

Cardiff MRCS Part B OSCE Courses: Applied Surgical Sciences and Critical Care

DATE: 17th January 2013 (Thursday)

VENUE: Rooms 1.01 and 1.02, School of Biosciences, Cardiff University

Course Programme

0815 – 0825 : **Registrations**

MORNING SESSION

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

0830 - 0930 : **Cardiovascular System (Dr Melvyn Jenkins-Welch)**

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

0930 - 1030 : **Respiratory system (Dr Melvyn Jenkins-Welch)**

- 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
- Applied critical care physiology during the peri-operative period

Coffee Break: 1040 – 1100 hrs

1100 - 1140 : **Gastrointestinal system (Dr Melvyn Jenkins-Welch)**

- Post-operative ileus
- Nutrition
- Re-feeding syndrome

1140 - 1220 : **Bleeding and Coagulation (Dr Paul Morgan)**

- Bleeding and coagulation
- Blood transfusion

1220 - 1250 : **Sepsis and Shock (Dr Paul Morgan)**

- SIRS
- Sepsis
- Septic shock

Lunch Break: 1250 - 1320

AFTERNOON SESSION

- 1325 – 1425** : **Endocrine physiology (Dr Jason Seewoodhary)**
- Function of pituitary
 - Basic physiology of thyroid and parathyroid glands
 - Disorders of calcium metabolism
 - Basic physiology of adrenal gland and glucocorticoids
 - Glucose homeostasis and diabetes in surgery
 - Hypothyroidism and hyperthyroidism
 - Corticosteroids in surgery
- 1425 - 1500** : **Central nervous system (Dr Paul Morgan)**
- Cerebral autoregulation
 - Causes and management of raised intra-cranial pressure including space occupying lesions
- 15.00 – 16.00** : **Renal system (Dr Gareth Scholey)**
- Renal autoregulation
 - Renin-angiotensin system
 - Types and management of renal failure
 - Erythropoietin
- Coffee Break: 1600 - 1620 hrs**
- 1620 - 1645** : **Acid-Base Analysis (Dr Gareth Scholey)**
- Applied acid-base analysis
- 1645 - 1715** : **Thermoregulation and Pain (Dr Paul Morgan)**
- Thermoregulation
 - Epidural anaesthesia
 - Management of pain
- 1715 - 1730** : **Structure of OSCE (Dr Paul Morgan)**
- 1730 - 1805** : **Burns (Mr Stuart Enoch)**
- Assessment
 - Indications for referral
 - Pathophysiology and principles of management
- 1805 - 1900** : **Physiological aspects in the management of trauma (Mr Stuart Enoch)**
- 1900 - 1910** : **Summary and Feedback**
- 1915** : **END OF COURSE!**