2027 Academic Clinical Fellowship in Anaesthesia

Description of ACF Programme:
Title: Anaesthesia Duration: 3 years
Lead NHS Hospital/Trust and contact details:
University Hospital Southampton NHS Foundation Trust Tremona Road Southampton Hants SO16 6YD 02380 777222
Research Institution in which training will take place:
Southampton University University Road Southampton SO17 1BJ
Arrangements for protected research time:
The trainee will join the approved Wessex specialist training programme in Anaesthesia. This offers a wide range of experience in anaesthesia and intensive care medicine (ICM) as well as tertiary specialist experience in the chosen specialty of the trainee. The post will lead to accreditation (CCT) in Anaesthesia. The 3 years will be spent in clinical posts rotating as deemed appropriate, with a period of training time being spent in Southampton during the first 3 years of training. The 25% of time devoted to research training would be located in Southampton. This will allow considerable flexibility in the allocation of sessions within the programme. It is anticipated that more time would be devoted to research education and training in the first 2 years leading up to the submission of a grant proposal for a research training fellowship. The final year would have proportionately more time to establish the trainee's clinical credentials in a specialist area prior to entering full time research.
Research Objectives:
The objectives for the trainee in a 3 year training programme are as follows: 1) To undertake the equivalent of 2 years 3 months full time specialist training in Anaesthesia within accredited posts

2) To complete the generic research methods training programme run by the Faculty of Medicine Postgraduate School.
3) To gain relevant training and experience in research design, methods and systematic review.
4) To draw up a proposal for an externally funded research training fellowship to be undertaken within Anaesthesia/Intensive Care Medicine which may be located in the research divisions of:
   - Clinical and Experimental Sciences
   - Human Development and Health
   - Cancer Sciences
5) To submit the application for a research training fellowship in national competition to MRC, Wellcome Trust, NIHR or a research charity such as National Institute of Academic Anaesthesia, Intensive Care Society, British Lung Foundation.

Description of research component of programme (up to 500 words):

Our group has particular strengths in resuscitation, lung injury, hypoxia, perioperative medicine, fluid therapy, applied human physiology of exercise, rehabilitation and health services research and welcomes applications from individuals with complementary research interests. We work in the Perioperative and Critical Care theme within the NIHR Southampton Biomedical Research Centre, one of only two such themes in the UK.

There is a strong translational research base in:

- Resuscitation – Professor Charles Deakin
- Lung Injury – Professor Ahilanandran Dushianthan
- Hypoxia and oxygen therapy – Professor Mike Grocott and Martin Feelisch, Dr Andrew Cumpstey
- Nitrogen Oxide Biology – Professor Martin Feelisch
- Thrombosis and haemostasis – Dr Ravi Gill
- Perioperative Medicine – Professor Mike Grocott, Professor Mark Edwards, Professor Denny Levett, Dr Andrew Cumpstey
- Fluid Therapy – Professor Mike Grocott, Professor Mark Edwards
- Applied Human Physiology of Exercise – Professor Sandy Jack, Professor Denny Levett
- Rehabilitation – Dr Rebecca Cusack, Professor Sandy Jack
- Health Services Research – Professor Mike Grocott

We have a strong track record of clinical and health studies exploring physiology and pathophysiology in humans. We collaborate with basic science researchers using benchtop models to explore related phenomena. We have a strong track record of Health Services Research in related areas.

Description of clinical component of programme (up to 500 words):

NHS England – Wessex covers a geographical area from Basingstoke in North Hampshire to Dorchester in West Dorset and the Isle of Wight to the South. This is a spread of approximately 65 miles North to South and 76 miles East to West. NHS England – Wessex serves a population of around 2.8 million people.

Trust Generic/Specialty Information
Southampton is the largest of the hospitals. There are several theatre suites in the main hospital and 4 ICUs: general, cardiac, Paediatric & Neuro.
The two large DGHs are Portsmouth and Poole & Bournemouth. Poole and Bournemouth are split-site with theatre suites and ICUs on more than one site.
There are 4 small DGHs, Dorset County in Dorchester and Salisbury District on the west rotations and the Royal Hampshire in Winchester and the North Hampshire hospital in Basingstoke on the east.
There is a Wessex Course for the Primary FRCA, which has a reputation for achieving a very high first-time pass rate.

Rotation Information

Core (Stage 1) Training
The minimum time spent in Stage 1 training (CT1,2,3) will normally comprise 30 months in anaesthesia and 6 months in ICM. Trainees who come to anaesthesia via the Acute Care Common Stem Programme (ACCS) will already have acquired various competences in anaesthesia and ICM that will be taken into account when assessing progress in core level anaesthetic training and in the completion of the Core Level Training Certificate**.** Training may take place in any of the hospitals.

Higher (Stage 2 and 3) Specialty training
The 4-year specialty training programme is divided into intermediate/Stage 2 (ST4 & 5) and higher/Stage 3 (ST 6 & 7) phases. Intermediate training usually involves a placement in one of the large DGHs (Portsmouth or Poole/Bournemouth) and Southampton. Higher and Advanced training will generally include one year in a Smaller DGH, and the other year in Southampton and one of the Larger DGHs (and with the option of OOPT) depending on trainee requirements. Each placement is usually for approximately 12 months with the exception of the ST4 placement which usually is for 18 months carrying forward into ST5. The higher training placements may be for less than 12 months according to training needs. Wherever possible we take into account trainee preference for the East or West side of the Region. Not everyone will get their preferred rotation and all trainees should be prepared to go to any hospital within the entire Region. Trainees will normally spend a minimum of 18 months in Southampton during the 4-year program. Trainees can undertake a variety of training modules depending on their interests. Intermediate ICM training is recognised only in Southampton, Poole & Bournemouth and Portsmouth; Advanced ICM training rotates between Portsmouth and Southampton ICUs. Advanced Pain training is also available, but only in Portsmouth. Advanced Obstetric training consists of 6 months split between Southampton and one of the large DGHs. Advanced Cardiac, Paediatrics and Neuro training can be provided.

There is a Wessex Course for the Final FRCA, which has a reputation for achieving a very high first-time pass rate. There are also management and teaching-skills courses appropriate for both intermediate and advanced level trainees and simulator courses. All courses are run through the Courses Centre.

Study and Training
The primary aim of all posts is to deliver the Anaesthetic training curriculum as agreed by the Royal College of Anaesthetists and there are minimum standards of education agreed by all Trusts within the rotation.

NHS England – Wessex is committed to developing postgraduate training programmes as laid down by GMC, Colleges and Faculties and by COPMED - the Postgraduate Deans Network. At local level college/specialty tutors work with the Programme Director and Directors of Medical Education in supervising these programmes. Trainees will be expected to take part in these programmes (including audit) and to attend meetings with their nominated educational supervisor.

All posts within the training programme are recognised for postgraduate training by the General Medical Council (GMC) in accordance with their standards for training.
Study leave is granted in accordance with NHS England – Wessex/Trust policy and are subject to the maintenance of the service.

Curriculum
All elements of the Royal College of Anaesthetists Stage 1 curricula will be covered in line with the 2021 Curriculum. Trainees will find details on the website: www.rcoa.ac.uk
Trainees will be expected to have passed the Primary FRCA by the end of the ACF. Once the competencies for Stage 1 Training have been achieved and the Primary FRCA passed, trainees will enter into Stage 2 training (ST4).

Specific support provided to trainee

Throughout the 3 years, the academic fellow will undertake generic research training as well as specialist research training in the chosen area. Specific research training will be provided by:

- Resuscitation – Professor Charles Deakin
- Lung Injury – Professor Ahilanandran Dushianthan
- Hypoxia and oxygen therapy – Professor Mike Grocott and Martin Feelisch, Dr Andrew Cumpstey
- Nitrogen Oxide Biology – Professor Martin Feelisch
- Thrombosis and haemostasis – Dr Ravi Gill
- Perioperative Medicine – Professor Mike Grocott, Professor Mark Edwards, Professor Denny Levett, Dr Andrew Cumpstey
- Fluid Therapy – Professor Mike Grocott, Professor Mark Edwards
- Applied Human Physiology of Exercise – Professor Sandy Jack, Professor Denny Levett

- Rehabilitation – Dr Rebecca Cusack, Professor Sandy Jack
- Health Services Research – Professor Mike Grocott

The exact orientation of the specialist training will depend on the chosen specialty of the trainee. Full in- and out-patient facilities in the specialist area are available within Southampton University Hospitals Trust Critical Care Care Group and the Perioperative & Critical Care theme of the University of Southampton/University Hospital Southampton NIHR Biomedical Research Centre.

Milestones and timing of achievement of academic and clinical competencies

The following milestones will be applied:

Year 1	
1	Initial training in General Anaesthesia and Intensive Care Medicine as appropriate
2	Attendance at an introductory course provided by the Faculty of Medicine's Postgraduate School
3	Identification of area of interest for clinical training in years 2 and 3 and for the research
4	Initial systematic review of literature in chosen area
5	Identification of research questions to be addressed in a pilot study
6	Identification of specific learning needs for the project and attendance at appropriate courses
Year 2	
1	Continue training in Anaesthesia and Intensive Care Medicine as appropriate
2	Obtain local research ethics committee and NHS R&D approval for pilot study
3	Attendance at relevant internal and external training courses and generation of initial data for pilot study leading up to the drawing up of a definitive research proposal for a full time PhD
Year 3	
1	Continued training in Anaesthesia and Intensive Care Medicine as appropriate
2	Completion of data collection and write up of pilot research study
3	Submission of clinical research fellowship application to external funding agency which ideally should occur within the first 3 months of year 3

The passing of the Primary FRCA examination is also a requisite of trainees by the end of CT3 and/or the Final FRCA by the end of ST5.

The ACF will be released from the core/Stage 1 anesthetic training Programme in blocks of 1-6months. The exact timing and duration of the block release will be confirmed following consultation between the ACF, Academic Supervisor and Training Programme Director (TPD) for Core Anesthetic Training.

How post links in to the NIHR approved Research Training Programme at your locality:

It is expected that the successful fellowship application will lead to 3 years in full time clinical research leading to a PhD. This would provide a natural progression to a lectureship within the Faculty of Medicine. However, if the clinical fellowship funding was not forthcoming the trainee could return to the Anaesthesia specialist training programme within the Wessex rotation to complete specialist training.

Trainee centredness:

The training will be centred on the trainee's own needs, identified early during the first year, and there will be dedicated supervision during the post. The fellowship will be tailored towards achievement of successful external funding.

Quality assurance of the programme:

These posts are offered as part of the national expansion and formalisation of a training programme for academic clinical medicine. The postholder will be awarded an NTN(A). Academic clinical fellows who do not achieve funding to pursue a higher degree will be able to re-enter clinical training in the region at the appropriate stage.

Quality assurance is overseen through the Postgraduate Faculty and involves a rigorous programme scrutinised by the University of Southampton. Much of this is provided via accredited masters modules all of which have undergone quality assurance through the QAA process. The academic supervisors have all completed postgraduate research supervision training provided by the University and Faculty of Medicine. The Wessex Specialist Training Programme in Anaesthesia has been running successfully for many years and has incorporated all the major NHS Trusts within the region. The posts in Southampton have provided specialist training in many disciplines.

The organisation has been successful in generating funding to support clinical research fellowships which has led to 2 anaesthetic/intensive care medicine trainees studying for PhDs.

Mentoring Arrangements:

Mentorship is provided through the Faculty of Medicine which has set up a programme currently directed by a Reader in Infection Inflammation and Repair. Many members of the division have

already had experience and training in mentorship and all the clinical academics in anaesthesia have experience and training in research supervision.

Academic Lead (University) for the IAT Programme:

Name: Professor Elaine Dennison

Position: Professor of Musculoskeletal Epidemiology

Address: Faculty of Medicine, University of Southampton, Building 85, Life Sciences

Building, Highfield Campus, Southampton, SO171BJTelephone: 023 8070 4021

Email: emd@mrc.soton.ac.uk

Academic Supervisor (University) Details:

Professor Mike Grocott
Professor of Anaesthesia and Critical Care Medicine,
University of Southampton
CE97, Level E, Centre Block
Southampton General Hospital
Southampton SO16 6YD
PA: 023 8079 8449
FAX 023 8087 8847
mike.grocott@soton.ac.uk

and

Dr Mark Edwards
mark.edwards2@uhs.nhs.uk

Education Supervisor (Trust) Details:

This will be confirmed once the appointee is in post as it will vary in each Trust

Clinical Supervisor(s) Details:

This will be confirmed once the appointee is in post as it will vary in each Trust

NHS England – Wessex Programme Training Director Details:

Dr Shiny Shanker
Core Training Programme Director
shiny.shankar1@nhs.net

Dr Sarah Berridge ST3+ Training Programme Director sarah.berridge1@nhs.net
NHS England – Wessex Programme Manager Details:
Katie Luckhurst Programme Manager for Anaesthetics and Intensive Care NHS England – Wessex england.anaesthesia.wx@nhs.net
Confirmation that ACF posts attract an Academic NTN (ACA):
This post will attract a National Training Number with a specialty component of ACA to identify as an Academic.