

CARDIFF MRCS OSCE COURSES: Applied Surgical Sciences and Critical Care

DATE: 13th September (Thursday)
VENUE: E1.03, School of Biosciences 2, Cardiff University

Course Programme

0815 – 0825 : **Registrations**

MORNING SESSION

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

0830 – 0900 : **Bleeding and coagulation** (*Dr Paul Morgan*)

0900 - 0930 : **Resuscitation, sepsis and septic shock** (*Dr Paul Morgan*)

0930 - 1030 : **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
- Applied critical care physiology during the peri-operative period

COFFEE BREAK: 1030 – 1050 HRS

1050 – 1110 : **Central Nervous System** (*Dr Paul Morgan*)

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

1110 – 1125 : **Management of Pain and Epidural Anaesthesia** (*Dr Paul Morgan*)

1125 – 1140 : **Hypothermia** (*Dr Paul Morgan*)

1140 – 1200 : **OSCE structure** (*Dr Paul Morgan*)

- 1200 – 1300 : **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

LUNCH BREAK: 1300 - 1340

AFTERNOON SESSION

- 1340 - 1410 : **Gastrointestinal system** (*Dr Jason Seewoodhary*)
- 1410 – 1440 : **Homeostasis, feedback loops and acid-base balance** (*Dr Gareth Scholey*)
- 1440 - 1510 : **Applied acid-base analysis** (*Dr Gareth Scholey*)

Coffee Break: 1510 - 1530 hrs

- 1530 – 1630 : **Renal system** (*Dr Gareth Scholey*)
- Renal autoregulation
 - Renin-angiotensin system
 - Types and management of renal failure
 - Erythropoietin
- 1630 - 1730 : **Cardiovascular System** (*Dr Jason Seewoodhary*)
- Cardiac pressure cycle
 - Control of cardiac output
 - Blood pressure and its control mechanisms
 - Inotropes and their actions
- 1730 - 1800 : **Burns** (*Mr Stuart Enoch*)
- Assessment
 - Indications for referral
 - Pathophysiology and principles of management
- 1800 - 1845 : **OSCE scenarios** (*Mr Stuart Enoch*)
- 1845 - 1900 : **Summary and Feedback**

1900: END OF COURSE!