



## COURSE SPECIFICATION

### Stem Cell transplantation

Faculty of Medicine– Mansoura University

#### (A) Administrative information

|   |   |
|---|---|
| (1) Program offering the course.                                      | <b>MD degree of cardiovascular medicine</b> |
| (2) Department offering the program.                                  | Cardiology Department                       |
| (3) Department responsible for teaching the course.                   | Cardiology Department                       |
| (4) Part of the program.  | 2 <sup>nd</sup> Part                        |
| (5) Date of approval by the Department`s council                      | <b>24-5-2016</b>                            |
| (6) Date of last approval of program specification by Faculty council | 9-8-2016                                    |
| (7) Course title.   | <b>Stem Cell transplantation</b>            |
| (8) Course code.  | <b>CARD 614 SCT</b>                         |
| (9) Total teaching hours.   | 15 hours                                    |
| (10) Credit hours   | 1 hours (15 Lecture & Seminars)             |

## **(B) Professional information**

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

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

**To provide the candidate with updated knowledge of pathogenesis , diagnostic and therapeutic modalities of Stem Cell transplantation.**

### **(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- Demonstrate indication, contraindications, precautions and complications of the stem cells transplantation
- A2- Illustrate stem cell delivery modalities
- A3- Describe rationale of stem cell in ischemic heart disease and acute MI

### **(3) Course content:**

| <b>Subjects</b>   | <b>Lectures</b> | <b>Seminars</b> | <b>Total Teaching Hours</b> |
|---|-----------------|-----------------|-----------------------------|
| <b>Basic of stem cells</b>  | <b>1 Hours</b>  | <b>1 Hours</b>  | <b>2</b>                    |
| <b>Stem cell delivery modalities</b>  | <b>2 Hours</b>  | <b>2 Hours</b>  | <b>4</b>                    |
| <b>Cardiovascular cell therapy overview</b>   | <b>2 Hours</b>  | <b>1 Hours</b>  | <b>3</b>                    |
| <b>Stem cell in ischemic heart disease and AMI</b>                                  | <b>2 Hours</b>  | <b>2 Hours</b>  | <b>4</b>                    |
| <b>Basic of clinical imaging for assessing stem cell therapy (SCT) in the heart</b> | <b>1 Hours</b>  | <b>1 Hours</b>  | <b>2</b>                    |
| <b>Total Times</b>  | <b>8</b>        | <b>7</b>        | <b>15</b>                   |

### **(4) Teaching methods:**

- 4.1: Lecture
- 4.2: Seminars

### **(5) Assessment methods:**

- 5.1: Written. (for assessment of knowledge skills)
- 5.2: MCQ. (for assessment of knowledge skills)

### **Assessment schedule:**

- 1-First Exam : MCQ at end of Attendance of the course .

2-Final Exam at end of course. Written exam

**Percentage of each Assessment to the total mark.**

1- MCQ Exam 6 marks

2-Written exam marks 24 marks

Total 30 marks

**(6) References of the course.**

6.1: Text books:

-Braunwald's Heart disease textbook of CVM

-Textbooks of Genetics

-Textbooks of Transplantations

6.3: Journals:

- New England journal of medicine -The Heart

- Journal of the American Collage of Cardiology - Circulation

6.3: Websites:

-Cardiosource -Medscape cardiology -Tctmed.com

-Escardio.org European society of Cardiology

6.1: Others:

**(7) Facilities and resources mandatory for course completion.**

**Lecture Halls**

**Well equipped non invasive cardiologic investigatory instruments.**

Course coordinator: Prof Dr Ayman AbdelSamad

Prof Dr Wael ElRefai

Head of the department: Prof Dr AbdelRazek Maaty

Date: 8/6/2016