COURSE SPECIFICATION

Renal dialysis

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) **Programme offering the course:**	Postgraduate MD degree of Internal Medicine
(2) **Final award / degree**	MD degree
(3) **Department offering the programme:**	Nephrology Unit, Internal Medicine Department
(4) **Department responsible for teaching the course:**	Nephrology Unit, Internal Medicine Department
(5) **Part of the programme:**	Second part
(6) **Course title:**	Renal dialysis
(7) **Course code:**	MED 510RD
(8) **Credit hours**	2hours
(9) **Total teaching hours:**	30 lecture

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- Give an in-depth medical and technical knowledge on dialysis
- Enable the candidates to apply principles of care of patients on dialysis.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1	Describe treatment options for End Stage Renal Disease.
A2	Discuss principles of hemodialysis in acute and chronic renal failure.
A3	Identify different types of vascular accesses and access complications along with management and care.
A4	Identify complications and emergencies associated with dialysis treatment.
A5	Discuss various medications used in hemodialysis
A6	Discuss nutritional needs in dialysis patients
A7	Explain the purpose of water treatment and identify the components of the water treatment systems as it relates to the hemodialysis facility
A8	Recognize methods of assessment of adequacy of dialysis

B- Intellectual skills

B1	Assess problems and complications of vascular access and demonstrate appropriate interventions.
B2	interpret different blood tests in hemodialysis patients
B3	Differentiate between different extracorporeal modalities.
B4	Monitor equipment function, interpreting and utilizing information provided.

(3) Course content:

Subjects	Lectures
End stage kidney disease (ESKD)	2
Management of ESKD and assessment of patients for dialysis	2
Temporary and permanent vascular access	1
Renal replacement therapy	2
Principles of haemodialysis	1
Dialysis machine and dialyser	1
Dialysate and water purification	1
Target weight , dialysis prescription and adequacy	1
Initiation, monitoring and troubleshooting dialysis complications	3
Related extracorporeal modalities (Hi flux,Haemoperfusion,Haemodialfiltration…)	1
Dialysis adequacy	1
Complication of ESKD: anemia	2

Complication of ESKD: bone miniral disorders	2
Complication of ESKD: infection	1
Complication of ESKD: cardiovascular diseases	1
Nutrition in dialysis	1
Dialysis in acute kidney injury	1
Dialysis in special situation(diabetics, eldery, pregnancy, surgery)	3
Drug prescribition in patients on dialysis	1
Transplantation for dialysis patients	1
Peritoneal dialysis	1
Total teaching hours	30

(4) Teaching methods:

4.1: Lectures
4.2: Small group discussion with case study and problem solving

(5) Assessment methods:

5.1:Written exam (20 marks), MCQ (5marks).

5.2:Oral examination (25 marks).

5.3:**Total mark:** 50

(6) References of the course:

6.1: Comprehensive clinical nephrology
6.2: Oxford handbook of dialysis

(7) Facilities and resources mandatory for course completion:

Lecture halls and data show.

Course coordinator: Prof.Dr. Nagy Abdelhady

Head of the department: Prof.Dr. Salah El gamal