

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

Date: 19th September (Thursday) 2019

Time: 0825 – 1915 hrs;

Venue: Physiology Lecture Theatre A, School of Biosciences, Cardiff University

COURSE PROGRAMME

0815 - 0820 **Registration**

MORNING SESSION

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

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

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

0930 - 1040 **Respiratory System (Dr T 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

1110 - 1140 **General Physiological Principles 1 (Dr P Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

1145 - 1215 **General Physiological Principles 2 (Dr P Morgan)**

- Sepsis
- Septic shock

1220 - 1300 **General Physiological Principles 3 (Dr P Morgan)**

- Bleeding
- Coagulation/anti-coagulation

AFTERNOON SESSION

1340 - 1420

Management of Major Burns (Prof S Enoch)

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

1425 - 1445

Rhabdomyolysis (Prof S Enoch)

1445 - 1515

General Physiological Principles 4 (Dr P Morgan)

- Resuscitation
- Temperature regulation
- Hypothermia

1515 - 1545

General Physiological Principles 5 (Dr P Morgan)

- Principles of epidural anaesthesia/assessment
- Pain pathways
- Pre-op assessment

1545 - 1605

Coffee Break

1605 - 1635

Central nervous system (Dr P Morgan)

- Cerebral autoregulation
- Causes and management of raised intra-cranial pressure
- Management of head injury

1635 - 1725

Spinal Cord Injuries and Cord Syndromes (Prof S Enoch)

- Vertebral fractures
- Cord compression; conus medullaris and cauda equina syndrome
- Spinal and neurogenic shock
- Autonomic nervous system and bladder dysfunction
- Spinal cord lesions and vascular conditions

1730 - 1800

Infection and Surgical Microbiology (Prof S Enoch)

- Tuberculosis
- Necrotising fasciitis

1800 - 1830

Calcium Metabolism and Its Role in Surgery (Prof S Enoch)

1830 - 1915

OSCE Topics and Scenarios in Surgical Critical Care (Prof S Enoch)

1915

END OF COURSE!