

# Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

**Date: 7<sup>th</sup> September 2017**

**Time: 0825 – 1915 hrs;**

**Venue: Doctors Academy International Institute for Medical Education, St Michael's Centre, Cardiff**

## COURSE PROGRAMME

0815 - 0825      Registration

### MORNING SESSION

0820 - 0830      Welcome, Introduction and Format (Prof Stuart Enoch)

0830 - 0900      **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

0900 - 1000      **Respiratory system (Dr Teresa Evans)**

- Normal ventilatory cycle
- Controls of ventilation
- Causes and management of post-operative respiratory failure
- Indications for ventilatory support and weaning off ventilator
- Intermittent positive pressure ventilation
- Acute (adult) respiratory distress syndrome

1000 - 1100      **Cardiology (Mr Tom Combella)**

- Cardiac cycle
- JVP
- STEMI
- Arrhythmias
- Pre-op aspects including murmurs
- Valvular heart disease
- Congestive Cardiac Failure

1100 - 1120

Coffee Break

1120 - 1215      **Cardiothoracic Surgery (Mr Tom Combella)**

- Cardiothoracic surgery basics including CABG
- Valve replacement surgeries
- Lung cancer
- Pneumonectomies
- Thoracic trauma

- 1215 - 1250      **General Physiological Principles 2 (Dr Paul Morgan)**
- Sepsis
  - Septic shock

1250 - 1330      **Lunch Break**

## **AFTERNOON SESSION**

- 1330 - 1400      **General Physiological Principles 3 (Dr Paul Morgan)**
- Bleeding
  - Coagulation/Anti-coagulation

1400 - 1430      **Resuscitation, Temperature Regulation, and Hypothermia (Dr Paul Morgan)**

1430 - 1540      **Principles in the Management of Trauma and Fractures (Mr Rhys Morris)**

1540 - 1600      **Coffee Break**

- 1600 - 1640      **Central nervous system (Dr Paul Morgan)**
- Cerebral autoregulation
  - Causes and management of raised intra-cranial pressure including space-occupying lesions
  - Head Injury

1640 - 1705      **Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr Paul Morgan)**

- 1705 - 1750      **Management of Burns (Prof Stuart Enoch)**
- Assessment
  - Pathophysiology and principles of management
  - Inhalation burns
  - Fluids and Nutrition
  - Indications for referral

1750 - 1805      **Rhabdomyolysis (Prof Stuart Enoch)**

1805 - 1840      **Short topics in Surgical Critical Care (Prof Stuart Enoch)**

1840 - 1910      **Essentials of Microbiology (Prof Stuart Enoch)**

1915              **END OF COURSE!**