

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

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

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