MANSOURA THORACIC ANAESTHESIA WORKSHOP

Mansoura City, Egypt

26th February, 2015

Submiited to be potentially endorsed by the

European Association of Cardiothoracic Anaesthesia (EACTA)

Organized by:

Department of Anaesthesia and Surgical Intensive Care in colloboration with the Continuous Medical Education Unit, College of Medicine, Mansoura University, Mansoura City, Egypt.

Overview

Have you ever had a patient who developed post-thoracic acute lung injury (ALI)?

ALI is a major cause of morbidity and mortality after thoracic procedures. The incidence of postoperative ALI has been reported to range from 2% to 7%. It is most likely that the etiology of post-thoracic surgery is multifactorial. Many intraoperative variables like as the selection of anaesthetics, fluid therapy, blood transfusion and ventilation strategies could influence the incidence of ALI after thoracic procedures. [1]

How frequently you note significant hypoxaemia during one-lung ventilation (OLV)?

Additionally, the incidence of hypoxaemia during OLV remains in roughly 5% to 10% of patient undergoing thoracic surgery, despite it has decreased over the last decade with the use of different ventilation modes and settings, recruitment maneuvers, or differential lung ventilation using CPAP, high frequency ventilation or others. [2]

Sometimes, challenges made in the conduct of a clinical management of one lung ventilation in the patients who necessitates the use of lungs isolation either in the theatres of thoracic anaesthesia or in the critical care units. Poor isolation techniques or inadequate training in the use of different modalities for ventilation techniques of may lead to a high incidence of morbidity and mortality.

The worldwide specialized congresses usually included Thoracic Anaesthesia Workshops which focus on the lung isolation rather than ventilation techniques. The **Mansoura Thoracic Anaesthesia Workshop** will focus on the clinical aspects and Hands-on training on the use of different lung isolation methods and ventilation settings during the OLV, in addition to the use of high frequency ventilation and differential lung ventilation techniques.

The **Mansoura Thoracic Anaesthesia Workshop** is structured around the different tricks and trips for proper lung isolation, one lung ventilation, and differential lung ventilation in the operative theatres and critical care units including hands on practice to gain the needed skills.

[1] Eichenbaum KD, Neustein SM. Acute lung injury after thoracic surgery. J Cardiothorac Vasc Anesth. 2010;24:681-690.

[2] Lohser J. Managing hypoxemia during minimally invasive thoracic surgery. Anesthesiol Clin. 2012;30:683-697.

Venue

Mansoura, which is the largest city in the **Nile Delta region**, is hosting the **Mansoura Thoracic Anaesthesia Workshop**. It will be held in the Skill Lab of the College of Medicine, Mansoura University, Mansoura City, Egypt.

Purpose and Structure

The purpose of the **Mansoura Thoracic Anaesthesia Workshop** is to provide participants with basic knowledge and to enhance their skills on the role of lung isolation, one lung ventilation, differential lung ventilation, and high frequency ventilation techniques in their clinical practice.

The **Mansoura Thoracic Anaesthesia Workshop** includes mini-lectures, interactive case-based discussion, and manikin-based skill stations. All activities will be in English Language. All candidates should attend the whole course lectures and skill stations to fulfill the requirements for the accredited certificate.

Objectives

- Develop a cadre of well-trained, experienced clinical practitioners whose expertise will foster better safe clinical performance into everyday practice in thoracic anaesthesia suits and in the critical care units.
- To train the anaesthetists, thoracic surgeons, and intensivists, on the skills needed to:
  - Recognize and resolve ventilation dilemmas in the clinical use of lung isolation tools, one lung ventilation, differential lung ventilation, and high frequency ventilation.
  - Use of different ventilation strategies to optimize oxygenation during the use of one lung ventilation, includes conventional, apneic, CPAP, PEEP, high frequency ventilation, and differential lung ventilation.
  - Expose clinical practitioners to the full spectrum of challenges in the clinical practice of one lung ventilation using different case-based scenarios problems, ranging from the use of the conventional ventilation techniques to the differential lung ventilation techniques, in the expectation that they will then want to improve all or a portion of their future careers to some aspect.

Targeted Audience

[1] Anaesthetists.
[2] Intensivists.
[3] Thoracic surgeons.
[4] Chest medicine (pulmonologists).

Faculty

Prof. Nabil Abd El Raouf, M.D.

Professor of Cardiothoracic Anaesthesia & Surgical ICU,
Mansoura University, Mansoura, Egypt.

Dr. Mohamed R. El Tahan, M.D.

Associate Professor of Cardiothoracic Anaesthesia & Surgical ICU,
Mansoura University, Mansoura, Egypt,
European Association of Cardio-Thoracic Anesthetists (EACTA) Thoracic Subcommittee.

Dr. Hany Taman, M.D.

Lecturer of Cardiothoracic Anaesthesia & Surgical ICU,
Mansoura University, Mansoura, Egypt.

Dr. Fatmah Lahloub, M.D.

Lecturer of Anaesthesia & Surgical ICU,
Mansoura University, Mansoura, Egypt.

Dr. Mohamed Adel, M.D.

Lecturer of Anaesthesia & Surgical ICU,
Mansoura University, Mansoura, Egypt.

Dr. Mohamed Ahmed Elmorsy.

Assistant Lecturer of Anaesthesia & Surgical ICU,
Mansoura University, Mansoura, Egypt.

Workshop Agenda

SCIENCE: ***Moderator: Prof. Nabil Abd El Raouf, M.D.***

10:00 – 10:15 –Opening and Introduction to the **Mansoura Thoracic Anaesthesia Workshop**.

Dr. Mohamed R. El Tahan, M.D.

10:15 – 10:45 –Double lumen endobronchial tubes [2015 Updates].

Dr. Mohamed Adel, M.D.

He would present an update about the common use of the double lumen tubes for lung isolation.

10:45 – 11:15 –Endobronchial blockers: When should be used?

Dr. Hany Taman, M.D.

This would include a review about the types, applications, and novel uses of the endobronchial blockers for lung isolation.

11:15 – 12:15 – Coffee break.

12:15 – 13:00 –**Invited Lecture:** Management of One Lung Ventilation, State of the Art. [Recent Updates in 2015].

Dr. Mohamed R. El Tahan, M.D.

Focus on the nightmare of acute lung injury as a major, uncommon complication with a high mortality following thoracic surgery. Summary for the evidence-based updated changes in the novel conventional one-lung ventilation strategies, differential lung ventilation during thoracic procedures and in the critical care unit in patients with asymmetrical lung disease, and high frequency ventilation during thoracic procedures and in critical care units.

13:00 – 13:30 – Challenges in One Lung Ventilation. Interactive Case Discussions.

Dr. Mohamed R. El Tahan, M.D.

13:30 – 14:15 – Lunch break.

ART: ***Moderator: Dr. Hani Taman, M.D.***

14:15 – 17:15 – Hands on Practice. (**01:30 hh:mm for each turn**)

Skill Stations 1 – 3 (42 candidates, 2 groups, 3 rounds for each group,) [**30 minutes for**

each skill station].

- Skill Station (1): Double lumen tubes and videolaryngoscopes, including C-MAC, Glidescope, Podol Airtraq, and Non-Channeled King Vision].

  Dr. Hany Taman, M.D.

  Dr. Mohamed Adel, M.D.

- Skill Station (2): Bronchial blockers.

  Dr. Mohamed R. El Tahan, M.D.

  Dr. Fatmah Lahloub, M.D.

- Skill Station (3): Thoracic Simulation (Differential lung ventilation).

  Dr. Mohamed R. El Tahan, M.D.

  Dr. Mohamed Elmorsy, M.D.

Accreditation

The **Mansoura Thoracic Anaesthesia Workshop** will be accredited by the Continuous Medical Education (CME) Unit of the College of Medicine, Mansoura University, Mansoura, Egypt.

The **Mansoura Thoracic Anaesthesia Workshop** will be endorsed by the European Association of Cardio-Thoracic Anesthetists (EACTA).

Fees

	Fees (EGP)
Mansoura University affiliated	**40**
Non-Mansoura University affiliated	**60**

Contact

For registration: Continuous Medical Education (CME) Unit, College of Medicine, Mansoura University, Mansoura, Egypt.

Any queries and registration, please contact the **Coordinator: Dr. Hani Taman, M.D.,** Mansoura Children Hospital, Cardiotoracic Anesthesia Unit, Mansoura University, Mansoura City, Egypt. Phone: 0100 828 8242. Email: hani_taman@yahoo.com.