

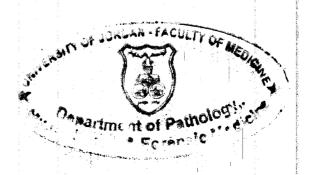


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The University of Jordan Accreditation & Quality Assurance Center

Course Syllabus

Course Name:
Introduction to
Pathology



1	Course title	Introduction to Pathology		
2	Course number	0504205		
	Credit hours (theory, practical)	2		
3	Contact hours (theory, practical)	14 week		
4	Prerequisites/corequisites	1201354		
5	Program title	Medical Doctor MD		
6	Program code			
7	Awarding institution	The University of Jordan		
8	Faculty	Faculty of Medicine		
9	Department	Dept. of Pathology, Microbiology, & Forensic Medicine		
10	Level of course	Undergraduate		
11	Year of study and semester (s)	2nd year, 1st semester		
12	Final Qualification	MD		
13	Other department (s) involved in teaching the course	NA .		
14	Language of Instruction	English		
15	Date of production/revision	2020		

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Name: mousa abbadi

Office Number: Faculty of Medicine 2, 103

Office Phone: 83/2654

E-mail:

Office hours: Sunday 8am-10am, 11am-noon

Monday 8am-9am, noon-1pm Tuesday 8am-10am, 11am-noon

Wednesday 8am-9am

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr. Heyam Awad JUH pathology dept. 3rd floor heyamawad2000@yahoo.com

Dr. Mousa Abbadi JUH pathology dept. 3rd floor

Dr Maha Shomaf

18. Course Description:

As stated in the approved study plan.

This course covers the study of cell injury including its types and mechanisms, cellular adaptation to growth and differentiation, inflammation including its types and mechanisms, cellular healing, infections and its causes and characteristics, tumors and neoplasia, types of causes, its mechanisms of occurrence, characteristics and enidemiology. and epidemiology.

19. Course aims and outcomes:

A- Aims:	
Acquire and synthesize knowledge regarding	pathogenesis of disease, molecular mechanisms, and morphological
changes associated with disease. The course a	also aims to introduce students to the clinical manifestations of
disease, patient presentation, diagnostic meth	nods, and patient outcome.
B- Intended Learning Outcomes (ILOs)	: Upon successful completion of this course students will be able to
A. Knowledge and Understanding:	
A1 Learn the basics of etiology and pathogen	
	nisms behind various diseases and the specifics related to cell death,
inflammation, repair, and neoplasia	
A3 Learn the morphological changes, gross a	nd microscopic associated with the disease examples presented
throughout the course	
A4 Learn the laboratory methods required to	diagnose disease
B. Intellectual Analytical and Cognitive Sk	ills:
B1 Recognize unifying molecular themes of d	
B2 Recall the molecular etiologies described	
B3 Pick the most appropriate diagnostic tech	
B4 Give a rudimentary diagnosis based on gr	oss and microscopic morphological changes associated with disease
C. Subject-Specific Skills:	
C1 Identify biopsy types required for the disc	eases presented
CI lucitary biopsy types required for the dis-	

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Homeostasis, Adaptation & Cell death	1-3	Dr. Heyam Awad	A,B,C	In class oral	Robbins Basic
Inflammation & repair	3-8	M'Mousa Abbadi	ATT C	Micherin exam Finel exam	Pathology 9th Edition
Neoplasia	9-end	Dr Maha Shomaf		*	and in Common to the

Topics		Ch/Pg
1. Course Orientation & Introduction		Ch1
2. Homeostasis, Adaptation, & Cell Death	•Principles	Pg. 1-5
	Adaptive Responses (Hypertrophy,	Pg. 8-11
	Hyperplasia, Atrophy, Metaplasia)	
	Cell Injury (reversible/irriversible)	And the second s
	•Cell Death	
	 Morphology of Cell Death 	AND THE PROPERTY OF THE PROPER
3. Cell Injury & Death		Pg. 6-7
5. den injury & Double	•Causes	Pg. 11-18
	 Principles & mechanisms (Mitochondria, 	200
	Ca2+, Free radicals & ROS, Membrane	
	damage) • Mechanisms in practice (Hypoxia Ischemia,	55. COLUMN 100 100 100 100 100 100 100 100 100 10
	Reperfusion, Chemical)	No.
4. Apoptosis		Pg. 18-22
	DefinitionPrinciples	
	•Causes	
	 Mechanisms (Mitochondrial, Death receptor) 	The state of the s
	•Mechanisms in practice (Growth factor	1945 - 19
	deprivation, DNA damage, Protein damage, role in immunity)	
	Necroptosis	in Carlo
		P
5.		Pg. 22-28
	Autophagy Intracellular accumulations	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	Pathologic calcification	
	•Cellular aging	
		100 CE 10
C. L. C	On and of inflammation and	Ch2
6. Inflammation	Overview of inflammation and Vascular changes	Pg. 29-34
		Pg. 35-40
7. inflammation	Cellular events in inflammation	_
8. Chemical mediators1	Cell derived mediators	Pg. 44-50
9. Chemical mediators 2	Plasma derived mediators	Pg. 50-53 Pg. 43-44
	Morphology of acute inflammation	rg. 43-44
10 Character for and greatomic office	to of	Pg. 53-59
10. Chronic inflammation and systemic effect inflammation		15.0007
	The state of the s	C 5 6 8
11. Cell proliferation in tissue repair	Overviewed wissue repair	Pg. 58-62
545	•Overview of vissue repair	
WHITE .	•Cell prolateration	\$ 1.00 miles
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12. Role of the ECM in tissue repair		Pg. 63-65
	•Extracellular matrix	
	•Structure	New Artists
:	•Components	
	•Function	
	•Regeneration in tissue repair	700
	Overview of tissue response to injury -	
	revisited	
100110 10070		D- ((72
13 & 14 Scarring & Fibrosis		Pg. 66-72
	•Steps	
	•Angiogenesis	-
	 Activation of fibroblasts & ECM deposition 	
	Maturation & remodelling	
·	 Factors influencing tissue repair 	
	•Clinical examples	
15. Neoplasia		Ch5
	Definition & Nomenclature	Pg. 161-169
	 Benign & Malignant neoplasia 	
	•Characteristics	
:	Differentiation & Anaplasia	William Control of the Control of th
	•Rate of growth	
	•Local invasion	
	Metastasis	
16. Epidemiology & introduction to the		Pg. 169-173
molecular biology of cancer	•Epidemiology	
molecular biology of cancer	•Environment	
	•Age	F
	•Heredity	
	•Acquired pre-neoplastic lesions	
+ :	ricquired pre neoplabae resions	
17. Genetics & epigenetics of cancer		Pg. 173-178
Tri denotics a opigenotics of cancer	 Molecular Biology of Cancer (introduction) 	- 6
	Karyotypic changes	
	•Translocation	
	•Deletion	
:	•Amplification	
	Aneuploidy miRNA	·
	Epigenetic changes (methylation)	E S
	Molecular Biology of Cancer (initiation &	to description
. :		
	progression) •Hallmarks of Cancer (introduction)	1
	-namiliarks of Cancer (introduction)	D DE
18. Hallmarks of Cancer - Growth & Growth		Da 170 104
inhibition	Crouth factors 0 their reserve	Pg. 178-184
Immotion	• Growth factors & their receptors	
	• Signal transduction & transcription)
	•Cell cycle control (cyclins & CDKs) •The first tumor suppressor gene: RB	ř.
	The mot tumor suppressor gene: Kb	
19. Hallmarks of Cancer - Growth inhibition &		Pg. 185-190
Evasion of death	• Guardian of the genome: p53	1 8. 103-130
Evasion of acadi		
A service of the serv	TOFF signaling Contact inhibition: NF2 & APC	
	Evacion of fall sinthis	
	•Evasion of cell ceath	
		· ·
	Dono le la	
	- Marine at a Batholog Mill	£

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20. Hallmarks continue	•Limitless replicative potential	Pg. 190-195
	Development of sustained angiogenesisAbility to invade and metastasize	- Control of the Cont
21. New Hallmarks		Pg. 195-198
	Reprogramming Energy MetabolismEvasion of the Immune System	· "我们是我们是我们,我们们
	Genomic instabilityInflammation	्राम् । प्रतिकृति विकास समिति । प्रतिकृति । प्रतिकृति । प्रतिकृति । प्रतिकृति । प्रतिकृति । प्रतिकृति । प्रतिक
22. Etiology of cancer		Pg. 198-204
	Chemical Radiological Microbial	eller
	•Oncogenic viruses •H. Pylori	State Calabata
23. Tumor immunity		Pg. 204-207
	Tumor antigensCell mediated immunityImmune surveillance & evasion	iterative and the analysis and the
24. Clinical aspects of neoplasia	C	Pg. 207-213
	Systemic effectsGrading & stagingLab diagnosis including molecular methods	Section and the section of the secti

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods: Lectures, Discussions, Oral quizzes, Learning through examination

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

, Midterm exam, Final Exam

23. Course Policies:

A- Attendance policies:

Standard university attendance policy

B- Absences from exams and handing in assignments on time:

Exam absence is handled by the excuses committee

C- Health and safety procedures:

NA



D- Honesty policy regarding cheating, plagia	rism, misbehavior:		
Cheating is not tolerated and university poli	cy is enforced.		Name (1990)
E- Grading policy:			
Curve based on standard deviation and facu	lty policy regarding percentage of students pe	r grade	and grade cutoffs
F- Available university services that suppor	t achievement in the course:		- 15 C
eacademic faculty member website contains	s course material & announcements		150 ACC 150 ACC
24. Required equipment:			
NA			PROPERTY OF THE PROPERTY OF TH
25. References:			CO minused by Conference (Fig. 4)
A- Required book (s), assigned reading an	d audio-visuals:	:	
Robbins Basic Pathology 9th Edition			
B- Recommended books, materials, and n	nedia:		Carlo Carlo Barbaro (180 C. A.
Presentation slides act as a visual study aid			funds o trunctures of
26. Additional information:			The state of the s
Expected workload:	ween 3 and 5 hours per week on this course.		
Name of Course Coordinator: Dr. heyam	awad Signature: HA Date:6/12/2017	1 5	ANTO CARACTER CAN
Head of curriculum committee/Departm	nent: Signature:	: 	
Head of Department:	- Signature:		Addition (Confidence)
Head of curriculum committee/Faculty:	Signature Signature	WEU PRINT	
Dean:	-Signature:	T th	
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Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File

