

Applied Surgical Sciences and Critical Care Course for MRCS Part B OSCE

DATE: 19th April 2012 (Thursday)

VENUE: Physiology Lecture Theatre B, School of Biosciences 2, Cardiff University

Course Programme

0815 – 0825 : Registrations

MORNING SESSION

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

0830 - 0900 : Cardiovascular System (Dr Melvyn Jenkins-Welch)

Cardiac pressure cycle

Control of cardiac output

Blood pressure and its control mechanisms

Inotropes and their actions

0930 – 1010 : Central nervous system (Dr Madhan V Kumar)

Cerebral autoregulation

• Causes and management of raised intra-cranial pressure

Space- occupying lesions

1015 - 1045 : Bleeding and coagulation (Dr Melvyn Jenkins-Welch)

COFFEE BREAK: 1045 – 1100 HRS

1105 - 1205 : 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

1210 - 1245 : Resuscitation, sepsis and septic shock (Dr Melvyn Jenkins-Welch)

LUNCH BREAK: 1245 - 1325

AFTERNOON SESSION

1330 – 1400 : Gastrointestinal system (Dr Melvyn Jenkins-Welch)

Post-operative ileus

Nutrition

Re-feeding syndrome

1400 – 1430 : Homeostasis, feedback loops and acid-base balance (Dr Gareth Scholey)

1435 - 1505 : Applied acid-base analysis (Dr Gareth Scholey)

1505 – 1600 : 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

Hypothyrodism and hyperthyroidism

Corticosteroids in surgery

Coffee Break: 1600 - 1620 hrs

1620 – 1720 : Renal system (*Dr Gareth Scholey*)

Renal autoregulation

Renin-angiotensin system

Types and management of renal failure

Erythropoietin

1720 - 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!