



Academic Development & Quality Assurance Center

Course Specification

Faculty: Medicine Department: Histology Programme: Histology , Undergraduate program

 Basic Information

 Course Title: Histology

 Course Code: COHD 203

 Contact Hours: 21

 Prerequisites: Accomplished basic science phase

 Academic Level: First level
 Term: Fall (8 weeks module)

Course Overall Aims:

a- To help the student to understand normal structure of different organs and various systems of the human body.

b- To shed down alight on the functional significance of different histological parts within the system and organ.

c- To make it easy for the student to differentiate between normal and abnormal histological findings.

Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

By the end of the course, the student should be able to:-

1- Describe the normal histological structure of various systems and organs.

b- Intellectual skills

By the end of the course the student should be able to:-

1- Correlate between histological structure and function of different organs and systems

2- Define the part of the body from which the section is taken.

3- Diagnose slides different from those seen during the course but of the same organs and systems previously studied.

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c- Professional and practical skills:

After completing the course, the student should be able to:-

1- Enumerate various types of special stains of different organs.

2- Describe ultra-structure of different cells studied in various organs.

3- Differentiate between different organs seen in the same slide.

d- General and transferable skills:

After completing the course the student should be able to:-

1. Reach microscopic diagnosis of normal structure and notice any abnormal changes.

2. Work in / with different groups.

3. Give his or her opinion regarding update scientific problems (e.g. transcription).

Module: C	: Concepts of Health & Disease- COHD-203 – Med-1				
Title	Week	Lecture	FC	TBL	Practic
					al
Epithelial tissue	1	2			2
Connective tissue	2	2			2
Adipose tissue	2	1			
Skin	3		2		
Muscle tissue	4	1			
Nervous tissue	5	1			2
Sensory receptors	5		2		
Neuroglia , ganglia, N Tr & syn	6			2	
Blood vessels	7	1			
Immune organs	7	1			
Hours		9	4	2	6
Total Hours		21			

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Module: Cond	cepts of Health & Disease- COHD-203 – Med-1				
Title					
Epithelial tissue, Types of epithelium, and Glandular epithelium	 List several structural and functional characteristics of epithelial tissue. Name, classify, and describe the various types of epithelia and indicate their chief function(s) and location(s). Define Glands. Differentiate between endocrine and exocrine glands, and between multicellular and unicellular glands. Describe how multicellular exocrine glands are classified structurally and functionally. 				
Cell Junctions	✓ Describe and compare the structure and function of different type of iunctions				
Connective tissue	 Indicate common characteristics of connective tissue. List and describe its structural elements. Describe the types of connective tissue found in the body, and indicate their characteristic functions. 				
Adipose tissue	✓ Describe the types of adipose tissue found in the body, and indicate their characteristics.				
Skin	 ✓ Name and distinguish the layers of the epidermis in terms of structure and function. ✓ Identify the layers of the dermis and the hypodermis and explain their functional significance. ✓ Identify the layers of the epidermis in thick and thin skin and describe the major cellular events that take place in each layer in the process of keratinization. 				
Muscle tissue	 ✓ Compare and contrast the structures and body locations of the three type of muscle tissue. ✓ Name and identify the three types of muscle at the light and electron microscope levels, including distinctive features of each, such as the intercalated discs of cardiac muscle. ✓ Describe and understand the structural basis of muscle striation at the light microscope and EM levels and the molecular level. 				
Nervous tissue	 ✓ Be able to identify cells of the nervous tissue. ✓ Describe the organization of a typical neuron and the direction of information flow. ✓ Describe and contrast the function and organization of sensory and motor neurons. ✓ List the types of neuroglia and cite their function. 				
Sensory receptors, synapses, motor end plates	 Describe the function, location and structure of sensory receptors Define synapse. Distinguish between electrical and chemical synapses by structure and by the way they transmit information. Describe the function and basic organization of neuromuscular junctions (motor end plates) and muscle spindles. 				
Peripheral nervous system	 Describe the general structure of the nerve. Define ganglion and indicate the general body location of ganglia Follow the process of nerve regeneration. Describe the process of myelination, and the function of myelin, including Nodes of Ranvier. Explain the role of the Schwann cell, with respect to both myelinated and unmyelinated neurons. 				
Vessels	 Be able to distinguish successive parts of the circulatory pathway, and explain how the structure of the vessel wall meets the functional needs that are present in each of the parts. 				

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✓ Describe the three layers that typically form the wall of a blood vessels, and state the function of each.
✓ Know how structural differences in capillaries influence the passage of diverse material across the endothelium.
\checkmark Describe the structure and distribution of lymphatic vessels.
\checkmark List the function of the lymphatic vessels.

Teaching and Learning Methods:

Lecture (9 Lecture). TBL (2 TBL) Flipped Class (4 Flipped classes) Practical sessions(6) *Teaching and Learning Facilities/ Materials:*

Lecture hall White board Personal computer Data show Electronic Databases ACOG access Moodle platform

5- Student Assessment Methods, Schedule and Grading:

- \checkmark Written exam
- ✓ Practical exam

6- List of References:

1. Junqueira's Basic Histology 14 $^{\rm th}$ edition 2016

- 2. Wheater's Functional Histology 6th edition 2014
- 3. Wojciech Pawlina Histology 7 th edition 2016

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