



COURSE SPECIFICATION

(Interventional Radiology)

Faculty of Medicine- Mansoura University

(A) Administrative information

| | |
|---|--------------------------------|
| (1) Programme offering the course: | MD degree of Radiology program |
| (2) Department offering the programme: | Radiology Dpt. |
| (3) Department responsible for teaching the course: | Radiology Dpt. |
| (4) Part of the programme: | First part |
| (5) Date of approval by the Department's council | 28/6/2016 |
| (6) Date of last approval of programme specification by Faculty council | 9/8/2016 |
| (7) Course title: | Interventional radiology |
| (8) Course code: | RAD629AIR |
| (9) Total teaching hours: | 37.5 |

(B) Professional information

(1) Course Aims:

The broad aim of the course is to provide the students with the basic principles, procedures and clinical applications – whether diagnostic or therapeutic – of different interventional imaging modalities.

(2) Intended Learning Outcomes (ILOs):

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

A) Knowledge and Understanding

- A1. Describe interventional radiologic procedures in different body systems: biliary and vascular embolization procedures.
- A2. Name the suitable interventional instruments (catheters and cannulas) and embolizing material.
- A3. Describe radiation safety and protection measures during performing interventional procedures.
- A4. Discuss invasive interventional procedures and pre and postoperative follow up of emergency and life threatening illnesses.

B- Intellectual skills

- B1. Integrate clinical information with radiological interpretation to reach the appropriate diagnosis/ differential diagnosis.
- B2. Design the initial course of management for critical emergencies and traumatized cases.
- B3. Assemble available human and equipment resources in the field of study to achieve the search goals in a given time scale.

3) Course content.

| Subjects | Lectures | Clinical | Total Teaching Hours |
|---|----------|----------|----------------------|
| 1- General principles of embolization and chemoembolization | 2.5 | --- | |
| 2- Percutaneous needle biopsy and abscess drainage | 3 | | |
| 3- Pulmonary and bronchial artery embolization | 3 | | |
| 4- Carotid artery dilation and stenting | 3 | | |
| 5- Intracranial aneurysmal coiling | 3 | | |
| 6- Embolization of skull base tumors | 3 | | |
| 7- IVC filters. | 3 | | |
| 8- Obstructive uropathy and renal stones. | 3 | | |
| 9- Pelvic and obstetric hemorrhage. | 3 | | |
| 10- Interventional embolization and varicocele | 3 | | |
| 11- Liver and biliary tree | 3 | | |
| 12- Spleen (splenic artery embolization + trans-splenic pornography) | 2.5 | | |
| 13- Interventional management of portal hypertension | 2.5 | | |
| | | | 37.5 |

4) Teaching methods:

- 4.1. Lectures
- 4.2. Meetings
- 4.3. Case presentations
- 4.4. Video demonstrations

5) Assessment methods:

5.1: Written examination for assessment of knowledge and intellectual skills.

5.2: MCQ examination for assessment of knowledge and intellectual skills.

5.3: Log book for activities for assessment of: mainly for assessment of practical & transferable skills which are accepted through attending different conferences, thesis discussions, seminars, workshops, attending scientific lectures as well as self learning.

5.4: The supervisor requires certain assignments: meetings and case presentations that are evaluated and signed by the supervisors in the log book (without marks).

5.5: Meetings: the candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

Assessment schedule.

Assessment 1. written exam. week/month. 14/24

Percentage of each Assessment to the total mark.

Written exam: 100 %:

MCQ: ----

Other types of assessment: ----

Other assessment without marks: log book

6) References of the course:

6.1: Hand books:

6.2: Text books: - Textbook of Radiology and Imaging; David Sutton.

6.3: Journals: www.Radiographics.com
www.AJR.com

6.4: Websites: www.Radiolopolis.com
www.radiologyinfo.org

6.5: Others:

7) Facilities and resources mandatory for course completion.

- Lecture rooms: available in the department
- Facilities for image analysis
- Computers for data analysis
- Data show facilities
- Video demonstrators

Course coordinator:

P.D. Magdy Seteen

D. Eman Abd El Salam

D. Nehal ElBatooty

Head of the department: Prof.Dr/ Mahmoud Abd Elshaheed

Date: