



**Cardiff MRCS OSCE Course:
Applied Surgical Sciences
& Critical Care**

Feedback - September 2016

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:	1st September 2016
Venue:	School of Biosciences Sir Martin Evans Building Cardiff
Attendance:	28 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**

MORNING SESSION

0825 - 0830 **Welcome, Introduction and Format (Prof S Enoch)**

0830 - 0900 **General Physiological Principles 1 (Dr P Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

0900 - 0930 **General Physiological Principles 2 (Dr P Morgan)**

- Sepsis
- Septic shock

0930 - 1040 **Respiratory System (Dr T 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

1100 - 1145 **Central nervous system (Dr P Morgan)**

- Cerebral autoregulation
- Causes and management of raised intra-cranial pressure including spaceoccupying lesions
- Head Injury

1145 - 1230 **Management of Burns (Prof S Enoch)**

- Assessment
- Indications for referral
- Pathophysiology and principles of management

1230 - 1300 **Physiological Principles in the Management of Trauma – Part 1 (Prof S Enoch)**

1300 - 1340

Lunch Break

Course Programme

AFTERNOON SESSION

1345 - 1430	Physiological Principles in the Management of Trauma – Part 2 (Prof S Enoch)
1430 - 1500	Critical Care OSCE Scenarios to include other systems (Prof S Enoch)
1500 - 1530	Basic Science and Surgical Critical Care (Prof S Enoch)
1530 - 1550	Coffee Break
1550 - 1625	General Physiological Principles 3 (Dr P Morgan) <ul style="list-style-type: none">• Bleeding• Coagulation/Anti-coagulation
1625 - 1700	Resuscitation, Temperature Regulation and Hypothermia (Dr P Morgan)
1700 - 1730	Principles of Epidural Anaesthesia/Assessment; Pain pathways (Dr P Morgan)
1730 - 1845	Surgical Microbiology (Prof S Enoch)
1845 - 1900	Summary and Feedback
1900	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

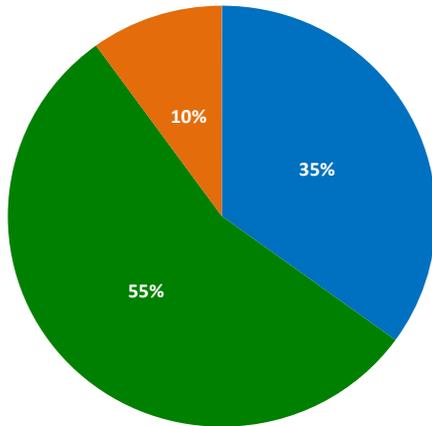
Dr Teresa Evans, FRCA

Consultant Anaesthetist

Royal Gwent Hospital, Newport

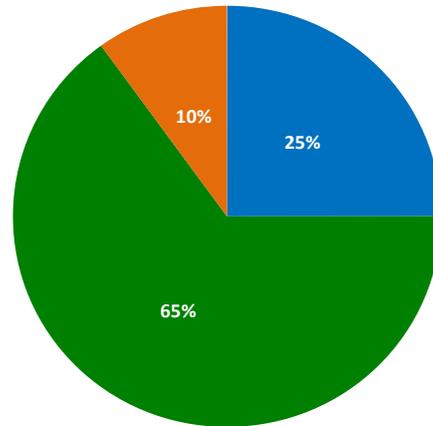
Overall Teaching Feedback

How was the content of the course?



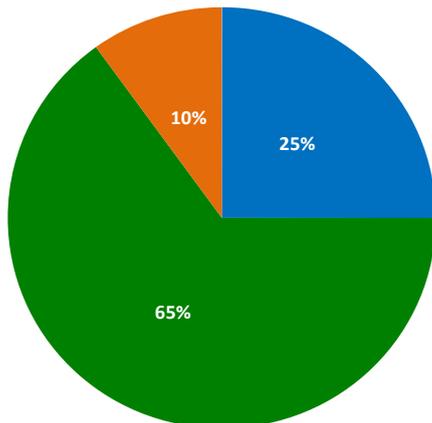
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

How was the clarity of presentations?



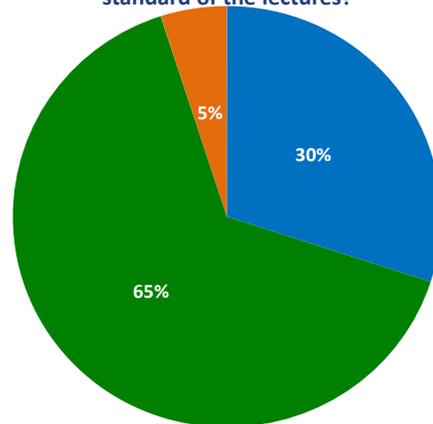
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

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



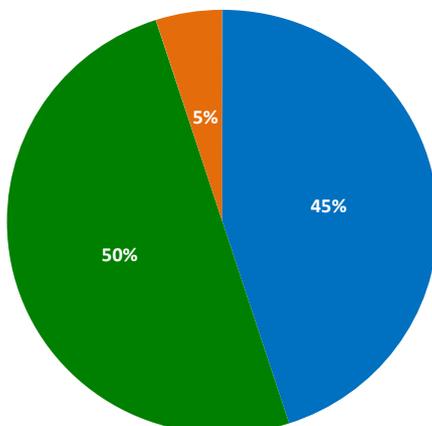
■ Very friendly ■ Friendly ■ Neutral ■ Indifferent ■ Unfriendly

How would you rate the general academic standard of the lectures?



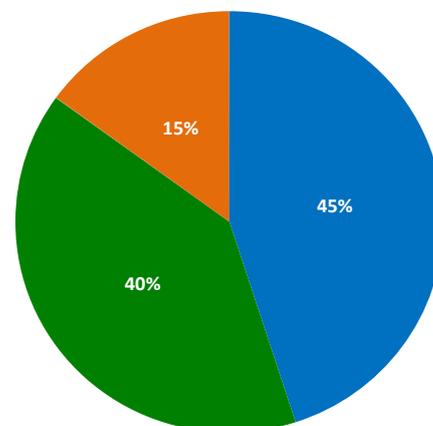
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Homeostasis and Acid-base Balance



■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

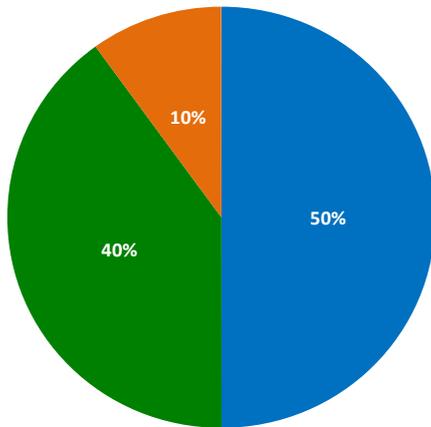
Respiratory Physiology



■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

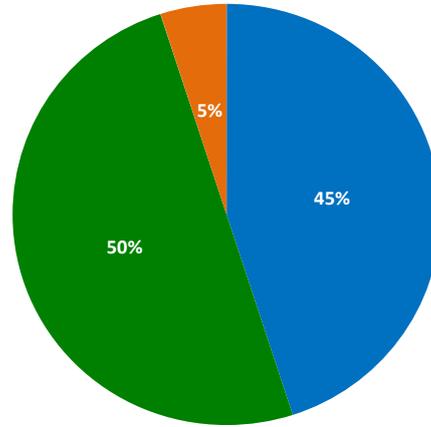
Overall Teaching Feedback

Neurophysiology



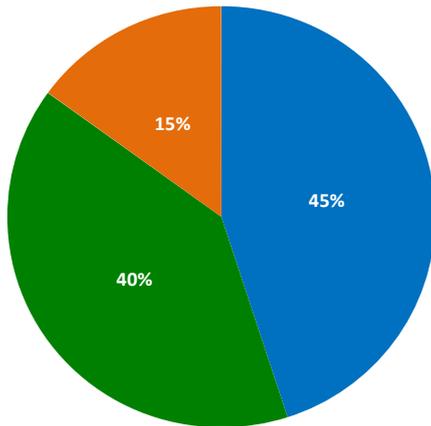
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Sepsis/Septic Shock



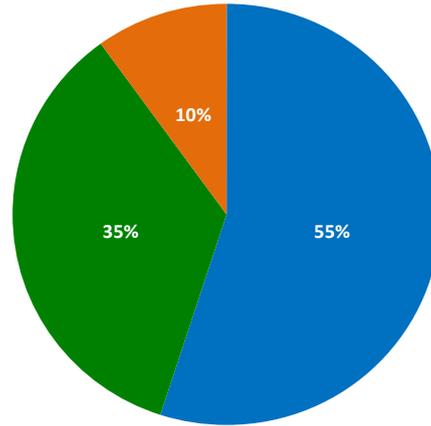
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Surgical Critical Care



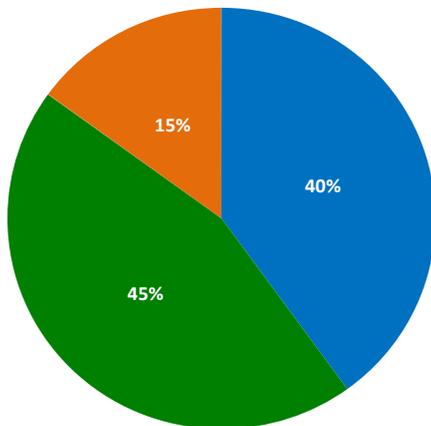
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Management of Burns



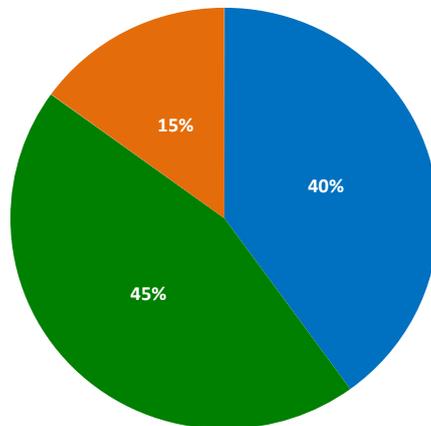
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Trauma and Post-op Management



■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

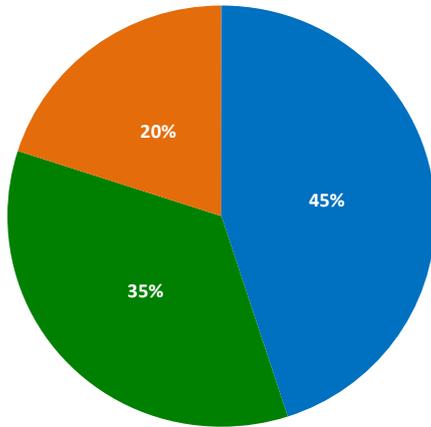
Bleeding/Coagulation



■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

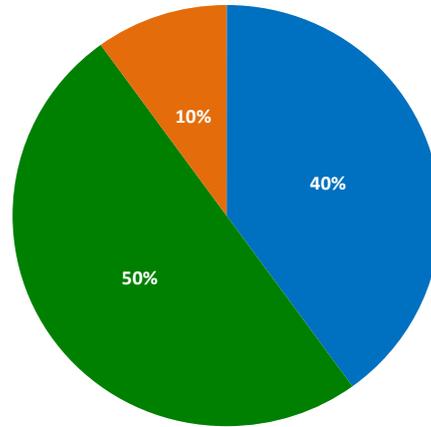
Overall Teaching Feedback

Epidural Anaesthesia



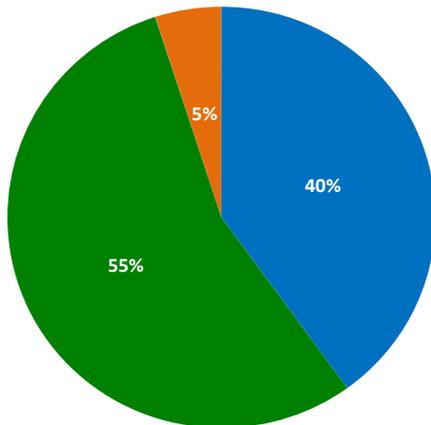
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Pain Management



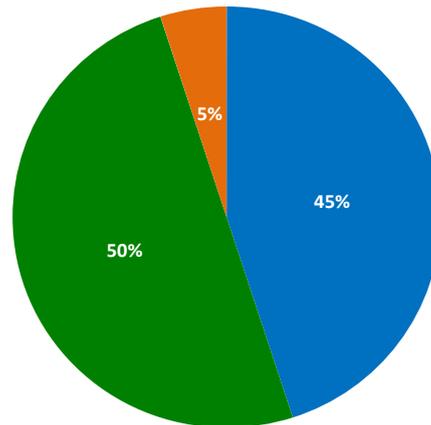
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Hypothermia



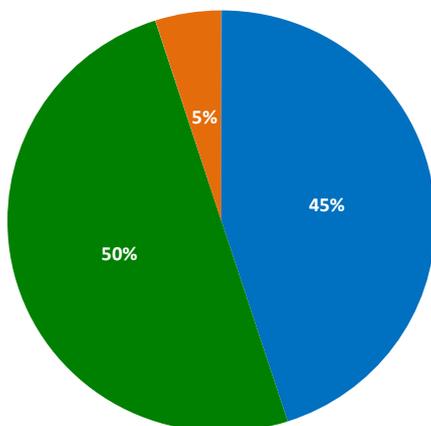
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Critical Care Scenarios



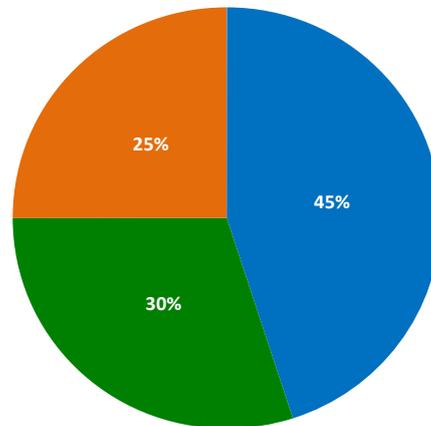
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Necrotising Fasciitis



■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

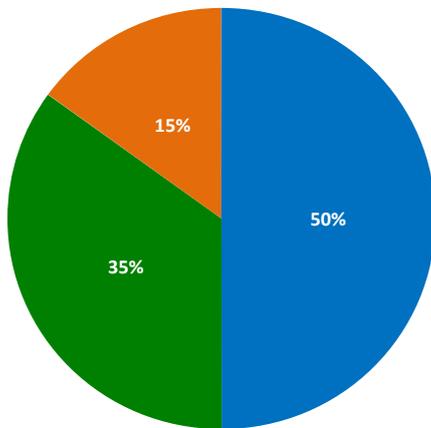
Tuberculosis



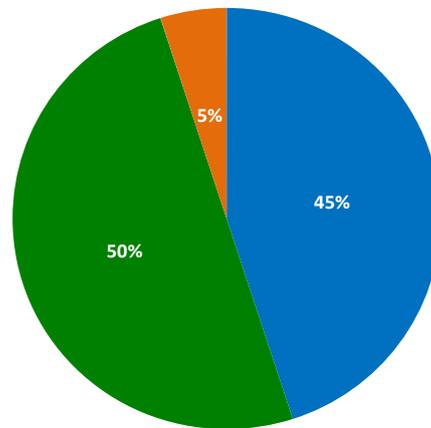
■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor

Overall Teaching Feedback

Surgical Microbiology



Would you recommend this course to a friend?



■ Excellent ■ Very Good ■ Neutral ■ Fair ■ Poor ■ Most certainly ■ Certainly ■ Neutral ■ Maybe ■ Don't think so

Individual Comments

Excellent course with a good faculty and teaching in very clear simple words.

MA
Queen Elizabeth Medical Centre, Birmingham

Anaesthetist who run the case scenarios with us was very concise, clear and made it more interesting.

MJ
Morrison Hospital, Swansea

Busy day, but gave a good foundation of knowledge to consolidate prior to the exam.

RS
Kettering General Hospital, Kettering

Good.

VC
Northern General Hospital, Sheffield

Very helpful.

SB
Cavan General Hospital, Ireland

I really enjoyed this part of the course. All tutors were knowledgeable and easy to approach with questions.

LL
John Radcliffe Hospital, Oxford

Content was good.

AW
University Hospital Waterford, Waterford, Ireland

Good.

VS
St Helier Hospital, Carshalton

Great course.

SZ
Leicester Royal Infirmary, Leicester

Individual Comments

Good.

MO
Aljara Hospital

Very good.

HA
Addenbrooke's Hospital, Cambridge

Good.

TA
Kettering General Hospital, Kettering

Great course.

SR
Hull Royal Infirmary, Hull

Very good course.

MU
Royal London Hospital, London

Very good experience. Made many difficult concepts seem very simple.

AA
Birmingham Heartlands Hospital, Birmingham



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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, 31st July to 4th August 2017
- **International Academic and Research Conference**
Manchester, 5th August 2017
- **World University Anatomy Challenge**
Manchester, 4th August 2017

Publications



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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:

- Medical Students
- Dental Students
- International Entrance Exams
- MRCS Exams
- General Surgery Exams
- Plastic Surgery Exams
- DOHNS Exams

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