

This file has been cleaned of potential threats.

To view the reconstructed contents, please SCROLL DOWN to next page.

# Course specification of applied pathology

## **A-Administrative information:**

Course title: Applied Pathology

Code: PEDHI 812

Department giving the course: Pathology department

Program on which the course is given: Master . Of Pediatrics Hepatology

Department offering the program: Pediatrics Hepatology department

Semester: 1st semester

Date of specification : 2011

Date of approval by department and National institute of Liver : **2011**

## **B-Professional information:**

### **1. AIM OF THE COURSE:**

**I. 01.** To familiarize students with the basic disease patterns including definition, etiology, morphologic changes in different organ system diseases in addition to their fate and complication

**I. 02.** To provide students with essential knowledge for gross and microscopic changes in different diseases for understanding and interpreting pathological reports.

### **2. INTENDED LEARNING OUTCOMES (I.L.OS):**

#### **a- Knowledge & understanding:**

By the end of the course, students should be able to:

**a1.** Discuss the principals of general pathology (cell injury, inflammation, tissue repair, homodynamic, cellular dyspalsia , neoplasia... etc ) and explain different disease processes occurring in cardiovascular system, renal and endocrinal organs; their causes (etiology), and how the disease develops in response to the etiologic agents (pathogenesis) together with infectious diseases in all body organs.

**a2.** Describe and discuss characteristic gross and microscopic pictures of different pathologic lesions within those organ systems and the associated functional disturbances.

**a3.** Determine the fate and complications of different disease processes

#### **b- Intellectual Skills**

By the end of the course, students should be able to:

**b1.** Interpret gross and microscopic pictures aiming at reaching the correct diagnosis.

**b2.** Predict the diagnosis of different diseases based on the underlying gross and microscopic pictures.

### **c- Professional and Practical Skills**

By the end of the course, students should be able to:

**c1.** Employ the different diagnostic pathological tools

**c2.** Interpret a pathology report in an accurate manner.

### **d- General and Transferable Skills**

By the end of the course, students should be able to:

**d1.** Search for the recent medical information and continued progress in medical sciences.

**d2.** Express freely and adequately themselves by improving descriptive capabilities and communication skills.

**d3.** Respond appropriately according to the seriousness of pathologic diagnosis in acceptable manner.

## **3-Contents:**

### **1- GENERAL Pathology:**

\*Cellular adaptation, cell injury and cell death

\*Acute and chronic inflammation

\*Tissue renewal and repair: regeneration, healing and fibrosis.

\*Hemodynamic disorders, Thromboembolic disease and shock.

\*Genetic disorders.

\* Neoplasia

\*Infectious diseases

\*Environmental and nutritional pathology.

\*Diseases of infancy and childhood.

### **2- SYSTEMIC Pathology:**

\* Diseases of the GIT.

\* Diseases of the endocrine system.

\*Diseases of the blood \* Disease of lymphoid system

\*Diseases of the respiratory system .

\*Diseases of blood vessels and heart .

\* Diseases of urinary system.

Diseases of CNS & Peripheral nervous system

### **3- JARS**

\* Pulmonary T-B

\* Congestive splenomegally

\*Non-Hodgkin lymphoma, spleen

\*Multiple adenomatous polyp

\*Renal xanthogranuloma

\* Polycystic kidney

**Credit hours: 2 hrs**

<b>Total</b>	<b>Credit hours for practical</b>	<b>Credit Hours for lectures</b>	<b>Topic</b>
15	10	5	• General Pathology
			• Systematic Pathology
25	10	5	• JARS
25	10	5	
45	30	15	<b>Total</b>

#### **4. TEACHING & LEARNING METHODS:**

4.1- Lectures

4.2- Practical classes

#### **5. STUDENT ASSESSMENT METHODS:**

5.1- Written Examination for assessment of knowledge and understanding and intellectual skills

5.2- Oral Examination for assessment of knowledge and understanding outcomes, intellectual skills, general skills and attitude.

5.3- Practical Examination for assessment of practical and intellectual skills

#### **ASSESSMENT SCHEDULE:**

One written exam 2 hours in Applied Pathology + practical exam and oral exams

## **WEIGHING OF ASSESSMENT:**

Written exam: 50%

Oral exam: 25%

Practical exam: 25%

Total: 100%

## **6 LIST OF REFERENCES:**

### **6.1- Course notes:**

Staff member's color atlas of gars.

### **6.2- Essential books:**

o Kumar, Cotran & Robbins: Recommended text book : Basic Pathology.

o Macfarlane, Reid & Callender: Illustrated Pathology Lectures.

o CDs available at the department on request.

O Diagnostic histopathology: Fletcher.

### **6.3- Recommended web sites:**

o <http://www.pathmax.com>

o <http://www.medlib.med.utah.edu/webpath/labs/labmenu.html>

o <http://www.medscap.com/pathologyhome>

o <http://www.qwumc.edu/dept/path/2f.htm>

## **7-Resources / Facilities required for teaching and learning to achieve the above ILOs:**

7.1- Data show.

7.2- Computers

7.3- Laboratories instruments.

**Program coordinator:** Prof. Dr. Nermen Ehsan

**Dean:** Prof. Dr. Magdy Khalil

**Head of Quality Assurance Unit:** Dr . wessam saber morad