



## COURSE SPECIFICATION

### Anesthesia

Faculty of Medicine- Mansoura University

#### (A) Administrative information

(1) Program offering the course.	Postgraduate master degree of Anesthesia and Surgical Intensive Care and pain management
(2) Final award / degree	MSc
(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.	Anesthesia
(9) Course code.	ANET 528 AN
(10) Credit hours	9 hours lecture/10hours clinical
(11) Total teaching hours.	135 lecture/300 clinical

## **(B) Professional information**

### **(1) Course Aims:**

The broad aims of the course are as follows:

- To educate candidates about a detailed study about types of general anesthesia and types of regional anesthesia, mechanism of action, advantages and disadvantages
- To provide the candidates the relationship of basic pharmacology and physiology with anesthetic management for different body systems
- To provide the candidates with updated data and researches concerned with practice of perioperative (preoperative, intraoperative and postoperative) care.

### **(2) Intended Learning Outcomes (ILOs):**

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

#### **A- Knowledge and Understanding**

<b>A1</b>	Define causes, clinical picture, treatment, anesthetic management in (pulmonary hypertension, heart failure & shock).
<b>A2</b>	Describe anesthetic management in cesarean section, its risk & its effect on the fetus
<b>A3</b>	Describe anesthetic management for preterm labor.
<b>A4</b>	Discuss components of basic circuit, myocardial protection & perioperative (preoperative, intraoperative & postoperative) for cardiothoracic surgery.
<b>A5</b>	Explain anesthesia for high risk obstetric (pre-eclampsia & eclampsia), pathophysiological changes on different organs.
<b>A6</b>	Explain causes & management of (maternal Hg during labor & delayed

	recovery).
<b>A7</b>	Explain anesthesia for non-obstetric surgery during pregnancy; anesthetic problems and management.
<b>A8</b>	Discuss perioperative anesthetic management (preoperative, intra operative & postoperative), with( respiratory diseases, hypertension, ischemic heart diseases, craniotomy, head injuries, spinal surgery, patients with renal failure, TURP, ENT surgery, patients with GIT diseases, patients with liver diseases, D.M, thyroid diseases, pheochromocytoma, carotid endartrectomy, aortic surgery, thoracic surgery, myasthenia gravis, laparoscopic surgery, day case surgery, renal transplantation & liver transplantation ).
<b>A9</b>	Discuss perioperative care (preoperative, intra operative & postoperative), and anesthetic choice in valvular heart diseases.
<b>A10</b>	Explain causes, classification & anesthetic management of patient with heart block.
<b>A11</b>	Discuss classification, indication & anesthetic management with pacemaker.
<b>A12</b>	Discuss classification, anesthetic management of congenital heart diseases.
<b>A13</b>	Describe anesthetic management for cardiac tamponade.
<b>A14</b>	Discuss anesthetic problems & anesthetic management in obesity.
<b>A15</b>	Describe anesthetic management for (prematurity, congenital diaphragmatic hernia, trachea-esophageal fistula, hypertrophic pyloric stenosis, cleft lip & palate, sickle cell anemia & hemophilia).
<b>A16</b>	Discuss indication & methods of achievement of hypotensive anesthesia.
<b>A17</b>	Discuss types and causes of awareness during anesthesia.
<b>A18</b>	Describe clinical picture & anesthetic management in patients susceptible to malignant hyperthermia).
<b>A19</b>	List complication of patient positioning.

<b>A20</b>	Discuss indication, contraindication, factors affecting & complication of neuroaxial blocks.
<b>A21</b>	Define causes, types & physiological effect of hypothermia.
<b>A22</b>	Discuss pre-anesthetic, intra-anesthetic & post-anesthetic management for radiology.

### B- Intellectual skills

<b>B1</b>	Put history, physical finding and laboratory test findings into specific recording sheet.
<b>B2</b>	Use perioperative care for solving problems under anesthesia.
<b>B3</b>	Execute an anesthetic plan for different surgical procedures
<b>B4</b>	Manage problems during patient care

### C-Professional/practical skills

<b>C1</b>	Perform full physical examination of patients with acute and chronic clinical conditions appropriate to the age, gender, acute and chronic clinical conditions and record patients ' data appropriately for anesthetic fitness.
<b>C2</b>	Be able to interpret ECG.
<b>C3</b>	Develop skills in laryngoscopy, intubation, anesthetic machine and monitoring.

<b>C4</b>	Evaluate recovery of patients.
<b>C5</b>	Carry out first aid measures for injured and critically ill patients in emergencies.
<b>C6</b>	Adjust suitable measures for infection control

#### D- Communication & Transferable skills

<b>D1</b>	Cooperate in teams in management of complications according to scientific base.
<b>D2</b>	Learn & teach in groups during interpretation of X-rays, C.T.

#### (3) Course content:

Subjects	Lectures
<b>1-Anesthesia for Cardiovascular Disease</b>	8
<b>2-Anesthesia for Cardiovascular Surgery</b>	8
<b>3-Anesthesia for Respiratory Disease</b>	7
<b>4-Anesthesia for Thoracic Surgery</b>	6
<b>5-Anesthesia for Neurosurgery</b>	8
<b>6-Anesthesia for Neurological &amp; Psychiatric Diseases</b>	6
<b>7- Anesthesia for Renal Disease</b>	7
<b>8-Anesthesia for Genitourinary Surgery</b>	6

<b>9-Anesthesia for Hepatic Patients</b>	7
<b>10-Anesthesia for Endocrine Disease</b>	5
<b>11-Anesthesia for Neuromuscular Disease</b>	5
<b>12-Anesthesia for Ophthalmic Surgery</b>	5
<b>13-Anesthesia for Otorhinolaryngological Surgery</b>	4
<b>14-Anesthesia for Orthopedic surgery</b>	5
<b>15-Anesthesia for the Trauma Patient</b>	6
<b>16-Obstetric Anesthesia</b>	6
<b>17-Pediatric Anesthesia</b>	7
<b>18-Geriatric Anesthesia</b>	5
<b>19- Bariatric surgery</b>	6
<b>20- Ambulatory Anesthesia</b>	5
<b>21- Postoperative Complication</b>	5
<b>22-AXIAL BLOCKS: Subarachnoid, epidural and caudal</b>	8
<b>Total teaching hours</b>	135

**Practical:**

Subjects	Clinical
1-Airway management	50
2- Insertion of central venous catheter	40
3- Approach for ECG interpretation	40
4-Regional anesthesia	50
5-Infection control	40
6- Primary survey	40
7- Secondary survey	40
<b>Total teaching hours</b>	<b>300</b>

**(4) Teaching methods:**

**4.1: Lectures**

**4.2: Power point presentation**

**4.3: Small group discussion with case study and problem solving**

**(5) Assessment methods:**

**Written exam: 96 Marks**

**MCQ exam: 24 Marks**

**Structured oral exam: 50 Marks**

**OSCE: 50 Marks**

**(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