

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

Date: 19th January 2017 (Thursday)

Time: 0825 – 1830 hrs;

Venue: Physiology LT A, School of Biosciences, Sir Martin Evans Building, Cardiff University

COURSE PROGRAMME

0815 – 0825 **Registration**

MORNING SESSION

0825 – 0830 **Welcome, introduction and format (Stuart Enoch)**

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

- Homeostasis, feedback loops
- Applied acid-base balance

0900 - 0930 **General Physiological Principles 2 (Paul Morgan)**

- Sepsis
- Septic shock

0930 - 1040 **Respiratory system (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 - 1150 **Central nervous system (Paul Morgan)**

- Cerebral autoregulation
- Causes and management of raised intra-cranial pressure including space-occupying lesions
- Head Injury

1150 - 1245

Cardiology (Tom Combellack)

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

1245 - 1320

Lunch Break

AFTERNOON SESSION

1320 - 1410

Surgical ITU Physiology and Basics of CTh Surgery (Tom Combellack)

- Cardiothoracic surgery basics including CABG
- Valve replacement surgeries and anti-coagulation
- Inotropes
- Lung cancer, Pneumonectomies
- Thoracic trauma

1410 - 1440

Physiological Principles in the Management of Trauma – Part 1 (Lara Jayatilaka)

1440 - 1510

Physiological Principles in the Management of Trauma – Part 2 (Lara Jayatilaka)

1510 - 1530

Basic Science and Surgical Critical Care - Part 1 (Stuart Enoch)

1530 - 1550

Coffee Break

1550 - 1630

Management of Burns (Stuart Enoch)

- Assessment
- Indications for referral
- Pathophysiology and principles of management

1630 - 1700

General Physiological Principles 3 (Paul Morgan)

- Bleeding
- Coagulation/Anti-coagulation

1700 - 1730

Resuscitation, Temperature Regulation and Hypothermia (Paul Morgan)

1730 - 1750

Principles of Epidural Anaesthesia/Assessment; Pain pathways (Paul Morgan)

1800 - 1820

Short topics in Critical Care (Stuart Enoch)

1830

Feedback and End of Course.