



## COURSE SPECIFICATION

### Faculty of Medicine- Mansoura University

#### (A) Administrative information

<b>(1) Programme offering the course:</b>	Dialysis Fellowship(fD)
<b>(2) Part of the programme:</b>	Semesters 2
<b>(3) Date of last approval of programme specification by Faculty council</b>	9/8/2016
<b>(4) Course title:</b>	Water, dialysate circuits, the machine and dialyzer
<b>(5) Course Code</b>	fD3
<b>(6) Total teaching hours:</b>	3 credit hours

## **(B) Professional information**

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

The broad aims of the course are as follows:

- Provide practicing clinicians in Nephrology with a comprehensive training program about the dialysis machine, the dialyzer, water and dialysate circuits
- Respond to the educational and research training needs of doctors with a special interest in Hemodialysis.

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

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

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

a9- Recognize different parts and steps of water purification

A10. Discuss dialysate composition, dilution and delivery

A11. Recognize different types of dialyzers and principles of re-use

A12. Show good understanding of dialysis machine (parts, mechanistics, conductivity and programs)

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

B1 Utilize available resources to achieve adequate dialysis.

B2 Use personal judgment for analytical and critical problem solving and seek out information.

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

c1- Carry out central venous catheters insertion

c2- Prepare and insert AVF needles and start HD session

c3- Provide the maximum protective measures to avoid the risks of hemodialysis

## D- Communication & Transferable skills

D1. Use Evidence Based Medicine in management decisions.

### (3) Course content:

Course title	Code	Hours/ lectures	Credit hours
-Blood circuit -Dialysis fluid circuit -The dialyzer -Product water for hemodialysis -Dialysis solution Preparation	FD3	9 9 9 9 9	3

**\*Clinical training 6hrs./w for 5 weeks(1 credit hour)**

### (4) Teaching methods:

- Online lectures and discussions.
- Training in dialysis units and their water processing units.

### (5) Assessment methods:

Online MCQs and EMQs exam after end of 2<sup>nd</sup> semester

### (6) References of the course:

#### Textbooks

- Handbook of hemodialysis 5<sup>th</sup> edition
- Oxford handbook of dialysis

#### Periodicals

- Advances in Chronic Kidney Disease.
- Nephrology, dialysis and transplantation.
- Scandinavian Journal of Urology and Nephrology.
- Seminars in Dialysis.
- The Internet Journal of Nephrology.

#### Web Sites:

- National Kidney Foundation
- Nephrology gateway
- ESNT virtual academy

**(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:**