

Cardiff MRCS OSCE Course: Applied Surgical Sciences & Critical Care

Feedback - January 2018

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: 25th January 2018 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 The Association of Surgeons in Training

Surgical trainees can apply to be sponsored by ASIT to receive a bursary to attend this course.

www.asit.org

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	
0820 - 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 - 0930	General Physiological Principles 2 (Dr Paul Morgan) • Sepsis • Septic shock
0945 - 1100	 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
1100 - 1120	Coffee Break
1120 - 1200	Management of Burns (Prof Stuart Enoch) • Assessment • Pathophysiology and principles of management • Inhalation burns • Fluids and Nutrition • Indications for referral
1200 - 1300	 Management of Trauma (Prof Stuart Enoch) Principles of management Long bone fractures Compartment syndrome Intraabdominal trauma
11300 - 1340	Lunch Break

Course Programme

AFTERNOON SESSION

1345 - 1415	General Physiological Principles 3 (Dr Paul Morgan) Bleeding Coagulation/Anti-coagulation
1415 - 1445	Resuscitation, Temperature Regulation, and Hypothermia (Dr Paul Morgan)
1600 - 1620	Coffee Break
1445 - 1530	 Central nervous system (Dr Paul Morgan) Cerebral autoregulation Causes and management of raised intra-cranial pressure including spaceoccupying lesions Head Injury
1530 - 1600	Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr Paul Morgan)
1600 - 1620	Coffee Break
1630 - 1650	Rhabdomyolysis (Prof Stuart Enoch)
1650 - 1745	 Short topics in Surgical Critical Care (Prof Stuart Enoch) Calcium Metabolism Cardiac Physiology Spinal Cord Lesions General Physiology Topics
1745 - 1900	Essentials of Microbiology (Prof Stuart Enoch) Necrotising Fasciitis Tuberculosis Antibiotics and MoA
1900 - 1915	Summary and Feedback
END OF COURSE	

Faculty List

Dr Paul Morgan, FRCA

Examiner - Royal College of Surgeons of England

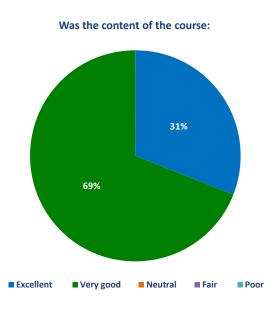
Consultant Intensivist, Adult Critical Care University Hospital of Wales, Cardiff

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

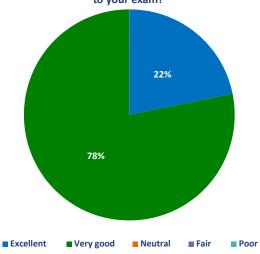
Senior Lecturer; Director of Education & Research Doctors Academy Group

Dr Teresa Evans, FRCA

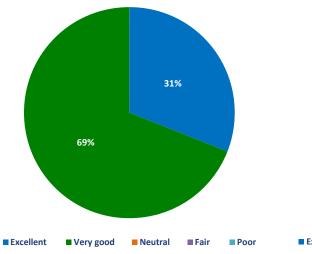
Consultant Anaesthetist Royal Gwent Hospital, Newport



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







Applied Acid-Base Balance

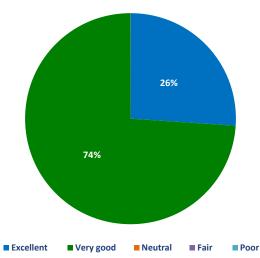
Neutral

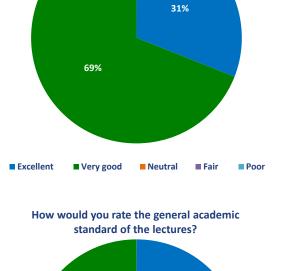
🔳 Fair

74%

Very good

Excellent

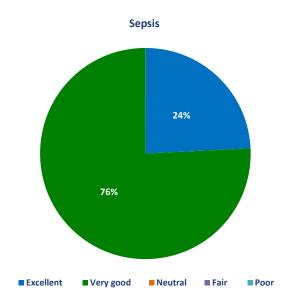


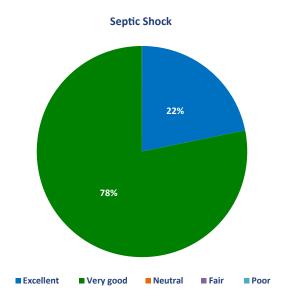


26%

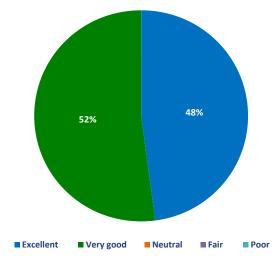
Poor

How was the clarity of presentations?

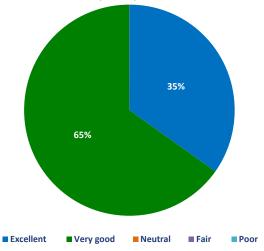




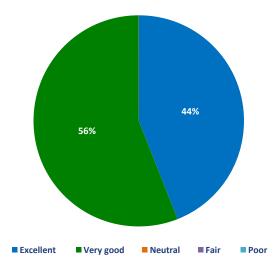
Normal Ventilatory Cycle



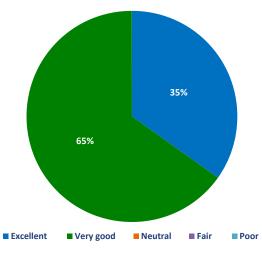




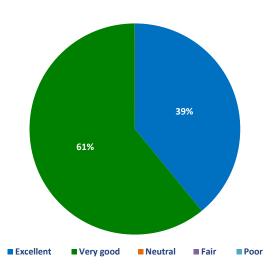
Controls of Ventilation



Indications for Ventilatory Support and Weaning off Ventilator

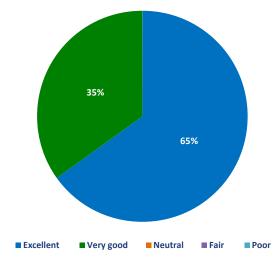


Intermittent Positive Pressure Ventilation

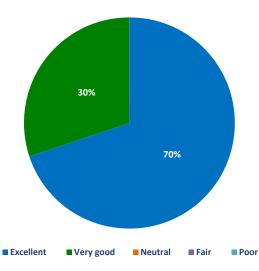


Acute Respiratory Distress Syndrome

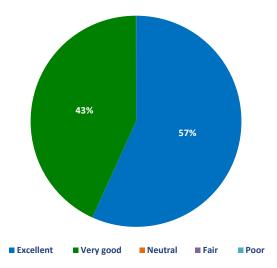
Inhalation Burns



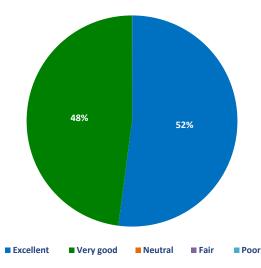


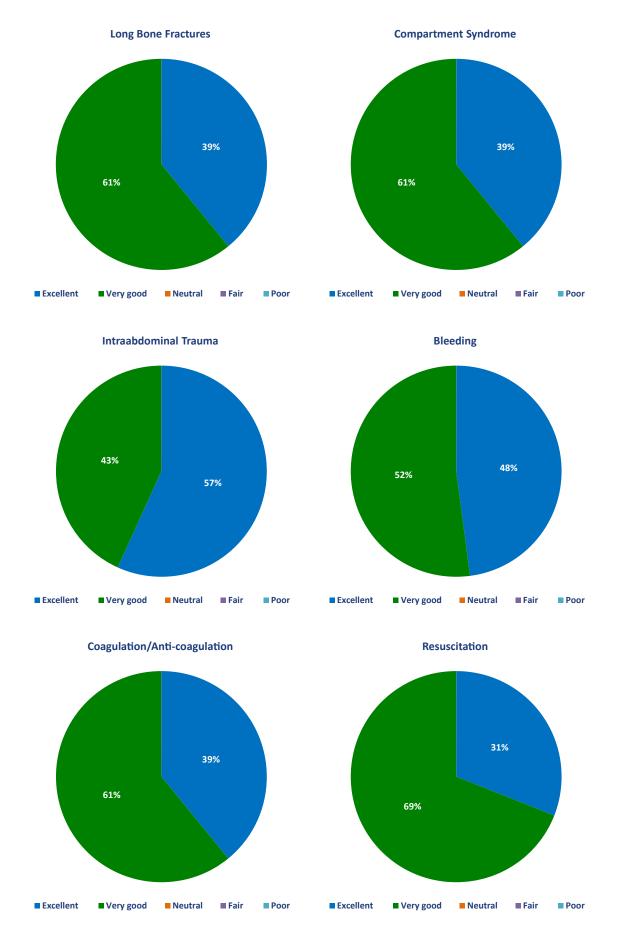


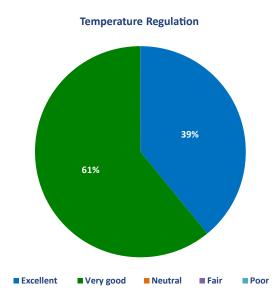
Fluids and Nutrition in Burns

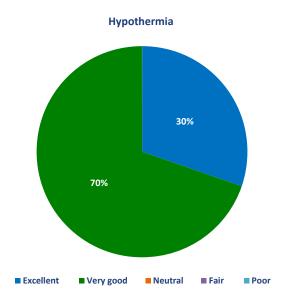


Principles of Management of femur

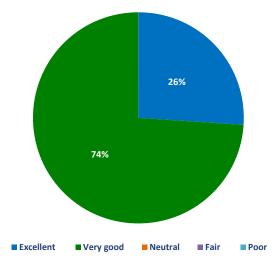




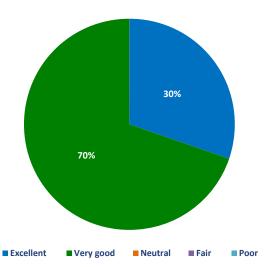




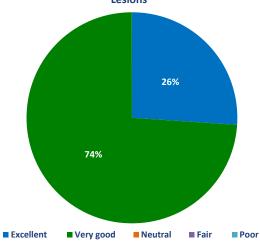
Cerebral autoregulation



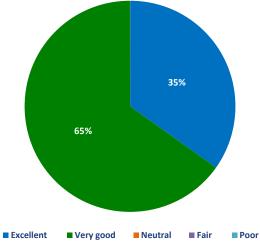


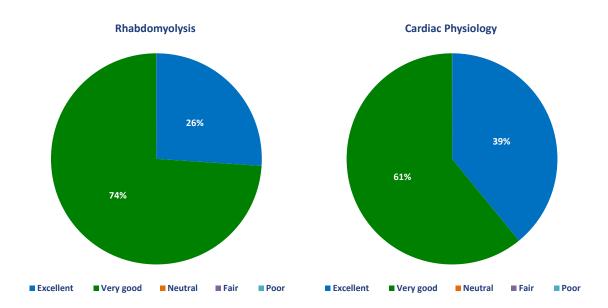


Causes and Management of Raised Intracranial Pressure Including Spaceoccupying Lesions

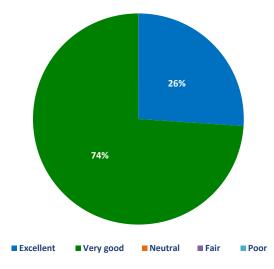




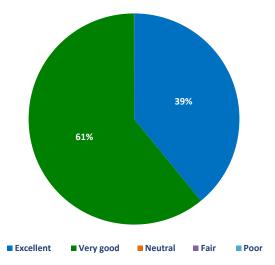


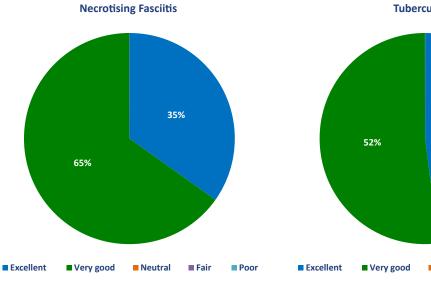


Spinal Cord Lesions

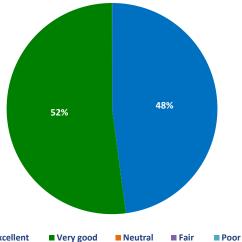


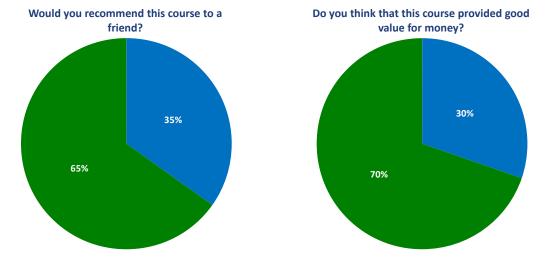






Tuberculosis

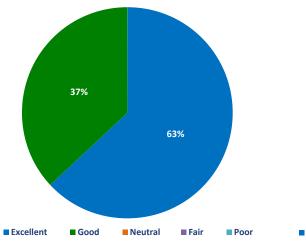




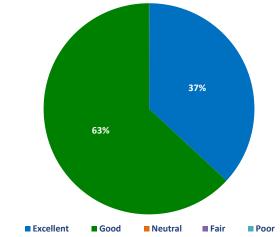
■ Most certainly ■ Certainly ■ Neutral ■ May be ■ Don't think so ■ Mo

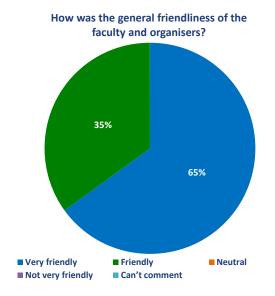
How were the facilities and venue?

■ Most certainly ■ Certainly ■ Neutral ■ May be ■ Don't think so



How were the refreshments and lunch?





Individual Comments

Very Useful.

AM Queen's Hospital, Romford

A long hard day but high yield stuff.

RH Torbay District General Hospital, Torquay

Relevant.

AM Queen's Hospital, Romford



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!

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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:

- General Surgery Exams
- Dental Students

- Medical Students

- Plastic Surgery Exams

- DOHNS Exams

- International Entrance Exams
- MRCS Exams

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