

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

Feedback - April 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 a way which would help the candidates to answer the OSCE/viva stations in a structured, systematic and concise manner.

Course Information

Course date:	14th April 2016
Venue:	Lecture Theatre 3, Block A, University Hospital of Wales
Attendance:	36 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 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 (Mr Stuart Enoch)

0830 - 0900 General Physiological Principles 1 (Paul Morgan)

- Homeostasis, feedback loops
- Applied acid-base balance

0900 - 0930 General Physiological Principles 2 (Paul Morgan)

- Sepsis
- Septic shock

0930 - 1040 Respiratory System (Michael Argent)

- 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 - 1150 Management of Burns (Stuart Enoch)

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

1150 - 1250 Physiological Principles in the Management of Trauma (Stuart Enoch)

1250 - 1340

Lunch Break

Course Programme

AFTERNOON SESSION

1340 - 1415	General Physiological Principles 3 (Paul Morgan) <ul style="list-style-type: none">• Bleeding• Coagulation/Anti-coagulation
1415 - 1445	Central Nervous System (Paul Morgan) <ul style="list-style-type: none">• Cerebral autoregulation• Causes and management of raised intra-cranial pressure including spaceoccupying lesions• Head injury
1445 - 1530	Critical Care OSCE Scenarios to include other systems (Stuart Enoch)
1530 - 1550	Coffee Break
1550 - 1630	Resuscitation, Temperature Regulation and Hypothermia (Paul Morgan)
1630 - 1700	Principles of Epidural Anaesthesia/Assessment; Pain Pathways (Paul Morgan)
1700 - 1750	Basic Science and Surgical Critical Care (Stuart Enoch)
1750 - 1850	Surgical Microbiology (Stuart Enoch)
1850 - 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)

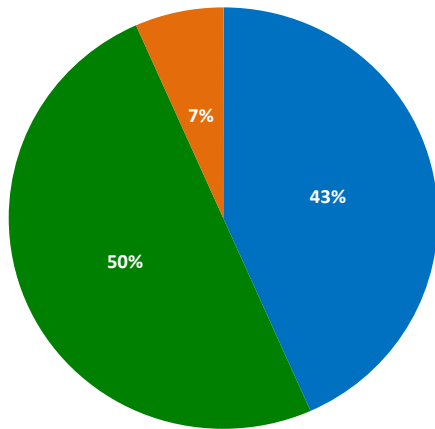
Senior Lecturer; Director of Education & Research

Doctors Academy Group

Michael Argent

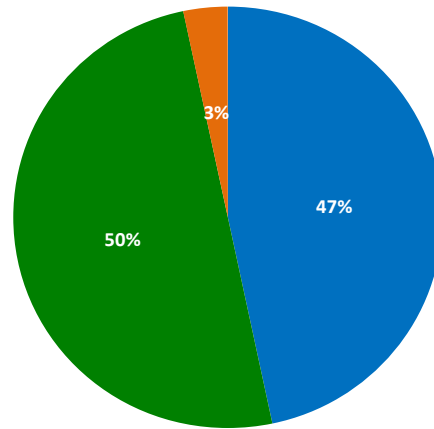
Overall Teaching Feedback

How was the content of the course?



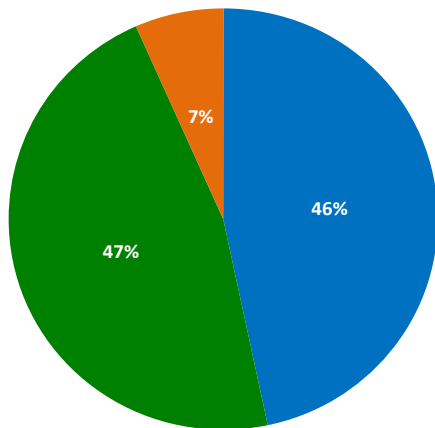
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

How was the clarity of presentations?



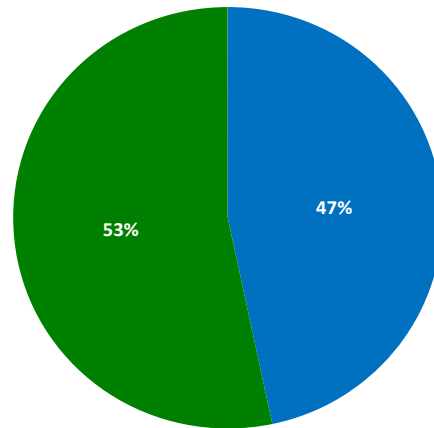
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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



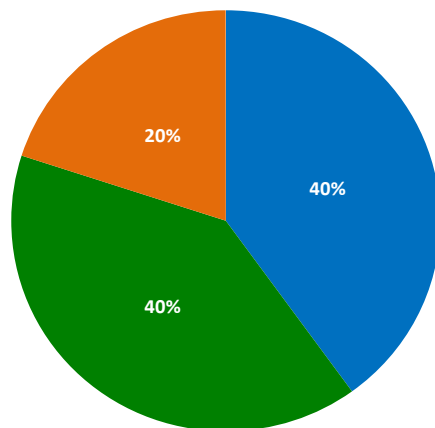
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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



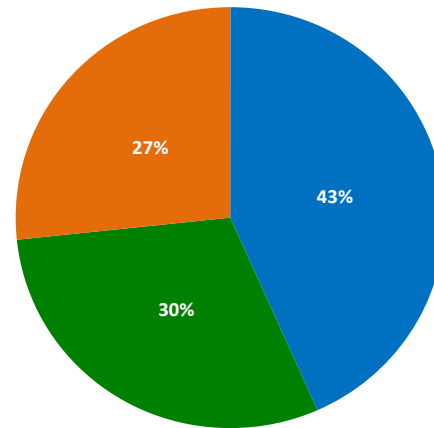
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Respiratory Physiology



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

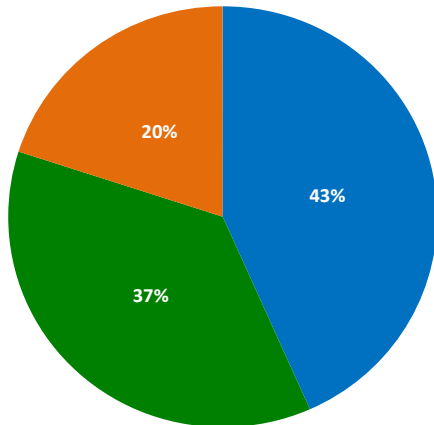
Homeostasis and Acid-Base Balance



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

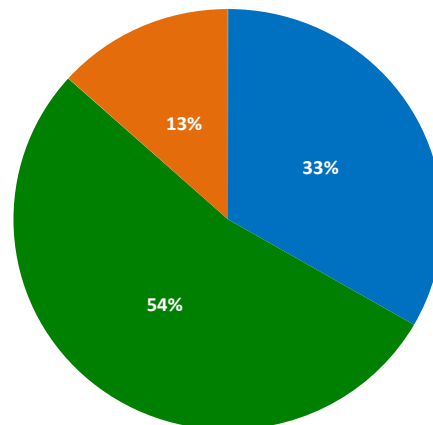
Overall Teaching Feedback

Surgical Critical Care



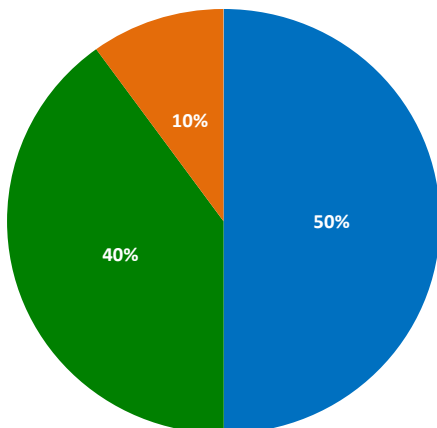
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Neurophysiology



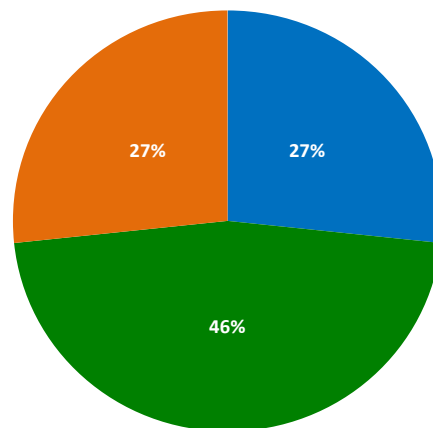
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Sepsis/Septic Shock



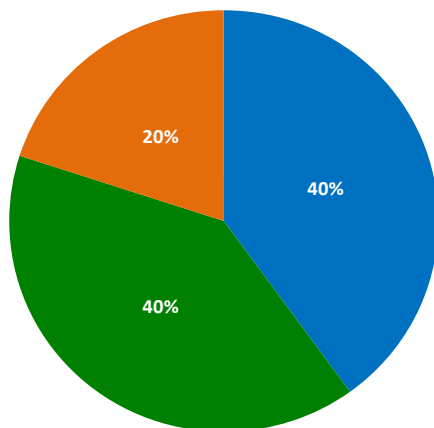
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Epidural Anaesthesia



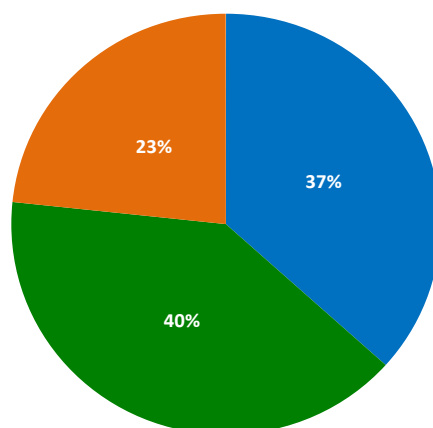
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Pain Management



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

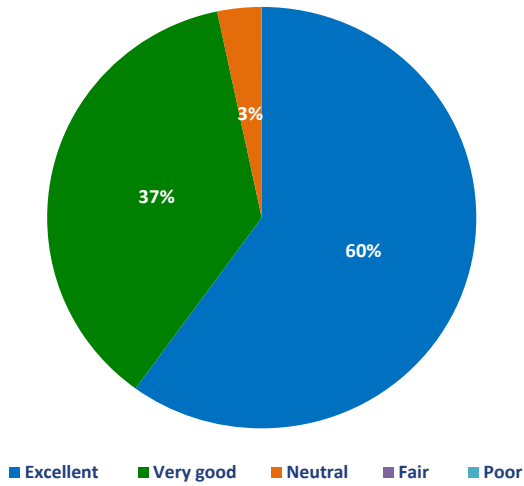
Hypothermia



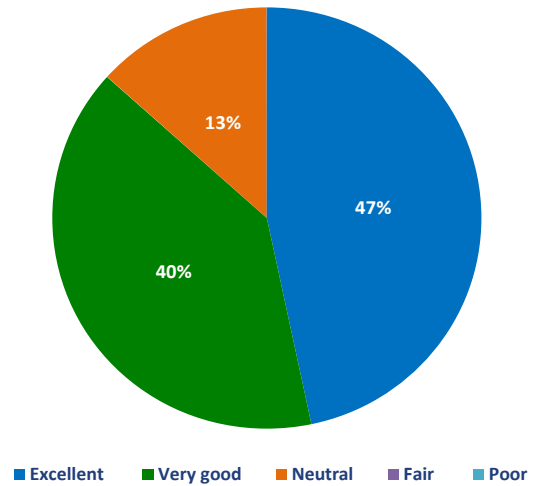
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Overall Teaching Feedback

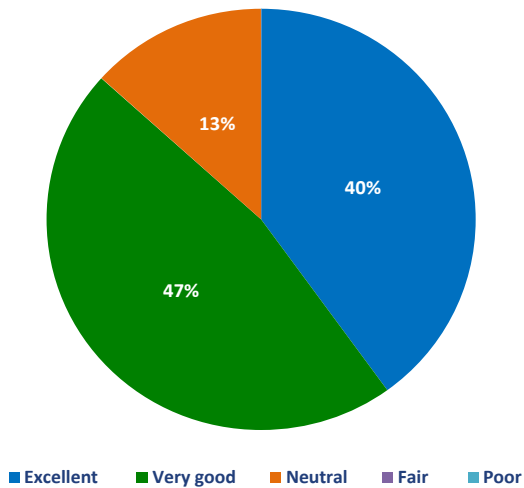
Management of Burns



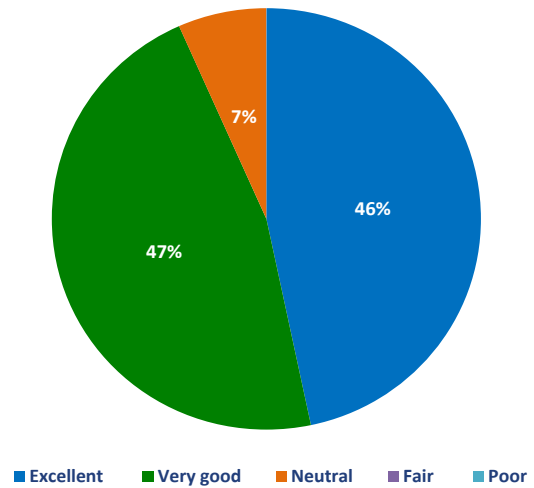
Trauma and Post-Op Management



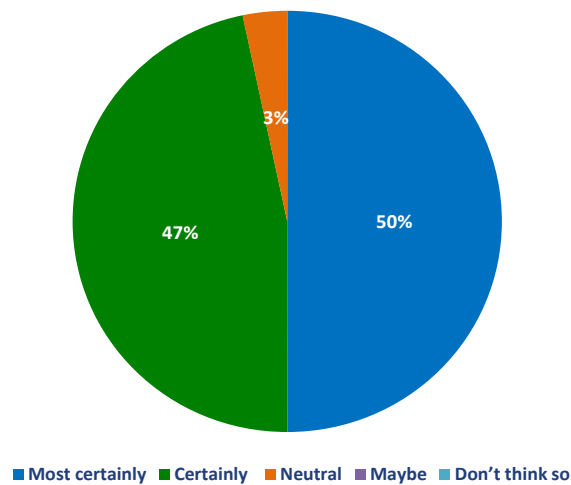
Critical Care Scenarios



Necrotising Fasciitis



Would you recommend this course to a friend?



Individual Comments

Organization great, teaching and presentations good.

JE
Southmead Hospital, Bristol

Teaching was interactive and pitched at the right level. Engaging speakers.

SD
North Manchester General Hospital, Manchester

Excellent course with very understanding faculty

RK
Vydehi Hospital, Bangalore

Overall a very useful course.

MZ
Princess Alexandra Hospital, Harlow

A lot to take on board but really well done. I thought the lecture with the cases and discussion around those topics was most useful.

KS
University Hospital of Wales, Cardiff

Really excellent content.

JG
University Hospital of Wales, Cardiff

Very good Course.

RM
John Radcliffe Hospital, Oxford

Good Course.

AS
King's College Hospital, London

Concise teaching, very relevant.

MH
Whittington Hospital, London

Individual Comments

Excellent - especially the anatomy.

HG
Royal Liverpool Children's Hospital, Liverpool

Intense but good.

SN
St James's University Hospital, Leeds

An excellent course. Fast paced. Relevant, concise and hopefully will aid me in passing the exam.

KE
Victoria Barracks, Windsor

Good course.

BM
Royal Marsden Hospital, London

Good.

SB
Southmead Hospital, Bristol

Good presentations.

KM
West Middlesex University Hospital, Isleworth

Very useful.

MA
Nottingham City Hospital, Nottingham

The course was very well organised and the teaching was enthusiastic.

CH
King's College Hospital, London

Good course. I would recommend the course.

MF
Russells Hall Hospital, Dudley

Excellent.

KB
John Radcliffe Hospital, Oxford

Individual Comments

Well organised and delivered.

HB
University Hospital of Wales, Cardiff

Good.

MU
St.Luke Hospital Ireland

Excellent faculty covering topics relevant to the exam at an appropriate level.

JL
Royal Bolton Hospital, Bolton

Very, very good.

WE
St.James's Hospital

Very good.

SH
Royal London Hospital, London

Great.

RP
Milton Keynes General Hospital, Milton Keynes

Excellent course. A lot squeezed into the day but all seemed relevant. Good quality of presentations and good venue. Liked that we were told which topics were frequently asked in the exam.

FD
Morrison Hospital, Swansea

Excellent course. Well delivered. Concise. Best part was the surgical OSCE stations and mock exam.

PE
Princess Alexandra Hospital, Harlow

Very well organized. Obviously a lot of content to fit into one day but very well delivered and taught.

JA
Morrison Hospital, Swansea



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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
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- MRCS Exams
- General Surgery Exams
- Plastic Surgery Exams
- DOHNS Exams

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