



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

Feedback - September 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:	20th September 2018
Venue:	School of Biosciences, Cardiff University, Cardiff
Attendance:	37 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

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

0830 - 0930 **Physiological Principles in the Management of Trauma (Prof Stuart Enoch)**

- Long bone fractures
- Fracture neck of femur
- Pelvic fractures
- Polytrauma
- Compartment syndrome
- Nerve injuries

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 - 1055

Coffee Break

1100 - 1135 **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

1135 - 1210 **General Physiological Principles 2 (Dr Paul Morgan)**

- Sepsis
- Septic shock

1210 - 1245 **General Physiological Principles 3 (Dr Paul Morgan)**

- Bleeding
- Coagulation/Anti-coagulation

1255 - 1340

Lunch Break

Course Programme

AFTERNOON SESSION

1340 - 1410 **Resuscitation, Temperature Regulation, and Hypothermia (Dr Paul Morgan)**

1410 - 1450 **Principles of Epidural Anaesthesia/Assessment; Pain pathways;
Pre-op Assessment (Dr Paul Morgan)**

1450 - 1520 **Central nervous system (Dr Paul Morgan)**

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

1530 - 1550 **Coffee Break**

1550 - 1630 **Management of Burns (Prof Stuart Enoch)**

- Assessment
- Pathophysiology and principles of management
- Inhalation burns
- Fluids and Nutrition
- Indications for referral

1630 - 1700 **Wound Healing, Reconstruction and LA (Prof Stuart Enoch)**

1700 - 1730 **Spinal Cord Injuries and Syndromes (Prof Stuart Enoch)**

1730 - 1745 **Rhabdomyolysis (Prof Stuart Enoch)**

1800 - 1845 **OSCE topics in Surgical Critical Care and Surgical Microbiology
(Prof Stuart Enoch)**

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

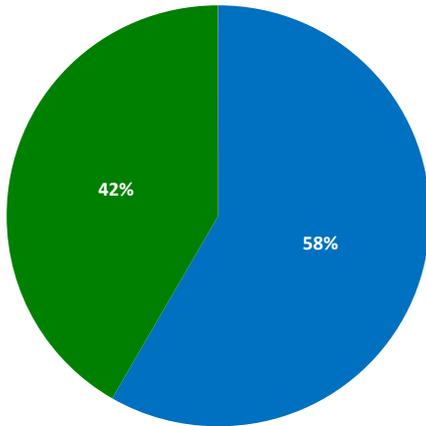
Professor Stuart Enoch, MB BS, PhD, PGCert (Med Sci), MRCSEd, MRCS (Eng)

Senior Lecturer; Director of Education & Research

Doctors Academy Group

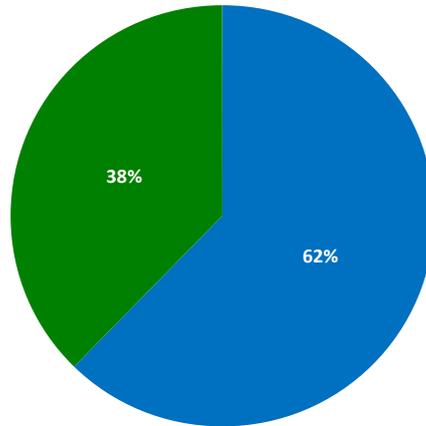
Overall Teaching Feedback

How was the content of the course?



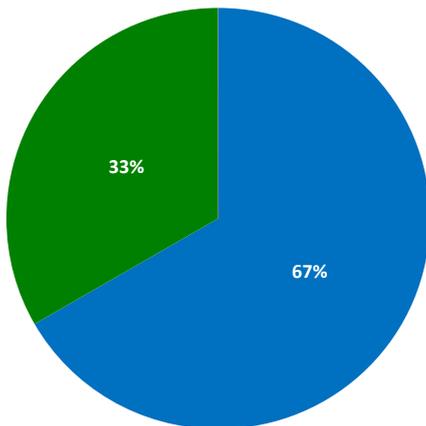
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

How was the clarity of presentations?



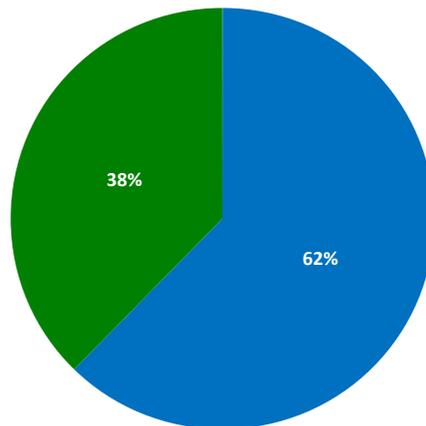
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How do you rate the relevance of the course to your exam?



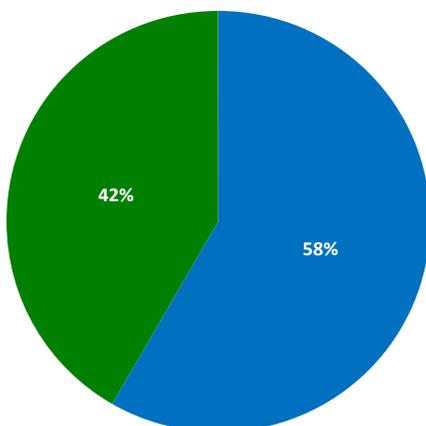
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

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



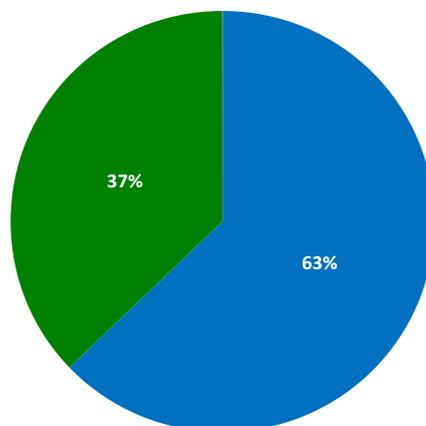
■ Excellent ■ Very good ■ Neutral ■ Fair ■ Poor

Homeostasis and Fluid Management



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

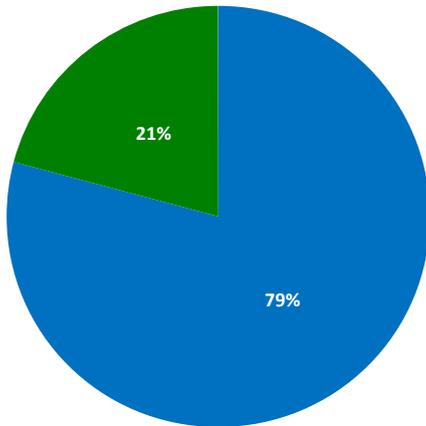
Applied Acid-Base Balance



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

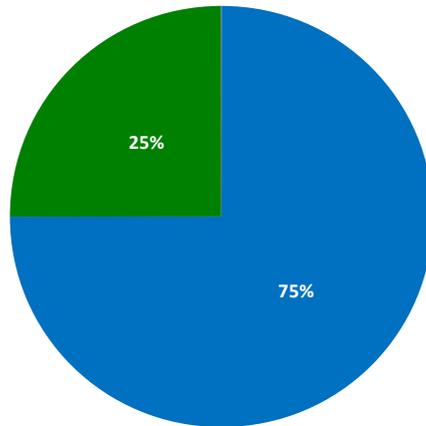
Overall Teaching Feedback

Sepsis



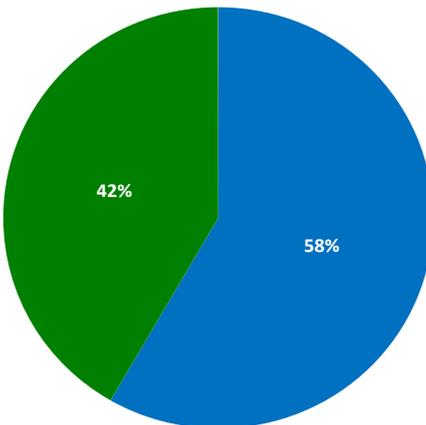
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Septic Shock



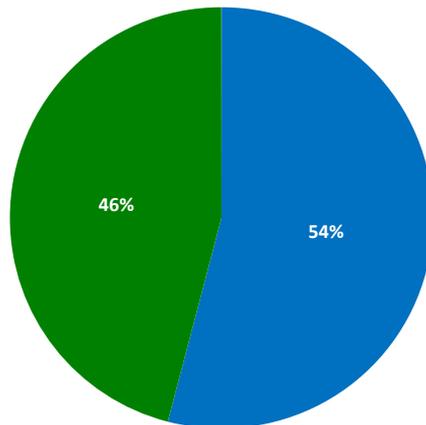
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Normal Ventilatory Cycle



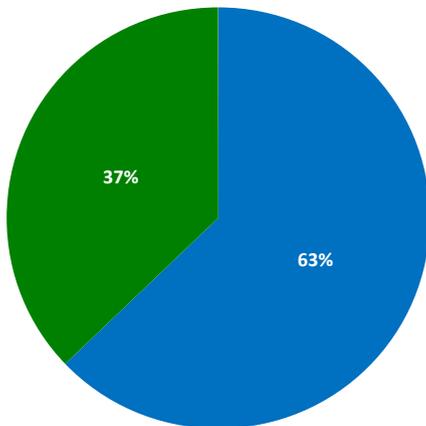
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Controls of Ventilation



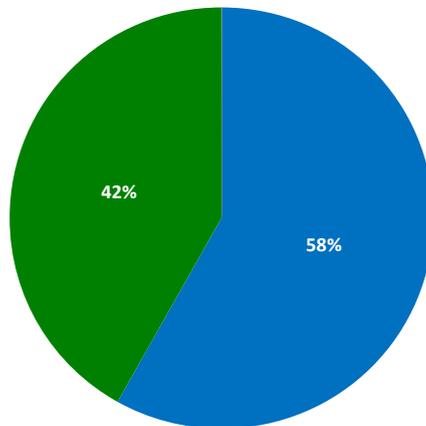
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Causes and Management of Post-operative Respiratory Failure



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

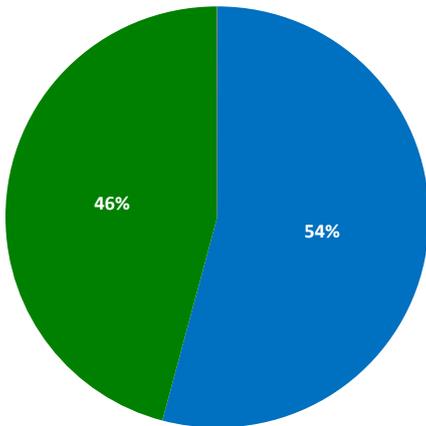
Indications for Ventilatory Support and Weaning Off Ventilator



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

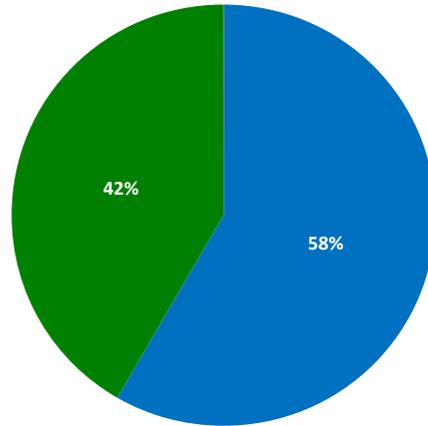
Overall Teaching Feedback

Intermittent Positive Pressure Ventilation



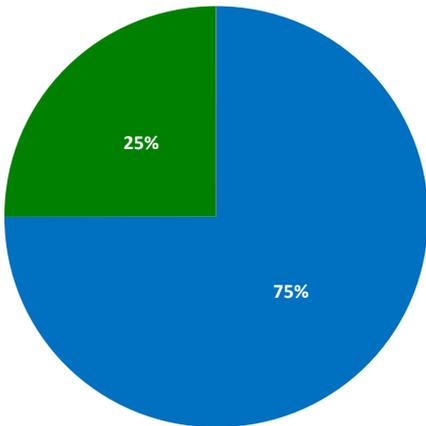
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Acute Respiratory Distress Syndrome



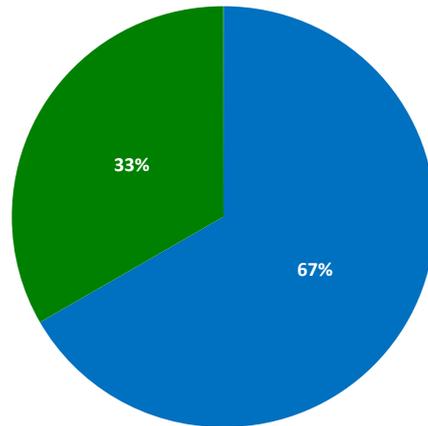
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Pathophysiology and Principles of Management in Burns



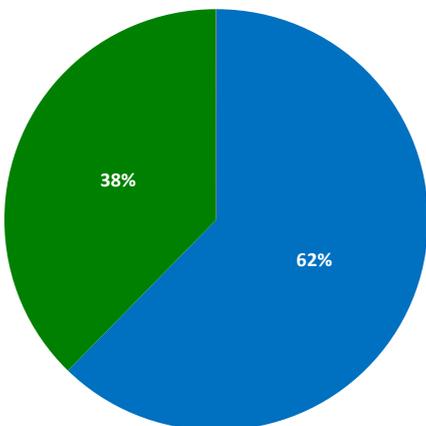
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Inhalation Burns



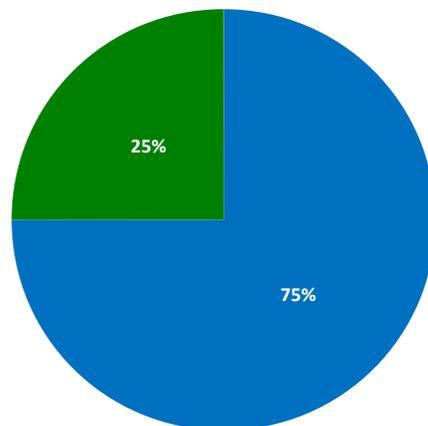
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Fluids and Nutrition in Burns



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

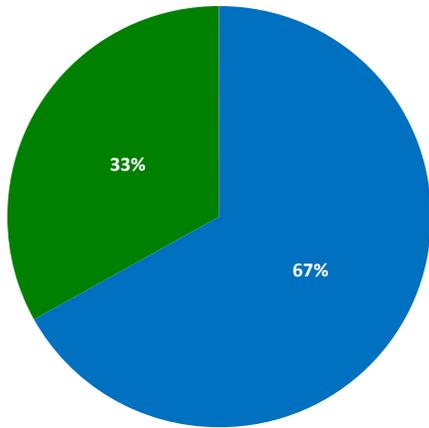
Indications for Referral in Burns



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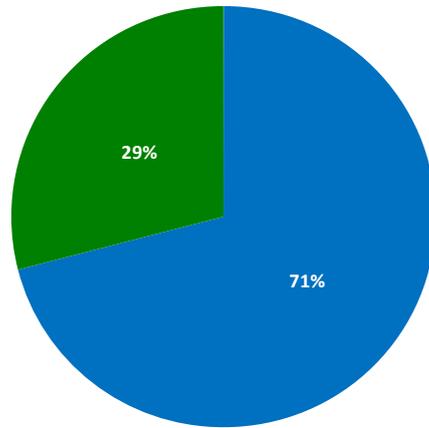
Overall Teaching Feedback

Principles of Management of Pelvic Fractures



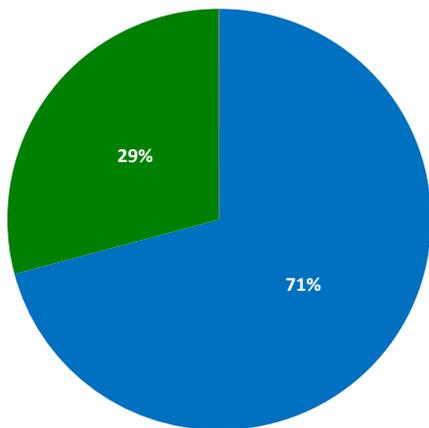
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Long Bone Fractures



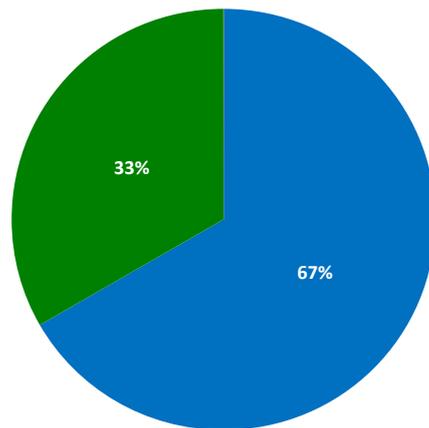
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Compartment Syndrome



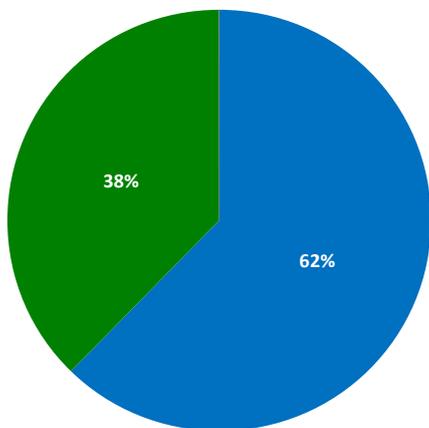
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Basics of Wound Healing and Reconstruction



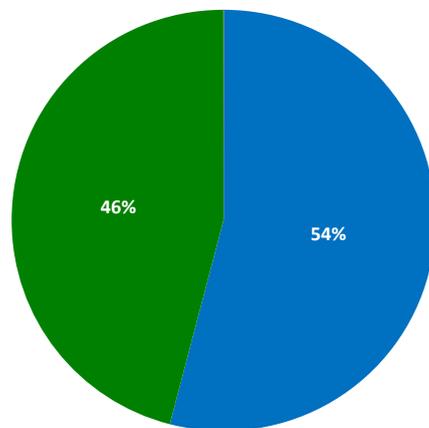
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Bleeding



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

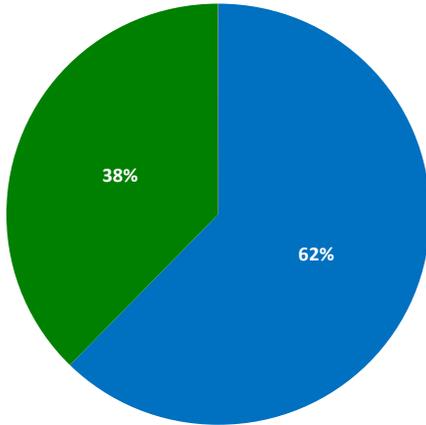
Coagulation/Anti-coagulation



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

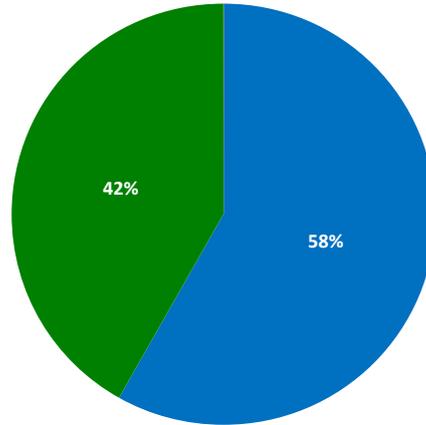
Overall Teaching Feedback

Resuscitation



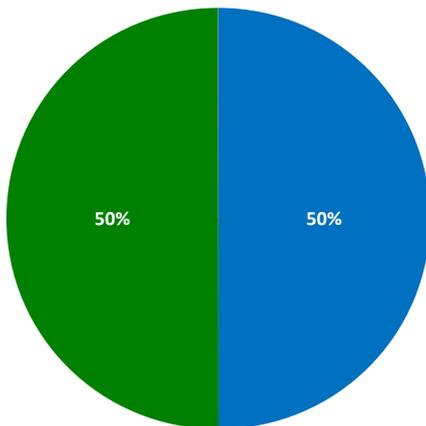
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Temperature Regulation



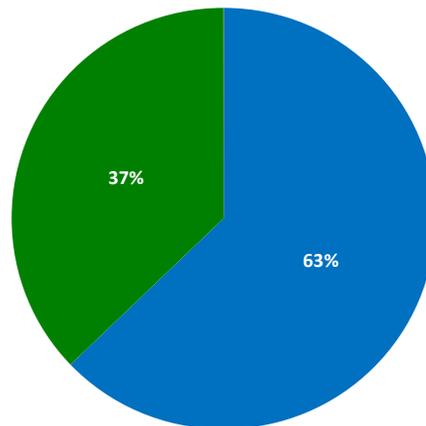
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Hypothermia



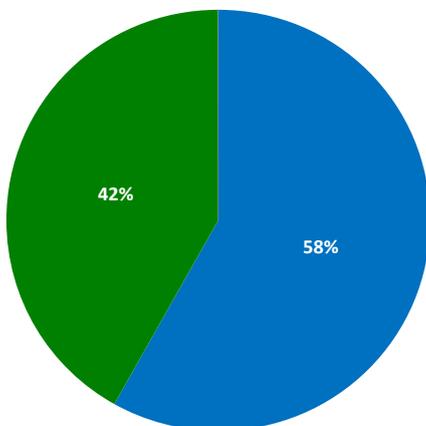
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Necrotising Fasciitis



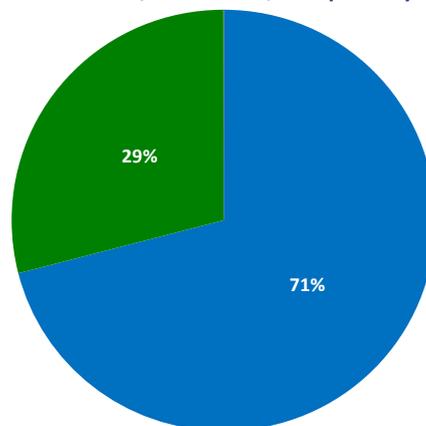
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Acute Kidney Injury



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

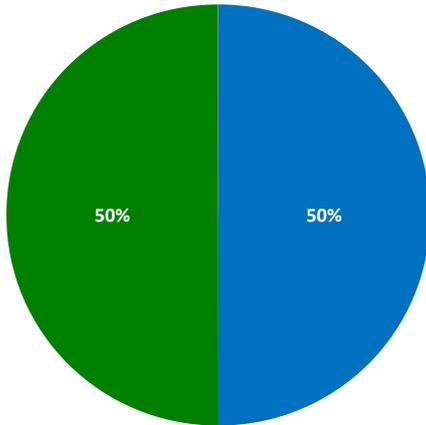
Principles of Epidural Anaesthesia/Assessment; Pain pathways



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

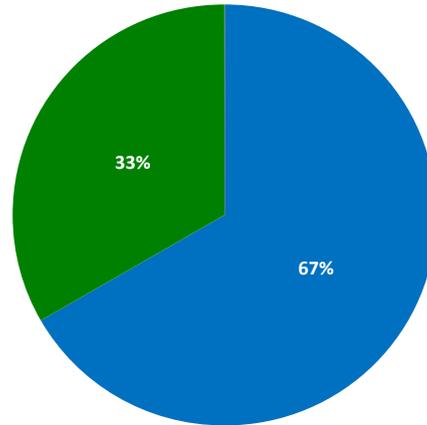
Overall Teaching Feedback

Rhabdomyolysis



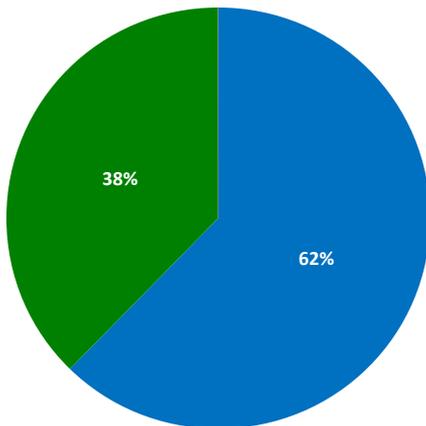
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Head Injury



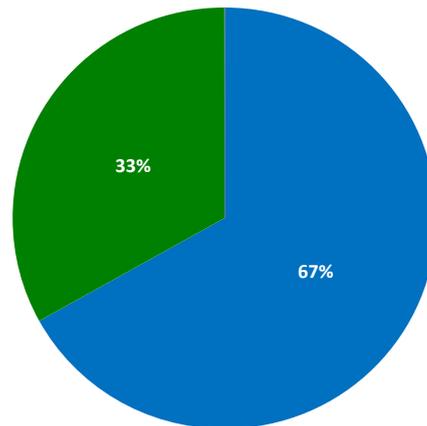
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Subarachnoid Haemorrhage



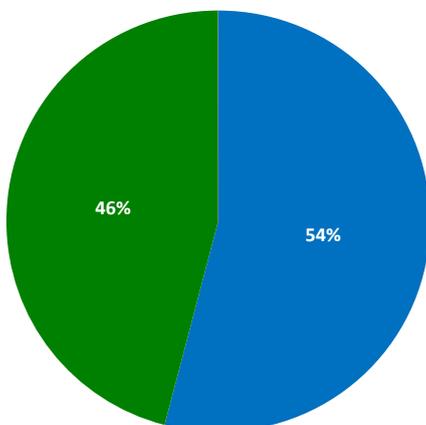
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Spinal Cord Lesions



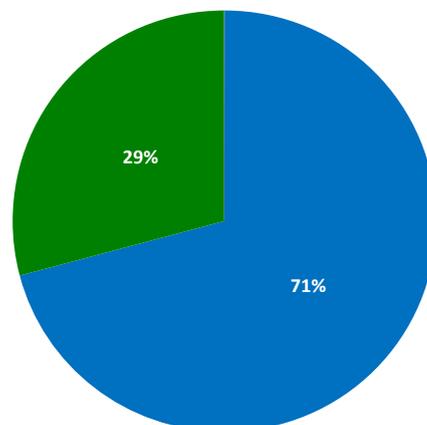
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Autonomic Nervous System



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

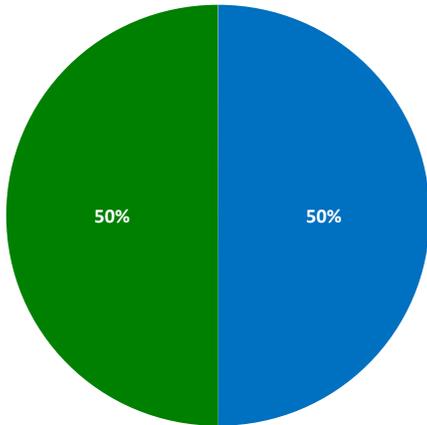
Would you recommend this course to a friend?



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

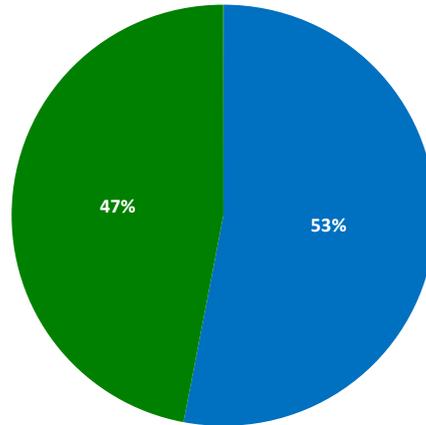
Overall Teaching Feedback

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



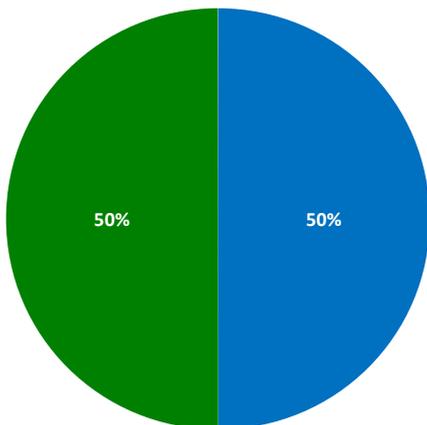
■ Most certainly ■ Certainly ■ Neutral ■ May be ■ Don't think so

How were the facilities and venue?



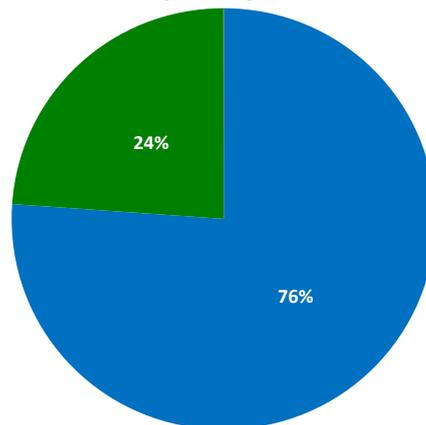
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

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

Very good course.

AA
Wythenshawe Hospital, Manchester

Very good.

AA
Wythenshawe Hospital, Manchester

Well organised course with an overview and precise delivery of exam expectations... well done Doctors Academy.

AI
University Hospital Birmingham NHS , United Kingdom, Europe

Great.

AH
University Hospital of Wales, Cardiff

Great.

SG
Aster hospital, UAE

Good.

DH
William Harvey Hospital, Ashford



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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
- 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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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
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