



COURSE SPECIFICATION

Pain Management

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Program offering the course.	Postgraduate Doctorate degree of Anesthesia and Surgical Intensive Care and pain management
(2) Final award / degree	MD degree
(3) Department offering the program.	Anesthesia and Surgical Intensive Care and pain management department
(4) Department responsible for teaching the course.	Anesthesia and Surgical Intensive Care and pain management department
(5) Part of the program.	Second part
(6) Date of approval by the Department's council	20/4/2016
(7) Date of last approval of program specification by Faculty council	9-8-2016
(8) Course title.	Pain Management
(9) Course code.	ANET 628 PM
(10) Credit hours	4 hours lecture/4 hours clinical
(11) Total teaching hours	60lecture / 120 clinical

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows.

- To provide the candidates with pain modulation strategies
- To provide the candidates with updated data and researches concerned with practice of pain
- To enable the candidates to practice recent advance in pain management

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1	Define pain, classification, pathway and pain modulation
A2	Discuss pain measurement
A3	Explain acute pain diagnosis and management
A4	Define chronic pain, types, mechanism, diagnosis and management
A5	Describe stepladder of cancer pain

A6	Explain pathophysiology, differential diagnosis and management of myofacial pain
A7	Discuss low back pain causes, diagnosis and management
A8	Describe pain, staging related to degenerative disc diseases, diagnosis and management
A9	Discuss causes, character, diagnosis and management of spinal canal stenosis
A10	Define failed back surgery syndrome, causes, clinical picture and management
A11	Explain types, causes, diagnosis and management of complex regional pain syndrome
A12	Describe phantom limb pain and its management
A13	Explain diabetic neuropathy and issues during management
A14	Discuss presentation and management of cauda equina syndrome
A15	Discuss causes, diagnosis, differential diagnosis and management of post-herpetic neuralgia
A16	Describe causes, diagnosis, differential diagnosis and management of trigeminal neuralgia
A17	Discuss types, indication, mechanism of action, side effects and technique of neural blockades

A18	Define indication, technique & complication of { brachial plexus block, axillary nerve block, radial n. block, median n. block, ulnar n. block, femoral n. block, obturator n. block, sciatic n. block, ankle n. block.
A19	Define indication, technique & complication of stellate ganglion block, celiac plexus block, splanchnic nerve block, hypogastric plexus block, ganglion impar block & intravenous regional anesthesia(Bier block)}
A20	Describe anatomy and method relevant to transversus abdominis plane block and thoracolumbar interface block

B- Intellectual skills

B1	Integrate data from different clinical tests in pain management
B2	Design an initial course of management of patients with acute or chronic pain.
B3	Analyze relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

C-Professional/practical skills

C1	Perform full physical examination of patients with acute and chronic pain
C2	Adjust suitable approach for management of acute and chronic pain
C3	Setup management plans for acute and chronic pain
C4	Develop skills in various blocks for pain relief

D- Communication & Transferable skills

D1	Adopt principles of scientific methods in pain management
D2	Learn skills for planning to interventional pain management

Course content:

Subjects	Lectures
1 - Anatomy of vertebral column, Epidural space, And dermatomal distribution.	6
2- Acute pain	7
3- Chronic pain	7
4-Pain measurement	4
5-Cancer pain	5
6-Myofacial pain	3
7-Low back pain	4
8-Failed back surgery syndrome	4
9-Complex regional pain syndrome	4
10-Postherptic neuralgia and trigeminal neuralgia	4
11- Diabetic neuralgia	4
11-Neural blockades	8
Total teaching hours	60

Practical.

Subjects	Clinical
Stellate ganglion block	15
Celiac plexus block	15
Splanchnic nerve block	10
Hypogastric plexus block	10
Ganglion impar block	10
Transversus abdominis plane block	10
Thoracolumbar interface block	10
Brachial plexus block	10
Axillary nerve block	10
Radial n. block, median n. block, ulnar n. block	8
Femoral n. block, obturator n. block, sciatic n. block, ankle n. block	8
Intravenous regional anesthesia (Bier block)	4
Total teaching hours	120

(3) Teaching methods.

4.1: Lectures

4.2: Power point presentation

4.3: Small group discussion with case study and problem solving

(4) Assessment methods.

Written exam: 48 Marks

MCQ exam: 12 Marks

Structured oral exam: 25 Marks

OSCE: 25 Marks

(5) References of the course.

6.1: Miller's anesthesia

6.2: Clinical anesthesiology 4th ed

(6) Facilities and resources mandatory for course completion:

Lecture halls and data show.

Course coordinator: Dr. Maged Talaat Salama

Head of the department: Prof.Dr. Mona Abdelglil hashish

Date: 20/4/2016