definition,					
	classification as a type of predominant histopathological lesion, causes, macroscopic					
	appearance, microscopic appearance)					

8. Content

8.1.1. Lecture (SEM. I/II)	No. hrs/topic	Teaching method	Obs.
1. CHAPTER I Introductory course: The object of	1		
study of pathological anatomy	1		
2. CHAPTER II Circulatory disorders	5		
2.1. Active hyperemia; congestion;	1		
2.2 Thrombosis, embolism	2		
2.3. Reversible ischemic damage	0.5		
2.4. Infarcts	1.5		
3. CHAPTER III Dystrophies	4		
3.1. Hydroprotidic dystrophies	0.5		
3.2. Protein dystrophies	1		
3.3. Lipid dystrophies	1.5		
3.4. Carbohydrate dystrophies	1		
4. CHAPTER IV Inflammation:	6		
4.1. General information on the inflammatory	2		
process.	2		
4.2. Nonspecific inflammation.	2	Interactive	
4.3. Specific inflammations (tuberculosis,		presentation of the	
congenital and acquired syphilis, acute and	2	material according	
chronic rheumatoid arthritis, disease with	2	to the analytical	
cytomegalovirus inclusions, actinomycosis)		program, using	
5. CHAPTER V Regeneration and repair processes:	1	multimedia means,	
5.1. Granulation tissue, healing of skin wounds	0.5	power point	
5.2. The evolution of a fracture focus	0.25	presentations, didactic films	
5.3. Nerve regeneration processes	0.25	didaetie iiiiis	
6. CHAPTER VI Tumors	6		
6.1. General. Tumor classification (benign			
epithelial tumors, benign conjunctival tumors,	1		
mixed tumors, epithelial malignancies,	1		
conjunctival malignancies)			
6.2. Benign tumors.	2		
6.3. Malignant tumors.	3		
7. CHAPTER VII Oral histopathology	5		
7.1. Pathology of the dental pulp. Periodontal	1.5		
pathology.	1.3		
7.2. Odontogenic tumors: ameloblastoma;	1.5		
odontogenic keratocyst	1.3		
7.3. Precancerous oral-maxillofacial lesions.	2		
Tumors of the oral cavity			
TOTAL	28		

8.2.1. Laboratory Session (SEM. I/II)	No. hrs/topic	Teaching method	Obs.
CHAPTER I Circulatory disorders	6		
1. Thrombus.	0.5		
2. Chronic pulmonary congestion.	1		
3. Liver congestion.	1		
4. Renal congestion.	0.5		
5. Reversible ischemic cell damage.	1		
6. Myocardial infarction.	1		
7. Pulmonary infarction.	0.5		
8. Renal infarction.	0.5		
CHAPTER II Dystrophies	4		
1. Intra- and extracellular hyaline.	0.5		
2. Fibrinoid dystrophy (in the Aschoff nodule).	0.5		
3. Gastric ulcer	0.5		
4. Renal amyloidosis.	0.5		
5. Hepatic steatosis.	0.5		
6. Niemann-Pick disease.	0.25		
7. Gaucher disease.	0.25	Assistance to	
8. Intrahepatic cholestasis.	0.5	macroscopic	
9. Atheroma plaque	0.5	orientation, the process	
		of histopathological	
CHAPTER III Nonspecific inflammation	6	processing and	
1. Fibrinous pericarditis	0.25	sectioning, performing usual and special	
2. Acute phlegmonous appendicitis.	0.5	staining and IHC,	
3. Liver abscess.	0.5	examination of	
4. Acute purulent leptomeningitis.	0.5	histopathological	
5. Acute ulcerative hemorrhagic enterocolitis.	0.25	preparations,	
6. Epidemic mumps.	0.5	participation in autopsies and / or	
7. Granulation tissue.	0.5	viewing of recorded	
8. Infectious endocarditis	0.5	necropsies	
9. Acute pyelonephritis	0.5	^	
10. Frank lobar pneumonia	0.5		
11. Bronchopneumonia	0.5		
12. Chronic hepatitis	0.5		
13. Liver cirrhosis	0.5		
CHADED IV.C 'C' . G		_	
CHAPTER IV Specific inflammations	6	_	
1. Tuberculous granuloma (pulmonary and lymph	1.5		
node tuberculosis) 2. Phaymatic heart disasse: A schoff's granuloma		_	
2. Rheumatic heart disease: Aschoff's granuloma (rheumatic myocarditis), rheumatic endocarditis	1		
3. Diffuse acute poststreptococcal		+	
glomerulonephritis	1		
4. Foreign body granuloma.	0.5	1	
5. Luetic aortitis.	0.5	1	
6. Actinomycosis.	0.5	1	
7. Mycotic pyelonephritis.	0.5	1	
8. Disease with cytomegalovirus inclusions.	0.5		
o. Disease with cytolifegalovirus iliciusiolis.	1 0.3		

CHAPTER V Benign tumors 1. Papilloma. 2. The polyp. 3. The nevocellular nevus. 4. Breast fibroadenoma. 5. Uterine leiomyofibroma. 6. Pleomorphic adenoma of the parotid gland. 7. Neurinoma (schwannoma) 8. Cutaneous capillary hemangioma. 6.
1. Papilloma.12. The polyp.13. The nevocellular nevus.14. Breast fibroadenoma.0.55. Uterine leiomyofibroma.0.56. Pleomorphic adenoma of the parotid gland.17. Neurinoma (schwannoma)0.5
2. The polyp.13. The nevocellular nevus.14. Breast fibroadenoma.0.55. Uterine leiomyofibroma.0.56. Pleomorphic adenoma of the parotid gland.17. Neurinoma (schwannoma)0.5
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6. Pleomorphic adenoma of the parotid gland. 1 7. Neurinoma (schwannoma) 0.5
7. Neurinoma (schwannoma) 0.5
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CHAPTER VI Malignant tumors 6
1. Basal cell carcinoma 0.5
2. Squamous cell carcinoma. 0.5
3. Malignant melanoma. 0.5
4. Invasive ductal breast carcinoma. 0.5
5. Colon adenocarcinoma and lymph node
metastases. 0.5
6. Gastric carcinoma 0.5
7. Hepatocellular carcinoma 0.5
8. Bronchopulmonary carcinoma 0.5
9. Clear cell renal cell carcinoma 0.5
10. Carcinoma of the uterine cervix 0.5
11. Malignant lymphomas - Hodgkin's lymphoma, nonhodgkin's malignant lymphomas 0.5
12. Fibrosarcoma 0.5
12. 1 10105aiCollia 0.5
CHAPTER VII Oral histopathology 6
1. Branchial cyst. 0.5
2. Giant cell repair granuloma (epulis). 0.5
3. Lichen oral plan. 0.5
4. Pleomorphic adenoma of the parotid gland. 0.5
5. Carcinoma occurring in a pleomorphic adenoma. 0.5
6. Squamous cell carcinoma of the tongue.
7. Epidemic mumps. 0.5
8. Disease with cytomegalovirus inclusions. 0.5
9. Periapical granuloma. 0.5
10. Ameloblastoma
TOTAL LABORATORY SESSIONS 42
TOTAL DISCIPLINE 70

8.3. Bibliography for lectures and laboratory/practical sessions

- 1. Kumar V, Abbas A, Aster J. Robbins & Cotran Pathologic Basis of Disease 10th ed., Elsevier, 2020.
- 2. Strayer DS, Saffitz JE, Rubin E. Rubin's Pathology: Clinicopathologic Foundations of Medicine, 8th ed., Wolters Kluwer, 2019.
- 3. Slootweg P, Dental Pathology A Practical Introduction, 2the ed, Springer-Verlag, 2013.
- 4. Virchows Archiv Official Journal of the European Society of Pathology, Springer.

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and employers in the fields representative for the program

The professional training of the students for the higher years, with the acquisition of the information specific to the clinical-technical stages necessary for the subsequent theoretical and practical accumulations.

10. Evaluation

Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Lecture	A. Knowledge for mark 5:	Theoretical exam –	70%
	- to define correctly all the diseases studied in the course	written examination:	, .
	- to differentiate reversible from irreversible cellular lesions	10 subjects from all	
	- to differentiate specific from non-specific inflammations	chapters of the	
	- to differentiate tumor from non-tumor lesions	analytical program	
	- to differentiate benign from malignant tumors in terms of	J 1 6	
	biological evolution	Or under special	
	- to know from oral pathology the main periapical lesions	conditions multiple	
	- not to make major mistakes	choice test 45	
	B. Additional knowledge for mark 10	questions	
	- to present correctly all the diseases studied during the course		
	(definition, classification as a type of predominant		
	histopathological lesion, causes, macroscopic aspect,		
	microscopic aspect)		
	- to have in-depth knowledge about the histopathology of the		
	oral diseases		
Laboratory	At each seminar, before starting a new practical work,	Periodic check	10%
Sessions	discussions to verify the acquisition of the notions presented in		
	the previous practical works and courses		
	A. Knowledge for mark 5:	Practical	20%
	- correct definition of the disease	examination:	
	- correct identification under the microscope of the main	Presentation of two	
	characteristic of the disease	of the diseases	
	- not to make major mistakes	studied in the	
	B. Additional knowledge for mark 10:	laboratory sessions	
	Complete and correct presentation of the diseases (definition,		
	classification as a type of predominant histopathological	Or under special	
	lesion, causes, macroscopic appearance, microscopic	conditions multiple	
	appearance) and identification under the microscope of the	choice test 15	
	lesions characteristic for each disease.	questions	
Minimum pe	erformance standards		
Elementary k	nowledge of the studied diseases.		

Date Chair of Anatomical Pathology

Division

28.07.2023 Prof dr Sabina Zurac

Date of the approval in Department Director Prof dr Alexandru Bucur