

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

Date: 21st January 2016

Time: 0825 - 1900 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 (Mr Stuart Enoch)

0830 - 0930 **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

0930 - 1000 **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

1000 - 1030 **General Physiological Principles 2 (Dr Paul Morgan)**

- Sepsis
- Septic shock

1030 - 1050 Coffee Break

1050 - 1210 **Cardiovascular System (Dr Melvyn Jenkins-Welch)**

- Cardiac pressure cycle
- Control of cardiac output
- Blood pressure and its control mechanisms
- Arrhythmias
- Valvular heart disease
- Inotropes and their actions

- 1210 - 1245 **Gastrointestinal System (Dr Melvyn Jenkins-Welch)**
- Gut hormones
 - Intestinal obstruction
 - Pancreas
 - Nutrition

1245 - 1330 **Lunch Break**

AFTERNOON SESSION

- 1330 - 1430 **Physiological Principles in the Management of Trauma (Mr Stuart Enoch)**

- 1430 - 1500 **Management of Burns (Mr Stuart Enoch)**
- Assessment
 - Indications for referral
 - Pathophysiology and principles of management

1500 - 1520 **Coffee Break**

- 1520 - 1550 **General Physiological Principles 3 (Dr Paul Morgan)**
- Bleeding
 - Coagulation/Anti-coagulation

- 1550 - 1630 **Central nervous system (Dr Paul Morgan)**
- Cerebral autoregulation
 - Causes and management of raised intra-cranial pressure including space-occupying lesions
 - Head Injury

- 1630 - 1710 **Resuscitation, Temperature Regulation and Hypothermia (Dr Paul Morgan)**

- 1710 - 1740 **Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr Paul Morgan)**

- 1740 - 1820 **Surgical Critical Care (Mr Stuart Enoch)**

- 1820 - 1850 **Surgical Microbiology (Mr Stuart Enoch)**

- 1850 - 1900 **Summary and Feedback**

1900 END OF COURSE!