

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

Date: 12th April 2018
Time: 0825 – 1900 hrs;
Venue: School of Biosciences, Cardiff University

COURSE PROGRAMME

0815 - 0825 **Registration**

MORNING SESSION

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

0830 - 0930 **Physiological Principles in the Management of Trauma (Prof Stuart Enoch)**

- Long bone fractures
- Fracture neck of femur
- Pelvic fractures
- Polytrauma
- Compartment syndrome
- Nerve injuries

0930 - 1035 **Respiratory System (Dr Mike Argent)**

- 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

1035 - 1055 Coffee Break

1100 - 1200 **Cardiovascular System (Dr Gareth Scholey)**

- Cardiac cycle
- JVP
- STEMI
- Arrhythmias
- Cardiac failure and blocks
- Ionotropes

1205 - 1305 **Renal Physiology (Dr Gareth Scholey)**

- Basic physiology
- Renal autoregulation
- Renin-angiotensin system
- Types and management of renal failure

AFTERNOON SESSION

- 1340 - 1410** **General Physiological Principles 1 (Dr Paul Morgan)**
- Homeostasis, feedback loops
 - Applied acid-base balance
- 1410 - 1450** **General Physiological Principles 2 (Dr Paul Morgan)**
- Sepsis
 - Septic shock
- 1450 - 1520** **General Physiological Principles 3 (Dr Paul Morgan)**
- Bleeding
 - Coagulation/Anti-coagulation
- 1530 - 1600** **Resuscitation, Temperature Regulation, and Hypothermia (Dr Paul Morgan)**
- 1600 - 1630** **Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr Paul Morgan)**

- 1650 - 1730** **Management of Burns (Prof Stuart Enoch)**
- Assessment
 - Pathophysiology and principles of management
 - Inhalation burns
 - Fluids and Nutrition
 - Indications for referral
- 1730 - 1745** **Rhabdomyolysis (Prof Stuart Enoch)**
- 1745 - 1845** **OSCE topics (Prof Stuart Enoch)**
- Surgical Critical Care
 - Calcium Metabolism
 - Graphs
 - Neurophysiology
 - Spinal Cord Lesions
- 1845** **End of Course.**