



## COURSE SPECIFICATION

### (Stem cell transplants)

Faculty of Medicine- Mansoura University

#### (A) Administrative information

|   |  |
|---|--|
| (1) Programme offering the course.                                      | Postgraduate Master degree of Medical Oncology |
| (2) Department offering the programme.                                  | Internal Medicine Department                   |
| (3) Department responsible for teaching the course.                     | Medical Oncology Unit                          |
| (4) Part of the programme.  | 2 <sup>nd</sup> part                           |
| (5) Date of approval by the Department's council                        | 2/08/2016                                      |
| (6) Date of last approval of programme specification by Faculty council | 9/8/2016                                       |
| (7) Course title.   | Stem cell transplants                          |
| (8) Course code.  | MONC 510 SCT                                   |
| (9) Total teaching hours.   | 30 hours/15 Weeks                              |

## **(B) Professional information**

### **1) Course Aim.**

The broad aim of the course are as follows.

To provide the candidate with basics and principles of stem cell transplantation with special emphasis on preparation the patient for the procedure and management of the complications.

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

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

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

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

- A1. Identify the types of stem cell transplantation, complications of the transplant and supportive care.
- A2. Identify steps of immune reconstitution.
- A3. Define GVHD (acute and chronic), and its management.
- A4. Explain indications of stem cell transplantation.

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

- B1. Differentiate between different types of complications of stem cell transplantation.
- B2. Compare between different stages of infection post-transplant & between acute and chronic GVHD.
- B3. Differentiate between indications of allogenic and auto SCT.

### 3) Course content.

| Subjects   | Lectures | Clinical | Laboratory | Seminars | Total Teaching Hours |
|--|----------|----------|------------|----------|----------------------|
| 1) Biological properties of hematopoietic stem cells                       | 4h       |          |            |          | 4h                   |
| 2) Immunogenetics of allogeneic HSCT                                       | 2h       |          |            |          | 2h                   |
| 3) Choice of the donor according to HLA typing and stem cell source        | 2h       |          |            |          | 2h                   |
| 4) Principles of conditioning  | 2h       |          |            |          | 2h                   |
| 5) Transfusion support in patients undergoing HSCT                         | 2h       |          |            |          | 2h                   |
| 6) Supportive care   | 2h       |          |            |          | 2h                   |
| 7) Early complications after HSCT  | 2h       |          |            |          | 2h                   |
| 8) Infections after HSCT   | 3h       |          |            |          | 3h                   |
| 9) Graft-versus-host disease   | 2h       |          |            |          | 2h                   |
| 10) Immune reconstitution after allogeneic HSCT                            | 3h       |          |            |          | 3h                   |
| 11) Late effects in patients treated with HSCT                             | 4h       |          |            |          | 4h                   |
| 12) Indications for and current practice of allogeneic and autologous HSCT | 2h       |          |            |          | 2h                   |

### 4) Teaching methods.

#### 4.1 Power point presentation

### 5) Assessment methods.

5.1. Written exam for assessment of A1-4 , B1-3 ,

5.2. MCQ exam for assessment of A1-4 , B1-3

Percentage of each Assessment to the total mark.

|               |          |                    |
|---------------|----------|--------------------|
| Written exam: | 80 marks | 80% of total exam. |
| MCQ exam      | 20 marks | 20% of total exam. |

## 6) References of the course.

### 6.1 Hand books:

The 2012 revised edition of the EBMT-ESH Handbook on Haematopoietic Stem Cell Transplantation (J. Apperley, E. Carreras, E. Gluckman, T. Masszi)

## 7) Facilities and resources mandatory for course completion.

- Lectures Halls.
- Data show.

Course coordinator:

Prof. Sameh Shamaa

Prof. Tawfik Elkhodary

Dr. Ziad Emarah

Head of the department:

Prof. Salah El-Gamal

Date of First Approval: 22/12/2010

Date of Last Approval: 23/08/2016