



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Renal nutrition Fellowship(fRN)
(2) Part of the programme:	Semester 2
(3) Date of last approval of programme specification by Faculty council	9/8/2016
(4) Course title:	1. Nutritional care process and assessment 2. Vitamins, minerals and trace elements requirements in kidney disease 3. Enteral and parenteral nutritional support in renal disease
(5) Course Code	fRN2
(6) Total teaching hours:	8 credit hours

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- Gives information about nutritional care process and assessment
- Spots lights on vitamins, minerals and trace elements requirements in kidney disease
- Gives a deep understanding of enteral and parenteral nutritional support in renal disease

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

- a6 Explain dietary assessment in renal disease .
- a7 State different modalities of anthropometric assessment in renal disease
- a8 Recognize methods of biochemical nutritional evaluation in renal disease and nutritional adequacy
- a9-** Recognize rationale and approach to physical nutritional assessment
- A17. Recognize vitamins, minerals and trace elements requirements in renal disease
- A22. Recognize the indications, administration, monitoring and adverse effects of enteral and parenteral nutrition and intradialytic parenteral support

B- Intellectual skills:

- B2 Use personal judgment for analytical and critical problem solving and seek out information.
- B3 Construct appropriate management strategies (both diagnostic and therapeutic) for patients with different patterns of kidney disease.
- B4 Design an initial course of management for stabilization of patients with Renal disease.
- B5 Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.

C- Professional/practical skills

C1- Prepare nutritional plan tailored according to every renal patient needs

C2- Provide the maximum protective measures to avoid the risks of malnutrition in renal patients

C5- Perform bedside assessment of nutritional adequacy.

D- Communication & Transferable skills

D1. Use Evidence Based Medicine in management decisions.

D2. Work effectively within the health care team.

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

(3) Course content:

Course title	Code	Hours/ lectures	Credit hours
<u>1-Nutritional care process and assessment in renal disease</u>	fRN2		6
Dietary intake assessment(methodology,applications)		8	
Anthropometric assessment		8	
Biochemical nutritional assessment		8	
Nutritional physical assessment		8	
<u>2-Vitamins, minerals and trace elements requirements in kidney disease</u>			
Vitamin B complex		5	
Fat soluble vitamins		5	
Folic acid		2	
Homocysteine		1	
Pantothenic acid		1	
Vitamin C		2	
Trace elements(copper, zinc, selenium, molybdenum, Magnesium, manganese)		5	
<u>3-Enteral nutritional support in renal disease</u>			
➤ Definition and Purpose	1		
➤ Goals of EN Therapy	1		
➤ Indications for EN	1		
➤ Delivery of EN Therapy	1		
➤ Selection of Formula	4		
▪ Nephrotic Syndrome			
▪ Acute Kidney Injury			
▪ Chronic Renal Failure			
▪ Hemodialysis			
➤ Administration of Enteral Formula	2		
➤ Monitoring and Adverse Reactions	2		
➤ Transitional Enteral Feedings	1		
<u>4- Parenteral nutritional support in renal disease</u>			
➤ Indications	1		
➤ Goals of Parenteral Nutrition	1		
➤ Delivery of Parenteral Nutrition	1		

➤ Administration of Parenteral Nutrition		2	
➤ Monitoring Parenteral Nutrition		1	
➤ Adverse Reactions		1	
➤ Transitional Feedings		1	
<u>5- Intradialytic parenteral nutrition</u>			
➤ Introduction and Goal of Therapy		1	
➤ Definition		1	
➤ Malnutrition: Causes and Management		4	
➤ Criteria		1	
➤ Formulations		3	
➤ Delivery Methods		2	
➤ Advantages and Disadvantages		2	
➤ Team Approach to Nutrition Support in Renal Disease		2	

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

(4) Teaching methods:

- 4.1: Online lectures with discussions, quizzes
- 4.2: Online problem –solving case scenarios
- 4.3: Clinical training in nephrology units.

(5) Assessment methods:

Online MCQs and EMQs exam after end of 2nd semester

(6) References of the course:

Textbooks

- Comprehensive clinical nephrology textbook
- Nutrition in Kidney disease, 2nd edition
- Basics of human nutrition

Websites

- The Nephron Information Center
- 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-ordinator.

Dr. Ahmed Mohammed Abd El Wahab

Date.