



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Post graduate M D Neurosurgery
(2) Department offering the programme:	Neurosurgery
(3) Department responsible for teaching the course:	Neurosurgery
(4) Part of the programme:	Elective course
(5) Date of approval by the Department's council	13-5-2013
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Innovative Vascular Neurosurgery
(8) Course code:	NSUR 632 IVNS
(9) Total teaching hours:	30
(10) Credit hours	2 hours

(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)

- 1- Provide the candidate with the innovative surgical and endovascular approaches to tackle complex neurovascular lesions of the CNS.

(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 pathological features of cerebrovascular diseases.
- A2- Recognize the clinical presentation and diagnosis of complex neurovascular problems.
- A3-Identify principles of transcranial Doppler
- A4-Recognize principles of microdissection of complex aneurysms
- A5- Identify principles of endovascular treatment
- A6-Outlin basics for management of Dural arterio-venous fistula
- A7- outline basics of microanastmosis

2- Intellectual activities (I)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

B- Intellectual skills

B1- Interpret digital subtraction angiography and C T angiography

B2- Apply the recent advances in surgical management, endovascular

B3- - Analyze different modality in management of arterio-venous malformation

(3) Course content:

المقررات الإختيارية

مقرر إختياري واحد يشمل ١٥ محاضرة كل منها ساعتين

Credit hours = 2

Innovative Vascular Neurosurgery

Lectures:

- 1- Neurovascular imaging.
- 2- Transcranial Doppler ultrasonography and neurosonology.
- 3- Microsurgical management of individual cerebral aneurysms.
- 4- Microsurgical management of giant cerebral aneurysms.
- 5- Recent advances in endovascular surgery for haemorrhagic strokes.
- 6- Recent advances in endovascular surgery for ischemic strokes.
- 7- Infectious and traumatic cerebral aneurysms.
- 8- Comprehensive management of AVM.
- 9- Carotid cavernous and other dural AV fistulas.
- 10- AVM and fistulas of the spine.
- 11- Management of unruptured, multiple and familial aneurysms.
- 12- Vein of Galen malformation.
- 13- Moyamoya disease.
- 14- Management of dissections of the carotid and vertebral arteries.
- 15- Multimodality management of complex cerebrovascular lesions.

(4) Teaching methods:

- 4.1: Power point presentation.
- 4.2: Microteaching and self learning.

(5) Assessment methods:

5.1: Written exam. for assessment of A1, A2,A3.A4.A5 B1, B2.

5.2: MCQ exam. for assessment of A1, A2, B1, B2,B3,B4,B5

Assessment schedule.

Written exam. 32 marks.

MCQ exam. 8 marks.

(6) References of the course.

6.1: Journals: Journal of Neurosurgery, Neurosurgery and Stroke.

6.2: Websites: [www.neurosurgery on line .com](http://www.neurosurgeryonline.com)

6.3 text books vascular neurosurgery surgical techniques and
Neurointerventional Techniques

(7) Facilities and resources mandatory for course completion.

- Lectures
- Library
- Internet
- Journal Club

Course coordinator: **PROF. DR. Nabil Mansour Ali**
 Prof. Dr. Mohamed Ali Kassem

Head of the department: **PROF. DR. Nabil Mansour Ali**

Date: 13-5-2013