



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

Feedback - September 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:	7th September 2017
Venue:	Doctors Academy International Institute of Medical Education Cardiff
Attendance:	27 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

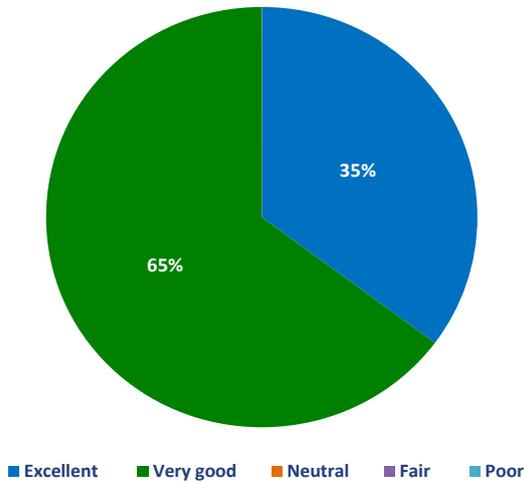
Mr Rhys Morris MBChB, BSC, MSc, MRCS, PGCMed Ed

Speciality Trainee in Trauma and Orthopaedics

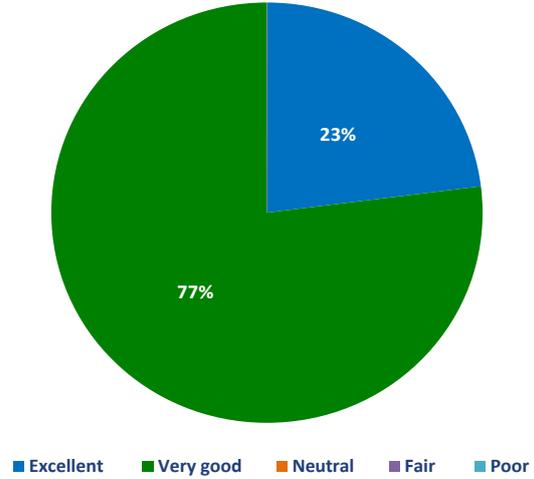
Wales Deanery

Overall Teaching Feedback

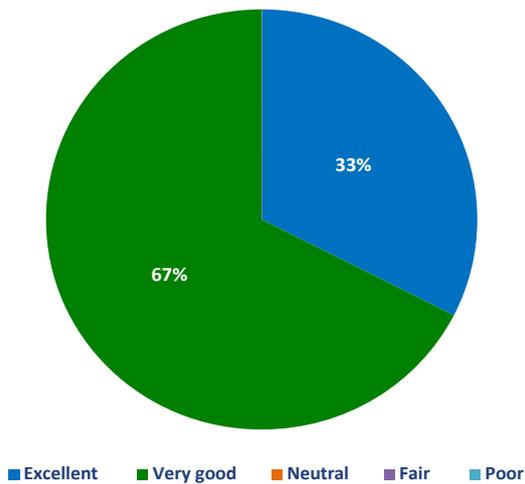
How was the content of the course?



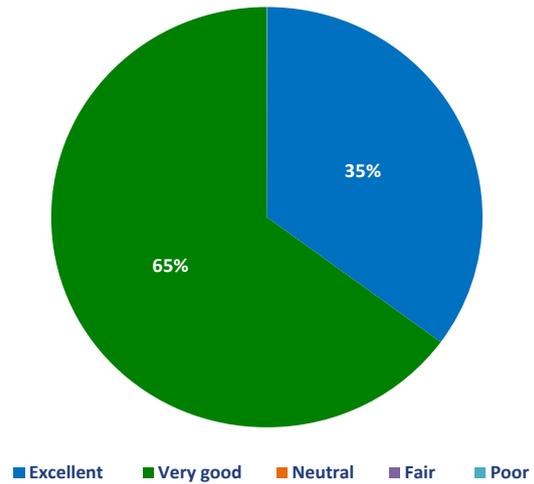
How was the clarity of presentations?



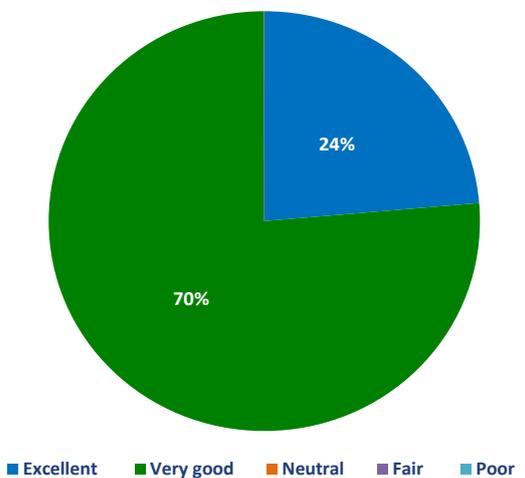
How do you rate the relevance of the course to your exam?



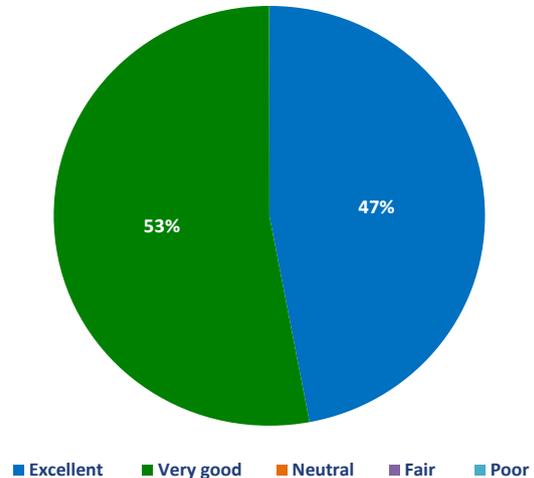
How would you rate the general academic standard of the lectures?



Homeostasis and Acid-Base Balance

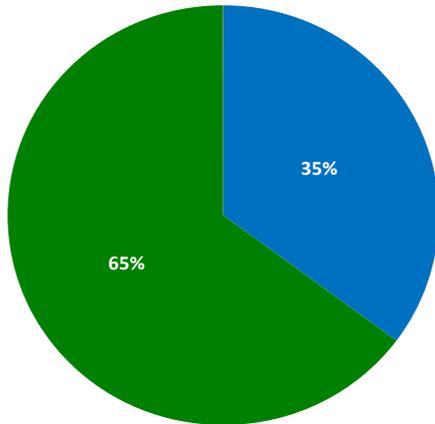


Respiratory Physiology



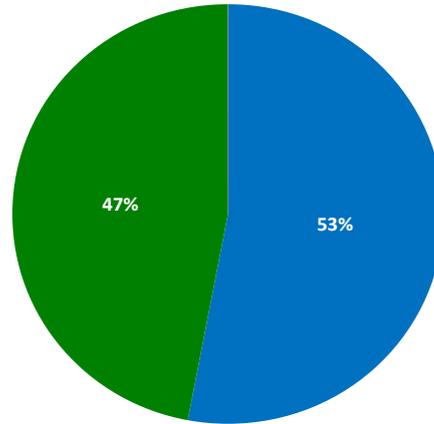
Overall Teaching Feedback

Cardiac physiology



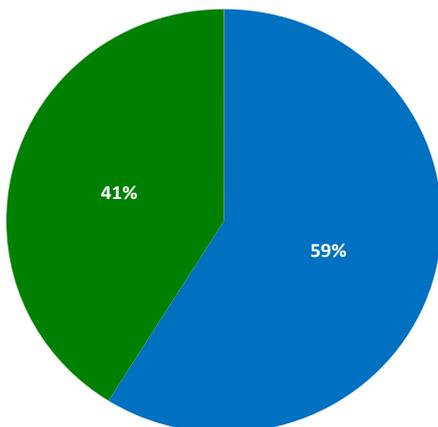
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Cardiothoracic Surgery Physiology



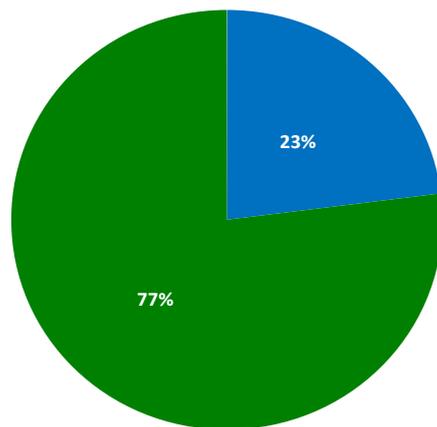
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Sepsis/Septic Shock



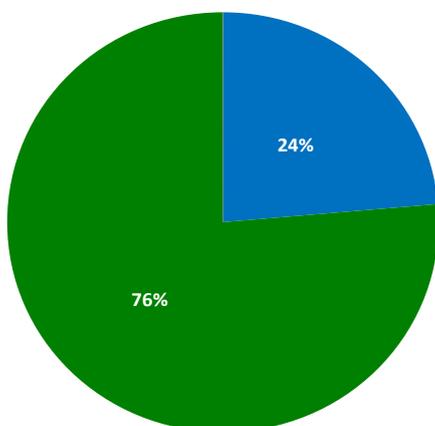
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Bleeding/Coagulation



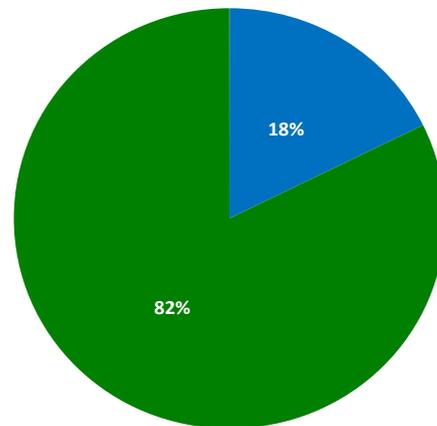
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Management of Trauma and Fractures



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

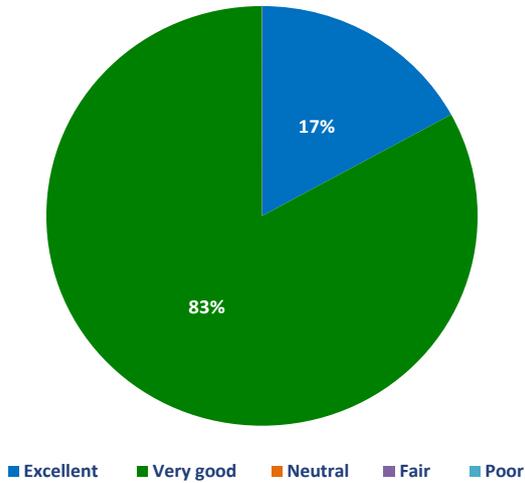
Neurophysiology



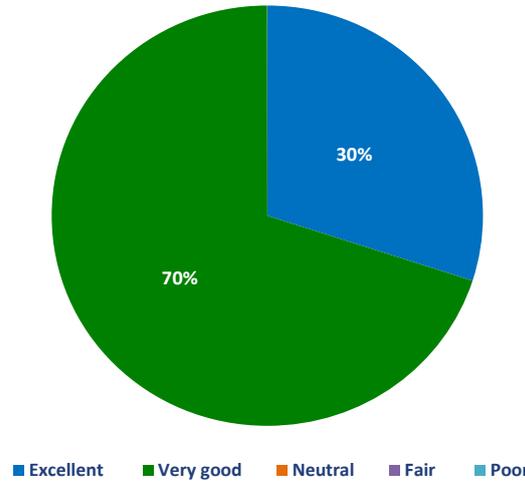
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Overall Teaching Feedback

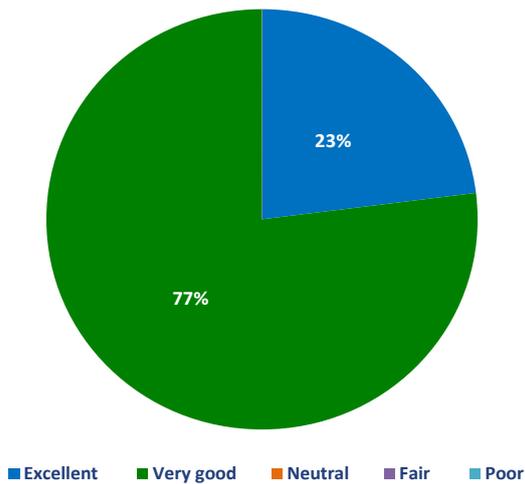
Epidural Anaesthesia



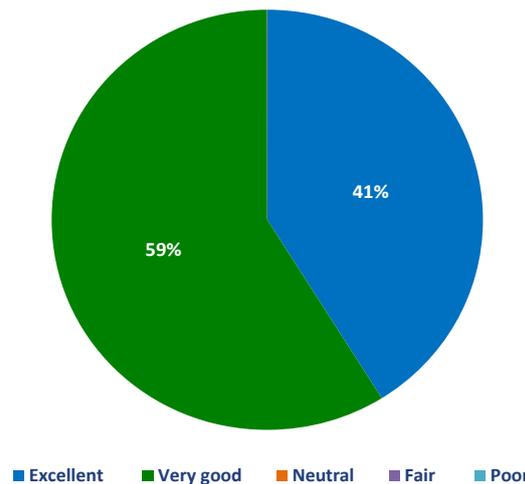
Pain management



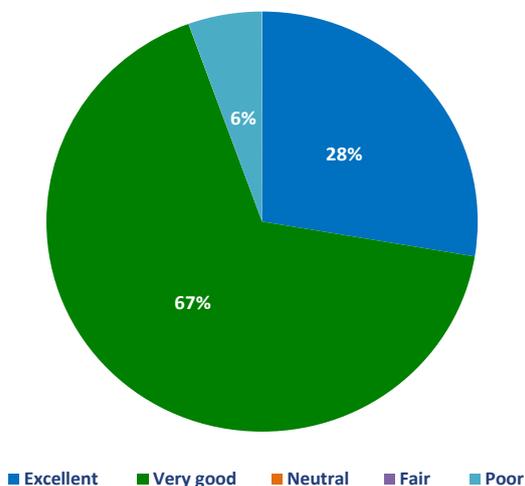
Hypothermia



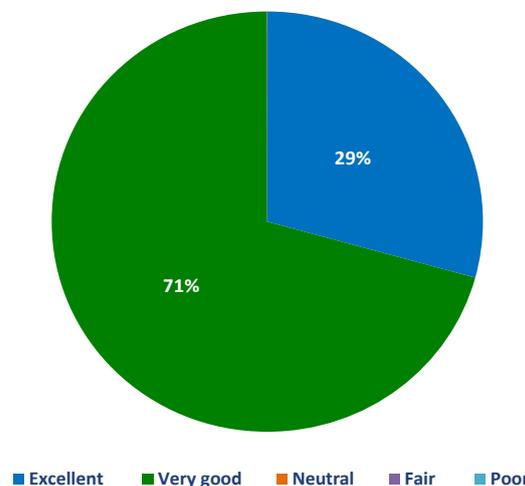
Management of burns



Rhabdomyolysis

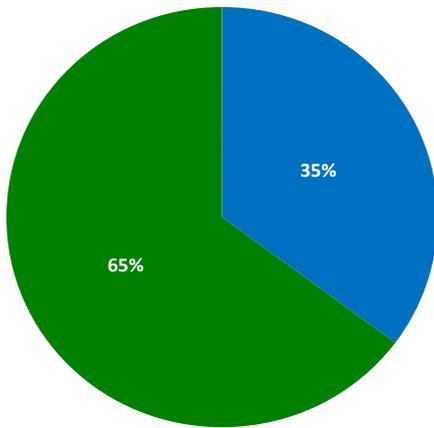


Fracture neck of femur



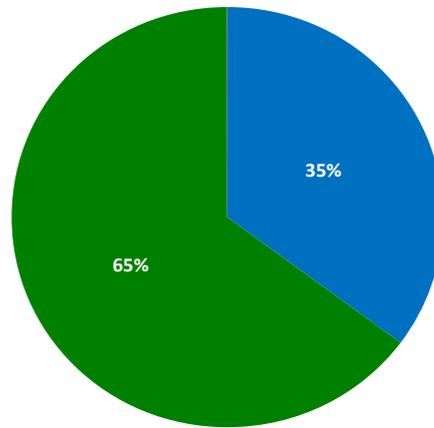
Overall Teaching Feedback

Surgical Microbiology



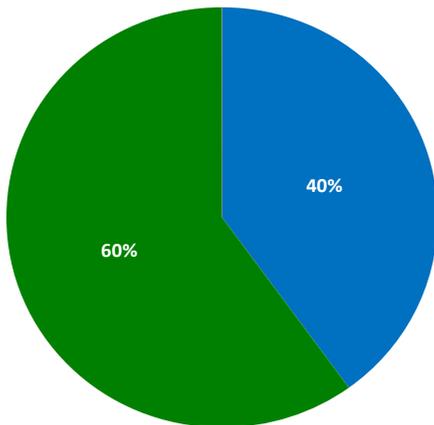
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Necrotising Fasciitis



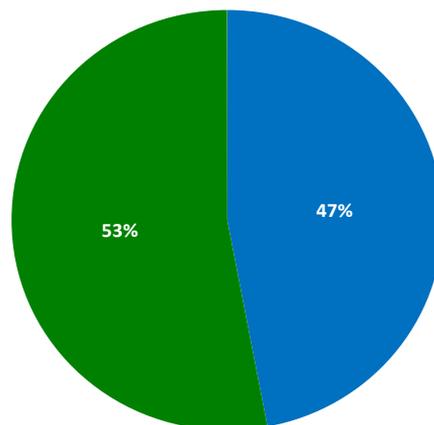
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Short topics in Critical Care



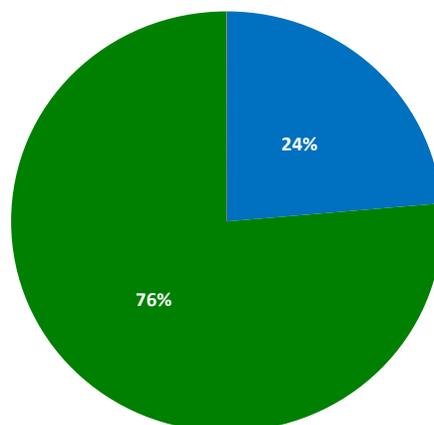
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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

Very good.

VM
Hull Royal Infirmary, Hull

Good.

SP
University Hospital of Wales, Cardiff

Very good.

AY
Nottingham City Hospital, Nottingham

Fantastic.

SA
Ibn Sina National College for Medical Studies

Extremely well organised.

JW
University Hospital of Wales, Cardiff

Excellent faculty team. Great organisation with delicious catering facility. Lots of case based discussions to stimulate learning.

JR
University Hospital, Coventry

Good.

FG
Musgrove Park Hospital, Taunton

Very good lectures.

TH
Royal London Hospital, London

Overall excellent. Encompasses so many topics so clearly difficult to fit them in a day. Very long day. But actually I learned so much and I know what I need to focus on. Also I found most of the supporting material quite useful. Despite being so long I found it very useful - even retaining half of it will help with the exam.

SA
Ysbyty Gwynedd, Bangor

Individual Comments

Informative.

MS

International medical center-Jeddah

Excellent.

MR

Countess of Chester Hospital, Chester



Doctors Academy is a UK-based International Non-Profit Organisation comprising of doctors, dentists and scientists that undertakes a diverse range of educational activities globally. The aim of the Academy is to disseminate information and exchange medical knowledge between professionals from diverse backgrounds working in a variety of healthcare settings. This is achieved by the provision of a number of attendance courses, publishing house, online resources and international events/ competitions.

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, 6th to 10th August 2018
- **International Academic and Research Conference**
Manchester, 11th August 2018
- **World University Anatomy Challenge**
Manchester, 9th and 10th August 2018

Publications



publications.doctorsacademy.org

World Journal of Medical Education & Research



Peer-reviewed academic journal with ISSN.

- No fee to view, read and download articles
- No subscription charges
- No submission fees
- No manuscript processing fee
- No publishing fee
- No cost to read, write or publish!

wjmer.co.uk

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:

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

www.doctorexams.co.uk

www.doctorsacademy.org