



## COURSE SPECIFICATION

### Faculty of Medicine- Mansoura University

#### (A) Administrative information

(1) Programme offering the course:	Dialysis Fellowship(fD)
(2) Part of the programme:	Semester 4
(3) Date of last approval of programme specification by Faculty council	9/8/2016
(4) Course title:	-Peritoneal dialysis -Clinical problems with HD, hemodialysis in special groups and assessment of HRQoL
(5) Course Code	<b>fd5</b>
(6) Total teaching hours:	9 credit hours

## **(B) Professional information**

### **(1) Course Aims:**

The broad aims of the course are as follows:

- Respond to the educational and research training needs of doctors with a special interest in Hemodialysis.
- Provide detailed information about different clinical issues related to hemodialysis and how to deal with
- Address the dilemma of HD in children, terminally ill patients and pregnancy
- Provide information about health-related quality of life(HRQoL)
- Address physiology of PD, its prescription, mechanistic and complications.

### **(2) Intended Learning Outcomes (ILOs):**

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

#### **A- Knowledge and Understanding**

A18. Demonstrate knowledge of management of different clinical problems that may complicate or co-exist with hemodialysis

A19. Recognize precautions for dialysis in special groups like pregnant, children, the elderly, critically ill, mentally retarded and patients with terminal illness

A20. Explain HRQoL changes in HD patients and how to assess.

A21. Describe physiological basics of PD, mechanistic and equipments.

A22. Recognize acute and chronic PD prescription, adequacy of dialysis and complications of PD.

#### **B- Intellectual skills:**

B4 Design an initial course of management for stabilization of patients with

serious illnesses.

B5 Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.

B6 Retrieve, analyze, and synthesize relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

B7 Recognize and cope with uncertainty by:

a. Accepting that uncertainty is unavoidable in the practice of medicine.

b. Using appropriate cognitive strategies to deal with uncertainty when it arises.

### **C- Professional/practical skills**

c4- Diagnose of common and life threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum.

c5- Write competently and evaluate professional reports and referral letters related to his specialty

c6- Manage and perform a CRRT session specially in critically ill patients

c8. Manage and perform a PD session and evaluate patients for adequacy of dialysis and complications

### **D- Communication & Transferable skills:**

D2. Work effectively within the health care team.

D3. Solve problems related to patients, work management, and among colleagues.

D4. Cope with a changing work environment.

D5. Apply safety and infection control measures during practice.

**(3) Course content:**

Course title	Code	Hours/ lectures	Credit Hours
	fD5		9(135 hrs.)
-Basics of drug prescription on HD		5	
- HD in special groups			
1. Pregnants		5	
2. Children		5	
3. Critically ill		5	
4. Terminal illness		5	
5. Mentally retarded		5	
6. Cognitive impairment		5	
-Psychological issues		5	
-Nutrition in HD		5	
-HTN in HD		5	
-GIT disorders in HD		5	
-CNS & sleep disorders		5	
-CVS & bone disorders		10	
-Diabetes		4	
-Infections		4	
-Blood disorders		4	
-Fertility issues		4	
-Obstetric and gyn. Issues		4	
-HRQoL in HD		5	
-Physiology of PD		5	
-Apparatus for PD		5	
-PD catheters placement & care		5	
-PD in AKI		5	
-Adequacy of PD and chronic PD prescription		5	
-Volume status in PD		4	
-Electrolytes& acid-base in PD		5	
-Complications of PD		6	

**\*Clinical training 6hrs./w for 10 weeks (2 credit hours)**

**(4) Teaching methods:**

4.1:Online lectures and discussions.

**4.2: Problem solving case scenarios.**

**4.3: Clinical training in nephrology and dialysis units**

**(5) Assessment methods:**

-Online MCQs and EMQs exam after end of 4<sup>th</sup> semester.

-Log book for assessment of activities throughout the whole program.

**(6) References of the course:**

**Textbooks**

- Brenner’s textbook of nephrology.

- Handbook of hemodialysis 5<sup>th</sup> edition
- Oxford handbook of dialysis
- Chronic Kidney Disease, Dialysis, and Transplantation, Companion to Brenner and Rector's the Kidney (by Brian J.G. Pereira; Mohamed Sayegh & Peter R. Blake.
- Comprehensive clinical Nephrology textbook.
- Essential Atlas of Nephrology & Hypertension. Schrier, Robert W.; Cohen, A.H. (Eds.)
- Oxford textbook of medicine
- Oxford textbook of clinical Nephrology
- Shaul El-Massry textbook of nephrology.
- The Washington Manual® Nephrology Subspecialty Consult. Irfan A Agha, and Gopa Bhattacharyya Green
- Peritoneal dialysis: from basic concepts to clinical excellence

### **Periodicals**

- Advances in Chronic Kidney Disease.
- American Journal of Hypertension.
- American Journal of Kidney Diseases.
- Clinical nephrology.
- Current Opinion in Nephrology & Hypertension.
- Journal of Renal Nutrition.
- Journal of the American Society of Nephrology.
- Kidney International.
- Nephrology, dialysis and transplantation.
- Nephron Clinical Practice.
- Nephron Experimental Nephrology.
- Pediatric Nephrology.
- Scandinavian Journal of Urology and Nephrology.
- Seminars in Dialysis.
- Seminars in Nephrology
- The Internet Journal of Nephrology.

- Peritoneal dialysis international

***Web Sites:***

- American Society of Nephrology
- ESNT virtual academy
- American Society of Transplantation
- EDTA-ERA Educational
- Kidney Directions
- National Kidney Foundation
- Nephrology gateway
- Renal Biopsy Site
- Renal Physicians Association
- The Nephron Information Center
- The Renal Network, Inc.
- Up-To-Date

**(7) Facilities and resources mandatory for course completion:**

- Programme Specification and Handbooks
- Extensive library and other learning resources
- Computer laboratories with a wide range of software
- Intranet with a wide range of learning support material

**Course director:**

Prof.: Hussein shaeshaa

**Course co-ordinators:**

Dr. Ahmed Mohammed Abd El Wahab

Dr. Mostafa Abdel Salam

**Date:**

