



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Clinical nephrology, dialysis and renal transplantation (MD) NEPH610
(2) Department offering the programme.	Internal medicine Department: Nephrology unit
(3) Department responsible for teaching the course.	Internal medicine Department: Nephrology unit
(4) Part of the programme.	First part (Semester 1)
(5) Date of approval by the Department's council	5/11/2014
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Applied pathology
(8) Course code.	NEPH610APa
(9) Total teaching hours.	15 (1 credit hour)

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- Provide in-depth knowledge of indications, technique, processing, interpretation and complications of renal biopsy.
- Develop updated concepts about the basics of renal pathology in AKI and CRF due to different causes and provide a sound understanding of role of biopsy in renal transplantation and graft dysfunction.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

- A 1 Recall the indications, technique, processing, interpretation and complications of renal biopsy.
- A 2 **Recall** sufficient knowledge of pathology of renal amyloidosis, lupus nephritis
- A 3 Identify different pathologies in different causes of AKI and CRF
- A 4 Identify different pathological patterns of renal graft dysfunction
- A 5 Identify pathological patterns of diabetic and hypertensive kidney diseases

B- Intellectual skills

- B1 Solve professional problems according to available data and set learning and improvement goals.
- B2 Analyze efficiently case scenarios and refer to the most appropriate diagnosis and possible differential diagnosis and interpret basic clinical tests and images as well as obscure findings.

C- Professional/practical skills

D- Communication & Transferable skills

(3) Course content: Compulsory

Lectures: 1 hour/week(15 weeks)

Course title	Code	Lectures Hours/ week	Seminars Hours/ week	Total	Total Teaching Hours	Credit Hours
Applied pathology Introduction to renal biopsy-indications& technique Renal biopsy collection, processing and interpretation Renal pathology in hematuria Renal pathology in proteinuria Renal pathology in acute renal failure-glomerular lesions Renal pathology in acute renal failure-tubulointerstitial Lesions Renal pathology in acute renal failure-vascular lesions Renal pathology in diabetes and hypertension Renal pathology in SLE Renal pathology in amyloidosis Renal biopsy in pregnancy Renal biopsy in chronic renal failure Protocol of renal transplant biopsy Renal transplant biopsy in primary non-function Renal transplant biopsy in early dysfunction Renal transplant biopsy in late dysfunction	NEPH610APa	1	0	1	15	1

(4) Teaching methods:

4.1.lectures with power point presentations and discussions

4.2: Seminars

4.3: Problem solving case scenarios

(5) Assessment methods:

5.1:written exam

5.2: online MCQ exam(20% of written exam degrees)

Course	Assessment	Marks
Applied pathology	Written exam (2 hours)	80
	MCQ	20

Assessment schedule:

First part examination, 6 months from admission to the program:

Assessment 1: Written exam

Assessment 2: Online MCQ exam

Other assessment without marks: logbook

(6) References of the course.

Textbooks

- Fundamentals of renal pathology (Fogo, 2014)
- Lupus nephritis: Frontiers and challenges
- Comprehensive clinical nephrology textbook

Periodicals

- Nephron physiology
- Journal of clinical immunology and immune-pathology research

Websites

- American society of transplantation
- Renal biopsy site
- The Nephron Information Center

(7) Facilities and resources mandatory for course completion.

Lecture halls

Intranet with a vast learning material

Program specification and handbooks

Candidates logbook

A very rich library and computer laboratories

Course coordinator:

Prof. Mohammed Sobh (General supervisor)

Prof. Hussein Sheashaa (Academic guide)

Head of the department:

Prof. Salah El Gamal

Date: 5/11/2014