



COURSE SPECIFICATION

Renal dialysis

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate Master degree of Internal Medicine
(2) Final award / degree	Master 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	1hours
(9) Total teaching hours:	15 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 basic 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

K1	Describe treatment options for End Stage Renal Disease.
K2	Discuss principles of hemodialysis in acute and chronic renal failure.
K3	Identify different types of vascular accesses and access complications along with management and care.
K4	Identify complications and emergencies associated with dialysis treatment.
K5	Discuss various medications used in hemodialysis
K6	Discuss nutritional needs in dialysis patients
K7	Explain the purpose of water treatment and identify the components of the water treatment systems as it relates to the hemodialysis facility
K8	Recognize methods of assessment of adequacy of dialysis

B- Intellectual skills

I1	Assess problems and complications of vascular access and demonstrate appropriate interventions.
I2	Demonstrate competence in the dialysis process.
I3	Differentiate between different extracorporeal modalities.
I4	Develop an understanding of pharmacology related to hemodialysis.

C-Professional/practical skills

P1	Develop skills in appropriate cannulation technique
P2	Demonstrate the connection and disconnection procedure for both temporary and permanent vascular access
P3	Carry out measures for identification, management and prevention of hemodialysis medical emergencies
P4	Be able to interpret different blood tests in hemodialysis patients
P5	Monitor equipment function, interpreting and utilizing information provided.

D- Communication & Transferable skills

T1	Cooperate in teams in management of complications related to hemodialysis.
T2	Learn & teach in groups during interpretation of patients data.
T3	Practice self appraisal in solving problems related to patients, work management.
T4	Learn skills for planning and organization of infection control measures during practice

(3) Course content:

Subjects	Lectures
Signs and symptoms of renal failure and their management	2
Renal replacement therapy	2
Principles of haemodialysis	1
Dialysis machine and dialyser	1
Blood test interpretation and management	1
Target weight , dialysis prescription and adequacy	1
Initiation, monitoring and troubleshooting dialysis complications	1
Related extracorporeal modalities	1
Medications in renal failure management	1
Temporary and permanent vascular access	1
Nutrition in dialysis	1
Dialysis in acute kidney injury	1
Dialysis in special situation	1
Total teaching hours	15

(4) Teaching methods.

4.1: Lectures

4.2: Small group discussion with case study and problem solving

(5) Assessment methods.

5.1: Written exam (16 marks), MCQ (4marks).

5.2: Oral examination (20 marks).

5.3: **Total mark: 40**

(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