



## **Program Specification for MD Degree:** **Diagnostic Radiology**

**Program type:** Single

**Program Code :** RAD924

**Department offering the program:** The Diagnostic and Interventional Radiology Department.

**Total Credit points:** 150 per year for assistant lectures  
75 per year for external candidates

**Academic year:** 2011-2012

**Program Coordinators:** Prof. Mohamed El Toukhy

Prof. Youssriah Yahia Sabri

Prof. Sameh Hanna

Lecturer Dr. Sally Emad

**External Evaluator:** Prof. Waheed Tantawy

### **I- Program Aim**

The program is a professional degree that enables specialized candidates in the area of diagnostic radiology to achieve satisfactory levels of knowledge and clinical background in all sub-specialties in radiology practice, interact with community problems, respect ethical values according to community culture, and promote their medical standards through engaging in continuing medical education. The program also aims to introduce the candidate to the scientific medical research.

### **II- Intended learning outcomes of program (ILOs)**

**1-Knowledge and understanding: By the end of the program the candidate should;**

- a) Distinguish the basic radiological appearances of different pathologies using different diagnostic modalities in radiology.
- b) Identify and discuss different diagnostic modalities in radiology needed to diagnose the nature of different lesions.

**2- Intellectual skills: By the end of the program the candidate should be able to:**

- a) Develop skills and audit methodology that are necessary to structure and perform research and audit under appropriate guidance.
- b) Review published articles critically and to perform effective literature searches on a given topic.
- c) Interpretation of the effective application of research findings in everyday practice will be also required.

**3. Professional and practical skills: By the end of the program the candidates should be able to;**

- a) Apply the different procedures competently and independently.
- b) Attaining experience in non-interpretative skills (risk management, patient safety, recognition and management of contrast reaction).

**4. General and transferable skills: By the end of the program the candidates should be able to:**

- a) Participation in reporting different radiological examinations which are taken during the general throughput of the normal working day of the department of radio-diagnosis.
- b) Performing any routine radiological procedure that might be booked during a normal working day.
- c) Attendance at and conducting clinico-radiological conferences and multidisciplinary meetings.
- d) Competence at reviewing studies on a workstation and familiarity with digital image manipulation and post-processing.
- e) Teaching and Training. Appraising and Assessing.

**f) Working with colleagues:**

- treating colleagues fairly
- working in teams
- leading teams
- arranging cover
- taking up appointments
- sharing information with colleagues
- delegation and referral
- assessing conduct or performance of colleagues.

**(g) Relationships with patients**

- obtaining consent
- respecting confidentiality
- maintaining trust
- good communication

**h) Probity**

- Dealing with problems in professional practice

- handling complaints and formal inquiries

### III. Academic standards

1. Academic reference standers: The academic standers of diagnostic radiology program is adopted and accredited by the departmental council
2. External References for Standards:
  - The curriculum of Radiology offered by the Royal College of Radiologists (England)
  - American Board of Radiology (ABR)

### IV. Program admission requirements

According to the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009), applicants should have a master degree in radio-diagnosis. Admission for the program is open during October. All applicants should pass a preliminary evaluation exam in radiology as a pre-requisite to register for the MD degree. The exam includes the essentials of diagnostic radiology (basic knowledge that every radiologist should know). It also reflects the individual practice.

### V. Program structure and contents

**Program duration:** No time limit

External candidates should have at least one year practical radiology training in the radiology department, Cairo University.

**Program structure:**

Credit points/ year: 150 for assistant lectures.

75 for external candidates.

Credit points for thesis defense: 50

Credit points for external candidates one year practical radiology training: 50

#### Radiology Courses

- Neuro-radiology
- Head end neck radiology
- Musculoskeletal radiology
- Cardiothoracic radiology
- Gastrointestinal radiology
- Genitourinary radiology
- Vascular imaging & intervention
- Breast imaging
- Pediatric radiology
- Oncologic radiology
- Intensive care radiology

- Emergency radiology

### **Specific subspecialty training**

The candidates can choose to have training in one more radiological sub-specialities.

### **M.D. Thesis:**

All M.D. degree candidates should prepare a thesis in diagnostic radiology.

The department and the ethical committees must approve the protocol of the research. The document includes a review part and a research part. The document supervised by one or more senior staff members and may include other specialties according to the nature of the research. The document should be evaluated and approved by a committee of three professors including one of the supervisors and an external professor. Thesis defense is mandatory before applying to the MD exam.

### **Scientific Activities:**

The candidates should participate in the scientific activities of the departments such as:

- Seminars (including recent topics and controversial issues) once weekly, candidates are expected to participate in the discussions.
- Attendance of Thesis discussions
- Attendance of the annual scientific meeting of the radiology department and the joint meetings with other departments.
- Attendance of the radiology conferences, workshops and refreshing courses.

<b>Scientific activity</b>	<b>Credit points</b>
Attending lecture	2
Attending thesis discussion	4
Attending weekly department meeting	2
Attending conferences	5
Attending workshops and refreshing courses	10
Presenting lecture	5
Scientific activity in radiology conference (presentation /organization)	20
Thesis defense	50
External candidates one year practical radiology training	50

Each activity is monitored and given credit points registered in a special section in the training logbook. The applicants should collect the required points before allowed to sit for M.D. exam.

## VI. Regulations for progression and program completion

After collecting the required credit points for the respective courses and the scientific activities, and completion of thesis defense, the candidate will be eligible to sit for the M.D. examination. The M.D. exam is offered twice yearly.

In case the candidate fails to pass the examination, he/ she may retake the exam after six months; The candidate will receive his degree after passing this final examination.

## VII. Assessment

### Supervision & Monitoring of the Training Program:

According to the Faculty of Medicine, Cairo University Bylaws for M.D. Training Programs a logbook will be kept for each candidate to document his/her participation in different scientific activities. The head of the department allows the candidates to undergo the final examination when they complete their training program and collect the credit points needed.

### A: Assessment Tools:

#### M.D. Radiology Exam

Two written exams (paper 1 short essay & paper 2 multiple choice questions). Oral exam and practical exam.

### B: ASSESSMENT SCHEDULE:

*The written exam will be held in May/ November (two days):*

*Day one: Radiology: paper 1 (3 hours)*

*Day two: Radiology: paper 2 (3 hours)*

*This will be followed by the practical and oral exams in separate days*

### C: WEIGHING OF ASSESSMENT: Marks allocated to courses

Written	Oral	Practical	Total
200 per paper (Total 400)	250	350	1000

### Remarks

It is mandatory to pass the written, oral and practical exams (Passing mark for the two written papers together is > 60%). Passing mark for oral and practical exams together is  $\geq$  60%).

## VIII. Evaluation of program intended learning outcomes

<b>Evaluator</b>	<b>Tool</b>	<b>Sample</b>
1. Senior Students	Questionnaire at the end of the program	All the M.D. candidates
2. Alumni	The faculty is currently developing an Alumni office for postgraduates	Not yet determined
3. Stakeholders	A meeting will be arranged during the annual conference of the department	Available representatives from: <ul style="list-style-type: none"> <li>• Army hospitals</li> <li>• National medical insurance</li> <li>• Medical syndicate</li> <li>• Ministry of health</li> </ul>
4. External Evaluators	Review the program and courses Attending the final exam.	Once before implementation Bi-annual report
5. Quality Assurance unit	Annual program review	

**Date of approval by department council** December 2011

**Signatures**     *Program Coordinator*

*Head of Department*

**Prof. Yousriah Yahia Sabri**

**Prof. Mohamed El Toukhy**

**Prof. Sameh Hanna**

**Lecturer Dr. Sally Emad**