

**Cardiff MRCS OSCE Course:
Applied Surgical Sciences
& Critical Care**

Feedback - April 2017

Cardiff MRCS OSCE: Applied Surgical Sciences & Critical Care

In the final part of the MRCS exam, surgical trainees are expected to have a good working knowledge of general physiological principles as well as core knowledge of the physiology of specific systems and an understanding of their application in surgical practice.

This intensive one-day revision course provided the candidates with an overview of basic physiological principles and of the physiology of the respiratory, cardiovascular, renal, endocrine, gastrointestinal, and central nervous systems.

The interactive lectures were delivered in way which would help the candidates to answer the OSCE/viva stations in a structured, systematic and concise manner.

Course Information

Course date:	20th April 2017
Venue:	Doctors Academy International Institute of Medical Education Cardiff
Attendance:	28 Delegates
Aimed at:	Delegates looking to take their membership to the Royal College of Surgeons Part B exam.
Course fee:	£190.00



Surgical trainees can apply to be sponsored by ASiT to receive a bursary to attend this course.

Topics:

- General physiological principles
- Acid-base imbalance (metabolic and respiratory acidosis/alkalosis) and their management
- Fluid balance and fluid replacement therapy
- Renal physiology
- Bleeding and coagulation
- Management of sepsis and septic shock
- Homeostasis and thermoregulation
- Hypothermia
- Principles of epidural anaesthesia
- Gastrointestinal system
- Cardiovascular system and critical care
- Endocrine physiology
- Neurophysiology and management of head injury
- Burns



Course Programme

0815 - 0825 Registration

MORNING SESSION

0825 - 0830 **Welcome, Introduction and Format (Prof Stuart Enoch)**

0830 - 0900 **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

0900 - 1000 **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

1000 - 1100 **Cardiology (Mr Tom Combella)**

- Cardiac cycle
- JVP
- STEMI
- Arrhythmias
- Pre-op aspects including murmurs
- Valvular heart disease
- Congestive Cardiac Failure

1100 - 1120

Coffee Break

1120 - 1215 **Cardiothoracic Surgery (Mr Tom Combella)**

- Cardiothoracic surgery basics including CABG
- Valve replacement surgeries
- Lung cancer
- Pneumonectomies
- Thoracic trauma

1215 - 1250 **General Physiological Principles 2 (Dr Paul Morgan)**

- Sepsis
- Septic shock

1250 - 1330

Lunch Break

Course Programme

AFTERNOON SESSION

1330 - 1400	General Physiological Principles 3 (Dr Paul Morgan) <ul style="list-style-type: none">• Bleeding• Coagulation/Anti-coagulation
1400 - 1430	Resuscitation, Temperature Regulation, and Hypothermia (Dr Paul Morgan)
1430 - 1540	Principles in the Management of Trauma and Fractures (Mr Rhys Morris)
1540 - 1600	Coffee Break
1600 - 1640	Central nervous system (Dr Paul Morgan) <ul style="list-style-type: none">• Cerebral autoregulation• Causes and management of raised intra-cranial pressure including space occupying lesions• Head Injury
1640 - 1705	Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr Paul Morgan)
1705 - 1750	Management of Burns (Prof Stuart Enoch) <ul style="list-style-type: none">• Assessment• Pathophysiology and principles of management• Inhalation burns• Fluids and Nutrition• Indications for referral
1750 - 1805	Rhabdomyolysis (Prof Stuart Enoch)
1805 - 1840	Short topics in Surgical Critical Care (Prof Stuart Enoch)
1840 - 1910	Essentials of Microbiology (Prof Stuart Enoch)
1915	END OF COURSE!

Faculty List

Dr Paul Morgan, FRCA

Examiner - Royal College of Surgeons of England

Consultant Intensivist, Adult Critical Care

University Hospital of Wales, Cardiff

Professor Stuart Enoch, MB BS, PhD, PGCert (Med Sci), MRCSEd, MRCS (Eng)

Senior Lecturer; Director of Education & Research

Doctors Academy Group

Dr Teresa Evans, FRCA

Consultant Anaesthetist

Royal Gwent Hospital, Newport

Mr Tom Combellack MBBCh; MRCS

Speciality Registrar in Cardiothoracic Surgery

University Hospital of Wales, Cardiff

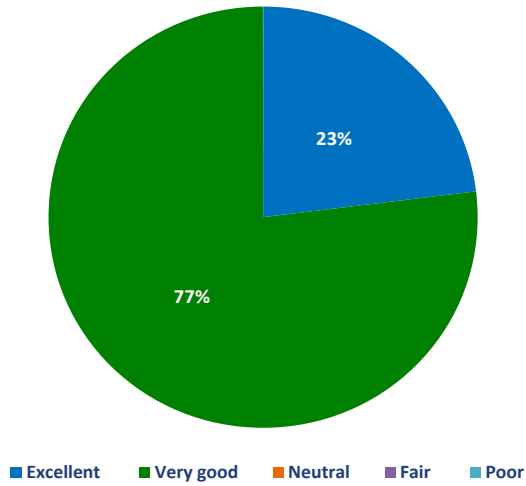
Mr Rhys Morris MBChB, BSC, MSc, MRCS, PGCMed Ed

Speciality Trainee in Trauma and Orthopaedics

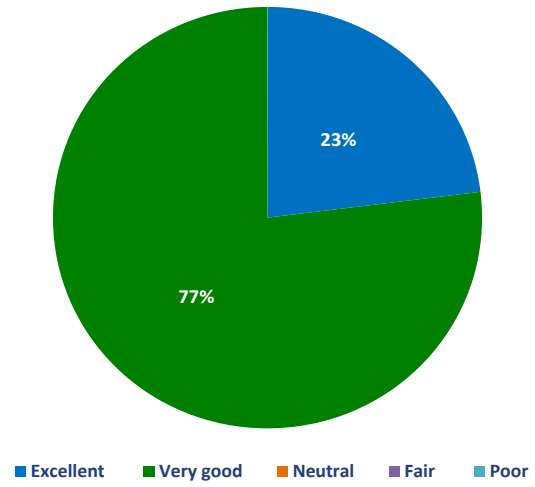
Wales Deanery

Overall Teaching Feedback

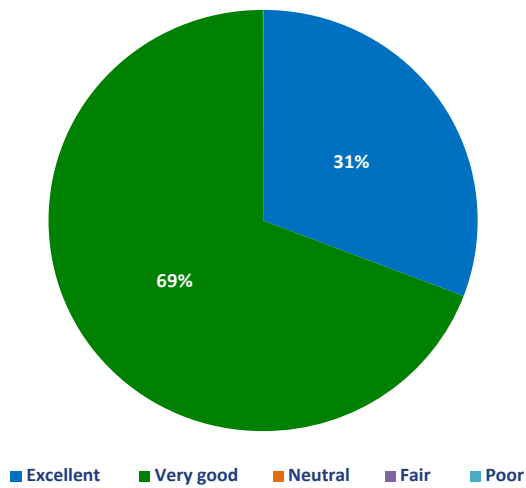
How was the content of the course?



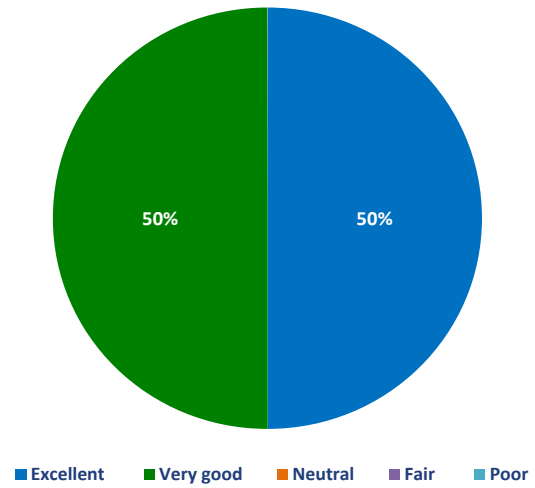
How was the clarity of presentations?



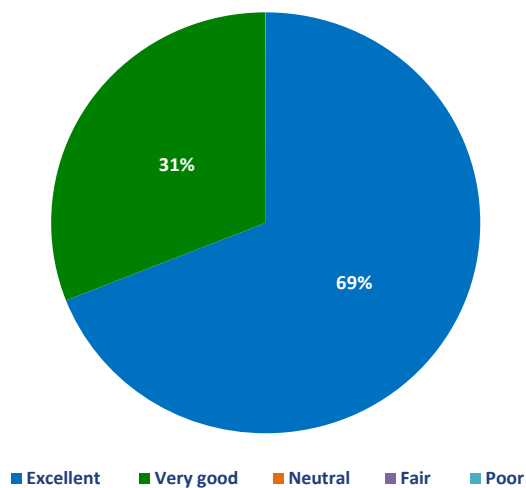
How do you rate the relevance of the course to your exam?



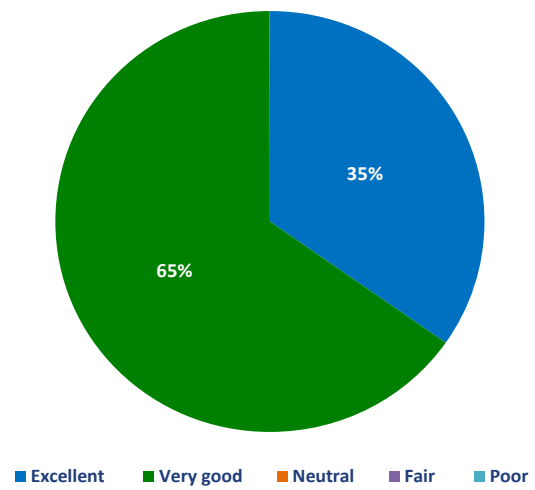
How would you rate the general academic standard of the lectures?



Homeostasis and Acid-Base Balance

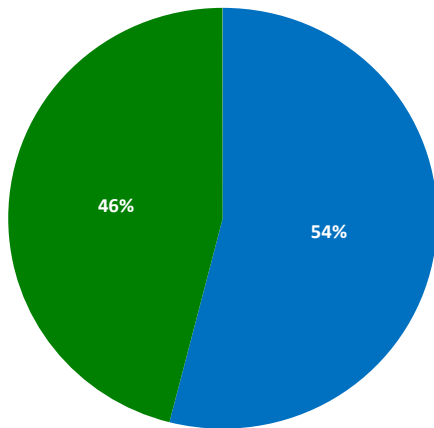


Respiratory Physiology



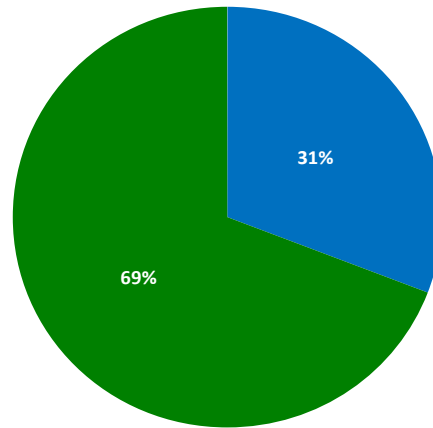
Overall Teaching Feedback

Cardiac physiology



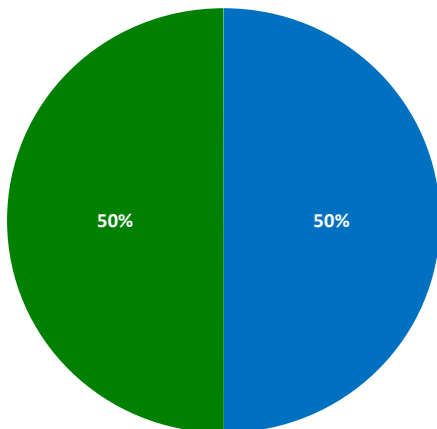
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Cardiothoracic Surgery Physiology



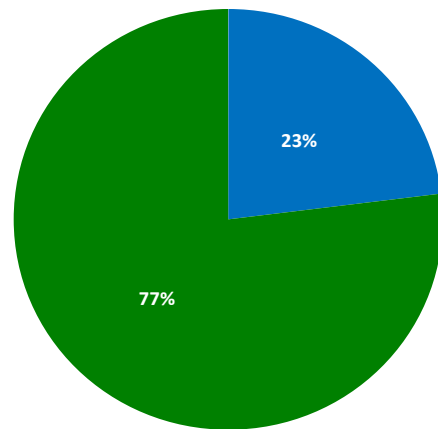
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Sepsis/Septic Shock



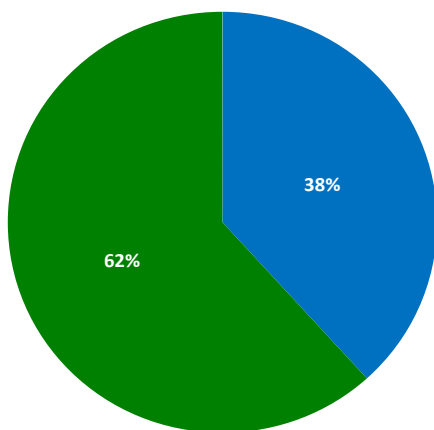
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Bleeding/Coagulation



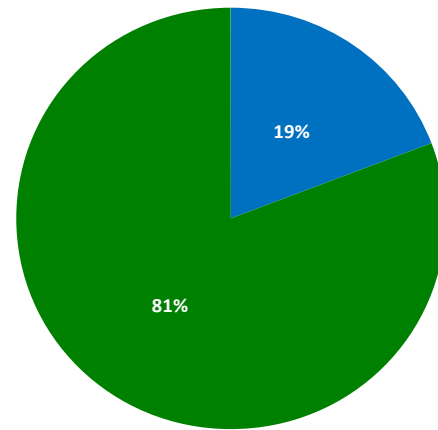
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Management of Trauma and Fractures



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

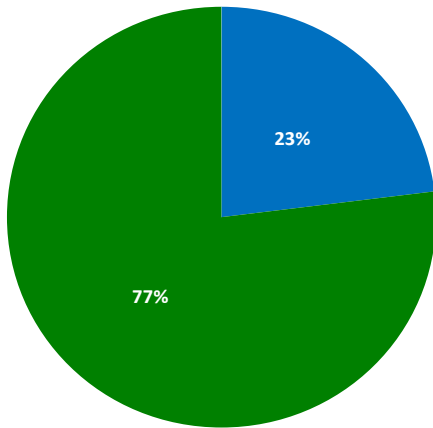
Neurophysiology



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

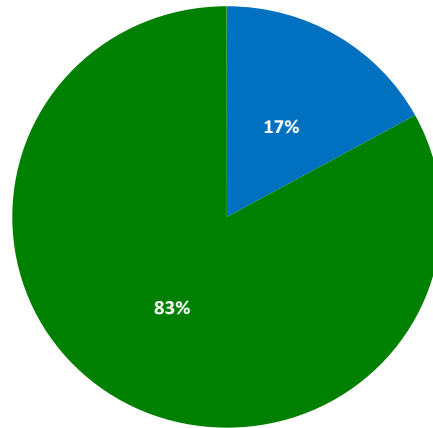
Overall Teaching Feedback

Epidural Anaesthesia



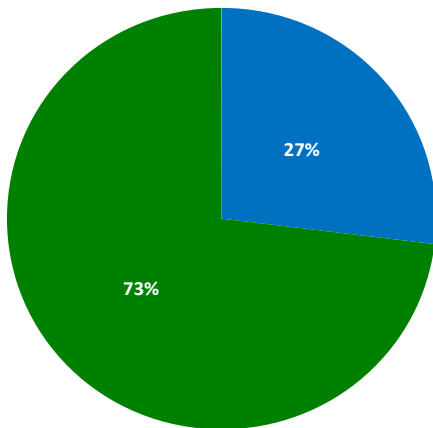
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Pain management



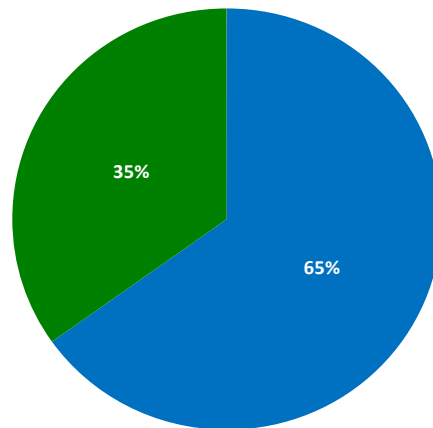
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Hypothermia



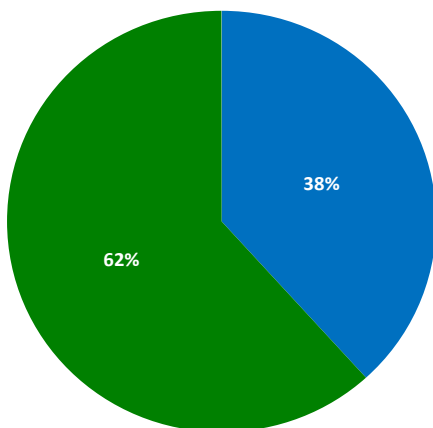
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Management of burns



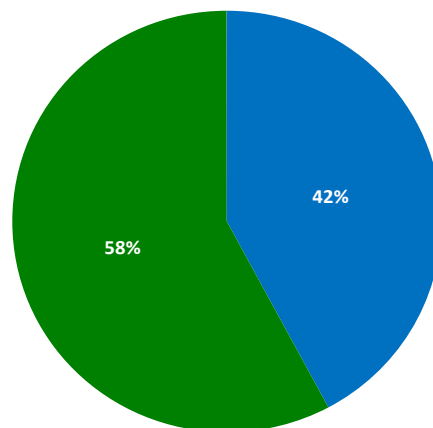
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Rhabdomyolysis



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

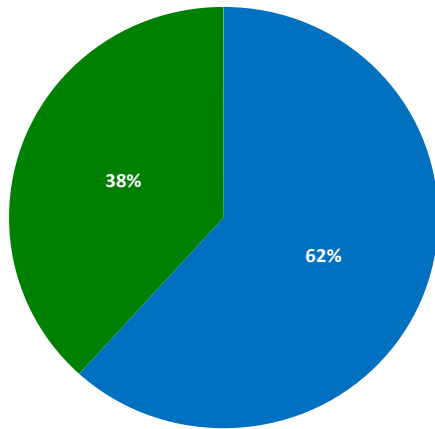
Fracture neck of femur



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

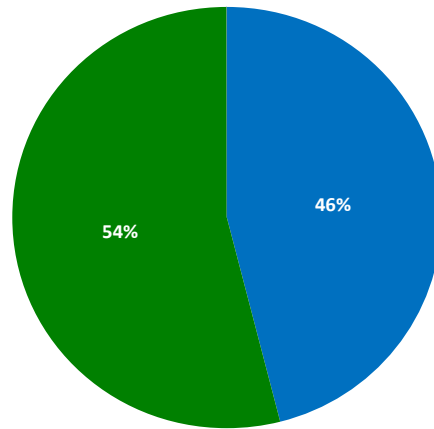
Overall Teaching Feedback

Surgical Microbiology



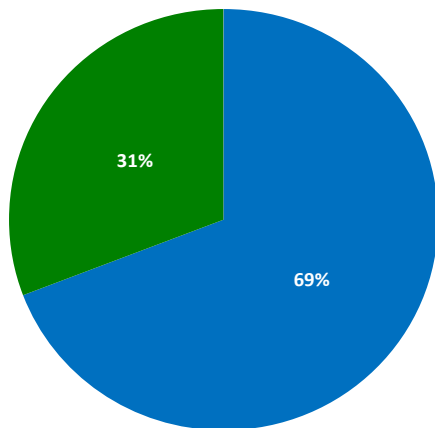
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Necrotising Fasciitis



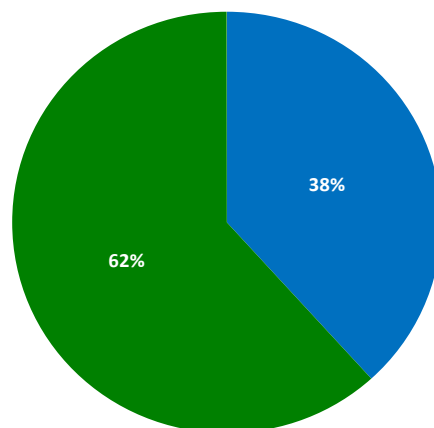
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Short topics in Critical Care



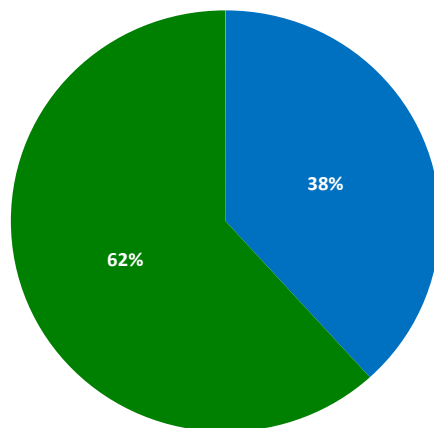
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Would you recommend this course to a friend?



■ Most certainly ■ Certainly ■ Neutral ■ Maybe ■ Don't think so

Do you think that this course provided good value for money?



■ Most certainly ■ Certainly ■ Neutral ■ Maybe ■ Don't think so

Individual Comments

Anatomy prosections were brilliant.

AC
Manchester Royal Infirmary, Manchester

Amazing.

CB
William Harvey Hospital, Ashford

Extremely good overview.

LT
Arrowe Park Hospital, Wirral

Very good, compact and targeted course.

RL
Derriford Hospital, Plymouth

Excellent. Fast pace, but appropriate for proximity to exam.

RM
Frimley Park Hospital, Frimley

Very useful for the exam revision and preparation.

AT
St George's Hospital (London), London

Intense, good topics.

TT
Kettering General Hospital, Kettering

Excellent.

BS
Addenbrooke's Hospital, Cambridge

The teaching was mostly focused on how to go through the stations which was very good. I feel a lot more confident having attended the course.

IP
Huddersfield Royal Infirmary, Huddersfield

Individual Comments

Very good.

DB
Royal Hallamshire Hospital, Sheffield

Excellent.

MW
Milton Keynes General Hospital, Milton Keynes

Very well executed course.

LG
John Radcliffe Hospital, Oxford

T+O and respiratory talks were really good.

LP
University Hospital of Wales, Cardiff



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Courses (a selection):

Undergraduate:

- Final Year Medicine and Surgical Revision Courses
- Training the Clinical Anatomy Trainer
- Clinical Anatomy as Applied to Trauma and Emergency Medicine
- Surgical Anatomy of Important Operative Procedures
- Future Surgeons: Key Skills (RCSEd delivered)
- Structured Introduction to Surgical Skills

Postgraduate:

- MRCS Part A
- MRCEM Part A
- MRCS Part B OSCE
- DOHNS: Intensive Revision & OSCE
- Intercollegiate Basic Surgical Skills (RCSEd delivered)
- MRCP PACES Part 2
- FRCS (General Surgery) Exit Exam
- Cadaveric Ultrasound-Guided Musculoskeletal Intervention Course
- Ultrasound-Assisted Botulinum Toxin Injection for Neuromuscular Disorders
- Live Advanced Laparoscopic Colorectal Course



Forthcoming key events:

- **International Medical Summer School**
Manchester, 31st July to 4th August 2017
- **International Academic and Research Conference**
Manchester, 5th August 2017
- **World University Anatomy Challenge**
Manchester, 4th August 2017

Publications



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Online Revision Resources

DoctorExams consists of 1000s of questions with detailed explanations in MCQ, EMQ, SBA and SAQ formats. Questions are written by the Doctors Academy group of experienced clinicians and clinical academics, with mock exams and feedback on performance included to aid a candidate's focused revision of topics. Based on past exams, these questions are carefully crafted to suit the requirements of undergraduate students & postgraduate trainees undertaking relevant speciality exams.

Resources for:

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- Dental Students
- International Entrance Exams
- MRCS Exams
- General Surgery Exams
- Plastic Surgery Exams
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