

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

Date: 17th January 2019

Time: 0825 – 1900 hrs;

Venue: Shared Lecture Theatre (1st floor), 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 - 1040 **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

1040 - 1100 **Coffee Break**

1105 - 1135 **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

1135 - 1210 **General Physiological Principles 2 (Dr Paul Morgan)**

- Sepsis
- Septic shock

1210 - 1250 **General Physiological Principles 3 (Dr Paul Morgan)**

- Bleeding
- Coagulation/Anti-coagulation

AFTERNOON SESSION

1340 - 1420

Management of Major Burns (Prof Stuart Enoch)

- Assessment
- Pathophysiology and principles of management
- Inhalation burns
- Fluids and Nutrition
- Indications for referral

1425 - 1445

Rhabdomyolysis (Prof Stuart Enoch)

1445 - 1530

Spinal Cord Injuries and Cord Syndromes (Prof Stuart Enoch)

1530 - 1600

Infection and Surgical Microbiology (Prof Stuart Enoch)

1600 - 1620

Coffee Break

1625 - 1655

General Physiological Principles 4 (Dr Paul Morgan)

- Resuscitation
- Temperature Regulation
- Hypothermia

1700 - 1730

General Physiological Principles 5 (Dr Paul Morgan)

- Principles of Epidural Anaesthesia/Assessment
- Pain pathways
- Pre-op Assessment

1735 - 1805

Central nervous system (Dr Paul Morgan)

- Cerebral autoregulation
- Causes and management of raised intra-cranial pressure
- Management of Head Injury

1800 - 1845

OSCE topics in Surgical Critical Care (Prof Stuart Enoch)

1845

END OF COURSE!