



Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

In the final part of the MRCS exam, surgical trainees are expected to have a good working knowledge of general physiological principles, 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 the physiology of the respiratory, cardiovascular, renal, endocrine, gastrointestinal, and central nervous systems.

The course was delivered using a series of interactive lectures with an OSCE focus using OSCE scenarios. All major areas as stipulated in the MRCS Part B syllabus were covered.

Course Information

Course Date: 19th September 2019

Venue: School of Biosciences,

Cardiff University,

Cardiff

Attendance: 35 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
- Cardiovascular System
- Respiratory System
- Endocrine System
- Renal System
- Central Nervous System
- Gastrointestinal System
- Burns
- Management of Patients Undergoing Surgery
- Management of Trauma
- Surgical Microbiology



Course Programme

	0815 - 0820	Registration
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	MORNING SESSION
0820 - 0830	Welcome, Introduction and Format (Prof Stuart Enoch)
0830 - 0930	Physiological Principles in the Management of Trauma (Prof Stuart Enoch) Long bone fractures Fracture neck of femur Pelvic fractures Polytrauma Compartment syndrome Nerve injuries
0930 - 1040	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

1040 - 1100	Coffee Break
1110 - 1140	General Physiological Principles 1 (Dr Paul Morgan) • Homeostasis, feedback loops • Applied acid-base balance
1145 - 1215	General Physiological Principles 2 (Dr Paul Morgan) • Sepsis • Septic shock
1220 - 1300	General Physiological Principles 3 (Dr Paul Morgan) • Bleeding • Coagulation/Anti-coagulation
1300 - 1340	Lunch Break

Course Programme

AFTERNOON SESSION

1340 - 1420	Management of Major Burns (Prof Stuart Enoch)
	Assessment
	 Pathophysiology and principles of management
	Inhalation burns
	Fluids and nutrition
	Indications for referral
1425 - 1445	Rhabdomyolysis (Prof Stuart Enoch)
1445 - 1515	General Physiological Principles 4 (Dr Paul Morgan)
	Resuscitation
	Temperature regulation
	Hypothermia
1515 - 1545	General Physiological Principles 5 (Dr Paul Morgan)
	 Principles of epidural anaesthesia/assessment
	Pain pathways
	Pre-op assessment

1545 - 1605	Coffee Break
1605 - 1635	Central Nervous System (Dr Paul Morgan) Cerebral autoregulation Causes and management of raised intra-cranial pressure Management of head injury
1635 - 1725	 Spinal Cord Injuries and Cord Syndromes (Prof Stuart Enoch) Vertebral fractures Cord compression; conus medullaris and cauda equina syndrome Spinal and neurogenic shock Autonomic nervous system and bladder dysfunction Spinal cord lesions and vascular conditions
1730 - 1800	Infection and Surgical Microbiology (Prof Stuart Enoch) • Tuberculosis • Necrotising fasciitis
1800 - 1830	Calcium Metabolism and Its Role in Surgery (Prof Stuart Enoch)
1830 - 1915	OSCE Topics and Scenarios in Surgical Critical Care (Prof Stuart Enoch)
1915	END OF COURSE!

Faculty List

Dr Paul Morgan, FRCA

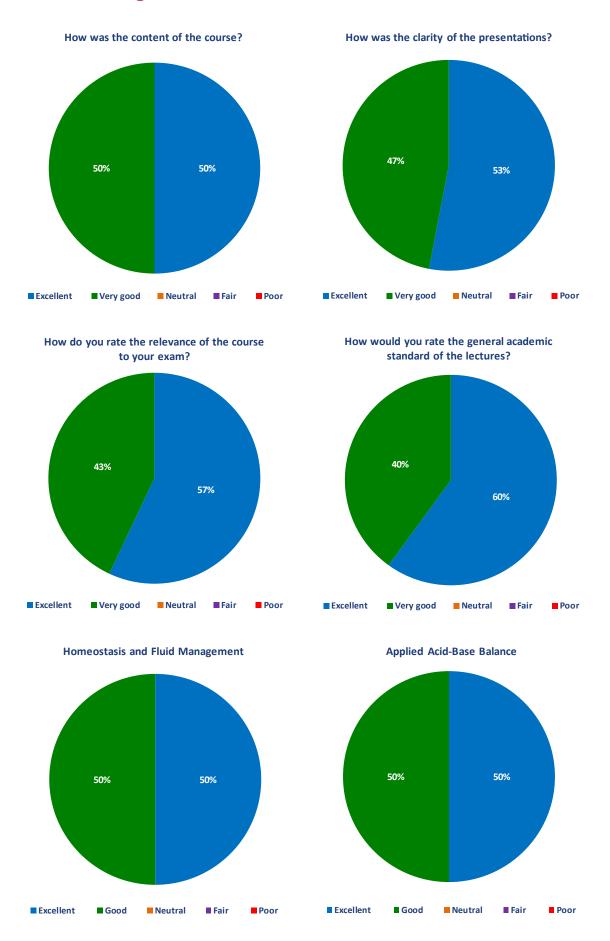
Examiner - Royal College of Surgeons of England Consultant Intensivist, Adult Critical Care University Hospital of Wales, Cardiff

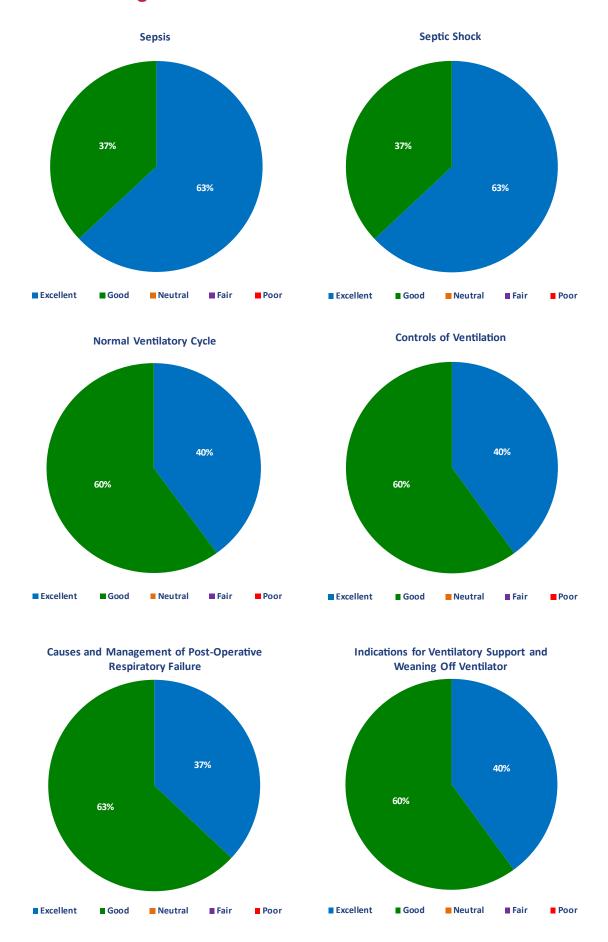
Professor Stuart Enoch, MB BS, PhD, PGCert (Med Sci), MRCSEd, MRCS (Eng)

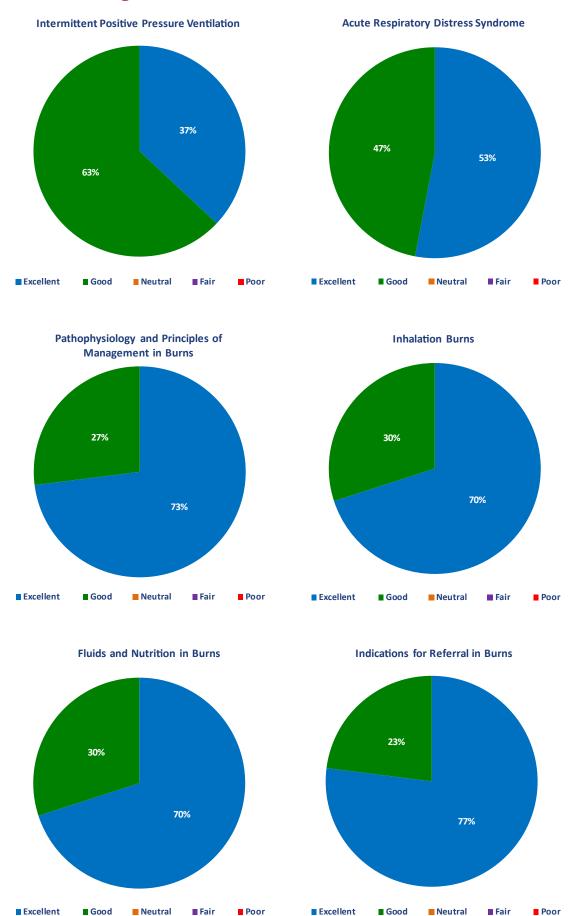
Senior Lecturer; Director of Education and Research Doctors Academy Group

Dr Teresa Evans, FRCA

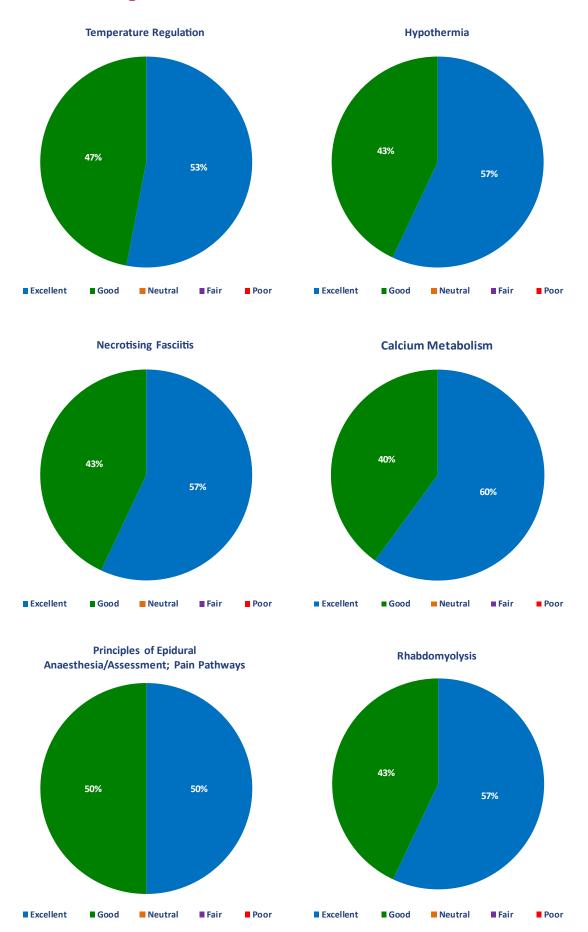
Consultant Anaesthetist Royal Gwent Hospital, Newport

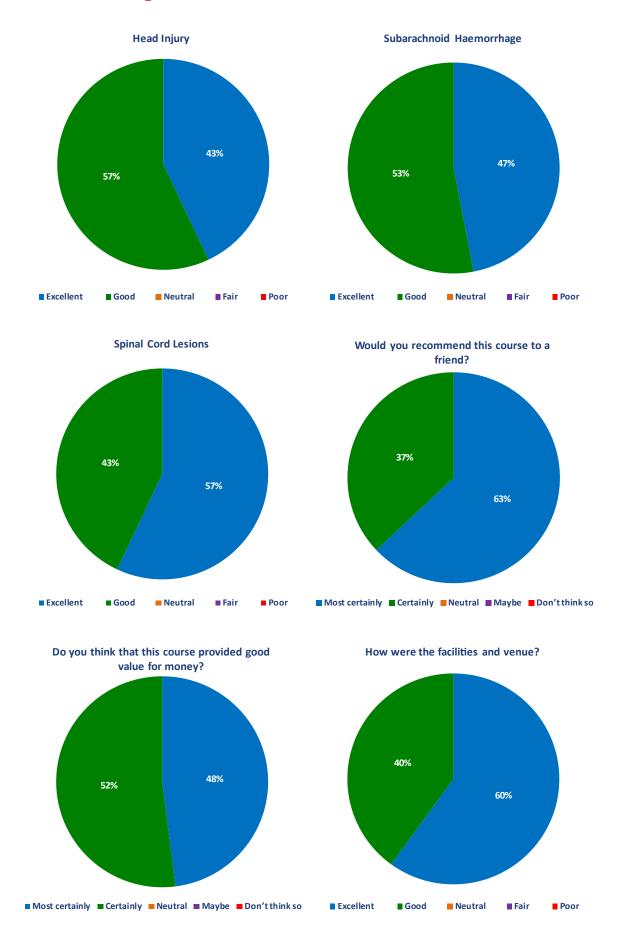


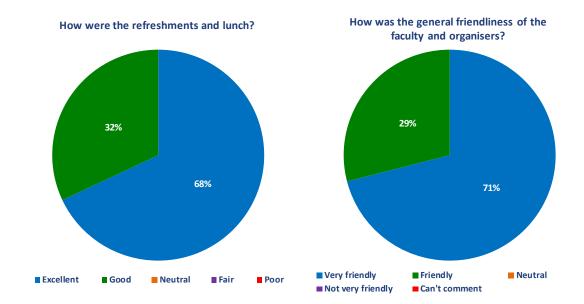












Individual Comments

It was very good. ED South Warwickshire NHS Foundation Trust, United Kingdom This was a well-designed and efficient course. KW Kingston Public Hospital, Kingston, Jamaica Great. MA Mackay Base Hospital, Queensland, Australia It was very good. MM Leicester Royal Infirmary, Leicester, United Kingdom Great. TB Western General Hospital, Edinburgh, United Kingdom Brilliant. **EW** Stepping Hill Hospital, Stockport, United Kingdom The course provided an excellent review of exam topics, with very good faculty. University Hospital Limerick, Limerick, Ireland It was very good. SS Whipps Cross University Hospital, London, United Kingdom The content and teaching were excellent. VK Wrightington, Wigan and Leigh NHS Trust, United Kingdom Great. TB Western General Hospital, Edinburgh, United Kingdom

Individual Comments

individual Comments
Excellent.
MS Royal Preston Hospital, Preston, United Kingdom
I would 100% recommend this course; it covers the high yield areas of the exam.
WF Daisy Hill Hospital, Newry, Northern Ireland
This was a very intense course but it gave me an overall picture of what to expect in the exam and how much I needed to learn.
IO Royal Glamorgan Hospital, Llantrisant, United Kingdom
It was a worthwhile experience.
SS Wrightington, Wigan and Leigh NHS Trust, United Kingdom
I enjoyed the course; it was a good experience before going into the exam, and it increased my level of confidence.
JA Jos University Teaching Hospital, Jos, Nigeria
This was an excellent course; I will be recommending it to my colleagues.
EC University Hospital Plymouth NHS Trust, United Kingdom
Great.
M Royal Berkshire NHS Foundation Trust, United Kingdom
It was very good.
VA Warwick Hospital, Warwick, United Kingdom
This was excellent preparation for the exam.

Cork University Hospital, Cork, Ireland

Individual Comments

It was very good.

ZK

Lister Hospital, Stevenage, United Kingdom

The content and the support from the tutors were excellent. I recommend this course to anyone applying for the MRCS Part B. It's a very solid course.

RP

Hamad Medical Corporation, Qatar



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
- International Academic and Research Conference
- World University Anatomy Challenge

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

- General Surgery Exams

- Dental Students

- Plastic Surgery Exams

- International Entrance Exams

- DOHNS Exams

- MRCS Exams

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