

Job Description

JOB TITLE: Senior Clinical Fellow in Paediatric Critical Care Medicine

DIVISION: Family Health

GRADE: Senior Clinical Fellow

REPORTS TO: PICU Head of Service

ACCOUNTABLE TO: PICU Head of Service

[About NUH](#)



1. **Patients** - We will ensure our patients receive consistently high quality, safe care with outstanding outcomes and experience
2. **People** - We will build on our position as an employer of choice; with an engaged, developed and empowered team that puts patient care at the heart of everything it does
3. **Places** - We will invest in our estate, equipment and digital infrastructure to support the delivery of high quality patient care
4. **Performance** - We will consistently achieve our performance standards and make the best use of resources to contribute to an affordable healthcare system
5. **Partners** - We will support the improvement of the health of the communities we serve through strong system leadership and innovative partnerships to deliver integrated models of care
6. **Potential** - We will deliver world-class research and education and transform health through innovation

Our values are: Caring and helpful; Safe and Vigilant for our patients and colleagues; Being Clinically Excellent and driving innovation to meet the needs of our patients; Using our Resources wisely whilst; Providing Quality products, services and experiences for staff and patients

JOB SUMMARY

This post is intended for experienced trainee paediatricians, paediatric intensive care medicine trainees, anaesthetists or adult intensive care medicine (ICM) or emergency medicine trainees wishing to gain experience in Paediatric Critical Care Medicine with the option of additional roles in paediatric transport, point of care ultrasound, education and simulation or electrical impedance tomography. The unit has Intercollegiate Committee approval for training career specialists in Paediatric Intensive Care Medicine. Successful applicants will receive the same educational and training experience as trainees occupying recognised training positions.

This post would be particularly suitable for:

- Trainees in Paediatrics, emergency medicine, Anaesthetics, adult ICM and pre-hospital medicine (PHEM)
- Out-of-Programme (OOP) doctors looking for experience in Paediatric critical care medicine before applying to RCPCH PICM/PEM/NIC GRID training Programmes
- Doctors from overseas interested in gaining experience and education in Paediatric intensive care medicine and transport in the UK

Nottingham University Hospitals NHS Trust

Formed in 2006, we are now one of the biggest and busiest acute Trusts in England. We provide services to over 2.5 million residents of Nottingham and its surrounding communities. We also provide specialist services to a further 3-4 million people from neighbouring counties each year.

The Trust is made up of Queen's Medical Centre, Nottingham City Hospital and Ropewalk House.

- Queen's Medical Centre – our emergency care site (where our Emergency Department is located)
- Nottingham City Hospital – where our Cancer Centre, Heart Centre and stroke services are based and where we focus on planned care and the care of patients with long-term conditions
- Ropewalk House – where we provide a range of outpatient services, including hearing services

We have achieved a national and international reputation for many of our specialist services, including stroke, renal, neurosciences, cancer services and we are one of the largest Major Trauma centres in the country. QMC is home to the Nottingham Children's Hospital.

We are at the forefront of many research programmes and new surgical procedures. Nottingham is the only NHS trust and university partnership in the country to have three successful bids for Biomedical Research Units in hearing, digestive diseases and respiratory medicine.



Nottingham Children's Hospital

The department of Paediatrics provides a comprehensive range of specialist services for children in Nottingham and beyond. It provides tertiary paediatric and neonatal services to adjacent areas like Lincolnshire, Derbyshire and Nottinghamshire, surgical services for Stoke in the Midlands and neurosurgical services for Leicestershire. A supra-regional service exists for paediatric spinal surgery and the Regional Renal Unit.

Since 2008, all acute paediatric services in Nottingham are provided at the Queen's Medical Centre campus with facilities as listed below:

- Nottingham Children's Hospital at QMC is mainly situated in East Block on D and E floors
- Eight in-patient wards
- The Paediatric Critical Care Unit – 14 flexible beds (Level 2 and 3)
- An Oncology Day Case Unit with anaesthetic facilities
- A Paediatric Burns and Plastics Unit – 5 inpatient beds and daily dressing clinic
- A Short Stay unit for observation of the acutely ill child
- A large Hospital school
- The Academic Division of Child Health (University of Nottingham School of Human Development)
- Neonatal Intensive Care Unit - Currently being expanded to offer 38 beds
- Children's outpatient department with 30 000 attendances per year
- A separate children's A and E department sees over 40,000 children per year

There are a wide range of medical sub-specialities cared for within the children's hospital:

- Cardiology
- Diabetes and Endocrinology
- Gastroenterology
- Rheumatology
- Respiratory medicine
- Neonatology
- Neurology
- Haematology and Oncology
- Psychiatry
- Dermatology
- Renal

The following paediatric surgical sub-specialties:

- General surgery
- Neurosurgery

- Spinal surgery
- Otolaryngology
- Ophthalmology
- Orthopaedics
- Maxillofacial surgery

Paediatric Critical Care Unit

The purpose built Paediatric Critical Care Unit has the physical capacity to accommodate 18 children, and is staffed for 14, admitting approximately 700 patients/year.

We are a specialist unit for Nephrology, Major trauma, Neurosurgery, Oncology, and Spinal surgery, as well as supporting patients with medical conditions. Surgical care is provided for children with complex neonatal problems, as well as neurosurgery, E.N.T, general and spinal surgery. Patients are equally distributed between medical and surgical specialties. All paediatric specialties, other than cardiac surgery, are supported by PCCU.

Nottingham hosts a supra-regional nephrology service with which we have strong links. Over 100 haemofiltration days per year are carried out on the unit and we have the benefit of the UK's first exclusively Renal Critical Care nurse educator, in addition to a renal nurse lead. We are part of the regional major trauma centre.

Excellent facilities exist to provide high quality paediatric intensive care including Servo U ventilators, Sensormedics oscillators, Trilogy non-invasive ventilators, Nitric oxide therapy, MostCare Up Haemodynamic monitor, paediatric bronchoscope, Prismax haemofiltration machines, Draeger Pulmovista Electrical Impedance Tomography, Sonosite, Phillips and GE Point of Care Ultrasound, Accuson ultrasound/echocardiography machine and CFAM monitoring system.

Separate full-shift rotas of junior medical staff at both senior house officer and specialist registrar levels support the consultant medical team. Office and computer facilities for use by trainees and clinical fellows are present on PICU. There is a dedicated resource room with a data projector which is used for teaching sessions.

CoMET – Children's Medical Emergency Transport Service

Nottingham PCCU is in the East Midlands Paediatric Critical Care Network. CoMET, our dedicated paediatric retrieval service carries out approximately 650 retrievals per year, mainly within the areas of Nottinghamshire, Derbyshire and Lincolnshire, and Leicestershire along with Leicester PICU. Particularly during the busier winter months, we may travel further afield.

The CoMET service is operated out of the new Midlands Critical Care Transport Service (MCCTS) St John Ambulance base at Castle Donington (DE74 2NP). CoMET is hosted by the University Hospitals of Leicester NHS Trust (UHL) working

in partnership with NUH Trust. The adult (ACCOTs), neonatal (CenTre) and ECMO critical care transport service are also stationed there. The base is conveniently located by the M1 near East Midlands Airport. You can travel to the base either by car, where parking is provided, or by direct bus from the Queen's Medical Centre. Rest facilities are provided on site if needed. You will also have access to the new onsite immersive simulation centre. As a complement to the retrieval service, we offer an outreach program to the DGHs in the Mid Trent area.

Medical Staff

Consultant Staff

Dr Shrirang Alurkar (Clinical Lead)
Dr Patrick Davies (EMPCC Network Lead)
Dr Dusan Raffaj
Dr Catarina Silvestre
Dr Charlotte Goedvolk
Dr Georgina Harlow (CoMET Lead)
Dr David Bird
Dr Vlad Holec
Dr Craig Stewart
Dr Alex Dewar

PCCU Matron

Liz Bailey

Junior Medical Staff

There are 10 slots on the middle grade rota, occupied by a combination of PICM GRID trainees, paediatric registrars, ED trainees, AICU trainees, and senior fellows. We also have a separate rota of 7 Paediatric ST 1-3s. The rota is EWTD compliant. The trainees rotate through shifts on PCCU and with the CoMET transport team. The core rota is flexible to accommodate annual leave, study leave and regular time for continual professional development. We work hard to ensure that you can maintain a work/life balance. There are flexible options to accommodate special interest roles (see below).

The Post

Duration: 6 - 12 months minimum with extension thereafter on review.

This post, which compliments the existing SpR posts on PICU, offers:

1. Core training in Paediatric Critical Care Medicine (minimum of 50% of candidate's time)
2. Flexible additional roles depending on candidate preference (see details below)

It is aimed at doctors with paediatric and/or intensive care experience and skills commensurate with working at a middle grade level. It offers a wide range of training

for those who wish to improve their skills in assessment, stabilisation, management and transport of the critically ill child, either prior to acquiring a NTN or CCT.

Core Training

Supervised practical instruction will be given in:

- Airway skills: basic & advanced - with opportunities to gain further airway experience working alongside paediatric anaesthetists in theatre
- Vascular access: central venous & arterial cannulation
- Cerebral function analysis monitoring
- Ventilation - standard techniques, NAVA, pressure and volume controlled modes, Oscillation and Non-invasive techniques.
- Neuro intensive care
- Advanced renal support
- Application of Brain Death Criteria
- Talking to Parents in Critical situations
- Stabilisation and Transport of sick infants and children
- Leadership skills – particularly during resuscitation

There are twice daily consultant led ward rounds at 08:30 and 16:30 hours. The principal duties are patient review and monitoring and the implementation of management plans decided upon these ward rounds. The post holder will be responsible for the admission and discharge of children, and liaison with speciality teams.

Through the CoMET retrieval team, we provide specific training in paediatric retrieval (depending on prior experience) with a view to the post holder progressing to unaccompanied retrieval of critically ill children.

Flexible additional roles

1. Electrical impedance tomography (non-invasive respiratory function monitor)

We have an international reputation for our use of Electrical Impedance Tomography as a real-time non-invasive monitor of respiratory function. We have published many papers on this technique and have an ongoing research strategy. A successful candidate would have time set aside to gain the practical skills involved with this modality and to further develop our research in this area. We would anticipate the publication of further papers and presentation at conferences.

2. Point of Care Ultrasound (POCUS)

Nottingham is a UK leader in point of care ultrasound. A number of our consultant team were founding members of the CACTUS (Children's Acute Ultrasound) course and regularly teach on current courses. We have regular POCUS teaching on the unit and a successful candidate choosing this specialty option would have dedicated time to learn and teach advanced POCUS skills. There is the potential to achieve formal certification (CUSIC of CACTUS) and for publications in this area.

3. Additional CoMET Retrieval Experience

All candidates will receive training in Paediatric retrieval as part of the core training. There is optional additional time available to spend with the CoMET team in the form of enhanced retrieval experience, service development and regional outreach. For more senior trainees, there is the opportunity to take on a consultant role in leading referral and advice calls.

4. Simulation and education lead role

There is already an active simulation and education programme on critical care which operates jointing with the University Hospitals of Leicester critical care team. This role would involve building on existing successes and also helping to establish the new Midlands Critical Care Transport Service immersive simulation and training center based at the Castle Donington site. You would be trained to use our state of the art simulation equipment and deliver high fidelity simulation based training.

Shift System

The post holder will participate in a full shift system with up to 12 other individuals to form the PCCU middle grade team. The bespoke rota will be compliant with the NHS junior doctor's contract rules. The post-holder's clinical duties will be on PCCU and CoMET (based in Castle Donington) and may include daytime medical outreach support for paediatric spinal patients.

Education

Education is a high priority and is reflected in the work of both medical and nursing staff. The expansion of Junior Doctor numbers with the European Working Time Directive has also led to a focus on comprehensive induction programmes for both SHOs and Registrars.

There is an active programme of teaching on PCCU for both medical and nursing staff. A comprehensive teaching programme has been written. Teaching at these sessions is the joint responsibility of the Consultants and junior medical staff. There is also a weekly microbiology ward round, regular morbidity and mortality meetings, a Journal Club on Tuesday mornings and Paediatric Grand Rounds on Thursday afternoons.

The Consultant Paediatric anaesthesia staff run 6 monthly advanced airway days which include an opportunity to practice intubation and learn fibre optic airway skills.

Although this post does not attract an NTN the post-holder will be offered all the opportunities for educational development that are provided for SpRs, including attendance at the monthly regional SpR training days organised by a team of registrars with the Programme Director. The format varies but often includes case presentation and discussion, clinical demonstrations; scenario based teaching and occasionally more formal lectures. The emphasis is on self-directed learning. As well

as the usual clinically based issues, the important areas of critical appraisal, statistical methods, writing and reading skills, communication skills, audit, teaching methods, ethical issues and legal aspects of practice are taught.

Audit and Research

The post-holder will be expected to be actively involved in audit and research and opportunities for this will be provided. They will be involved in routine data collection and preparation of reports at discharge. The unit is involved in national data collection including the PICANET Database. Local audits are also performed. The unit has a number of active research projects, and the post-holder will be encouraged to participate.

Teaching Opportunities

You will be expected to teach both undergraduate and postgraduate doctors and nurses. We will encourage you to develop your own methods within good practice taught locally. There are excellent regional library facilities.

Postgraduate facilities

There are excellent library facilities in the Greenwood Medical Library to which all medical staff have free access and borrowing rights. The postgraduate centre offers modern facilities for meetings and courses.

The **Trent Simulation and Clinical Skills Centre** opened in April 2004 – a state of the art simulation centre and clinical skills facility. It is a two-storey extension to the Postgraduate Education Centre and the regional centre within Trent for advanced human patient simulation training offering a range of specialty specific and inter-professional courses.

Educational Supervision

All Paediatric medical staff are allocated an Educational Supervisor who will be one of the Paediatric Consultants. A personal training plan will be developed at the beginning of the post to suit the individual's training needs. Progress will be monitored by regular appraisal.

Code of Conduct

All employees must abide by the guidance set out in the NHS Code of Conduct and Standard Business Conduct for NHS Staff (HSG 93/5), as amended or replaced from time to time. Managers must also comply with the NHS Code of Conduct for Managers. All clinical professionally regulated staff must abide by the codes of conduct issued by their respective regulatory bodies (e.g. NMC, GMC, HPC) and ensure that they maintain updated registration as required by the role.

Accommodation

Please note that Nottingham University Hospitals do not provide hospital

accommodation. There is available on request the details of a letting agent who can facilitate rental of a property near hospital premises from medical staffing. All rental costs have to be paid by the MTI recruit.

Child Protection/Safeguarding

All staff providing services to patients and children are reminded of their responsibility to adhere to Trust and Departmental Child Protection and Safeguarding policies, including employment checks.

Salary

The salary scale for this post is in accordance with the nationally agreed Specialty Registrar pay scale. A banding supplement will be paid for the out of hours' rota.

PLEASE NOTE:

The contents of this Job Description are subject to change depending on the service needs of the Department and the Trust.

VISITS

Candidates who wish to know more about Nottingham and its environs can visit the following websites:

www.crg.cs.nott.ac.uk/Nottingham/welcome.html

www.proweb.co.uk/~lordthorpe/nottingham/notts1.html

www.ukcity.com/nottingham

(The websites quoted are independent of the University Hospital and the contents and opinions expressed are those of the page authors.)

Shortlisted candidates are welcome to make arrangements to visit the hospital to discuss the post in more detail and should contact Dr Craig Stewart and Dr David Bird contactable on (0115) 924 9924 ext 61232. The PICU is located on E floor of East block.

Nottingham

Nottingham is a vibrant and prosperous city with something to for everyone. It has excellent schools and colleges, and two thriving Universities. There are good theatres, an arena which attracts national and international performers, and several renowned arts centres and museums. Nottingham is the home of Trent Bridge Cricket Ground, Nottingham Forest and Notts County Football Clubs, Nottingham Ruby Club, the National Water Sports Centre, the Nottingham Tennis Centre, and Ice Arena.

Set within a county of outstanding natural beauty that includes Sherwood Forest, Wollaton Park, lively market towns and wonderful historic buildings, the city is one of the UK's leading retail centres with a wide choice of restaurants, bars and nightclubs. There is a good network of roads with easy access to the M1 and the A1, the rail service to London (two hours) and other major cities is frequent, and there are numerous international destinations from East Midlands Airport (30 mins) and

Birmingham Airport (60mins).

<http://www.nottinghamcity.gov.uk>

<http://www.nottinghamshire.gov.uk>

<http://www.experiencenottinghamshire.com>

<http://www.nottingham.ac.uk/>

Guide to local property <http://www.zoopla.co.uk>

GENERAL DUTIES

In addition to the key job responsibilities detailed in this job description all employees at Nottingham University Hospitals NHS Trust are expected to comply with the general duties detailed below:

Infection Control

To maintain a clean, safe environment, ensuring adherence to the Trust's standards of cleanliness, hygiene and infection control.

Safeguarding children, young people and vulnerable adults

Nottingham University Hospitals is committed to safeguarding and promoting the welfare of children, young people and vulnerable adults. All staff and volunteers are therefore expected to behave in such a way that supports this commitment.

Information Governance

All staff have an individual responsibility for creating accurate records of their work and for making entries into and managing all NHS records effectively in line with the Health Record Keeping Policy and other Health Records and Corporate Records Management policies and procedures in order to meet the Trust's legal, regulatory and accountability requirements.

Health and Safety

To take reasonable care to prevent injury to themselves or others who may be affected by their acts or omissions.

To co-operate fully in discharging the Trust policies and procedures with regard to health and safety matters.

To immediately report to their manager any shortcomings in health and safety procedures and practice.

To report any accidents or dangerous incidents to their immediate manager and safety representative as early as possible and submit a completed accident/incident form.

To use protective clothing and equipment where provided.

Whilst the aim of the Trust is to promote a co-operative and constructive view of health and safety concerns in the organisation, all staff must be aware that a wilful or irresponsible disregard for safety matters may give rise to disciplinary proceedings.

Governance

To actively participate in governance activities to ensure that the highest standards of care and business conduct are achieved.

Health and Wellbeing

Employees are expected to take all reasonable steps to look after both their physical health and mental health. To support employees to achieve this NUH offers a wide range of health and wellbeing activities and interventions. The full programme can be viewed at on the staff intranet.

Line managers are expected to encourage and support staff to look after their health and wellbeing, including the release of staff to attend health and wellbeing activities and interventions.

General Policies Procedures and Practices

To comply with all Trust policies, procedures and practices and to be responsible for keeping up to date with any changes to these.

JOB REVISION

This job description should be regarded as a guide to the duties required and is not definitive or restrictive in any way. The duties of the post may be varied from time to time in response to changing circumstances. This job description does not form part of the contract of employment.

Job description reviewed by: Dr Craig Stewart

Date: March 2024