

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

Feedback - January 2017

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:	19th January 2017
Venue:	School of Biosciences Sir Martin Evans Building Cardiff
Attendance:	35 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 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

0930 - 1040 **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

1040 - 1100

Coffee Break

1105 - 1150 **Central nervous system (Dr Paul Morgan)**

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

1150 - 1245 **Cardiology (Tom Combella)**

- Cardiac cycle
- JVP
- STEMI
- Arrhythmias
- Pre-op aspects including murmurs
- Valvular heart disease
- CCF

1245 - 1320

Lunch Break

Course Programme

AFTERNOON SESSION

1345 - 1410	Surgical ITU Physiology and Basics of CTh Surgery (Tom Combellack) <ul style="list-style-type: none">• Cardiothoracic surgery basics including CABG• Valve replacement surgeries• Lung cancer• Pneumonectomies• Thoracic trauma
1410 - 1440	Physiological Principles in the Management of Trauma – Part 1 (Lara Jayatilaka)
1440 - 1510	Physiological Principles in the Management of Trauma – Part 2 (Lara Jayatilaka)
1510 - 1530	Basic Science and Surgical Critical Care - Part 1 (Stuart Enoch)
1530 - 1550	Coffee Break
1550 - 1630	Management of Burns (Stuart Enoch) <ul style="list-style-type: none">• Assessment• Indications for referral• Pathophysiology and principles of management
1630 - 1700	General Physiological Principles 3 (Paul Morgan) <ul style="list-style-type: none">• Bleeding• Coagulation/Anti-coagulation
1700 - 1730	Resuscitation, Temperature Regulation and Hypothermia (Paul Morgan)
1730 - 1750	Principles of Epidural Anaesthesia/Assessment; Pain pathways (Paul Morgan)
1800 - 1820	Short topics in Critical Care (Stuart Enoch)
1830	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

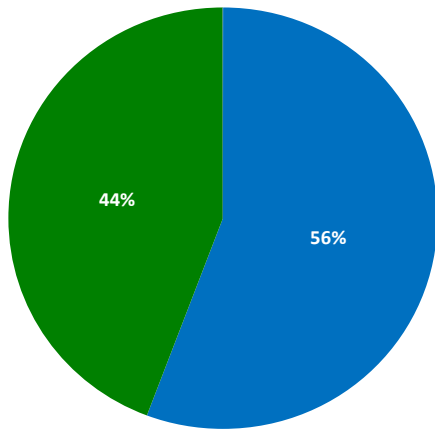
Dr Teresa Evans, FRCA

Consultant Anaesthetist

Royal Gwent Hospital, Newport

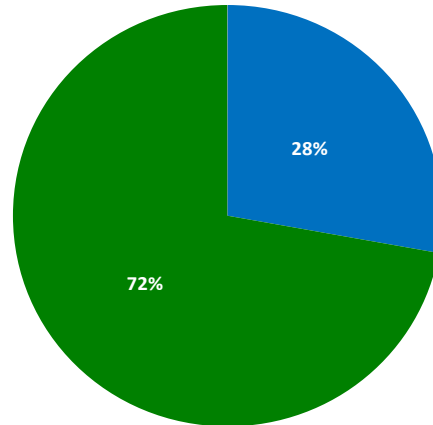
Overall Teaching Feedback

How was the content of the course?



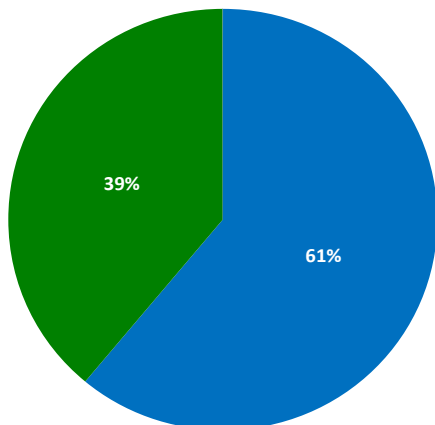
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

How was the clarity of presentations?



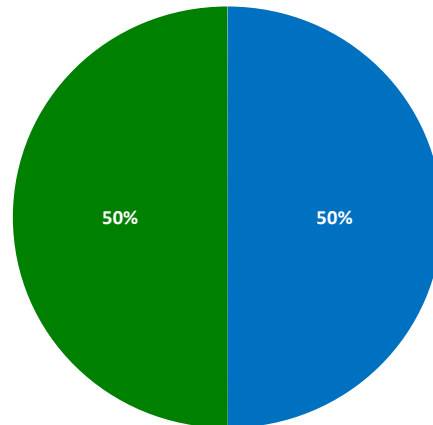
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How do you rate the relevance of the course to your exam?



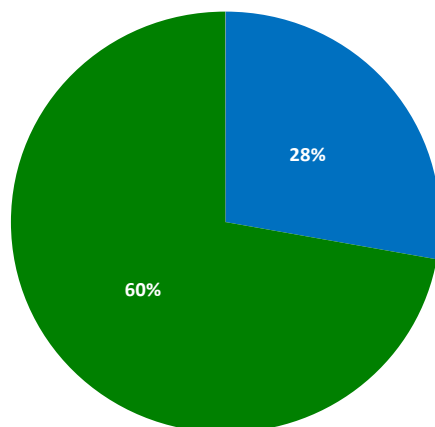
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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



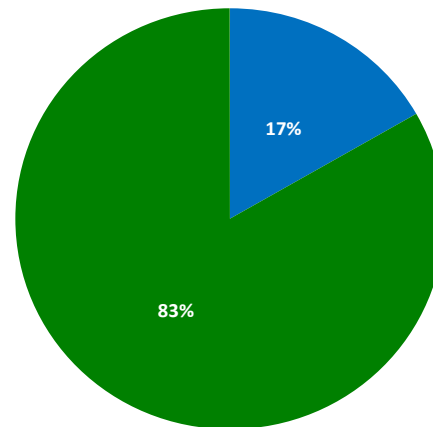
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Homeostasis and Acid-Base Balance



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

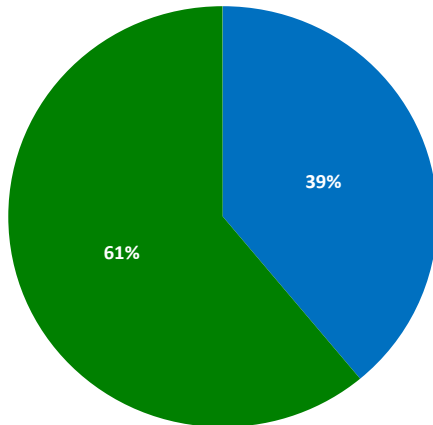
Bleeding and Coagulation



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

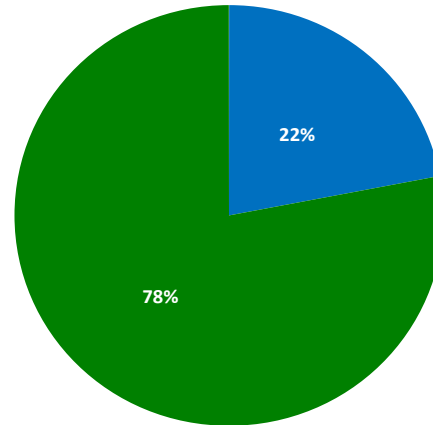
Overall Teaching Feedback

Respiratory system



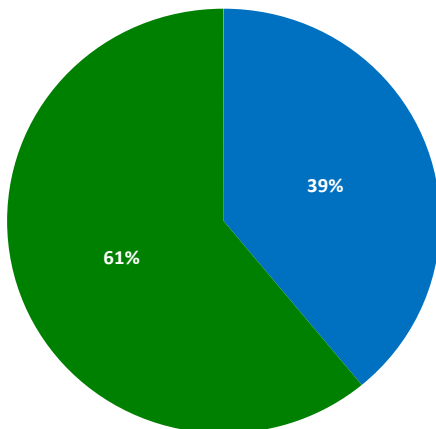
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Central nervous system



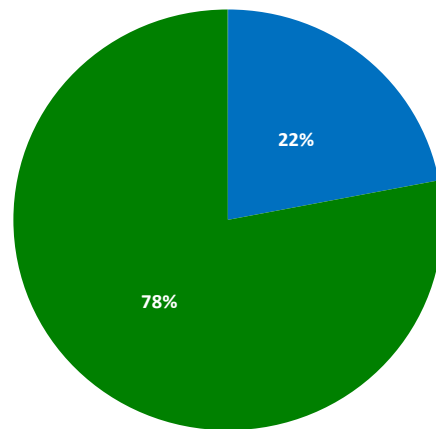
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Cardiology



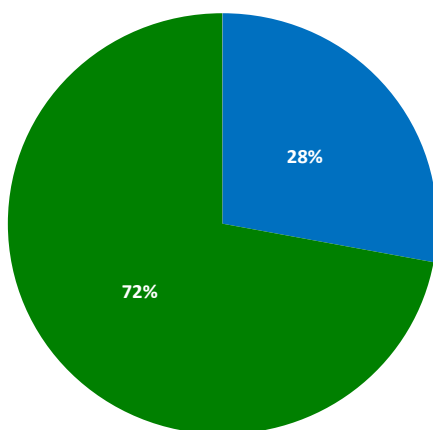
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Surgical ITU Physiology and Basics of CTh Surgery



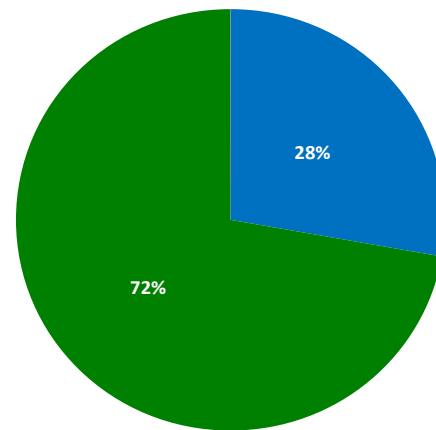
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Physiological Principles in the Management of Trauma – Part 1



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

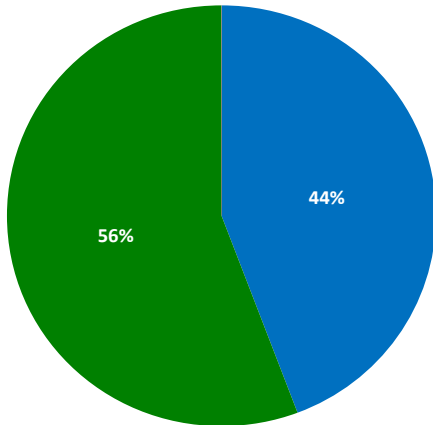
Physiological Principles in the Management of Trauma – Part 2



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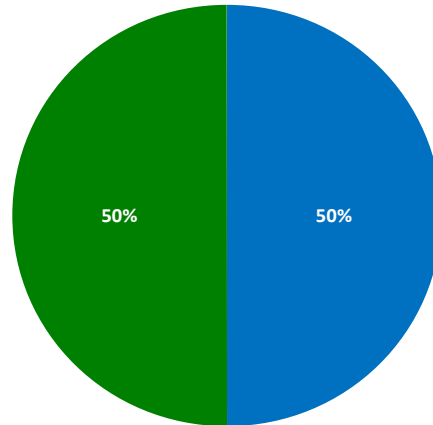
Overall Teaching Feedback

Graphs in Critical Care



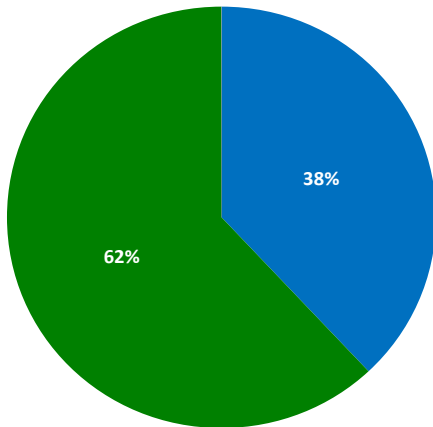
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Management of Burns



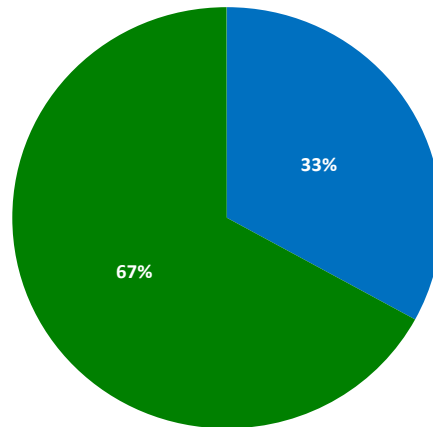
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Sepsis and Shock



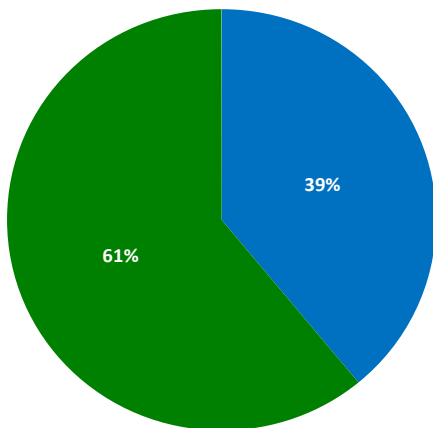
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Resuscitation, Temperature Regulation and Hypothermia



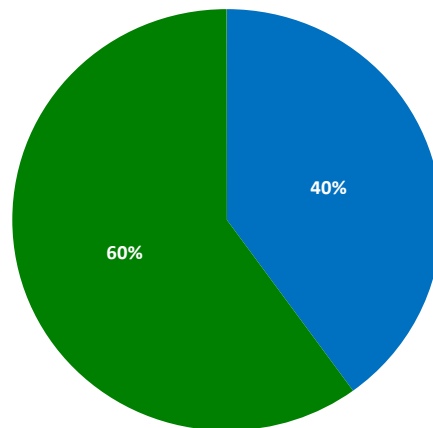
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Principles of Epidural Anaesthesia/Assessment; Pain pathways



■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

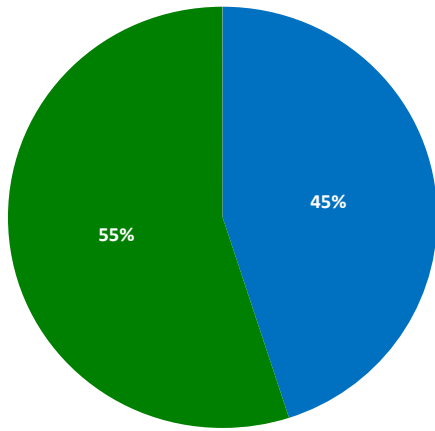
Myoglobinuria



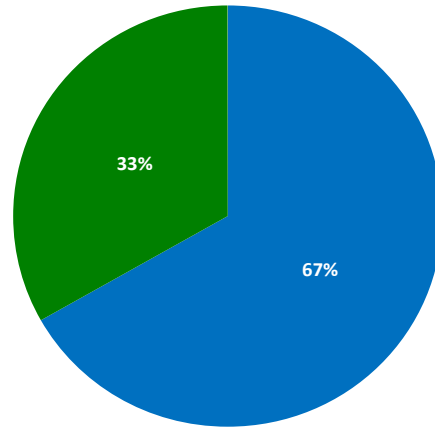
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Overall Teaching Feedback

Would you recommend this course to a friend?



Do you think that this course provided good value for money?



■ Most certainly ■ Certainly ■ Neutral ■ Maybe ■ Don't think so ■ Most certainly ■ Certainly ■ Neutral ■ Maybe ■ Don't think so

Individual Comments

Very nicely organised, very good presentations.

FL
Queen Elizabeth Medical Centre, Birmingham

Very good.

AA
Queen Elizabeth Medical Centre, Birmingham

Excellent.

NA
Norfolk and Norwich University Hospital, Norwich

Excellent.

MU
Royal Sussex County Hospital, Brighton

Very good course.

WS
Wrexham Maelor Hospital, Wrexham

Impressed.

OF
Royal Brompton Hospital, London

Worth attending it.

MU
University hospital Galway, Ireland

Excellent.

AS
John Radcliffe Hospital, Oxford

Good.

MH
Newham General Hospital, London

Individual Comments

High professionalism, friendly environment, very relevant to the exam.

VP

Royal National Orthopaedic Hospital, Stanmore

Good, knowledgeable faculty, relevant.

AT

Morrison Hospital, Swansea

It was overall a very comprehensive cover of important topics.

NG

Midland Regional Hospital Tullamore Co.Offaly



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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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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.

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