



DOCTORS ACADEMY

BETTER EDUCATION. BETTER HEALTH.

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

Feedback - January 2020

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

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

The course was delivered using a series of interactive lectures with an OSCE focus using OSCE scenarios. All major areas as stipulated in the MRCS Part B syllabus were covered.

Topics:

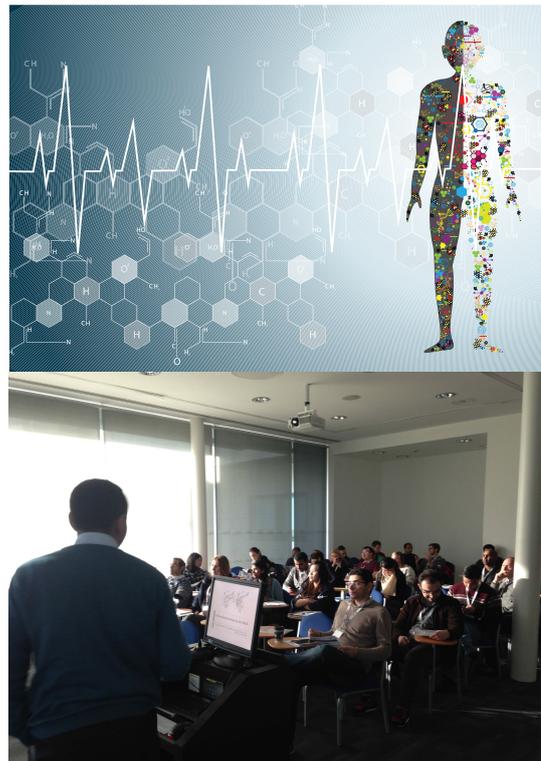
- General Physiological Principles
- Cardiovascular System
- Respiratory System
- Endocrine System
- Renal System
- Central Nervous System
- Gastrointestinal System
- Burns
- Management of Patients Undergoing Surgery
- Management of Trauma
- Surgical Microbiology

Course Information

Course Date:	30th January 2020
Venue:	School of Biosciences, Cardiff University, Cardiff
Attendance:	47 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.



Course Programme

0815 - 0820 **Registration**

MORNING SESSION

0820 - 0830 **Welcome, Introduction and Format (Prof Stuart Enoch)**

0830 - 0920 **Physiological Principles in the Management of Trauma (Prof Stuart Enoch)**

- Long bone fractures
- Fracture neck of femur
- Pelvic fractures
- Polytrauma
- Hypovolemic shock and management

0920 - 1030 **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

1030 - 1045

Coffee Break

1055 - 1125 **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

1125 - 1155 **General Physiological Principles 2 (Dr Paul Morgan)**

- Sepsis
- Septic shock

1200 - 1300

OSCE Discussion and Lunch

Course Programme

EARLY AFTERNOON SESSION

- 1300 - 1340** **Management of Major Burns (Prof Stuart Enoch)**
- Assessment
 - Pathophysiology and principles of management
 - Inhalation burns; fluids and nutrition
 - Indications for referral
- 1340 - 1410** **Fluid and Renal Physiology (Prof Stuart Enoch)**
- 1410 - 1425** **Rhabdomyolysis (Prof Stuart Enoch)**
- 1430 - 1530** **Spinal Cord Injuries and Cord Syndromes (Prof Stuart Enoch)**
- Vertebral fractures
 - Cord compression; conus medullaris and cauda equina syndrome
 - Spinal and neurogenic shock
 - Autonomic nervous system and bladder dysfunction
 - Spinal cord lesions and vascular conditions
- 1530 - 1600** **Calcium Metabolism and Its Role in Surgery (Prof Stuart Enoch)**

1600 - 1615 **Coffee Break**

LATE AFTERNOON SESSION

- 1615 - 1645** **General Physiological Principles 3 (Dr Paul Morgan)**
- Bleeding
 - Coagulation/Anti-coagulation
- 1645 - 1715** **General Physiological Principles 4 (Dr Paul Morgan)**
- Resuscitation
 - Temperature regulation
 - Hypothermia
- 1715 - 1745** **General Physiological Principles 5 (Dr Paul Morgan)**
- Principles of epidural anaesthesia/assessment
 - Pain pathways
 - Pre-op assessment
- 1745 - 1815** **Central Nervous System (Dr Paul Morgan)**
- Cerebral autoregulation
 - Causes and management of raised intra-cranial pressure
 - Management of head injury

Course Programme

1830 - 1915	Infection, Surgical Microbiology and Scenarios in Surgical Critical Care (Prof Stuart Enoch) <ul style="list-style-type: none">• Tuberculosis• Necrotising fasciitis• Compartment syndrome• Nerve injuries• Action potentials• Bilirubin metabolism
1915	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, MBBS, MRCSEd, MRCS (Eng), PGCert (Med Sci), PhD

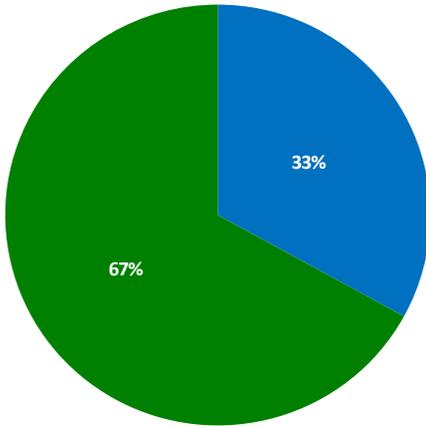
Professor, Higher Surgical Education
Doctors Academy

Dr Teresa Evans, FRCA

Consultant Anaesthetist
Royal Gwent Hospital, Newport

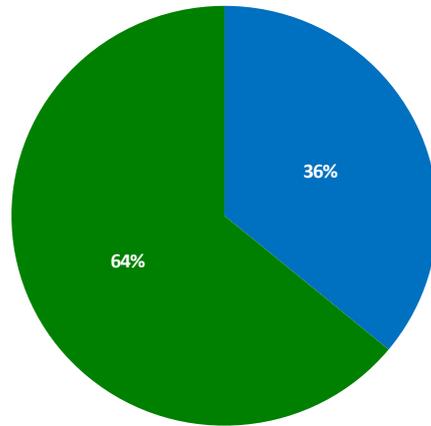
Overall Teaching Feedback

How was the content of the course?



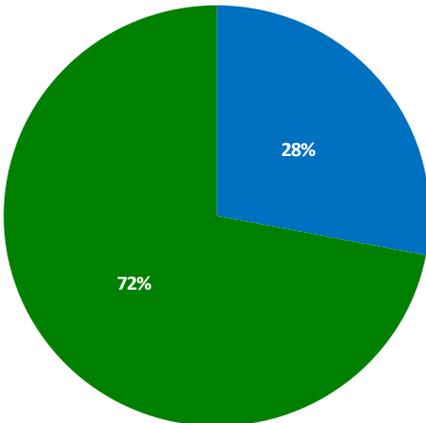
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

How was the clarity of the presentations?



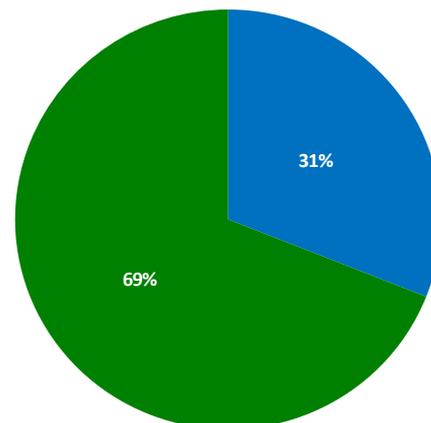
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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



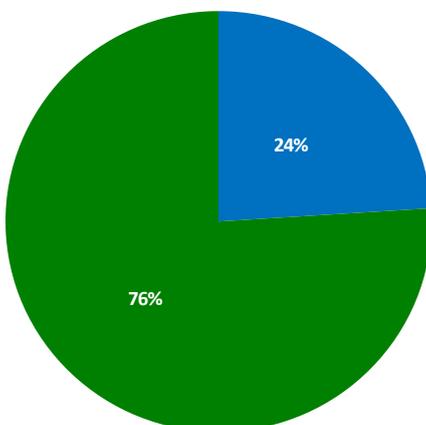
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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



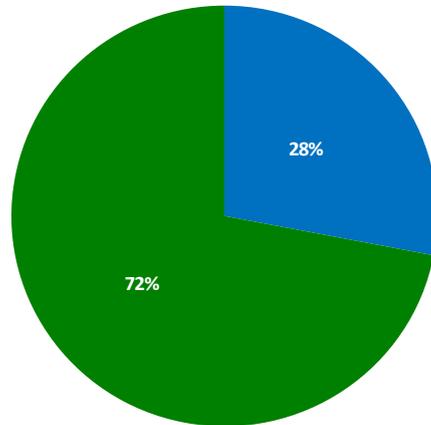
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Pelvic Fractures and Urological Injuries



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

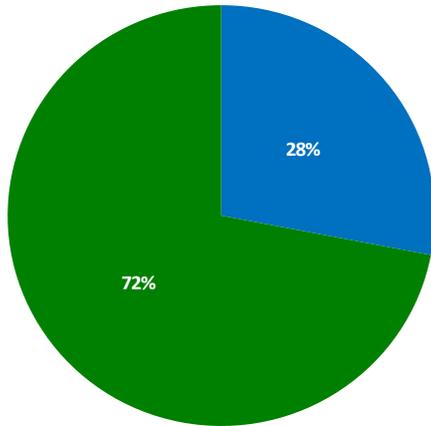
Hypovolemic Shock and Management



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

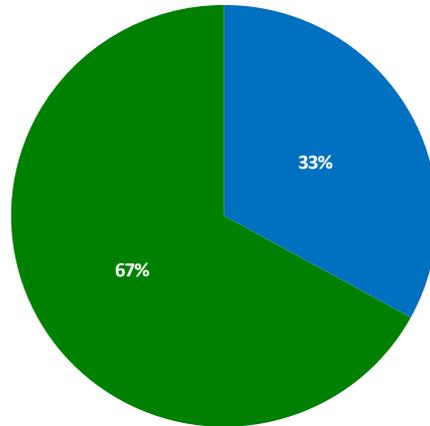
Overall Teaching Feedback

Management of Massive Haemorrhage



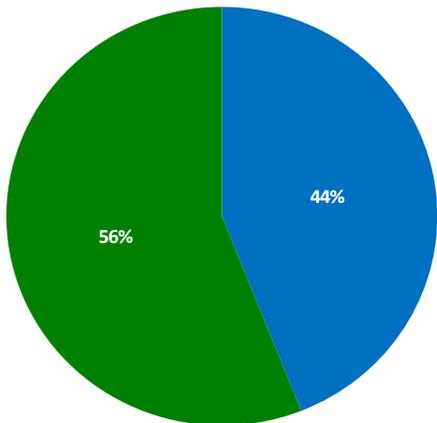
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Normal Ventilatory Cycle and Controls of Ventilation



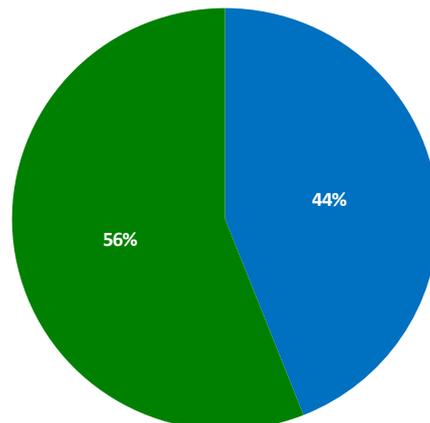
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Causes and Management of Post-Operative Respiratory Failure



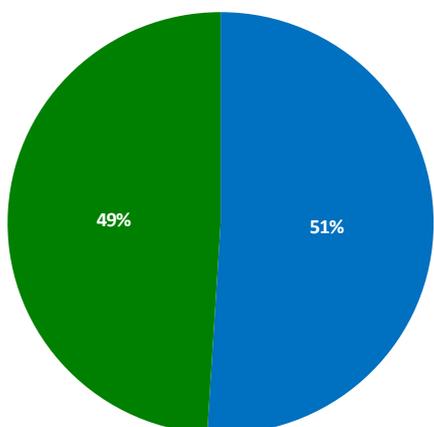
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Indications for Ventilatory Support and Weaning Off Ventilator



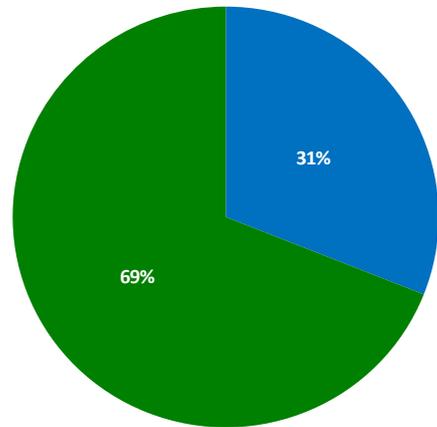
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Acute (Adult) Respiratory Distress Syndrome



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

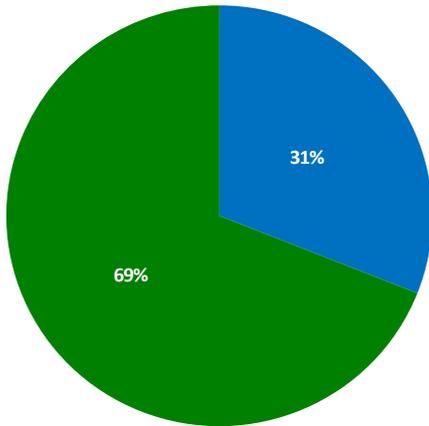
Homeostasis Feedback Loops



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

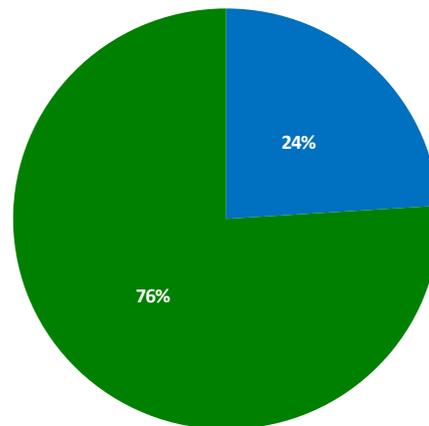
Overall Teaching Feedback

Applied Acid-Base Balance



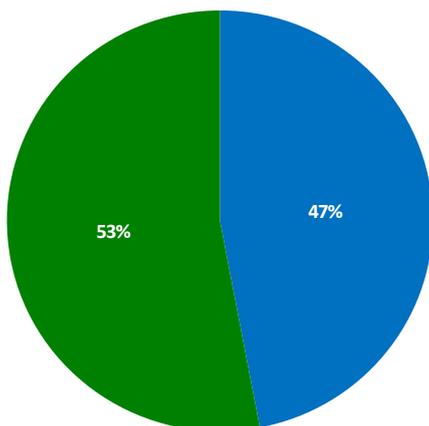
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Sepsis and Septic Shock



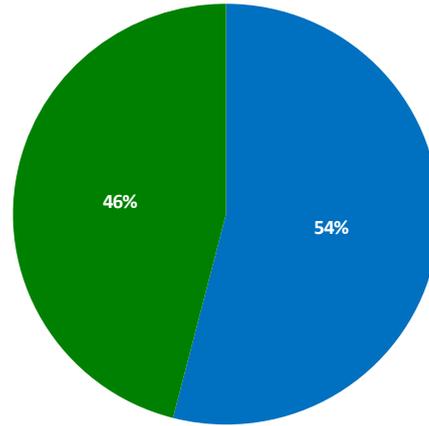
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Assessment of Burns



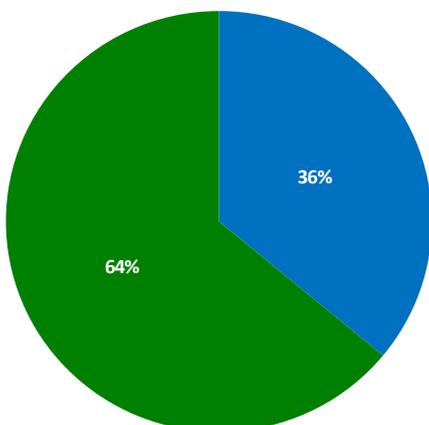
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Pathophysiology and Principles of Management in Burns



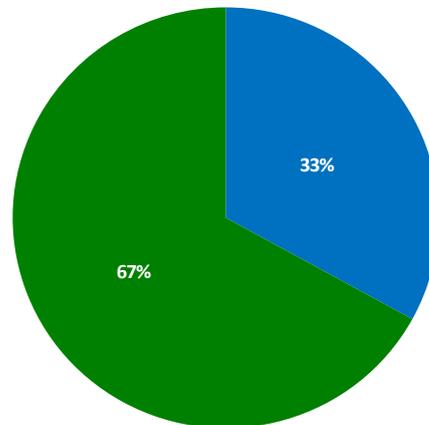
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Fluids and Renal Physiology



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

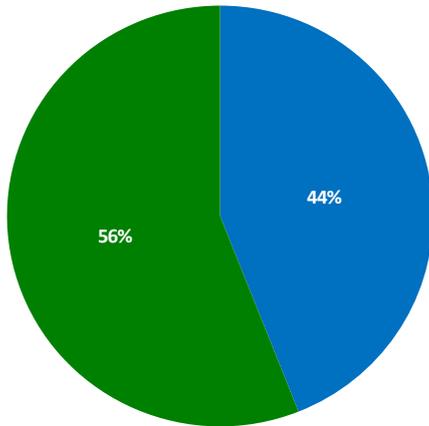
Rhabdomyolysis



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

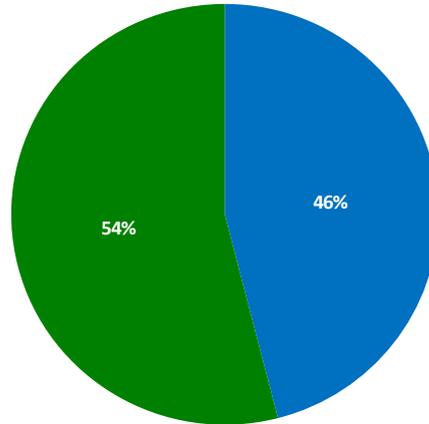
Overall Teaching Feedback

Spinal Cord Injuries and Cord Syndromes



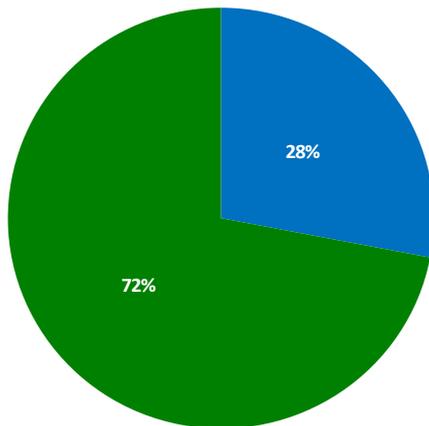
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Autonomic Nervous System and Bladder Dysfunction



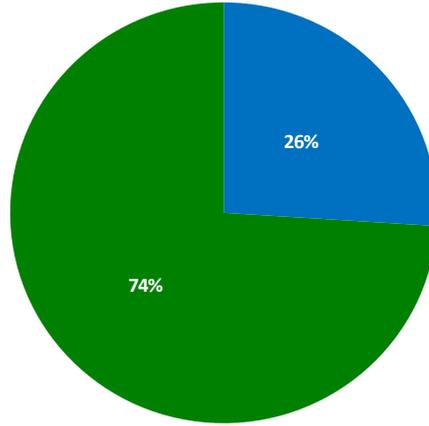
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Bleeding, Coagulation/Anti-Coagulation



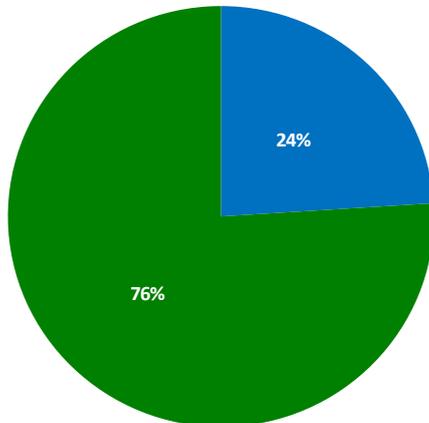
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Resuscitation, Temperature Regulation and Hypothermia



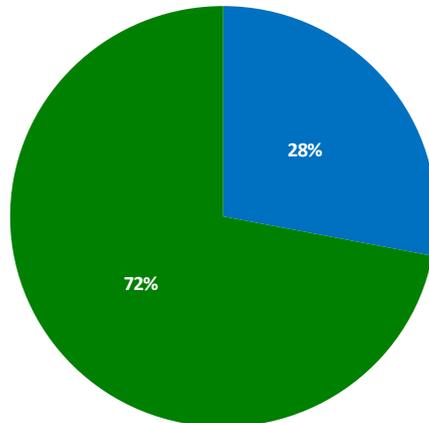
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Principles of Epidural Anaesthesia/Assessment and Pain Pathways



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

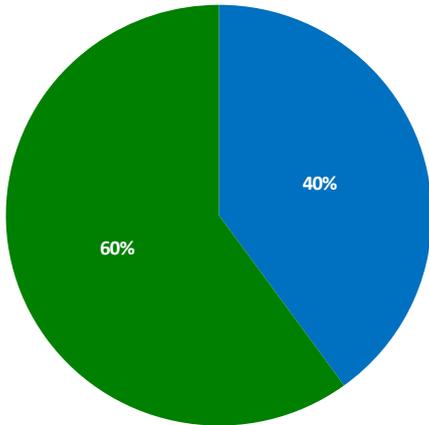
Cerebral Autoregulation and Management of Head Injury



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

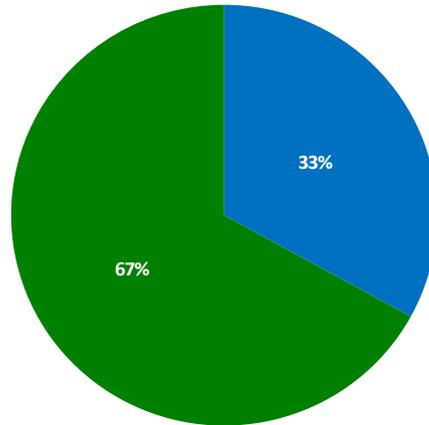
Overall Teaching Feedback

Calcium Metabolism



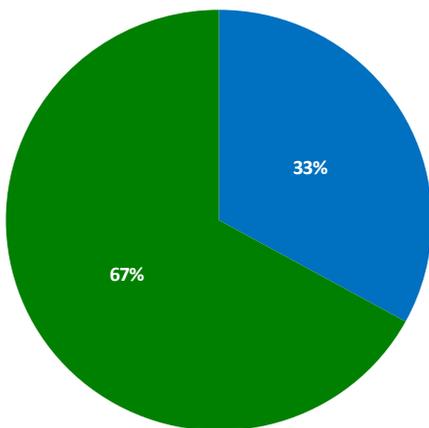
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Compartment Syndrome



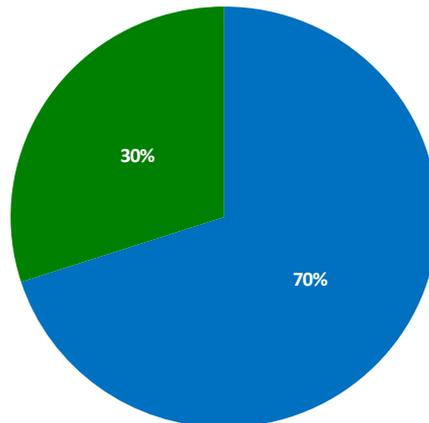
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Bilirubin Metabolism



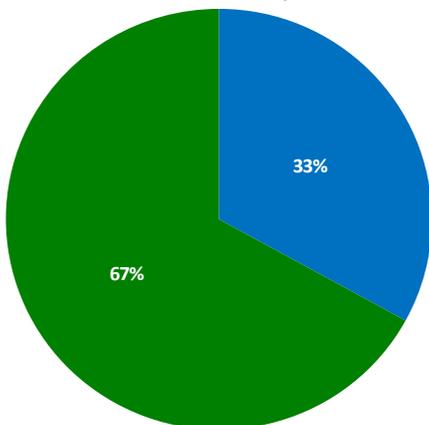
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Would you recommend this course to a friend?



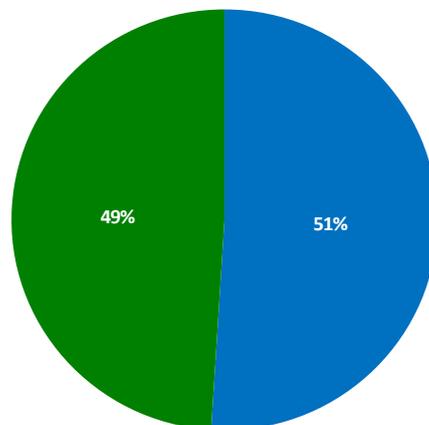
■ Most certainly ■ Certainly ■ Neutral ■ Maybe ■ Don't think so

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



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

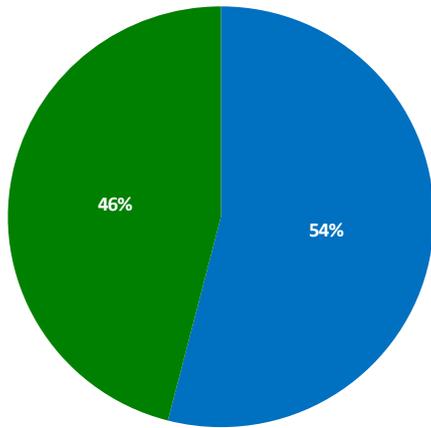
How were the facilities and venue?



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

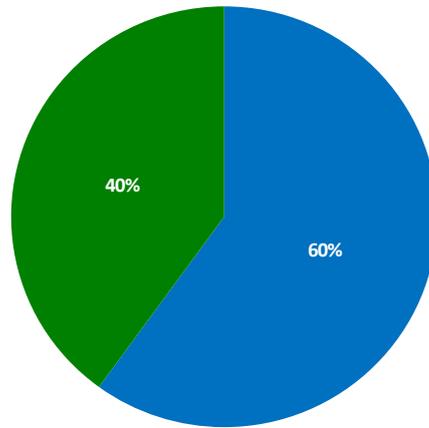
Overall Teaching Feedback

How were the refreshments and lunch?



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

How was the general friendliness of the faculty and organisers?



■ Very friendly ■ Friendly ■ Neutral
■ Not very friendly ■ Can't comment

Individual Comments

Good.

FS

Excellent!

MB

This was an excellent course. It was very intensive, but it was worth it.

AR

Western Sussex Hospitals NHS Foundation Trust, United Kingdom

Excellent.

DM

Beaumont Hospital, Dublin, Republic of Ireland

It was good and worth it.

NH

University Hospitals Coventry and Warwickshire NHS Trust, United Kingdom

Overall, it was an excellent course and I would definitely recommend it.

HL

Gloucestershire Royal Hospital, Gloucester, United Kingdom

It was excellent. It provided me with the chance to do focused revision for the course. In addition, it inspired me to become involved in the teaching of surgery when I return to my native country later this year.

TA

North Cumbria University Hospitals NHS Trust, United Kingdom

The course was generally very helpful.

JV

Leicester General Hospital, Leicester, United Kingdom

This was a very good course to consolidate learning and understanding.

MA

North Middlesex University Hospital NHS Trust, United Kingdom

I liked it: it was good value for money, the staff were friendly, there was a friendly atmosphere, the hospital was nice, and the food was good. I would be happy to come again.

AD

Individual Comments

Fantastic!

SB

Churchill Hospital, Headington, United Kingdom

Good preparation.

KW

Huddersfield Royal Infirmary, Huddersfield, United Kingdom

It was very good.

WC

St John's Hospital, United Kingdom

It was very positive.

SL

Southmead Hospital, Bristol, United Kingdom

Excellent.

UF

Mater University Hospital, Dublin, Republic of Ireland

This was an excellent, intensive course.

MM

John Radcliffe Hospital, Oxford, United Kingdom

It was very good.

DF

Royal Victoria Infirmary, Newcastle upon Tyne, United Kingdom

Overall, it was a positive experience, especially during the anatomy days.

ZJ

University Hospital of Wales, Cardiff, United Kingdom

The revision was beneficial for the upcoming MRCS exam.

KG

Southmead Hospital, Bristol, United Kingdom

This was a great experience.

KE

Worthing Hospital, Worthing, United Kingdom

Individual Comments

This was an excellent course; it was very helpful for MRCS preparation.

AK

North Manchester General Hospital, Manchester, United Kingdom

It was brilliant. A lot of the topics were touched upon. It was definitely worth the money.

AS

Royal Wolverhampton Hospitals NHS Trust, United Kingdom

It was great, thank you.

DC

Victoria Hospital, Kirkcaldy, United Kingdom

Excellent.

SK

Hillingdon Hospital NHS Foundation Trust, United Kingdom

It was very good.

TM

James Cook University Hospital, Middlesbrough, United Kingdom



DOCTORS ACADEMY

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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
- International Academic and Research Conference
- World University Anatomy Challenge

Publications



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World Journal of Medical Education & Research



Peer-reviewed academic journal
with ISSN.

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- 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:

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

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