

# MRCs Part A Course: Basic Sciences and Clinical Application

(Anatomy, Embryology, Physiology, Pathology, Microbiology, Principles of Surgery, Genetics, Statistics and Clinical Topics)

16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> February 2018  
School of Biosciences, Cardiff University

## Programme

### Day 1

#### SURGICAL AND APPLIED ANATOMY, AND SYSTEM SPECIFIC PATHOLOGY

0830 - 0840	Registration
0840 - 0850	Introduction and format of the Exam
0850 - 1030	Brachial plexus, arm, shoulder, scapula, back and rotator cuff (includes upper limb nerve injuries, palsies and shoulder pathologies)
1030 - 1110	Cubital fossa, forearm, flexor retinaculum and hand (includes carpal tunnel syndrome, ulnar nerve palsies, hand pathologies)
<b>1110 - 1130</b>	<b>Break for refreshments</b>
1130 - 1230	Thoracic wall; Mediastinum; Heart; Lungs; Oesophagus; Diaphragm
1230 - 1300	Vascular anatomy of thorax, head and neck and thorax (includes vascular access and chest drain insertion); Vascular Pathologies of Neck and Thorax
<b>1300 - 1340</b>	<b>Lunch</b>
1340 - 1420	Transpyloric plane, anterior abdominal wall and inguinal region (includes hernia and scrotal swellings)
1420 - 1440	Abdominal anatomy; Hollow and Solid Organs (includes bowel pathologies, colon cancer and segmental bowel resections)
1440 - 1530	Pelvis and Perineum
<b>1530 - 1550</b>	<b>Break for refreshments</b>
1550 - 1630	Lumbar and lumbosacral plexus
1630 - 1715	Femoral triangle, thigh, popliteal fossa; Lower leg, ankle and foot (includes lower limb nerve injuries, palsies, compartment syndrome and ankle injuries)
1715 - 1800	Revision of Day 1 and Sample Questions
<b>1800</b>	<b>End of Day 1</b>

## Day 2

### HEAD AND NECK ANATOMY, AUTONOMOUS NERVOUS SYSTEM, MICROBIOLOGY, CANCER PATHOLOGY, GENETICS AND STATISTICS

0830 - 0840

Registration

0840 - 1040

Skull base, Head, Scalp and Face; Surgical Pathologies of the Head and Face  
(includes parotid tumours)

**1040 - 1100**

**Break for refreshments**

1100 - 1230

Neck, Thyroid, Larynx, Pharynx, Tongue; Surgical Pathologies of the Neck

1230 - 1300

Autonomous Nervous System

**1300 - 1345**

**Lunch**

1345 - 1445

Essential topics in Microbiology, Tuberculosis and Necrotising Fasciitis

1445 - 1530

Statistics and its Surgical Application

**1530 - 1550**

**Break for refreshments**

1550 - 1630

Cancer pathology (Brain, Oesophagus and Lung)

1630 - 1700

Genetics and Inheritance Patterns

1700 - 1830

Revision of Days 1 and 2, and Sample Questions

1830

End of Day 2

## Day 3

### GENERAL PATHOLOGY, BENIGN AND MALIGNANT TUMOURS, PRINCIPLES OF SURGERY, AND APPLIED SURGICAL SCIENCES

0830 - 0930	Management of Trauma; ATLS Principles; Head Injury; Neurophysiology
0930 - 1000	Basic and General Pathology
1000 - 1025	Cardiorespiratory physiology
1025 - 1055	Pre-operative Assessment
1055 - 1115	Post-operative Complications and Management

#### 1115 - 1135 Break for refreshments

1140 - 1210	Fundamentals of Wound Healing; Reconstructive and Plastic Surgery
1210 - 1245	Principles of Local Anaesthetics; Tourniquets; Diathermy; Laparoscopic Surgery
1245 - 1300	Sutures, Suture Materials and Needles

#### 1300 - 1340 Lunch

1345 - 1415	Management of Burns
1415 - 1500	Lumps and Benign Lesions; Ulcers; Vascular Pathologies and Vascular Surgery
1500 - 1530	Cancers of Thyroid and Breast

#### 1530 - 1550 Break for refreshments

1550 - 1620	Melanoma and Testicular Cancers
1620 - 1650	Endocrine and Renal Physiology; Calcium Metabolism
1650 - 1815	Revision of all 3 days and Sample Questions

**1815 End of Course**