



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: 10th September 2020

Venue: School of Biosciences,

Cardiff University,

Cardiff

Attendance: 39 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
	MORNING SESSION
0820 - 0830	Welcome, Introduction and Format (Prof Stuart Enoch)
0830 - 0920	Physiological Principles in the Management of Trauma (Prof Stuart Enoch) • Long bone fractures • Fracture neck of femur • Pelvic fractures • Polytrauma • Hypovolemic shock and management
0920 - 1030	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

1030 - 1045	Coffee Break
1055 - 1125	General Physiological Principles 1 (Dr Paul Morgan) • Homeostasis, feedback loops • Applied acid-base balance
1125 - 1155	General Physiological Principles 2 (Dr Paul Morgan) • Sepsis • Septic shock

1200 - 1300 OSCE Discussion and Lunch

Course Programme

EARLY AFTERNOON SESSION

1300 - 1340	 Management of Major Burns (Prof Stuart Enoch) Assessment Pathophysiology and principles of management Inhalation burns; fluids and nutrition Indications for referral
1340 - 1410	Fluid and Renal Physiology (Prof Stuart Enoch)
1410 - 1425	Rhabdomyolysis (Prof Stuart Enoch)
1430 - 1530	 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
1530 - 1600	Calcium Metabolism and Its Role in Surgery (Prof Stuart Enoch)
1600 - 1615	Coffee Break
	LATE AFTERNOON SESSION
1615 - 1645	LATE AFTERNOON SESSION General Physiological Principles 3 (Dr Paul Morgan) Bleeding Coagulation/Anti-coagulation
1615 - 1645 1645 - 1715	General Physiological Principles 3 (Dr Paul Morgan) • Bleeding
	General Physiological Principles 3 (Dr Paul Morgan) • Bleeding • Coagulation/Anti-coagulation General Physiological Principles 4 (Dr Paul Morgan) • Resuscitation • Temperature regulation

Course Programme

1830 - 1915 Infection, Surgical Microbiology and Scenarios in Surgical Critical Care

(Prof Stuart Enoch)

• Tuberculosis

Necrotising fasciitis

• Compartment syndrome

Nerve injuries

Action potentials

Bilirubin metabolism

1915 END OF COURSE!

Faculty List

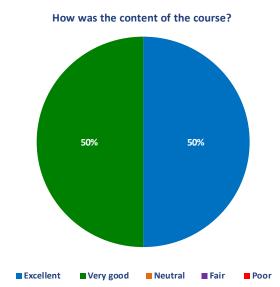
Dr Paul Morgan, FRCA

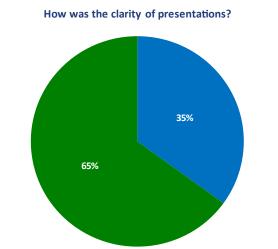
Examiner - Royal College of Surgeons of England Consultant Intensivist, Adult Critical Care University Hospital of Wales, Cardiff

Professor Stuart Enoch, MBBS, MRCSEd, MRCS (Eng), PGCert (Med Sci), PhD Professor, Higher Surgical Education Doctors Academy

Dr Teresa Evans, FRCA

Consultant Anaesthetist Royal Gwent Hospital, Newport





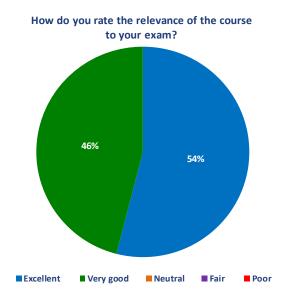
Neutral

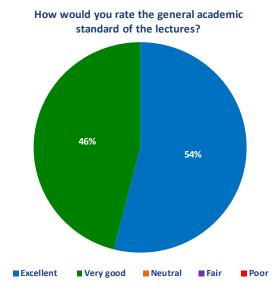
■ Fair

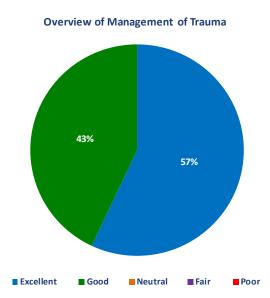
Poor

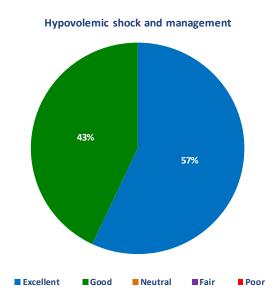
■ Excellent

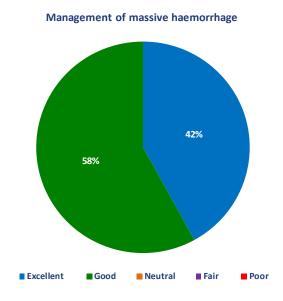
■ Very good

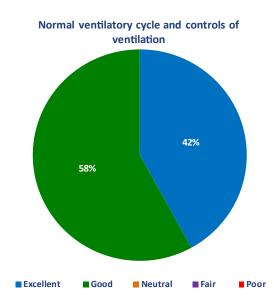


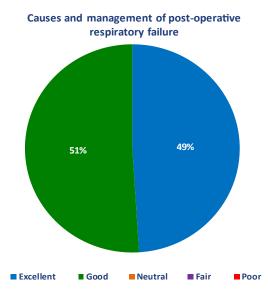


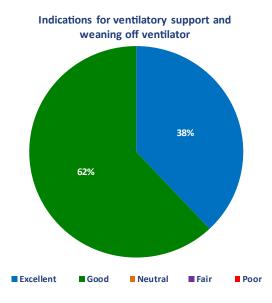


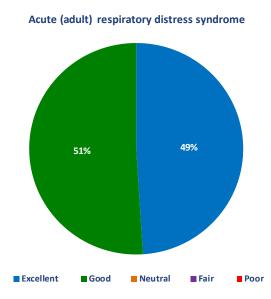


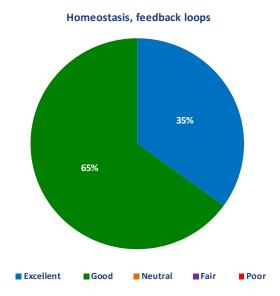


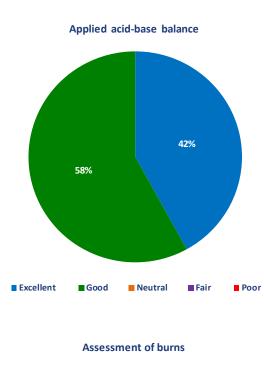


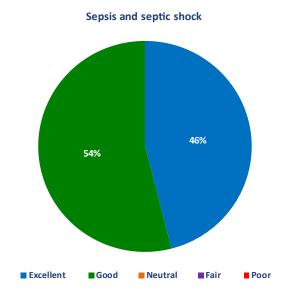


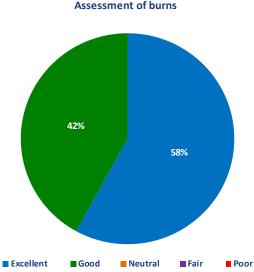


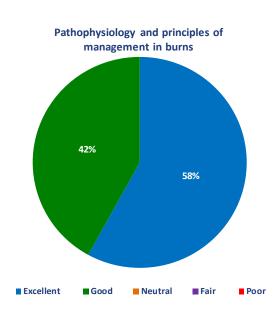


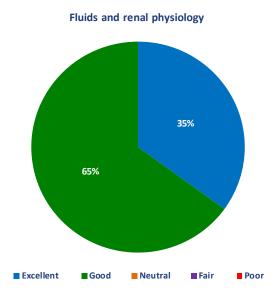


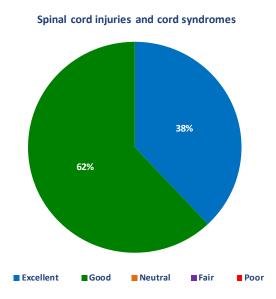


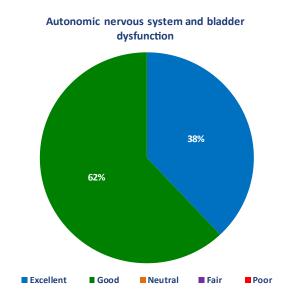


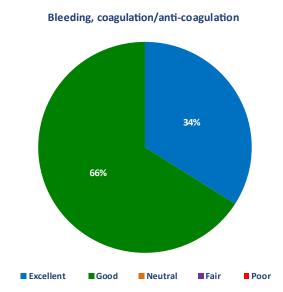


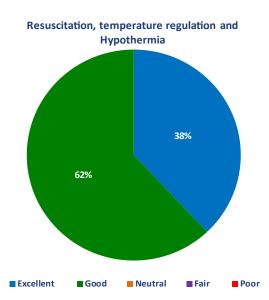


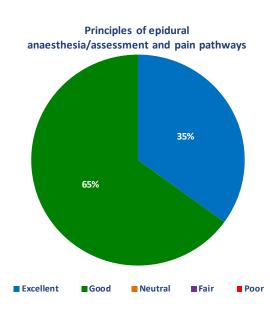


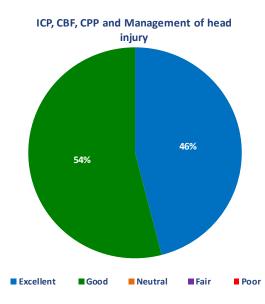


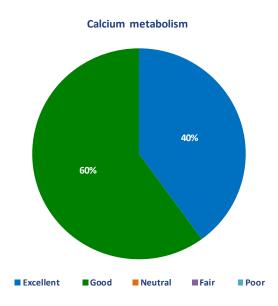


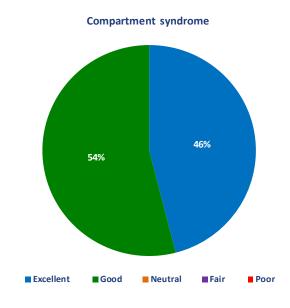


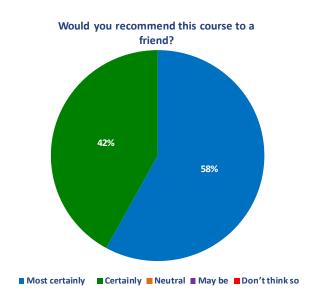


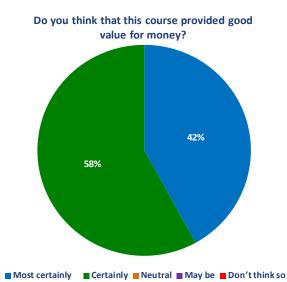


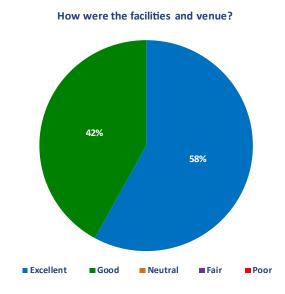


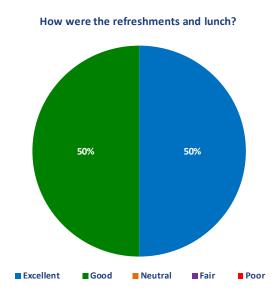


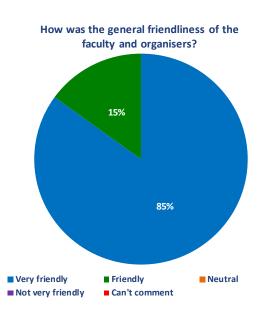












Individual Comments

Useful course. AP John Radcliffe Hospital, Oxford, UK Excellent course. Well organized lectures and useful OSCE. AS Newham General Hospital, London, UK Very good. Very useful. SJ Good. AL Derriford Hospital, Plymouth, UK Five stars. MK Royal Sussex County Hospital, Brighton, UK Excellent, hoping the exam goes as well as the mock did! KE Derriford Hospital, Plymouth, UK Very useful, liked it. AD Doncaster and Bassetlaw Teaching Hospitals NHS Foundation Trust, UK Excellent. NN Aintree University Hospital, Liverpool, UK A fantastic course that has helped focus revision and go through things in detail that is difficult with ongoing COVID pandemic. JH Torbay District General Hospital, Torquay, UK Very useful course, highlighted gaps in knowledge and excellent quality teaching to augment my own revision prior to the upcoming exam. CG Royal Hospitals, Belfast, UK Good. PY

University Hospital Hairmyres, Glasgow, UK

Individual Comments

Great faculty who were keen and enthusiastic to teach and go over any doubts. Worth it. Thank you Prof Enoch and team for your hard work arranging the course to happen during COVID.

HM

Derriford Hospital, Plymouth, UK

Fantastic.

PP

Derriford Hospital, Plymouth, UK

In five intense days we've covered most of the syllabus for the exam, this I would never have achieved on my own. I got the general idea of what I need to review and lots of tips about station strategy either from recently examined peers or former examiners. The pre- and post-course resources are of very good quality and invaluable for further revision. Price for all five days may seem high but given the amount of human resources, use of cadavers and quality and amount of insider information I feel it was a good investment. The course considerably increased the probability of success - my impression is that by attending this course my chances to pass the exam have increased by 30-50%.

JD

Whipps Cross University Hospital, London, UK

Excellent.

MR

Southampton General Hospital, Southampton, UK

I enjoyed every bit of the course. It was a very high yield course covering important topics. The faculty were easily approachable, friendly and supportive. They identified strengths and weaknesses for a candidate to build on ahead of the exam. It gave me the much required confidence ahead of the exam.

AA

Southend University Hospital NHS Foundation Trust, UK

The course was excellent and I had a great experience. The content was relevant, the information was concise, and highlighted knowledge gaps in a friendly and supportive environment. Would recommend.

PL

Walsall Healthcare NHS Trust, UK

Excellent.

OM

Hinchingbrooke Health Care NHS Trust, UK

Very positive, as always!

AS

Royal Wolverhampton Hospitals NHS Trust, UK

Very thorough and well thought out. Faculty were approachable and understood what was expected for the exam.

CJ

Morriston Hospital, Swansea, UK



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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