

Cardiff MRCS OSCE: Applied Surgical Sciences & Critical Care

In the final part of the MRCS exam, the 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 provides the candidates with an overview of basic physiological principles, and the physiology of the respiratory, cardiovascular, renal, endocrine, gastrointestinal, and the central nervous systems.

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

Course Information

Course date: 16th April 2015

Venue: Sir Martin Evans Building

Cardiff University, UK

Attendance: 19 Delegates

Aimed at: Delegates looking to take

their membership to the Royal College of Surgeons

Part B exam.

Course fee: £180.00



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 & respiratory acidosis/alkalosis) & their management
- Fluid balance & fluid replacement therapy
- Renal physiology
- Bleeding & Coagulation
- Management of sepsis & septic shock
- Homeostasis & thermoregulation
- Hypothermia
- Principles of epidural anaesthesia
- Gastrointestinal system
- Cardiovascular system & critical care
- Endocrine physiology
- Neurophysiology & management of head injury
- Burns



Course Programme

0815 - 0825	Registration
0825 - 0830	Welcome - Mr Stuart Enoch
0830 - 0900	General Physiological Principles, Part 1 - <i>Dr Paul Morgan</i> - Homeostasis & feedback loops Applied acid-base balance.
0900 - 0930	General Physiological Principles, Part 2 - <i>Dr Paul Morgan</i> - Sepsis Septic shock.
0940 - 1045	Respiratory system - <i>Dr Teresa Evans</i> - Normal ventilatory cycle Controls of ventilation Causes & management of post-operative respiratory failure Indications for ventilatory support and weaning off ventilator Intermittent positive pressure ventilator Acute (adult) respiratory distress syndrome.

1045 - 1100	Coffee Break
1100 - 1135	General Physiological Principles, Part 3 - <i>Dr Paul Morgan</i> - Bleeding Coagulation / Anti-coagulation.
1135 - 1150	Principles of Epidural Anaesthesia / Assessment; Pain Pathways - Dr Paul Morg
1150 - 1215	Resuscitation, Temperature Regulation & Hypothermia - <i>Dr Paul Morgan</i>
1215 - 1255	Management of Burns - <i>Mr Stuart Enoch</i> - Assessment Indications for referral Pathophysiology & principles of management.

1255 - 1330	Lunch	

Course Programme

1330 - 1435	Endocrine Physiology - <i>Dr Jason Seewoodhary</i>
	- Functions of the pituitary.
	- Basic physiology of the thyroid & parathyroid glands.
	- Disorders of calcium metabolism.
	- Basic physiology of the adrenal glands & glucocorticoids.
	- Glucose homeostasis & diabetes in surgery.
	- Hypothyroidism & hyperthyroidism.
	- Corticosteroids in surgery.
1435 - 1530	Renal System - Dr Jason Seewoodhary
	- Renal auto-regulation.
	- Renin-angiotensin system.
	- Types & management of renal failure.
	- Erythropoietin.

1530 - 1545	Coffee Break
1545 - 1645	Cardiovascular System - <i>Mr Joe Thekkudan</i> - Cardiac pressure cycle Control of cardiac output Blood pressure & its control mechanisms Inotropes & their actions.
1645 - 1730	Critical Care in Surgery - <i>Mr Joe Thekkudan</i>
1730 - 1830	Physiological Principles in the Management of Trauma - <i>Mr Stuart Enoch</i>
1830 - 1915	Essential Surgical Microbiology - <i>Mr Stuart Enoch</i>
1915 - 1930	Summary & Feedback
1930	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 Jason Seewoodhary, BSc (Hons), MBBCh (Hons), MRCP (UK)

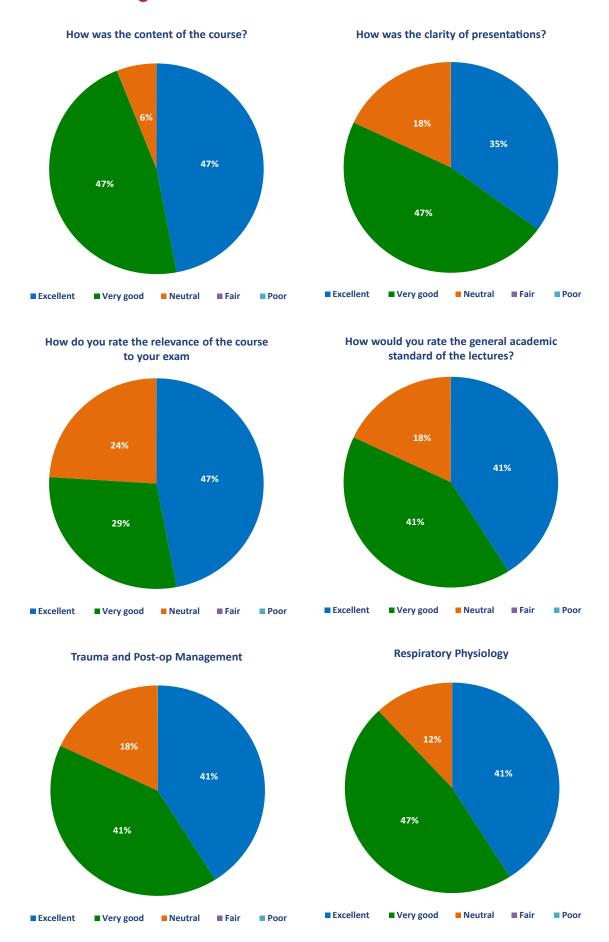
Speciality Registrar in Endocrinology University Hospital of Wales, Cardiff

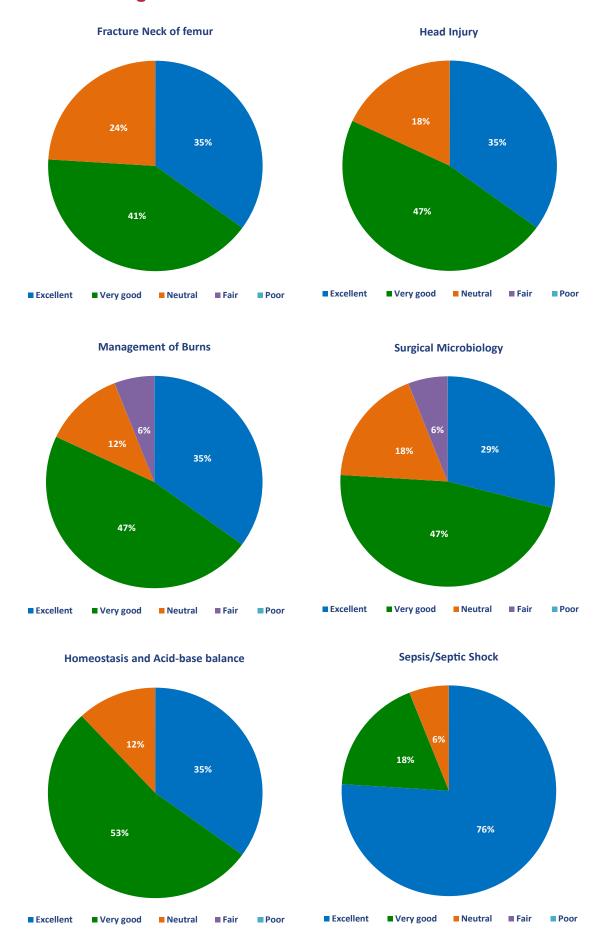
Dr Teresa Evans, FRCA

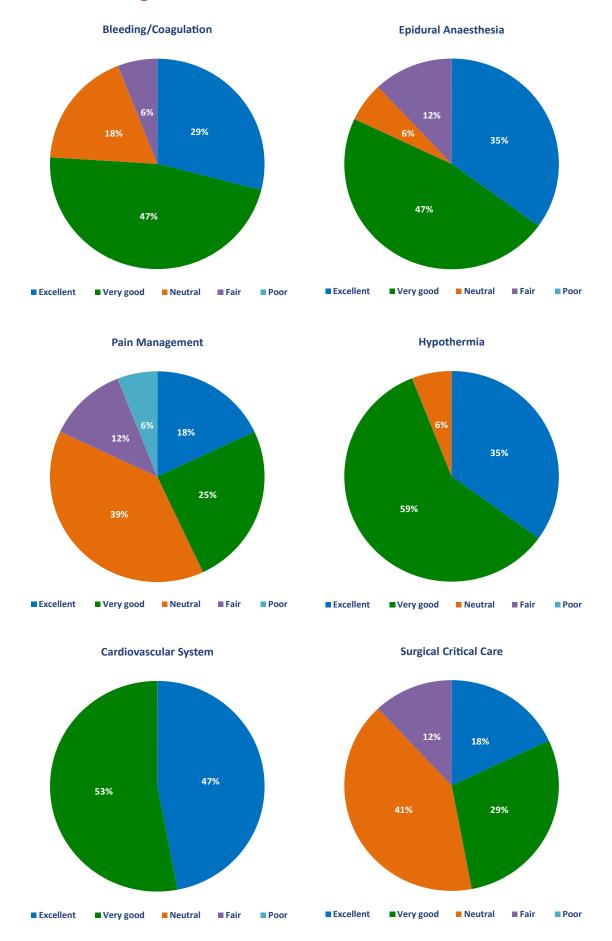
Consultant Anaesthetist Royal Gwent Hospital, Newport

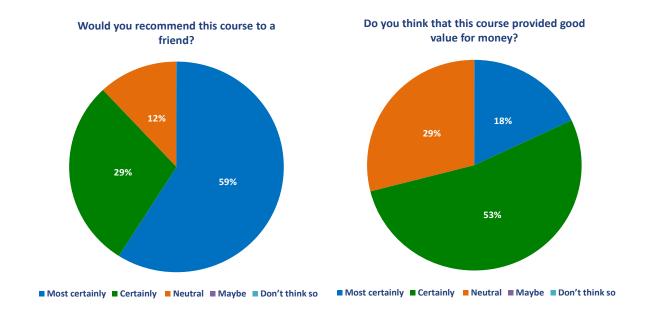
Mr Joe Thekkudan, FRCSEd

Registrar in Cardiothoracic surgery New Cross Hospital, Wolverhampton









Individual Comments

Information overload but in a systematic fashion. Relevant course material.

NH

Leicester General Hospital, Leicester, United Kingdom

Excellent.

JB

Royal Preston Hospital, Preston, United Kingdom

Very organised. Covered all the broad contents. Very helpful.

GS

Wythenshawe Hospital, Manchester, United Kingdom

Excellent overall. Lecturer's were great and very kind. Very glad I went to this!

CC

National Hospital for Neurology & Neurosurgery, London, United Kingdom

Overall very good and relevant.

HP

Ysbyty Gwynedd, Bangor, United Kingdom

The content of the course was good and relevant. The presentations were clear. Will be recommending it to others preparing for the exam.

AR

Royal Derby Hospital, Derby, United Kingdom

Excellent course and faculty. Good quality presentations. Relevant for exam preparation.

SH

Wrexham Maelor Hospital, Wrexham, United Kingdom



Doctors Academy is an 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, 1st - 5th August 2016
- International Academic and Research Conference Manchester, 6th August 2016
- World University Anatomy Challenge Manchester, 5th August 2016

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

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