



COURSE SPECIFICATION

MD Pediatrics –Second part Elective Nephrology

Faculty of Medicine– Mansoura University

- **Administrative information**

(1) Programme offering the course.	MD Pediatrics (PED 600)
(2) Department offering the programme.	Pediatrics
(3) Department responsible for teaching the course.	Nephrology
(4) Part of the programme.	Second part – Elective Pediatric Nephrology
(5) Date of approval by the Department's council	27/4/2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Elective Nephrology
(8) Course code.	PED 609 ANP
(9) Total teaching hours.	45 hrs

(1) Course Aims:

The broad aims of the course are as follows.

- To develop the solid knowledge of diagnosis and management of chronic kidney diseases.
- To develop the skills for choosing the right modality of management of CKD including hemodialysis, peritoneal dialysis and chronic replacement therapy.
- To have the basic knowledge of transplantation science and immunology.

(2) Intended Learning Outcomes (ILOs):

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

A. Knowledge and Understanding

- **A1.** Define stages and memorizes different modalities of treatments of CKD in children.
- **A2.** State the nutritional requirements and modifications in CKD children.
- **A3.** Outline recent trends in management of anemia in CKD.
- **A4.** Outline recent trends in management of bone disease in CKD.
- **A5.** Identify recent lines of treatment of growth affection in CKD.
- **A6.** Label treatment of hypertension in CKD.
- **A7.** List advances in management of electrolyte and acid base disturbances in CKD.
- **A8.** Identify different types of vascular access for HD in CKD.
- **A9.** Recognize principles of HD prescription in CKD.
- **A10.** Identify acute and chronic complications of HD in CKD.
- **A11.** Label different types of peritoneal access for peritoneal dialysis (PD) in CKD.
- **A12.** Indicate principles of PD prescription in CKD.
- **A13.** Identify acute and chronic complications of PD in CKD.
- **A14.** Outlines principles and modalities of continuous renal replacement therapy in children.
- **A15.1.** Determine principles of renal transplantation, and the medical, surgical, ethical and social contraindications.
- **A15.2.** Recognize the principles of blood group typing, HLA matching and donor-recipient cross matching

B. Intellectual skills

- **B1.** Select and prescribe the appropriate dialysis modality
- **B2.** Plan conservative treatment of CKD
- **B3.** Interpret the results of biochemical and radiological investigations in patients with disorders of bone and mineral metabolism
- **B4.** Plan and prescribe/adjust hemodialysis and monitor its effects and adequacy
- **B5.** Assess suitability of child/ adolescent and their family for peritoneal dialysis.
- **B6.** Plan and prescribe long-term peritoneal dialysis and monitor its effects and adequacy.
- **B7.** Assess the suitability of a patient for hemodialysis or hemofiltration
- **B8.** Assess the suitability of children with end stage renal disease for renal transplantation
- **B9.** Plan immunosuppressive therapy regimens
- **B10.** Modify long term immunosuppressive therapy regimens considering other co-morbid conditions and changing circumstances

(3) course Contents

Course	Title	Teaching hrs	
		<i>lectures</i>	<i>ILOs</i>
Nephrology	CKD: Evaluation and diagnosis	3	A1
	CKD: Non- dialytic treatment: Nutrition	3	A2-B2
	CKD: Non- dialytic treatment: Anemia	3	A3-B2
	CKD: Non- dialytic treatment: Bone Disease	3	A4-B3
	CKD: Non- dialytic treatment: Growth	3	A5
	CKD: Non- dialytic treatment: Hypertension	3	A6
	CKD: Non- dialytic treatment: Electrolyte and acid base	3	A7-B4
	Haemodialysis access	3	A8-B8
	Haemodialysis prescription	3	A9-B8
	Haemodialysis complications	3	A10-B8
	Peritoneal dialysis access and prescription	3	A11-A12-B6-B5
	Peritoneal dialysis complications	3	A13-B7
	Continuous renal replacement therapy	3	A14
	Principles of renal transplantation	3	A15-B9
	Immunology of renal transplantation	3	A15-B10-
Total		45	

(4) Teaching methods:

4.1. Weekly lectures and scientific seminar

4.2. Self learning

(5) Assessment methods:

5.1....Written. for assessment of..... (knowledge, intellectual skills)

5.2.... Oral for assessment of.....(knowledge, intellectual skills)

5.3 MCQ continuous assessment for assessment of..... (knowledge, intellectual skills)

Assessment schedule : Semester & Final Exam.

Course	Marks		
	MCQ (Semester Exam)	Essay (Final Exam)	Oral
Nephrology	12	48	30
Total	90		

(6) References of the course :

- Nelson's Text book of Pediatrics
- Comprehensive Pediatric Nephrology textbook
- Manual of Pediatric nephrology textbook
- Oxford hand book of dialysis.

(7) Facilities and resources mandatory for course completion:

- **LECTURE HALLS:** Two halls for lecturers are available at Mansoura University Children's Hospital (MUCH). The hall is equipped with white board, data show, and computer.
- **CLINICAL ROUNDS HALLS:**
Six halls for clinical rounds are available at Mansoura University Children Hospital (MUCH). Computer and AV aids facilities are available with prior arrangement.
- **LIBRARY:**
The library is located on the 4th floor of the Faculty of Medicine, Mansoura University.

- **FACILITIES FOR TUTORS**

In addition to the library on 4th floor of the Faculty of Medicine, Mansoura University, there is a specialized pediatric library at MUCH (Professor Mohammad Hafez's Library).

The offices of all staff at MUCH is equipped with computers and high speed internet connection.

International databases are available through the website of the university (www.mans.edu.eg)

Course coordinator: Prof. Aymen Hamad

Head of the department: Prof. Ali Shaltout

Date:

