



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: 17th January 2019

Venue: School of Biosciences,

Cardiff University,

Cardiff

Attendance: 34 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
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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
1105 - 1135	General Physiological Principles 1 (Dr Paul Morgan) • Homeostasis, feedback loops • Applied acid-base balance
1135 - 1210	General Physiological Principles 2 (Dr Paul Morgan) • Sepsis • Septic shock
1210 - 1250	General Physiological Principles 3 (Dr Paul Morgan) • Bleeding • Coagulation/Anti-coagulation
1255 - 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 - 1530	Spinal Cord Injuries and Cord Syndromes (Prof Stuart Enoch)
1530 - 1600	Infection and Surgical Microbiology (Prof Stuart Enoch)
1600 - 1620	Coffee Break
1625 - 1655	 General Physiological Principles 4 (Dr Paul Morgan) Resuscitation Temperature Regulation Hypothermia
1700 - 1730	 General Physiological Principles 5 (Dr Paul Morgan) Principles of Epidural Anaesthesia/Assessment Pain pathways Pre-op Assessment
1735 - 1805	Central nervous system (Dr Paul Morgan) Cerebral autoregulation Causes and management of raised intra-cranial pressure Management of Head Injury
1800 - 1845	OSCE topics in Surgical Critical Care (Prof Stuart Enoch)
1845	END OF COURSE!

Faculty List

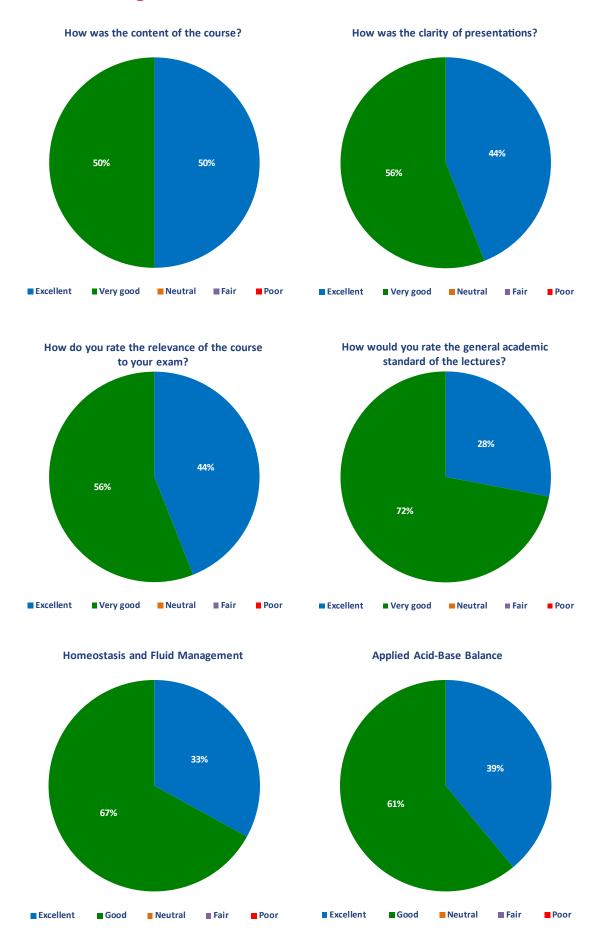
Dr Paul Morgan, FRCA Examiner - Royal College of Surgeons of England Consultant Intensivist, Adult Critical Care University Hospital of Wales, Cardiff

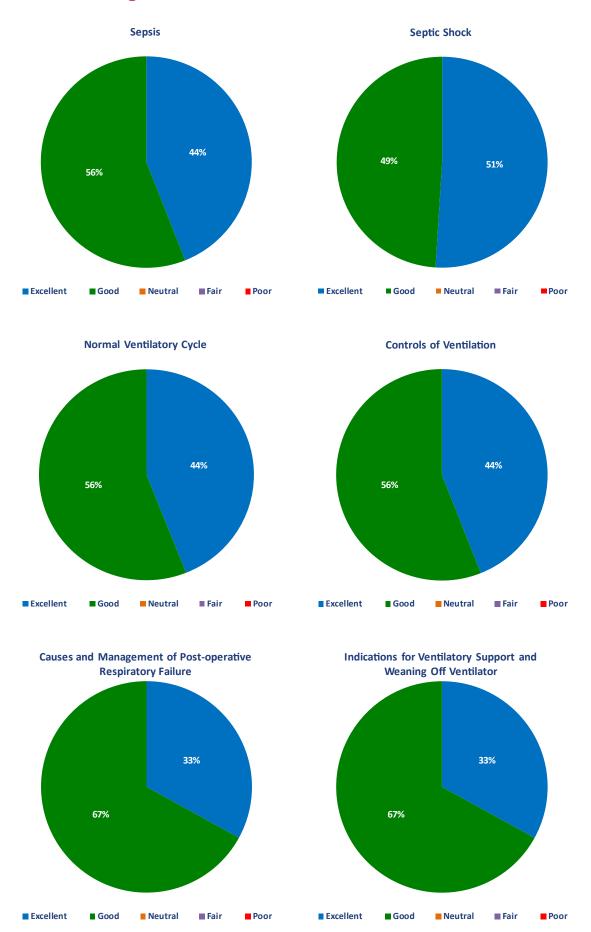
Professor Stuart Enoch, MB BS, PhD, PGCert (Med Sci), MRCSEd, MRCS (Eng) Senior Lecturer; Director of Education & Research

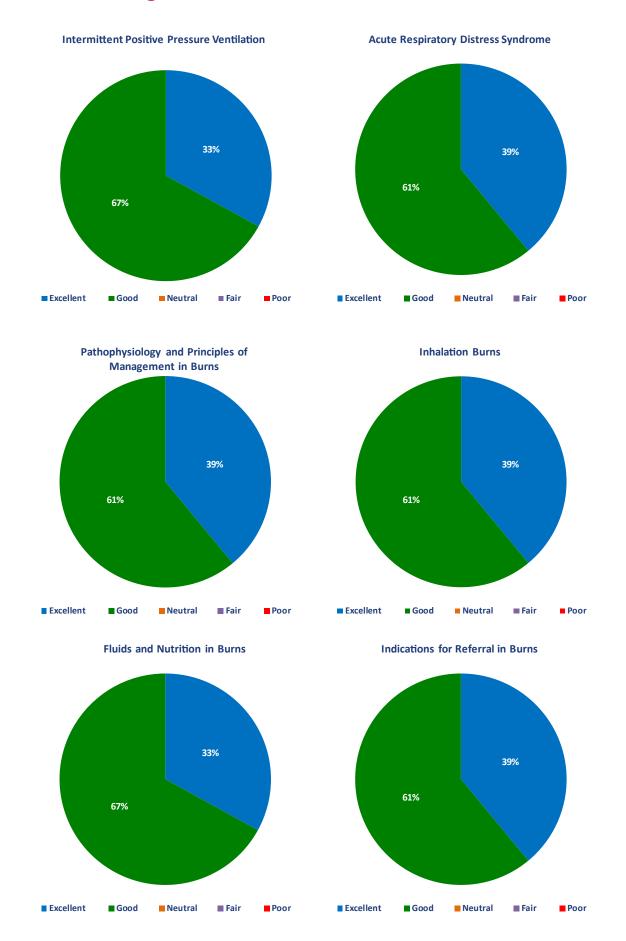
Doctors Academy Group

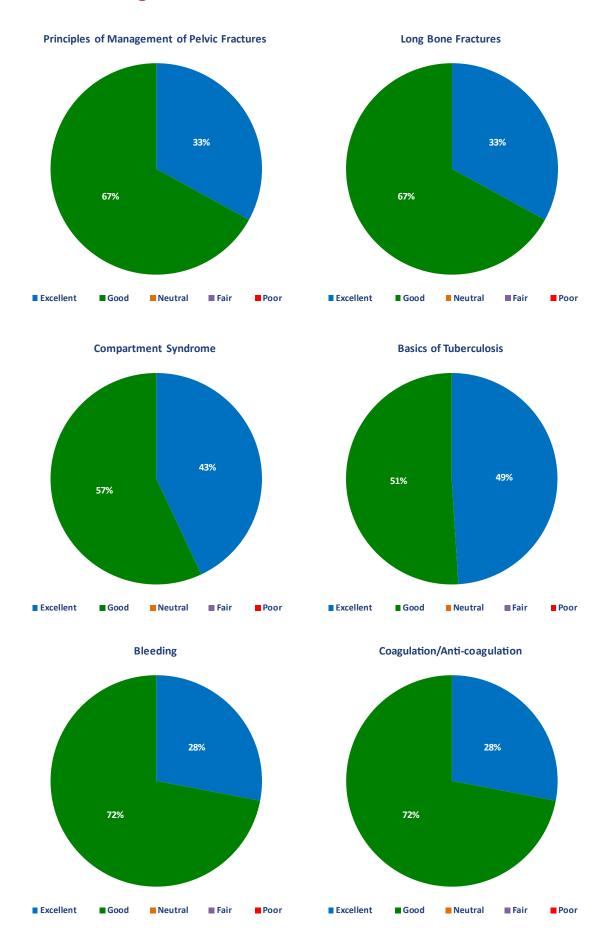
Dr Teresa Evans FRCA

Consultant Anesthetist Royal Gwent Hospital, Newport

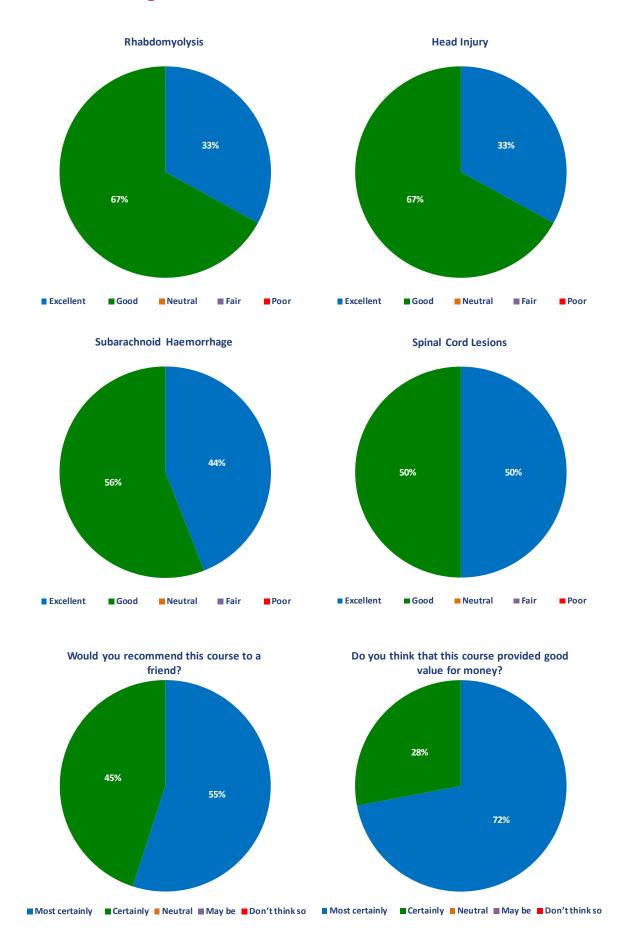


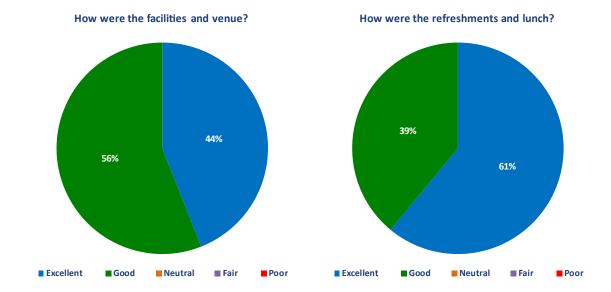


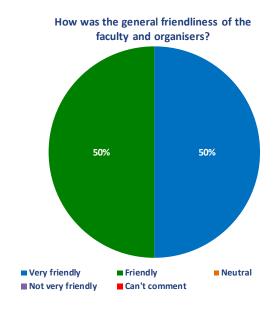












Individual Comments

Exhausting but satisfied with vast amount of reinforced knowledge.

MZ Queen Elizabeth Medical Centre, Birmingham Excellent. I wish I had the oportunity to sit one more prior to my exam. It was extremely helpful. KH Gloucestershire Hospitals NHS Foundation Trust, United Kingdom, Europe Very good. SP Columbia Asia Hospital, Pune, India It was an enjoyable experience. I would highly recommend it. EC St Helier Hospital, Carshalton Great. AM North Manchester General Hospital, Manchester Great - thank you. LH Musgrove Park Hospital, Taunton Very impressed. Very concise. JG MATER DEI HOSPITAL, MALTA Excellent course. Very well organised. MQ Blackpool Victoria Hospital Keep it up. SP Columbia Asia Hospital, Pune, India It was good. AM

North Manchester General Hospital, Manchester



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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