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

Date: 15th January (Thursday) 2015

Time: 0825 - 1915 hrs;

Venue: C01.13, School of Biosciences, Sir Martin Evans Building, Cardiff University

Course Programme

0815 – 0825	: Registration
	MORNING SESSION
0820 - 0830 0830 - 0900	 Welcome, introduction and format (Mr Stuart Enoch) General Physiological Principles 1 (Dr Paul Morgan) Homeostasis, feedback loops Applied acid-base balance
0900 – 0930	 : General Physiological Principles 2 (Dr Paul Morgan) • Sepsis • Septic shock
0930 - 1045	 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
1105 - 1135	 Coffee Break: 1045 - 1105 hrs General Physiological Principles 3 (Dr Paul Morgan) Bleeding Coagulation/Anti-coagulation
1135 - 1150	: Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr Paul Morgan)
1150 - 1250	: Cardiovascular System (Dr Jason Seewoodhary)
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- Cardiac pressure cycle
- Control of cardiac output
- Blood pressure and its control mechanisms
- Inotropes and their actions

Lunch Break: 1250 - 1330

AFTERNOON SESSION

1340 - 1440	:	 Endocrine physiology (Dr Jason Seewoodhary) Functions 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
1440 - 1520	:	 Burns (Mr Stuart Enoch) Assessment Indications for referral Pathophysiology and principles of management
1525 - 1555	:	 Central nervous system (Dr Paul Morgan) Cerebral autoregulation Causes and management of raised intra-cranial pressure including space- occupying lesions Head Injury
		Coffee Break: 1600 - 1620 hrs
1625 - 1655	:	Resuscitation, Temperature Regulation and Hypothermia (Dr Paul Morgan)
1700 - 1750	:	Physiological Principles in the Management of Trauma (Mr Stuart Enoch)
1830 – 1900	:	Essential Surgical Microbiology (Mr Stuart Enoch)
1900 - 1915	:	Summary and Feedback

1900: END OF COURSE!