



## **Program Specification for MD Degree in NEUROLOGY**

**Program type:** Single

**Department offering the program:** Department of neurology

**Program Code:** NEUR 900

**Total Credit points:** 270

**Academic year:** 2015/2016

**Date of approval:** septembre 2012

**Course coordinator:**

Prof. Dr. Shereen Fathi

Prof. Dr. Nervana El fayoumy

Prof Dr. Nirmeen Abdel Ghafar  
Ahmed

prof Dr. Marwa farghaly

Prof Dr. Amr Hassan

Dr. Mohamed Hegazy

### **I. Aim of the Program**

The program is a professional degree that enables candidates to be highly specialized in the area of Neurology. The candidates should achieve satisfactory levels of knowledge, clinical skills, and the ability to construct plan of management in Neurology, 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 upgrade the candidate ability in scientific medical research.

### **II. Intended Learning Outcomes of the Program (ILOs)**

**A. Knowledge and Understanding: By the end of the program the candidate should be able to:**

- 1. Comprehend the basic scientific knowledge related to Neuroscience**
- 2. Describe and Evaluate different Neurological disorders.**
- 3. Distinguish the basic pathology underlying different Neurological disorders.**
- 4. Understand concepts of Neurological laboratory procedures related to different Neurological disorders.**
- 5. Outlines recent advances in different neurological disorders and their management**

**B. Intellectual Skills: By the end of the program the candidate should be able to:**

1. Analyze symptoms & signs and construct a differential diagnosis for Neurological complaints.
2. Design an appropriate diagnostic plan for evaluation of Neurological complaints taking into consideration the nature of the clinical situation and the risks, benefits and costs to the patient.
3. Interpret the results of different investigations related to Neurological disorders.
4. Construct treatment plans for common, rare and emergency Neurological problems taking into account the cultural and individual needs.
5. Design a follow up plan and rehabilitation program for all patients.

**C. Professional and Practical Skills: By the end of the program the candidate should be able to:**

1. Collect clinical data.
2. Examine and identify signs of common and rare Neurological disorders.
3. Perform clinical procedures related to different Neurological disorders.
4. Offer proper medical treatment for different Neurological disorders.
5. Manage all Neurologic emergencies properly.

**D. General and Transferable Skills: By the end of the program the candidate should be able to:**

1. Communicate with the patients to gain their confidence.
2. Respond effectively to a patient's emotional and psychosocial concerns.
3. Communicate with other health care providers.
4. Appreciate team working.
5. Achieve Computer skills necessary to make use of medical data bases and use the internet for communication.
6. Show administrative skills that enable him to fulfill the work needed.
7. Show leadership skills that enable him to organize work and lead the junior and paramedical staff.
8. Understand different scientific methodologies and have critical reading abilities.
9. Write scientific article according to the basics of scientific research.

### **III. Academic standards**

**External References for Standards:**

A joint royal college for physician training board (JRCPT), NEUROLOGY SPECIALITY



**Table 1**

| Courses  |      | Credit Points |       | ILOs   |
|--|------|---------------|-------|--|
| Title  | Code | CPS           | Total |  |
| <b>COMPULSORY COURSES</b>  |      |               |       |  |
| Neurology  |      | 14            | 20    | A-1,2,3,4,5<br>B1,2,3,4,5<br>C1,2,3,4,5<br>D 1,2,3,4 |
| Physiology   |      | 3             |       | A 1  |
| Pathology  |      | 3             |       | A 3  |
| <b>ELECTIVE COURSES (choose 2 courses)</b>   |      |               |       |  |
| Scientific writing   |      | 0.5           | 1     | D 3,4,5,6,7  |
| Medical Ethics   |      | 0.5           |       |  |
| Communication Skills   |      | 0.5           |       |  |
| <b>SCIENTIFIC ACTIVITIES</b>   |      |               |       |  |
| Grand Rounds<br>Seminars.<br>Journal clubs.<br>Scientific meeting<br>Workshops.<br>Conferences.<br>Thesis discussion |      | 5             | 5     |  |
| Advanced Residency training program (Part 3)   |      | 35            | 35    | B 1,2,3,4,5<br>C1,2,3,4,5                            |
| <b>THESIS</b>  |      |               |       |  |
|  |      | 40            | 40    | D 8,9  |

**MD Thesis:**

All MD degree students should prepare a thesis in Neurology. The research and ethical committee must approve the protocol of the research. The thesis may include a review part and a research part. The thesis is supervised by one or more senior staff members and may include other specialties according to the nature of the research. The thesis should be evaluated and approved by a committee of three professors including one of the supervisors and an external professor.

**Scientific Activities:**

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

- Grand Rounds
- Journal clubs.
- Scientific meetings.
- Workshops.
- Conferences.
- Thesis discussions.

Each activity is monitored and given credit points registered in a special section in the logbook. Candidates should collect the required points before allowed to sit for final exam

NEUROLOGY MD DEGREE PROGRAM MATRIX

| Code     | Name   | A<br>Knowledge And Understanding |   |   |   |   | B Intellectual Skills |   |   |   |   | C<br>Professional And Practical Skills |   |   |   |   | D<br>Communication And Transferable Skills |   |   |   |   |   |   |   |   |
|----------|--|----------------------------------|---|---|---|---|-----------------------|---|---|---|---|--|---|---|---|---|--|---|---|---|---|---|---|---|---|
|          |  | 1                                | 2 | 3 | 4 | 5 | 1                     | 2 | 3 | 4 | 5 | 1                                      | 2 | 3 | 4 | 5 | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| NEUR 916 | Neurology<br>(Advanced course)   | X                                | X | X | X | X | X                     | X | X | X | X | X                                      | X | X | X | X | X  | X | X | X |   |   |   |   |   |
| NEUR 904 | PHYSIOLOGY   | X                                |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |
| NEUR 908 | PATHOLOGY  |                                  |   | X |   |   |                       |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |
| MED 2    | SCIENTIFIC WRITING   |                                  |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |   | X | X | X | X | X |   |   |
| MED 5    | MEDICAL ETHICS   |                                  |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |   | X | X | X | X | X |   |   |
| MED      | COMMUNICATION SKILLS <sup>6</sup>  |                                  |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |   | X | X | X | X | X |   |   |
|          | <b>SCIENTIFIC ACTIVITIES:</b><br>Grand Rounds<br>• Journal clubs.<br>• Scientific meetings.<br>• Workshops.<br>• Conferences.<br>• Thesis discussions. |                                  |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |
|          | Advanced residency training  |                                  |   |   |   |   | X                     | X | X | X | X | X                                      | X | X | X | X |  |   |   |   |   |   |   |   |   |
|          | MD THESIS  |                                  |   |   |   |   |                       |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   | X | X |

## **VI. Regulations for Progression and Program Completion**

After collecting the required credit points for the respective courses, the advanced residency training, the scientific activities, and the Thesis the student will be eligible to sit for the final examination. In case the student fails to pass the examination, he/she may resubmit for the next examination. The candidate will receive his/her degree after passing this final examination. MD degree should be obtained within a maximum of 6 years after registration date..

## **VII. Assessment**

### **A: Assessment Tools**

- **Supervision and Monitoring of Training Program**

According the Faculty of Medicine, Cairo University Bylaws for practical Training Programs, professors carry continuous assessment during the program. A practical training program logbook will be kept for each candidate to document all his/her practical activities as well as his/her participation in different scientific activities. The head of the department should allow the candidates to undergo the final examination when they complete their training program and collect the credit points needed.

- **Formal Assessment**

According the Faculty of Medicine, Cairo University Bylaws for Post Graduate Programs (July 2009). Students should be assessed at the end of the program

- **Neurology** : Three -hours written exam (including short assay and multiple choice questions) + oral exam + clinical exam
- **Physiology**: one and half hour written exam (including short assay and multiple choice questions) + oral exam
- **Pathology** : one and half hour written exam (including short assay and multiple choice questions) + oral exam

### **B: Assessment Schedule:**

*The written exam will be held in four days:*

*Day one: Neurology I (3 hours)*

*Day two: Neurology II (3 hours)*

*Day three: Case*

*Day four: Physiology and pathology (3 hours)*

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

**C: Weighing Of Assessment (Marks allocated to courses):**

**(50 marks for each credit point)**

| <b>Courses</b>  |                   | <b>Marks</b>   |             |             |              |
|-----------------|-------------------|----------------|-------------|-------------|--------------|
| <b>Code</b>     | <b>Title</b>      | <b>Written</b> | <b>Oral</b> | <b>C/P*</b> | <b>Total</b> |
| <b>NEUR 916</b> | <b>neurology</b>  | <b>300</b>     | <b>200</b>  | <b>200</b>  | <b>700</b>   |
| <b>NEUR 904</b> | <b>physiology</b> | <b>100</b>     | <b>50</b>   |             | <b>150</b>   |
| <b>NEUR 908</b> | <b>pathology</b>  | <b>100</b>     | <b>50</b>   |             | <b>150</b>   |
| <b>Total</b>    |                   |                |             |             | <b>1000</b>  |

**\* C: clinical exam; P: practical exam**

**Remarks**

- It is mandatory to pass all the papers of written exams separately.

**The passing mark in any written exam is  $\geq 60\%$ .**



## VIII. Evaluation of Program Intended Learning Outcomes

### Signatures

| <b>Evaluator</b>                       | <b>Tool</b>  | <b>Sample</b>   |
|--|--|---|
| 1. Senior Students                     | Questionnaire at the end of the program                                | All the PG students   |
| 2. Alumni                              | The faculty is currently developing an Alumni office for postgraduates | Not yet determined  |
| 3. Stakeholders                        | A meeting will be arranged during 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 program and courses<br>Attending the final exam                 | Once before implementation<br>Bi-annual report  |
| 5. College Quality Assurance committee | Annual program reviewer  |   |

Date of approval by department: **September 2012**

*Head of Department*  
**Prof. Dr. Azza Abbas Helmy**