



## 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 3   |
| (3) Date of last approval of programme specification by Faculty council | 9/8/2016   |
| (4) Course title:   | 1.Nutritional management in patients receiving RRT and in AKI<br>2.Nutritional management in CKD |
| (5) Course Code   | fRN3   |
| (6) Total teaching hours:   | 8 credit hours   |

## **(B) Professional information**

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

The broad aims of the course are as follows:

- Address doctors about different nutritional requirements in patients with AKI
- Provide study modules designed to give candidates a sound understanding of nutritional support for those receiving RRT
- Provide information about nutritional management of patients with CKD

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

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

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

A10. Discuss nutritional requirements in renal patients with hypertension, DM, dyslipidemias and obesity

A11. Recognize nutritional support in patients on dialysis(HD,PD) and factors affecting it

A12. Show good understanding of nutritional support in patients receiving renal transplant and factors affecting it

A13. Explain definition, causes, assessment, consequences and treatment of protein energy wasting.

A14. Recognize details of nutrition management of the AKI patients

A15. Show good knowledge about patho-physiology of CKD-MBD, presentations, assessment and management

A16. Explain potential benefits and risks of physical activity in renal patients

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

B1 Utilize available resources to achieve adequate nutritional support for renal patients.

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**

C3- Diagnose of common and life threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum.

C4- Write competently and evaluate professional reports and referral letters related to his specialty

C5- Perform bedside assessment of nutritional adequacy.

**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 |
|--|------|----------------|--------------|
|  | fRN3 |                | 6            |
| <b><u>1-Nutritional management in CKD</u></b>    |      |                |              |
| • Hypertension                                   |      | 8              |              |
| • DM   |      | 10             |              |
| • Dyslipidemias                                  |      | 6              |              |
| • Obesity  |      | 6              |              |
| • Protein energy wasting                         |      | 10             |              |
| • Bone & mineral disorders                       |      | 10             |              |
| • Physical activity & exercise                   |      | 6              |              |
| <b><u>2- Nutritional management with RRT</u></b> |      | 9              |              |
| • Dialysis(HD, PD)                               |      | 9              |              |
| • Transplantation (pre, post, and late )         |      |                |              |
| <b><u>3- AKI</u></b>                             |      |                |              |
| • Assessment                                     |      | 3              |              |
| • Oral supplements                               |      | 1              |              |
| • Special nutritional support (tube feeding)     |      | 3              |              |
| • Parenteral support                             |      | 4              |              |
| • Nutritional requirements                       |      | 5              |              |

**\*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

**Assessment methods:**

–Online MCQs and EMQs exam after end of 3<sup>rd</sup> semester.

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

**Textbooks**

- Brenner’s textbook of nephrology.
- Handbook of hemodialysis 5<sup>th</sup> edition
- 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.
- Oxford textbook of clinical Nephrology
- Shaul El-Massry textbook of nephrology.
- Nutrition in Kidney disease, 2<sup>nd</sup> edition
- Basics of human nutrition

**Periodicals**

- Advances in Chronic Kidney Disease.
- American Journal of Hypertension.
- American Journal of Kidney Diseases.
- Clinical nephrology.
- Current Opinion in Nephrology & Hypertension.
- Journal of the American Society of Nephrology.
- Kidney International.

- Nephrology, dialysis and transplantation.
- Nephron Clinical Practice.
- Nephron Experimental Nephrology
- Scandinavian Journal of Urology and Nephrology.
- Seminars in Dialysis.
- Seminars in Nephrology
- The Internet Journal of Nephrology.

***Web Sites:***

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

**(6) 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

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Course co-ordinator:

Dr. Ahmed Mohammed Abd El Wahab

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Date: