

Scientific Methods and Research Techniques

**Faculty of Education
Cambridge
23rd – 25th November 2016**

SMART is a research methodology course designed and organised by the University of Cambridge, Division of Anaesthesia

The course provides an introduction to the research process, from setting up a project and gaining ethical approval through gathering and analysing the data to presenting the results and peer review

Aimed primarily at post fellowship / membership anaesthesia and intensive care medicine trainees, the SMART course is also open to emergency and acute medicine trainees or more junior anaesthetic / ACCS trainees

A firm grounding in the principles of research is an essential component of anaesthetic and ICM training. The SMART course objectives map to the RCoA Higher 'Academic & Research' and FICM 'AR1 Academic Research' Competencies for the CCTs in anaesthesia and intensive care medicine. The course is presented by experienced researchers and has a strong interactive focus with hands-on workshops - so places are **limited to 16**. The course is subsidised by the HEEofE so trainees from the East of England will be given the subsidised rate of **£104**. For External and International delegates the cost is **£312**.

COURSE OVERVIEW

The role of research
Career pathways in research
Literature review
Critical appraisal
Meta-analysis
Study design and methods
Gaining ethical approval
Funding
Running a study and dealing with problems

Principles of statistics: Hypothesis testing, significance testing, distributions and power
Hands-on statistical analysis
Big data
Getting the most from Excel
Peer review and getting published
Research and industry
Recruiting patients

Places are strictly limited and will be reserved on a first come, first served basis upon receipt of online application and full payment
Fee includes lunch, refreshments and daily parking but exclude accommodation
Fees are non-refundable after 28th October 2016 and
Participants must attend for the duration of the course

PLEASE BOOK ONLINE at www.cam-pgmc.ac.uk

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