

NTN Grid - Programme Information

Paediatric Intensive Care Medicine 2019

Please find below programme information for the above sub-specialty for training programmes starting in September 2019.

Page 2 contains a list of all submitted programmes of training; the job descriptions for each post follow on.

Each subspecialty grid programme covers the [RCPCH curriculum](#) as specified on the RCPCH.

Please note: Programme submissions can be withdrawn or amended at any point until an offer of employment has been made to an applicant.

Application Process

Applications for the NTN Grid open from 12 noon Friday 7 September 2018 and close at 12 noon Friday 28 September 2018. Applications can only be accessed during this period from the College website.

For more information on the grid process and to access the Grid Applicants Guide please visit: <http://www.rcpch.ac.uk/ntngrid>

Contact Details

For specific sub-specialty information, please contact:

Dr Mehrengise Cooper

Email: mehrengise.cooper@nhs.net

For further information which is not answered after consulting the website and [Grid Applicant Guide](#), please contact:

Abigail Wright
(Sub-specialty Recruitment Coordinator)

Email: ntn.grid@rcpch.ac.uk

Tel: (020) 7092 6139

Programme Description

Maximum Number of National Training Grid Appointments that may be made in 2019 for Paediatric Intensive Care Medicine

18

Deanery	Programme of Training	Places available	Duration (Years)	Page
East Midlands (North)	Nottingham University Hospitals and Birmingham Children's Hospital	1	2-3	2
East of England	Addenbrookes Hospital and London	1	3	9
London	Evelina Children's Hospital (St Thomas) St Mary's Hospital/ Royal Brompton/GOSH	3	2.5	19
Northern	Great North Children's Hospital, Newcastle upon Tyne Freeman Hospital, Newcastle upon Tyne HEENE - Northern	1	2-3	32
North West	Manchester	1	2	36
North West	Mersey	3	2	42
Scotland West	Royal Hospital for Sick Children, Yorkhill, Glasgow Crosshouse University Hospital	1	2-3	46
Severn	Bristol Children's Hospital	1	2	49
Wessex	Royal Hampshire/Dorset County/Poole Hospital University Hospital Southampton	1	2.5-3	51
West Midlands	Birmingham Children's Hospital	3	2	55
Yorkshire and Humber	Leeds Children's Hospital Sheffield Children's Hospital	2	2	58

East Midlands (North)

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Nottingham University Hospitals NHS Trust	PICU	12	Patrick Davies Patrick.davies@nuh.nhs.uk	C	Y
Birmingham Children's Hospital	PICU	12	Intihab Zafurallah ("Zaf") intikhab.zafurallah@nhs.net	C	Y

Additional Information

This two year rotation includes placements in two Paediatric Intensive Care Units. There is then the guaranteed opportunity to complete 6 months in anaesthetics, which will be undertaken in Nottingham as OOPE, under the supervision of Dr John Emery (John.emery@nuh.nhs.uk) and Dr Patrick Davies.

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	Nottingham Paediatric Critical Care Unit
Deaneries involved:	East Midlands (North) and West Midlands

Outline of Programme

This is a three year programme which comprises of two years in Nottingham (18 months with the Nottingham Paediatric Critical Care Unit and six months with the Nottingham Paediatric Anaesthetic team), and year three with the Birmingham Paediatric Intensive Care Unit. This job description refers to the first 18 months of the post, with Nottingham Paediatric Critical Care unit.

Departmental Information

- Demographics

Nottingham Paediatric Critical Care unit is the regional paediatric intensive and high dependency care unit for the North East Midlands. There are 14 beds used flexibly as needed, taking 760 patients in 2017. Our aSMR is 0.8. We take patients from Derby, King's Mill, Boston, and Lincoln hospitals, and further afield. We subspecialise in renal intensive care, oncology, major trauma, neurosurgery, and spinal surgery, and have close links with the rest of the Children's Hospital specialist teams including general surgery, neurology, endocrine, and neonatal services. The COMET regional transport service runs on an alternating week basis with our neighbours in Leicester

- Team

The post holder will be one of eight middle grade doctors. They will be working with six senior house officers. There is a full complement of nursing staff at grade 5, 6, and 7, with a comprehensive nurse educator team. There are currently seven consultant paediatric intensivists, with another pending for retrieval work. There is a professor emeritus of Paediatric Intensive Care who has a teaching, education, and supervision role.

- Supervisor(s)

Dr Patrick Davies, consultant paediatric intensivist and clinical lead.

Clinical Training Responsibilities

Trainees will gain experience in general paediatric intensive care, and subspecialty paediatric intensive care in the fields of renal medicine, oncology, major trauma, neurosurgery, and spinal surgery. We run a portfolio of research topics and the trainee will be encouraged to take an active part in this. There are twice daily consultant led ward rounds, as well as weekly long term ventilation rounds. Participation at monthly morbidity and mortality meetings, at weekly Paediatric Grand Rounds, monthly child protection meetings, and monthly audit meetings will be expected, as rotas allow. As experience permits the post holder will be expected to lead ward rounds. The COMET Retrieval Service for the East Midlands was created in 2017 and the trainee will be trained and expected to perform stabilisation and retrievals from other hospitals as part of this service.

Workload / Rota Arrangements / Example Timetable

The trainee will participate in a full shift rota which meets RCPCH and EWTD requirements. There are ward and transport commitments integrated in this role

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

All trainees are expected to undertake audits and contribute to the development of guidelines. They will receive training in line with the current CSAC syllabus and will be expected to maintain a training portfolio. Learning opportunities include monthly PICU teaching days which are consultant led, weekly children's hospital journal club, weekly children's hospital radiology and neuroradiology meetings, and monthly external registrar training days. Trainees will be expected and encouraged to contribute to all these sessions. They will also be expected to take a senior trainee role on the unit and to be involved in the management of the trainee doctors. Research activities, whether contributing to ongoing studies, or developing their own, will be encouraged.

Further training opportunities

Programme Description

During the second year, supervision of a BMedSci students for a research project of the trainee's choosing is encouraged. This will allow the trainee to develop and deliver a larger project over the two years in post.

Any further information

Any further details are available on request

Contact details for unit

Dr Patrick Davies, Consultant Paediatric Intensivist, 0115 9249924 x 61232

Programme Description

Subspecialty:	Paediatric Intensive Care Medicine
Base Unit:	Nottingham Paediatric Critical Care Unit: Birmingham year
Deaneries involved:	East Midlands (North) and West Midlands

Outline of Programme

This is a three year programme which comprises of two years in Nottingham (18 months with the Nottingham Paediatric Critical Care Unit and six months with the Nottingham Paediatric Anaesthetic team), and year three with the Birmingham Paediatric Intensive Care Unit. This job description refers to the last 12 months of the post with Birmingham Paediatric Intensive Care unit.

Departmental Information

Demographics

BCH is the principal (Lead Centre) multi-disciplinary PICU for the population of the West Midlands. The Unit provides a spacious and comfortable working environment with a capacity of 31 beds. The PICU has a high patient throughput with 1400 admissions per annum and provides facilities for an extensive paediatric cardiology and cardiac surgical programme, regional paediatric trauma, burns, neuro and craniofacial surgery, neonatal paediatric surgery, airway and ENT surgery, as well as general and specialist paediatric medical subspecialties. The latter include hepatobiliary medicine and surgery (including liver transplantation), haematology and oncology, neurology, nephrology, respiratory, endocrinology and metabolic disease. There is a comprehensive range of specialist support services such as radiology (including CT and MRI), bronchoscopy and endoscopy. The hospital houses a regional transport service (KIDS) transporting over 700 patients per year

Team

Trainee cover to the PICU currently compromises 6 National Grid trainees (3 Year 1, 3 Year 2), 3 West Midlands Paediatric StRs, 2 West Midlands Anaesthetic StRs, 2 Adult ICM trainees and 8 Clinical Fellows and 6 ANPs.

Supervisor(s) The Clinical Lead is Dr Adrian Plunkett and the Educational Supervisor is Dr Zaf Intikhab. Each trainee is allocated a consultant mentor

Clinical Training Responsibilities

Trainees will be assessed as set out by ICTPICM and the relevant Royal College and will meet with their Educational Supervisor on a regular basis. You will be given a more senior role with supervisory responsibilities, administrative and managerial experience as you progress through. Participation in research is encouraged.

Workload / Rota Arrangements / Example Timetable

Clinical commitments for the intensive care trainees are exclusively on the PICU, and working hours are within current guidelines. A flexible rota is in place and tries to accommodate all off duty requests. The rota comprises six trainees / ANPs on duty during the daytime and four trainees /ANPs at night. PICU trainees are responsible for co-ordinating all aspects of patient care in the PICU. 24 hour comprehensive supervision and support is provided at any time by three of 18 WTE Consultant Intensivists.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Teaching

The PICU runs a programme of teaching comprising a daily teaching ward round, three times a month teaching days to cover the curriculum in PICM, made up of seminars, journal club, radiology rounds, monthly Morbidity and Mortality review and monthly Research Rounds. In addition an active teaching programme exists within the hospital.

Research

You will be encouraged to participate in PICU research /audit, either in developing an existing proposal or in developing your own ideas. The department maintains a high level of academic activity. This has included a diversity of audit and research projects in intensive care and allied disciplines.

Any further information

Programme Description

For further information please contact Dr Zaf Intikhab Intikhab.Zafurallah@bch.nhs.uk

Contact details for unit

Contact the PICU PA on 0121 333 8754

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	Nottingham Paediatric Critical Care Unit
Deaneries involved:	East Midlands (North), West Midlands

Outline of Programme

This is a three year programme which comprises of two years in Nottingham (18 months with the Nottingham Paediatric Critical Care Unit and six months with the Nottingham Paediatric Anaesthetic team), and year three with the Birmingham Paediatric Intensive Care Unit. This job description refers to the months 18-24 of the post, with the Nottingham Paediatric Anaesthetic team.

Departmental Information

- Demographics

Nottingham Childrens Hospital provides surgery for all tertiary paediatric services except cardiac surgery, major craniofacial surgery, and liver transplants.

- Team

The post holder will be attached to the anaesthetic team full time. The Paediatric Anaesthesia team comprises of 12 Consultant Paediatric Anaesthetists.

- Supervisor(s)

Dr Patrick Davies, consultant paediatric intensivist and clinical lead for PICU

Dr John Emery, consultant paediatric anaesthetist and clinical lead for Paediatric Anaesthesia

Clinical Training Responsibilities

The postholder will take part in the same training programme as all other doctors starting in anaesthesia. This programme is specifically aimed towards completion of the core competencies in anaesthesia as laid out by the Royal College of Anaesthetists. It is anticipated that it will take the postholder around 3 months to learn these skill to the required standard.

Once the postholder has completed the Certificate of Core Competencies the remaining months of their anaesthetic training will be specifically targeted to paediatric anaesthesia included those specialties that regularly require the support of PICU in the post-operative period. There are opportunities to gain experience in anaesthesia for the following paediatric specialties: paediatric general surgery including oncology surgery and neonatal surgery; neurosurgery; major spinal surgery; orthopaedics and trauma; ENT including airway surgery; cleft lip and palate surgery; paediatric renal transplantation; anaesthesia in satellite areas e.g. MRI, CT and the interventional radiology suite. The range of specialties will allow the postholder to gain experience and understanding of the issues related to in the management of complex airway problems, major haemorrhage in the setting of the operating theatre and the management of critically ill children in theatre. There will be opportunity during this period of training to gain training and skills in central venous cannulation.

Workload / Rota Arrangements / Example Timetable

The trainee will be supernumerary to the anaesthetic rota until the Certificate of Core Competencies is achieved on a day time and evening rota. Thereafter the trainee may be on a 1:8 full shift rota until the end of their post.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

All trainees are expected to undertake audits and contribute to the development of guidelines. They will receive training in line with the current CSAC syllabus and will be expected to maintain a training portfolio.

Further training opportunities

Experience in adult critical care will be a part of the experience.

Any further information

Any further details are available on request

Programme Description

Contact details for unit

Dr Patrick Davies, Consultant Paediatric Intensivist, 0115 9249924 x 61232

East of England

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Addenbrookes Hospital	PICU year 1	9	Dr Shruti Agrawal Shruti.agrawal@addenbrookes.nhs.uk	c	y
CATS (children's acute transport service)	PICU year 1	3	Linda Chigaru Linda.chigaru@gosh.nhs.uk	c	y
GOSH	PICU year 2	12	Andrew Jones Andrew.jones@gosh.nhs.uk	c	y
Princess Alexandra hospital, Harlow	OOPE- Anaesthesia	12	Kevin Hamilton Kevin.hamilton@pah.nhs.uk	c	y

Additional Information

The rotation is flexible and depends on availability of slots. The trainee will usually start with Anaesthesia training as OOPE in Harlow to allow the development of the required competencies. The post then rotates through Addenbrookes for 12 months (including 3 months transport) and to GOSH for a further 12 months. The successful trainee is encouraged to discuss with TPD soon after appointment to discuss the rotation depending on previous experience.

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	Addenbrookes Hospital, Cambridge University Hospitals NHS Foundation Trust
Deaneries involved:	East of England, London

Outline of Programme

1 year training rotation through PICU, based at Addenbrookes Hospital, including 3 months of retrieval experience at Children's Acute Transport Services (Attached separately).

Departmental Information

- Demographics

The PICU at Addenbrooke's is tertiary referral centre for critically ill paediatric patients across East of England and also supports various paediatric sub-specialities based within the hospital and the Major Trauma Centre for the East of England. The PICU has 13 beds, 10 of which are staffed as ICU beds with approximately 650 admissions.

Relationships between the paediatric and anaesthetic departments are strong and there is an excellent spirit of co-operation, with training opportunities for each discipline in the other's department. Support is also received from other intensive areas within the hospital, including Neonatal intensive care unit (NICU), The John Farman ITU (general) and Neuro Critical Care Unit (NCCU).

The grid post in Paediatric Intensive Care Medicine is open to Paediatric and Anaesthetic trainees. Investigative facilities within the Trust are excellent.

- Team Consultant Staff

Dr R O'Donnell (Specialty Lead for PICU) Dr R Campbell
Dr S Agrawal Dr N Pathan Dr R Kayani Dr R Branco

Nursing Lead

Diana Sanderson (Matron) Junior Doctors
6 Deanery Trainees, 3 Clinical Fellows_

- Supervisor(s)

Dr Shruti Agrawal Dr Roddy O'Donnell Dr Nazima Pathan

Clinical Training Responsibilities

The post holder will work mainly in the PICU and will participate in the care of children on PICU and will be responsible to the PICU consultants. The trainee will be a part of paediatric resuscitation team in the hospital gaining valuable experience in managing acutely unwell children on wards and Emergency Department.

Addenbrookes Hospital is the Major Trauma Centre for the East of England Trauma Network and candidates will be expected to participate in paediatric major trauma management. The trainee will be expected to participate in two daily consultant led ward rounds, day to day management of PICU including practical procedures and will have opportunities to progress towards leading the ward round under supervision. There are many MDT meetings with various teams involved in care of sick children, which the trainee will be expected to attend as well present patients. There are ample opportunities of clinical teaching and training.

Workload / Rota Arrangements / Example Timetable

Clinical and administrative duties will be equally shared on a rolling 1 A rota sharing with 7 other trainees including out of hours cover for the PICU. |

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Programme Description

Addenbrooke's has an outstanding reputation for research. Research within the PICU is co-ordinated by Dr Pathan. There are multiple ongoing projects and opportunities to join/start new research projects. The unit offers opportunities for linked research and it would be encouraged in the successful applicant. A senior research nurse is funded on PICU. The department has an active audit programme. Post holders are expected to participate in this programme.

There are teaching sessions for all levels of staff during the week, including a daily teaching ward round each morning at 9.00am. There is also a weekly departmental clinical meeting (on Mondays), PICU meetings/journal club (on Tuesdays), PICU teaching (on Wednesdays), hospital grand rounds (on Wednesdays) and neonatal teaching (on Fridays). In addition there are several half-day seminars on paediatric topics organised each year. The PICU holds monthly M&M meetings involving all staff. The post-holder will be encouraged to participate the paediatric simulation teaching in the hospital. The Post-holder will be expected to take part in the active programme of Undergraduate and Postgraduate Teaching involving Lectures, Ward Rounds and Clinical Supervisions.

Further training opportunities

The successful candidate will be given every opportunity to increase their experience within their area of specialist interest. The candidates will also be able to utilise training opportunities in the other areas of intensive care within the hospitals and be able to attend theatre sessions and vascular access sessions. There are multiple inter- departmental teaching opportunities to use.

There is an excellent and comprehensive Medical Library, a branch of the Cambridge University Library, which is situated at Addenbrooke's Hospital and incorporates the functions of a District Medical Library.

Any further information

Contact details for unit

Dr Shruti Agrawal (shruti.agrawal@addenbrookes.nhs.uk, Ph: 01223 217 294) Dr Roddy O'Donnell (roddy.odonnell@addenbrookes.nhs.uk, Ph: 01223 217294)

Programme Description

Sub-specialty:	PICM
Base Unit:	Cambridge University Hospital
Deaneries involved:	East of England

Outline of Programme

CATS receives approximately 2500 referrals per year, of which around 1300 are transported to critical care units in South East England with approximately 80% of patients ventilated. These transports are performed by land (ambulance and rapid response unit vehicle) and air (fixed wing and helicopter). Approximately 50-60 patients are transported by air each year.

The main role of the fellow is to manage all aspects of a transport to ensure a safe, efficient and cohesive transfer from the referring centre to the accepting intensive care unit. This includes giving advice at the initial referral call; coordinating the transport; stabilising the patient and ensuring continuity of intensive care during the transfer. Full on the job training will be given and all transports will be supervised throughout, either by an accompanying consultant in transport medicine, or by close telephone contact.

It is also expected that the fellows will take an interest in the organisational aspects of transport medicine, including audit, quality assurance projects, presentation at transport and PIC forums in addition to research in subjects pertaining to transport medicine and paediatric intensive care.

Departmental Information

- Demographics
- Team
 - 5 Consultant Intensivists
 - 1 Operational Nurse
 - Manager 1 Regional
 - Nurse Educator
 - 3 Advanced Nurse Practitioners
 - 5 Core Retrieval Nurse Specialistists
- Supervisor(s)
 - Dr Linda Chigaru

Clinical Training Responsibilities

The clinical fellow is an integral part of the multidisciplinary transport team. They can expect to gain wide ranging experience in the early management and stabilisation of critically ill & injured children prior to intensive care admission. The range of cases encountered will cover common general medical conditions requiring PICU (respiratory and infectious conditions) as well as more specialist cases (neurosurgery and cardiac). In addition, experience with the stabilisation and transport of patients referred for ECMO, liver failure and vein of Galen malformations will be obtained.

For each transport, the fellow is expected to:

1. Take a succinct & directed history
2. Give advice as necessary, according to CATS/APLS protocols.
3. Liaise with CATS and intensive care staff
4. Arrange and carry out transport
5. Document the process fully
6. Maintain the CATS database and provide a summary for the referring institution.
7. Update their personal logbook.
8. Discuss issues of importance arising from transport if appropriate

In a typical 3 month rotation a fellow would normally handle around 50 referrals and perform approximately 30 transports. Fellows will hone their skills in communication and rapid triage during their attachment. They will also enhance their practical skills in procedures such as

Programme Description

endotracheal intubation, arterial and central venous access, and intercostal drainage.

Workload / Rota Arrangements / Example Timetable

The service provides 2 transport teams throughout a 24-hour period. The ten transport fellows work on a full shift system with overlapping shifts, which forms a 48-hour EWTD and Junior Doctor Contract compliant rota (Band 1a). There is prospective cover for annual and study leave within the rota. The times of shifts are currently as follows:

Early day shift	08:00 - 20:00
Late day shift	10:00 - 22:00
Early night shift	20:00 - 09:00
Late night shift	21:30 - 09:00
Short day shift	08:00 - 15:00 (Mon-Fri)
Teaching day	08:00 - 16:30

There is a week of short days (Mon-Fri 0800-1500) incorporated within the rota enables the fellows to conduct audit or research related to retrieval or paediatric intensive care medicine. Some flexibility is expected given the emergency and unpredictable nature of the work and as such compensatory rest is mandated after late running shifts.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Education and training is a vital part of the fellow post at CATS. The main focus is on training fellows in transport medicine, although opportunities to benefit from the PICU training program are actively encouraged.

Each fellow has an allocated educational (or clinical) supervisor and a nurse buddy at CATS. Supervisors meet with the fellow at least twice during their rotation, once at the beginning to set educational objectives and at the end to provide feedback, review the logbook and sign off all the relevant competencies. Additional and informal meetings are left to the discretion of the trainee and supervisor.

Formal teaching occurs at CATS as per following

schedule: Monday to Friday:

08:00 - 09:00 CATS morning meeting (discussion of referrals from past 24 hr)

Wednesday: (Every Wednesday)

08:00 - 16:00 CATS teaching day as per published education timetable

Weekly tutorials on topics relevant to transport medicine are held weekly in the CATS office. These take the form of lectures, tutorials, scenarios and simulation sessions.

Thursday:

09:00 Journal club (CATS)

Friday:

08:00 Cardiac M&M (CICU)

Trainees can also attend the ward rounds on all three units at

GOSH: 08:15 - 08:45 GOSH NICU ward round

07:30 - 09:30 GOSH CICU ward

round 08:15 - 09:30 GOSH PICU

ward round

Monthly core curriculum teaching (full day) is organized at GOSH. All trainees are expected to attend.

Further training opportunities

Contact details for unit

Dr Linda Chigaru 0207 430 5853

Dr Daniel Lutman (Head of Clinical Service) 0207 430 58

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	Great Ormond Street Hospital for Children NHS Foundation Trust
Deaneries involved:	London School of Paediatrics

Outline of Programme

This is a one year programme rotating through the different ICU areas: PICU/NICU, CICU, and ICON (Intensive Care Outreach Network).

All trainees will spend at least six months in CICU.

Departmental Information

- Demographics
Great Ormond Street is a paediatric tertiary referral hospital, with a full spectrum of paediatric subspecialties. It is one of the national respiratory ECMO centres, and a transplant centre.
- Team
Dr Allan Goldman
Dr Mark Hayden
Dr Simon Hannam
Dr Cho Ng
Dr Andy Petros
Dr Christine Pierce
Dr Quen Mok
Prof Mark Peters
Dr Joe Brierly
Dr Sophie Skellet
Dr Sanjiv Sharma
Dr Emma Borrowes
Dr Harish Bangalore
Dr Richard Paget
Dr Elise Randle
Dr Katherine Brown
Dr Aparna Hoskote
Dr Ann Karimova
Dr Troy Dominguez
Dr Timothy Thiruchelvam
Dr Akane Iguchi
Dr Nagore Lasuen del Olmo
Dr Samiran Ray
Dr Thomas Brick
Dr Andrew Jones
Dr Pascale Du Pre
Dr Peter Sidgwick
Dr Ana Diaz
Dr Veena Rajagopal
Dr Mirjana Cvetkovic
Dr Warren Rodrigues
Dr Rohit Saxena (locum)
- Supervisor(s)
All substantive consultants engage in educational and clinical supervision, or pastoral care

Clinical Training Responsibilities

Trainees will be expected to participate fully in the management of children in the intensive care areas. There is active support and comprehensive input from the consultant staff. On PICU/NICU and CICU the trainees are expected to participate in the twice daily consultant-led ward rounds. Initially this will include presentation of patients at ward rounds, but with an expected

Programme Description

progression to leading ward rounds. Trainees will present clinical histories at departmental and hospital meetings. There are daily teaching sessions at which attendance is mandatory.

Workload / Rota Arrangements / Example Timetable

The general intensive care area has 27 funded beds with approximately 1200 admissions per year covering all paediatric subspecialties including neurosurgery. Of the approximately 400 neonatal intensive care patients per year most have complex medical and surgical problems. In its current form the cardiac intensive care unit has 21 beds and receives approximately 800 cardiac admissions per year. This is due to expand in summer/autumn 2018 to 42 intensive and high dependency beds. In addition to the peri-operative care of children with congenital heart disease the unit is commissioned for highly specialised services that include respiratory ECMO, heart and lung transplantation, tracheal surgery, and pulmonary hypertension patients. Trainees work a full shift, EWTD compliant rota in all ICU areas which have been designated Band 1A. Study leave is incorporated into the rota. Annual leave needs to be requested in advance.

PICU rota:

Wk	Template Junior						
	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1 (PICU)	2030-0930	2030-0930	2030-0930	2030-0930			
2 (PICU)	0815-2115	0815-2115	0830-1700		2030-0930	2030-0930	2030-0930
3 (PICU)							
4 (PICU)		0830-1700	0830-1700		0815-2115	0815-2115	0815-2115
5 (PICU)			0815-2115	0815-2115			
6 (PICU)	0815-2115	0815-2115	0815-2115			0815-2115	0815-2115
7 (PICU)		0830-1700	0830-1700	0815-2115	0815-2115		
8 (PICU)	Research	Research	Research	Research	Research		
9 (PICU)	2030-0930	2030-0930	2030-0930	2030-0930			
10 (NICU)		0830-1700	0830-1700		2030-0930	2030-0930	2030-0930
11 (NICU)							
12 (NICU)	0815-2115	0815-1800	0815-2115		0815-1800	0815-2115	0815-2115
13 (NICU)	0815-1800		0830-1700	0815-2115		0815-1800	0815-1800
14 (NICU)		0815-2115	0815-1800	0815-1800	0815-2115		
15 (NICU)	2030-0930	2030-0930	2030-0930	2030-0930			
16 (NICU)	Research	Research	Research	Research	Research		

To identify which week of the above template a doctor will be working, find the letter they are under below and check which week number that letter is showing top left.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Trainees will be encouraged to participate in audit and research projects with appropriate supervision. Protocols for the management of a number of clinical problems are available and trainees will be encouraged to review these. Clinical governance meetings are held at regular intervals to which trainees are expected to attend and make presentations. The units have a very strong research portfolio and close links with the Institute of Child Health, and there is a regular research meeting where research projects can be discussed and presented.

Further training opportunities

As well as the more informal daily teaching sessions, there is a dedicated day of teaching every week. Teaching covers all aspects of ICU and includes didactic teaching, practical sessions, case discussions, communication and support workshops, and simulation teaching. Within this there is also a modular training programme split into Years 1 and 2 which follows the RCPCH curriculum and is updated regularly. Modules are distributed to the trainees weekly and learning is supported by bedside and consultant led teaching. Trainees will be expected to partake in this teaching. Numerous courses are held within the hospital and at the Institute of Child Health which are open to all GOSH trainees.

Any further information

The ICON role involves running the outreach service, having oversight of all the general intensive care patients at night, and time as 'fellow of the week'. The trainee will lead wards rounds on the PICU and run the 'shop floor' every day for a week at a time. This provides invaluable leadership and decision making experience.

Contact details for unit

Training lead: Dr Andrew Jones

Programme Description

(andrew.jones@gosh.nhs.uk Training lead for CICU: Dr
Suzan Kakat (suzan.kakat@gosh.nhs.uk)

Programme Description

Sub-specialty:	Aneasthetics
Base Unit:	Princess Alexandra NHS Trust
Deaneries involved:	East of England and London Deaneries.

Outline of Programme

12 month post for CT1 equivalent training in anaesthesia.

All CT1 competencies expected will be delivered. After initial assessment of competency within 3-6 months, there will be a further period of consolidation of anaesthetic skills and exposure to adult ICU medicine.

These positions will be treated in the same manner as our CT1 positions.

The supervision of the Clinical Fellows is shared between all Consultants. The majority of your clinical time will be allocated to theatre sessions under the supervision of a more Senior Anaesthetist.

An initial three month supernumerary period will be necessary with this time being utilised to achieve the competencies laid out by the Royal College of Anaesthetists. Upon successful completion of these, the doctor will be expected to provide on-call services to the "Theatre" line of the rota. On-site consultant supervision is provided until 22.00. After this time, any cases going to theatre will be discussed with the on-call theatre consultant anaesthetist who will decide whether the case should go to theatre and, if so, with what level of support.

Departmental Information

- Demographics
Princess Alexandra Hospital

The Hospital is within easy walking distance of Harlow Town Centre with good approach roads and within easy reach of the M11. It was first opened in 1965 and currently has approx 500 beds. The services provided are:

- Accident and Emergency
- General Medicine and Care of the Elderly
- General and Vascular Surgery and Urology
- Trauma and Orthopaedics
- Obstetrics and Gynaecology
- Head and Neck including Ophthalmology, ENT, Maxillo-Facial surgery
- Intensive Care and High Dependency Units
- Paediatrics and Neonatal Intensive Care

- Team

Dr D Dutta	ICU / Vascular
Dr L Evans	Teaching / Regional Anaesthesia / Undergraduate Dean
Dr J Ghoshdastidar	Orthopaedics
Dr S Gopinath	Ophthalmics
Dr R Goyal	Obstetrics / Enhanced Recovery
Dr K Hamilton	ICU / Difficult Airway / High Risk Patients Clinic / Anaesthetics Lead
Dr A Krishnamurthy	ICU / FRCA Examiner (Final)
Dr M Michail	Obstetrics / AMD Surgery and Critical Care Directorate
Dr A Morris	Chief Medical Officer
Dr B Panesar	ICU
Dr N Patel	Obstetrics
Dr J Phillips	ICU / Vascular / College Tutor (incoming) Dr J Price (locum) ICU
Dr G Raine	Orthopaedics / Paediatrics Dr R Rajendram
Dr R Saha	Day Surgery / Revalidation ICU Lead / EDIC Examination Board
Dr R Sethuraman	ICU / FRCA Examiner (Primary) / College Tutor (outgoing)
Dr P Tamilselvan	Obstetrics / Foundation Programme Director

Programme Description

Dr M Wagih	ICU
Dr R Woograsingh	High Risk Anaesthetic Clinic / Audit
Dr S Venkatesh	Obstetrics
Dr M Zia	Urology

Dr J David (locum) General
Non-Consultant Grades: 13

Trainees:

ST3-7 5 (from Central London School)
CT1-2 6 (from East of England School)
ACCS 2 (4 from August 2015)

- Supervisor(s) Dr K Hamilton Dr Sethuraman Dr Phillips

Clinical Training Responsibilities

An initial three month supernumerary period will be necessary with this time being utilised to achieve the competencies laid out by the Royal College of Anaesthetists. Upon successful completion of these, the doctor will be expected to provide on-call services to the "Theatre" line of the rota. On-site consultant supervision is provided until 22.00. After this time, any cases going to theatre will be discussed with the on-call theatre consultant anaesthetist who will decide whether the case should go to theatre and, if so, with what level of support.

Teamwork is an essential part of Anaesthetics and, if not busy in theatres, it is expected that the doctor will offer to assist the anaesthetists covering Critical Care or Obstetrics. Such time may give valuable exposure to these specialties as these positions will not otherwise give you experience in Critical Care and only very limited experience with obstetric anaesthesia.

Workload / Rota Arrangements / Example Timetable

The department runs a full shift pattern on a 1:8 with prospective cover for annual leave and study leave.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

All doctors are expected to be involved and participate in weekly departmental teaching. They are also expected to participate in departmental teaching

Further training opportunities

To participate in quality improvement programs and to develop leadership skills.

Any further information

Contact details for unit

email: kevin.hamilton@pah.nhs.uk

Anaesthetic Department
The Princess Alexandra Hospital Hamstel Road
Harlow CM20 1QX

London

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Evelina Children's Hospital (St Thomas)	PICM	24	Dr Marilyn Mcdougall Marilyn.McDougall@gstt.nhs.uk	C	Y
Evelina Children's Hospital (St Thomas)	PICM	24	Dr Marilyn Mcdougall Marilyn.McDougall@gstt.nhs.uk	C	Y
St Mary's Hospital/ Royal Brompton/GOSH	PICM	24	Dr Ruchi Sinha ruchi.sinha@nhs.net	C	Y

Additional Information

All programmes to include 6-12months anaesthesia taken as OOP and not counted within the 24 months.

The St Mary's/Brompton/GOSH rotation will include a 12 month OOPE at Royal Berkshire Hospital between Year 1 and Year 2 for trainees who do not have a minimum of a 6 months anaesthetic experience.

Job descriptions for all units available.

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	Great Ormond Street Hospital for Children NHS Foundation Trust
Deaneries involved:	London School of Paediatrics

Outline of Programme

This is a one year programme rotating through the different ICU areas: PICU/NICU, CATS (Children's Acute Transport Service) and ICON (Intensive Care Outreach Network).

All trainees will spend three months at CATS and nine months doing PICU/NICU and ICON.

Departmental Information

- Demographics
Great Ormond Street is a paediatric tertiary referral hospital, with a full spectrum of paediatric subspecialties.
- Team

Dr Simon Hannam
Dr Andy Petros
Dr Christine Pierce
Dr Quen Mok
Prof Mark Peters
Dr Joe Brierly
Dr Sophie Skellet
Dr Sanjiv Sharma
Dr Emma Borrowes
Dr Harish Bangalore
Dr Daniel Lutman
Prof Padmanabhan Ramnarayan
Dr Linda Chigaru
Dr Elise Randle
Dr Samiran Ray
Dr Andrew Jones
Dr Pascale Du Pre
Dr Peter Sidgwick

- Supervisor(s)
All substantive consultants engage in educational and clinical supervision, or pastoral care

Clinical Training Responsibilities

Trainees will be expected to participate fully in the management of children in the intensive care areas. There is active support and comprehensive input from the consultant staff. On PICU/NICU the trainees are expected to participate in the twice daily consultant-led ward rounds. Initially this will include presentation of patients at ward rounds, but with an expected progression to leading ward rounds. Trainees will present clinical histories at departmental and hospital meetings. There are daily teaching sessions at which attendance is mandatory.

When working within CATS each trainee will be expected to complete two transfers under consultant supervision to an adequate standard before undertaking independent retrievals with consultant support. At least one supervised flight transfer will be undertaken prior to independent flight retrievals

Programme Description

Workload / Rota Arrangements / Example Timetable

The general intensive care area has 27 funded beds with approximately 1200 admissions per year covering all paediatric subspecialties including neurosurgery. Of the approximately 400 neonatal intensive care patients per year most have complex medical and surgical problems.

CATS undertake over 1,000 paediatric intensive care retrievals per year including air transfers; 70% of patients are invasively ventilated and 30% are on inotropic support.

Trainees work a full shift, EWTD compliant rota in all ICU areas which have been designated Band 1A. Study leave is incorporated into the rota. Annual leave needs to be requested in advance.

Template Junior							
Vk	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1 (PICU)	2030-0930	2030-0930	2030-0930	2030-0930			
2 (PICU)	0815-2115	0815-2115	0830-1700		2030-0930	2030-0930	2030-0930
3 (PICU)							
4 (PICU)		0830-1700	0830-1700		0815-2115	0815-2115	0815-2115
5 (PICU)			0815-2115	0815-2115			
6 (PICU)	0815-2115	0815-2115	0815-2115			0815-2115	0815-2115
7 (PICU)		0830-1700	0830-1700	0815-2115	0815-2115		
8 (PICU)	Research	Research	Research	Research	Research		
9 (PICU)	2030-0930	2030-0930	2030-0930	2030-0930			
10 (NICU)		0830-1700	0830-1700		2030-0930	2030-0930	2030-0930
11 (NICU)							
12 (NICU)	0815-2115	0815-1800	0815-2115		0815-1800	0815-2115	0815-2115
13 (NICU)	0815-1800		0830-1700	0815-2115		0815-1800	0815-1800
14 (NICU)		0815-2115	0815-1800	0815-1800	0815-2115		
15 (NICU)	2030-0930	2030-0930	2030-0930	2030-0930			
16 (NICU)	Research	Research	Research	Research	Research		

To identify which week of the above template a doctor will be working, find the letter they are under below and check which week number that letter is showing top left.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Trainees will be encouraged to participate in audit and research projects with appropriate supervision. Protocols for the management of a number of clinical problems are available and trainees will be encouraged to review these. Clinical governance meetings are held at regular intervals to which trainees are expected to attend and make presentations. The units have a very strong research portfolio and close links with the Institute of Child Health, and there is a regular research meeting where research projects can be discussed and presented.

Further training opportunities

As well as the more informal daily teaching sessions, there is a dedicated day of teaching every week. Teaching covers all aspects of ICU and includes didactic teaching, practical sessions, case discussions, communication and support workshops, and simulation teaching. Within this there is also a modular training programme split into Years 1 and 2 which follows the RCPCH curriculum and is updated regularly. Modules are distributed to the trainees weekly and learning is supported by bedside and consultant led teaching. Trainees will be expected to partake in this teaching. CATS contribute to programmed activities with teaching focussed on transport of the critically ill child with the aim of achieving competencies in this area. Numerous courses are held within the hospital and at the Institute of Child Health which are open to all GOSH trainees.

Any further information

The ICON role involves running the outreach service, having oversight of all the general intensive care patients at night, and time as 'fellow of the week'. The trainee will lead wards rounds on the PICU and run the 'shop floor' every day for a week at a time. This provides invaluable leadership and decision making experience.

Contact details for unit

Training lead: Dr Andrew Jones (andrew.jones@gosh.nhs.uk).

Training lead for CATS: Dr Linda Chigaru (linda.chigaru@gosh.nhs.uk)

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	St. Mary's Hospital, Imperial College Healthcare NHS Trust (6 month post) as part of a 24 month rotation with Royal Brompton Hospital 6 months (CICU) CATS (3 months) and Great Ormond Street Hospital (9 months)
Deaneries involved:	London Speciality School of Paediatrics

Outline of Programme

A two year training programme in Paediatric Intensive Care Medicine structured as follows:

Year One: 6 months based at St. Mary's Hospital PICU (Imperial College Healthcare NHS Trust) and rotating to 6 months at the Royal Brompton Hospital.

Year Two: 9 months at Great Ormond Street Hospital rotating between PICU, NICU, ICON (Intensive Care Outreach) and 3 months at CATS (Children's Acute Transport Service).

Every effort will be made to match the type of rotation with the training needs of the individual.

For those without Anaesthetic experience, this post also includes a 12 month OOPe in Anaesthesia and AICU which is organised by the PICU team at St. Mary's Hospital and will take place at the Royal Berkshire Hospital (Reading) I, and will take place after Year 1 of training has been completed.

Departmental Information

- Demographics

St. Mary's Hospital is part of Imperial College Healthcare NHS Trust. The large paediatric department has the following paediatric sub-specialties: PICU, Infectious Diseases, Allergy, Haematology and Oncology (including BMT), Emergency Medicine, Neurology, Neurodisability, Nephrology, and complex General Paediatrics.

St. Mary's Hospital is one of four designated Major Trauma Centres in London admitting both adults and children for all trauma services.

The PICU has 8 PICU beds (10 beds over the winter period) and there are 400 admissions per year to the PICU. 80% of these are retrieved by CATS, and the remaining 20% are admitted from the paediatric wards, operating theatres and the Emergency Department. The unit is expanding to a 15 bedded unit in March 2019.

The PICU has a track record for the management of children with life-threatening infection, and there is the opportunity for a diverse range of research opportunities.

- Team

- Professor Simon Nadel - Lead Clinician, Academic interests - Shock, Sepsis, Post-PICU PTSD.
- Dr. Mehrengise Cooper - Training Programme Director (London School of Paediatrics) and RCPCH PICM ISAC Chair, Organ Donation Lead, Academic interests - Simulation Training, Post-PICU PTSD.
- Dr. David Inwald - Cardiology lead, Paediatric Trauma Lead, Academic interests - Sepsis, Undergraduate Tutor.
- Dr. Sabeena Qureshi - Paediatric Anaesthetic Lead and Anaesthetic Trauma Lead
- Dr. Padmanadhan Ramnarayan - CATS Consultant, Academic interests - Transport of the Critically Ill Child, Non-invasive Respiratory Support.
- Dr Claudine de Munter, RRT lead, academic interests - RRT,
- Dr. Ruchi Sinha - Unit Training Lead, Paediatric Simulation Training Lead, Risk Lead

- Supervisor(s)

All consultants are Clinical Supervisors.

Dr. Mehrengise Cooper will be the Educational supervisor for the trainee in this post.

Programme Description

Clinical Training Responsibilities

Trainees will be expected to participate fully in the management of children in the PICU and work with the PICU multi-professional team.

They will be expected to be involved and lead in the management of any acutely unwell child within the hospital - including resuscitation, stabilisation, and ongoing management and transfer to the PICU.

They will develop the skills required to manage children requiring PICU admission.

They will be expected to consolidate their knowledge of common pathways leading to critical illness in children and treatment modalities.

Workload / Rota Arrangements / Example Timetable

The rota is a full-shift (seven-person) rota and meets the standard of the new junior doctor contract. Senior trainees in General Paediatrics, Paediatric Emergency Medicine Grid trainees, and PICU Clinical Fellows take part in this rota

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Trainees will be encouraged to participate in audit, quality improvement and research projects, with appropriate supervision. There is a regular research meeting to which Research and Audit projects are presented. Trainees are expected to attend and partake. Departmental audit meetings take place every four months.

Guidelines for the management of a number of clinical problems are available and the trainees will be encouraged to review these. In addition the post-holder will update one North Thames PICU Core Curriculum guideline.

Departmental Morbidity and Mortality meetings are held monthly and PICU trainees are expected to attend and lead these meetings. Trainees are also encouraged to take an active role in risk and patient safety by leading on weekly safety huddles and co-investigating serious incidents when appropriate with the opportunity to present their findings and action plans to senior management. Throughout these processes they would be supervised by a PICU consultant and a senior risk nurse.

Further training opportunities

Monthly Risk Management meetings
Weekly PICU Safety huddles
Weekly PICU teaching
Monthly in house simulation

Opportunity to attend other specialist meetings - ID, Allergy, Trauma Meetings, Paediatric and Adult Grand Rounds etc.

All trainees spend one shift as a PICU nurse where they learn about the specific role of the PICU bedside nurse

PICU Education Week- during their education week PIC trainees attend Operating theatre lists, where they are supervised by a consultant anaesthetist in management of both the basic and advanced airway.

PIC trainees are expected to attend the regional PICU training days (which take place monthly - this will be incorporated into their rota), regional PICU Case-based discussion days.

The post-holder will have the opportunity to undertake a Quality Improvement project during their post and will be encouraged to take part in the Imperial College Healthcare NHS Trust Paired Learning Programme.

Any further information

Training in Paediatric Intensive Care Medicine at St. Mary's Hospital will provide Year 1 training in PICM - 6 months, completing the year by rotating to the Royal Brompton Hospital (6 months).

Programme Description

Trainees will be exposed to children admitted through a Paediatric Emergency Department and so will be involved in the management of children including their initial stabilisation in the ED through to PICU admission, and this will include the management of Paediatric trauma.

The Paediatric Department at St. Mary's Hospital is very focused on all training including multi-professional education and was awarded the Lis Paice Excellence in Education Award for Best Clinical Department by the London Deanery in December 2010. The department has a comprehensive induction programme and Paediatric training at St. Mary's Hospital consistently receives very good feedback from trainees. The PICU continues to have very good feedback from the GMC survey and the annual London School of Paediatrics survey.

Contact details for unit

Dr. Mehrengise Cooper - mehrengise.cooper@nhs.net

Dr. Ruchi Sinha - ruchi.sinha@nhs.net

Programme Description

Sub-specialty:	Paediatric cardio-respiratory intensive care
Base Unit:	Royal Brompton Hospital NHS Foundation Trust
Deaneries involved:	London School of Paediatrics

Outline of Programme

This is a 6 month rotation as part of 36 PICM National GRID training programme.

This rotation is part of the following rotation:

Year 1 PICM training: St Mary's Hospital PICU - 6 months, Royal Brompton PICU - 6 months CICU training

Year 1 PIMC training: Great Ormond Street Hospital - 12 months - including CATS

Royal Berkshire Hospital - 12 months of AICU and Anaesthesia - between Year 1 and Year 2 PICM training for those who have not gained 6 months (minimum) Anaesthetic training.

Departmental Information

- Demographics

The Royal Brompton Hospital (RBH) is a specialist cardiothoracic centre specialising in diseases of the heart and lung, with services for adults and paediatrics (Cardiology, Cardiothoracic Surgery, Radiology, and Thoracic Medicine). Royal Brompton is one of the largest centres for heart and lung surgery in the United Kingdom. Over 2,000 adult and 500 heart and lung paediatric operations are undertaken each year. A comprehensive range of services for children with heart and lung disease is provided. This has recently been expanded to provide a 24 bed paediatric intensive care unit (16 PICU beds, 8 HDU beds) which has the most sophisticated equipment available for the management of paediatric critical care. There are approximately 650 admissions per year.

- Team

Dr Duncan Macrae	Consultant Paediatric Intensivist and Anaesthetist
Dr Margarita Burmester Intensivist	Clinical Lead of PICU and Consultant Paediatric
Dr Sandra Gala-Peralta	Consultant Paediatric Intensivist
Dr Ajay Desai	Consultant Paediatric Intensivist
Dr Nitin Shastri	Consultant Paediatric Intensivist
Dr Lidia Casanueva	Consultant Paediatric Intensivist
Dr Anke Furck	Consultant Paediatric Intensivist and Paediatric Cardiology
Dr Angela Aramburo	Consultant Paediatric Intensivist
Dr Victoria Sheward	Consultant Paediatric Intensivist
Dr Abhishek Narayanan	Consultant Paediatric Intensivist
Dr Charlie Briar	Locum Consultant Paediatric Intensivist

- Supervisor(s)

Dr Ajay Desai
Dr Victoria Sheward
Dr Nitin Shastri

Clinical Training Responsibilities

Working closely with other members of the clinical team (surgeons / cardiologists / respirologists / anaesthetists / other relevant specialities), the trainees are expected to provide clinical care for all patients receiving intensive / high-dependency care at Royal Brompton Hospital. The senior trainees are responsible for the clinical supervision of the SHOs. All trainees present cases in the 0730hrs bedside MDT rounds as well as in the twice daily consultant-led ward rounds. He/she will be required to attend and discuss cases at the MDT meetings that occur during the week. Senior trainees are encouraged to undertake leadership roles.

Programme Description

Workload / Rota Arrangements / Example Timetable

PICU has been expanded to provide a 24-bed unit (16 PICU beds, 8 HDU beds). There are approximately 650 admissions per year. Trainees work a full shift, EWTD as well as New Junior Doctors' contract compliant rota in which is designated Band 1A. Annual leave and study leave are incorporated into the rota. The rota is currently configured for 12 SpRs/Clinical Fellows. All mandatory training sessions are clearly marked on the rota - Sprint Simulation training/ Anaesthetic training/ Clinical Governance day/ North Thames PICU Core Curriculum day. Study leave needs prior approval by the consultant and rota coordinator.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Research/Audit/QI

Trainees are expected to have recognized outputs from their research/audit time. At the first Induction meeting with ES trainees should discuss and agree on a research / audit / QI project / guideline development based on educational and training needs. All research/audit projects are formally discussed and agreed within the consultant group.

All audit projects must be registered on the Trust Intranet.

PICANet database

All trainees are expected to update their patients' data on Picanet every shift. During the day time, the Short Day Registrar should complete data entry. During out-of-hours this should be done by the named registrar looking after the patient. Data is reviewed and validated every Monday.

Further training opportunities

Education and Training

Trainees are expected to schedule an appointment with named educational supervisor in the first 2-3 weeks of their rotation. We endeavour to customize trainees' time with us to their training needs and likewise expect trainees to take responsibility for maximizing the educational opportunities provided. A PDP is agreed at the end of first meeting.

Weekly:

Monday 8-9 am

Medical JCC MDT

week. Good

& listen to

One of the most important multidisciplinary meetings of the opportunity to hear history, see echo & cath results together reasons for operation chosen.

Monday 3-5pm

high

into CRM

Simulation Training (SPRinT) Programme (PICU) SPRinT (Simulation Paediatric Resuscitation in Training) uses fidelity simulation to provide teams with training and insight principles and human factors.

Tuesday 8-9 am

ECHO meeting

Review of interesting echos and discussions.

Tuesday 12:15pm

Cardiac Morphology teaching

Wednesday 8-9am

SpRs and

Paediatric intensive care/ cardiology/ surgery lectures

Excellent quality teaching designed for ANPs, Senior Fellows, Consultants.

Thursday 8-9 am

Surgical JCC MDT

Programme Description

opportunity to	Surgical Meeting to review coming week's cases; great discuss surgical strategies and anticipated ICU issues.
Thursday 1-2pm given by	ST Trainees - Lecture Series (Cardiology/ PICU/ Respiratory) Bleep free teaching for Junior ST trainees; formal lectures senior registrars/consultants.
Friday 8-9am presentation statistical analysis.	PICU Journal Club/ Case Based Discussion/ Guideline Attention to detail on study design, methodology and
Daily: operated	Anticipated problems & teaching around specific CHD being on that day
Weekly: training sessions	Anaesthetic training sessions All PICU Registrars are rostered to attend anaesthetic on a regular basis.
Twice Monthly: recent	PICU Grand Rounds - by Dr Duncan Macrae Interactive teaching session for ALL! From basics to the most advances in paediatric intensive care medicine.
Monthly: scheduled to	North Thames PIC Core Curriculum teaching At GOSH/ St Mary's/ Royal Brompton; registrars are attend. Clinical Governance Day - Morbidity and Mortality meeting Trainees are expected to attend and present cases.
Fulham Road Teaching Programme trainees Brompton and	Joint RBH-CWM Teaching Programme for Paediatric ST Last Thursday every month: alternating venues between CWM Hospitals.
Self directed: cards in problems.	Core curriculum modules on T-drive/Review of lesion specific PICU protocols with particular attention to anticipated

Contact details for unit

Dr Ajay Desai (a.desai@rbht.nhs.uk)
Dr Victoria Sheward (v.sheward@rbht.nhs.uk)

Programme Description

Sub-specialty:	Paediatric intensive care
Base Unit:	Evelina London Children's Hospital (ELCH)
Deaneries involved:	London

Outline of Programme

Two year training through PICU (general and cardiac) and the integrated retrieval service, South Thames Retrieval Service. Further 6 months training in anaesthetics (within St Thomas hospital and paediatric anaesthesia at Evelina London) as out of programme compulsory commitment for PICM. PICM modules start in September (or occasionally in March). All trainees are also given the opportunity to rotate through Kings College hospital for exposure to neurosurgical intensive care and hepatology.

Departmental information

Demographics

ELCH is the lead centre PICU for South Thames and home base for the integrated paediatric emergency transport service-South Thames Retrieval Service (STRS). PICU is a mixed intake unit, admitting cardiac and general intensive care. Over 1200 children are admitted per annum through 19 physical beds. Approximately 35% are cardiac or cardiac surgical admissions, with 50% admissions as emergencies through STRS. STRS takes over 1600 calls per annum and transfers about 850 children.

Team

Medical team

There are 13 intensive care consultants. 11 consultants also commit time to STRS. All consultants have lead role commitments. 9 consultants are educational supervisors.

Prof Ian Murdoch: PICU clinical director and lead consultant. Paediatrics

Dr Shane Tibby: Evelina research and Development lead and medical statistician. Educational supervisor. Paediatrics

Dr Andrew Durward: IT specialist, Bronchoscopy and airway service lead. ECMO lead consultant. Paediatrics

Dr Sara Hanna: Evelina London Medical Director. Bronchoscopy. Paediatrics

Dr Shelley Riphagen: STRS medical lead. Retrieval nurse practitioner programme lead. PICM lead. Retrieval consultant. Bronchoscopy. Educational supervisor. Paediatrics

Dr Marilyn McDougall: Education and simulation lead (PICU and ELCH). Trust simulation consultant. Retrieval consultant. Educational supervisor. Paediatrics.

Dr Paul James: Anaesthetic liaison. Junior medical rota co-ordinator. Bronchoscopy Educational supervisor. Anaesthetics.

Dr Joanne Perkins: Surgical sub-specialty co-ordinator. Bronchoscopy. Educational supervisor. Anaesthetics

Programme Description

Dr Helen Daly: Paediatrics Surgical services clinical director. Anaesthetics

Dr Andrew Nyman: STRS (retrieval) IT specialist. Bronchoscopy . ECMO lead consultant. Educational supervisor. Paediatrics

Dr Alison Pienaar: Ward outreach and PICU clinical governance lead. ECMO lead consultant. Retrieval consultant. Educational supervisor. Paediatrics

Dr Jon Lillie: Retrieval consultant. ECMO lead consultant. Educational supervisor. Paediatrics

Dr Claire Barker: Retrieval interest. Educational supervisor. Anaesthetics

There are also 23 junior medical staff in 4 sub-specialties including paediatric intensive care (6), paediatrics (6), anaesthetics (1-3), adult intensive care (2) and emergency medicine.

Nursing

Louise Dewsbury: PICU matron

Fiona Lynch: PICU nurse consultant. Kirsteen McCulloch covering for 2015/2016

Fiona Bickell: Retrieval service joint lead, Retrieval nurse practitioner

Karen Starkie: Retrieval service joint lead

Matt Norridge: PICU lead nurse educator

Sharon Chambers: Governance and Audit

Retrieval Nurse practitioners: 12

PICU advanced nurse practitioners 2 in training

Clinical training requirements and responsibilities

All trainees will be expected to

1. Advance skills in paediatric resuscitation, stabilisation and transfer
2. Develop understanding of assessment and support of the critically ill child
3. Consolidate technical skills related to resuscitation, stabilisation and ongoing management of the critically ill child
4. Develop advanced skills to manage critically children at a tertiary level including post operative cardiac intensive care
5. Increase knowledge of common pathways leading to critical illness in children and understand ideal evidence based treatment options
6. Develop ability to distil essential information from telephonic referral of critically ill children
7. Initiate telephonic clinical advice for the management of critically ill children
8. Develop clinical ability to oversee clinical management of the PICU and retrieval service in "in charge" role
9. Become competent in the use of equipment commonly used in advanced organ support of critically ill children
10. Understand the anaesthetic considerations pertaining to the management of critically ill children
11. Develop multi-disciplinary teaching skills
12. Develop critical appraisal skills

Programme Description

Workload/rota arrangements/example timetable

The rota is a full shift EWTD compliant rota with leave incorporated. Leave requests are flexibly rota'd as permitted. Fellows work up to 48hrs per week including some time for administrative and audit tasks, allowing trainees to take an active role in clinical governance and management roles, and including time for personal CPD. 22 fellows take part in the rota. The rota covers the service requirements for the PICU and the retrieval service. The number of fellows allocated per shift is in accordance with national guidelines relating to both areas. The majority of trainees are at an advanced level of training in anaesthetics, paediatrics or adult intensive care medicine. PICM trainees are placed on the senior tier of the rota from the start and expected to fulfil a leadership role at nights and weekend from very early on. Most PICM trainees are offered the opportunity to rotate into the chief fellow (junior consultant) position for 3 to 6 months, in preparation for a consultant position.

Non clinical training responsibilities (expectations of research/ audit/teaching)

Trainees are expected to participate fully in the service delivery of both the PICU and the retrieval service. Clinical supervision is consultant led and determined by individual trainee need.

All trainees are expected to play an active role in

1. Developing leadership skills in the delivery of retrieval, resuscitation and lead roles within the PICU and retrieval service
2. Refine communication and triage skills and will be evaluated on these non- technical skills during high fidelity simulation teaching and clinical encounters
3. Attendance at teaching opportunities during the week and monthly at PICM training days. Teaching includes fellow delivered journal clubs, consultant teaching, morbidity and mortality and weekly retrieval review meetings . All attendance is recorded and reported
4. Develop teaching skills by teaching medical students and nurses, supervising and teaching fellows junior to themselves, and being involved in MDT outreach teaching to the district general hospitals
5. Understand the process of audit by developing and audit, carrying it out, evaluating the results and instituting change based on the audit recommendations
6. Develop a clinical guideline to publishable stage.

Further training opportunities

1. Teaching is both formal and informal. Fellow, nurse and nurse practitioner training and teaching occurs continuously in the PICU and all fellows are encourage to participate fully in teaching
2. Courses are run within the PICU and retrieval service to cover specific areas including ECMO, advanced renal support, aeromedical transfer. All fellows are encouraged to participate fully in teaching. Some teaching is compulsory
3. Training in Neuro-intensive care, Trauma and Oncology will be gained with a three month rotation to St George's Hospital PICU
4. The 6 months secondment to anaesthesia is co-located at St Thomas and the Evelina. Trainees are expected to maintain a log book and achieve all competencies
5. During "administration " days, which are built into the rota, trainees are expected to source education on leadership, management, and to shadow clinical leaders within the Evelina paediatric directorate to gain an understanding of the work supporting clinical service delivery
6. All trainees have a designated consultant mentor, with whom they are expected to meet on a 3 to 6 monthly basis to track clinical, academic and career progress. A formal annual review or summary of progress should be documented for all to set personal development objectives and ensure these are achieved.

Programme Description

Any further information

Interested candidates are welcome to arrange a visit to be shown around the unit and service

Contact details for unit

Dr Shelley Riphagen

Shelley.riphagen@gstt.nhs.uk

Mobile 07789551056

PICU secretary: 0207 1884575

Northern

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Great North Children's Hospital, Newcastle upon Tyne	General PICM, Retrieval	18	Dr Grace Williamson grace.williamson@nuth.nhs.uk	C	Y
Freeman Hospital, Newcastle upon Tyne	Cardiac PICM, ECMO	6	Dr Emma Simpson emma.simpson2@nuth.nhs.uk	C	Y
HEENE - Northern	Anaesthesia	6	Dr Amir Raf amir.rafi@nhs.net	C	Y

Additional Information

The Newcastle upon Tyne PICM rotation includes 18 months of general PICM training at Great North Children's Hospital and 6 months of cardiac PICM training at Freeman Hospital. The rotation also includes 6 months of stand-alone anaesthesia training before year 2 PICM, for trainees without previous anaesthesia experience.

The Great North Children's Hospital opened in 2010 and provides tertiary and quaternary services for infants and children in the North East of England and North Cumbria. The PICU has 18 beds, of which 12 beds are currently funded. The unit admits patients from a wide range of specialties including neurology, neurosurgery, oncology, bone marrow transplantation and trauma. A stand-alone regional transport and retrieval service, NECTAR, is now operational and works closely with both units. GRID trainees will receive training in paediatric retrieval during their rotation through GNCH.

The cardiothoracic PICU at Freeman Hospital has 12 beds and supports a rich cardiothoracic programme catering for the full spectrum of congenital and acquired cardiac disease. Freeman Hospital is one of two hospitals in the UK providing heart and lung transplantation. An integral part of this programme is the provision of mechanical cardiac support to children with severe heart failure. Additionally, Freeman Hospital is one of the four primary units in the UK providing neonatal and paediatric respiratory ECMO. Around 50 patients receive mechanical support per year.

Programme Description

Sub-specialty:	Paediatric Intensive Care Medicine
Base Unit:	PICU, Great North Children's Hospital, Newcastle upon Tyne
Deaneries involved:	Northern

Outline of Programme

Two year programme incorporating 18 months general PICM and transport medicine training at Great North Children's Hospital and 6 months cardiac PICM training in the cardiothoracic PICU at Freeman Hospital, both in Newcastle upon Tyne. The programme provides complete training in all competencies required by ICTPICM and in addition, offers training in mechanical circulatory support (ECMO, VAD).

Trainees without prior anaesthesia training will undertake an additional 6 months of stand-alone anaesthesia training with the School of Anaesthesia, Northern Deanery before year 2 of PICM training.

Departmental Information

- Demographics

a) General PICU, Great North Children's Hospital

Great North Children's Hospital opened in 2010 and provides services for children in the North East and North Cumbria. The PICU has 18 beds of which 12 are currently funded. It has a wide case mix and provides a full range of paediatric intensive care services except cardiac (based at Freeman Hospital). Subspecialties include bone marrow transplantation, immunology, oncology, neonatal surgery, neurosurgery, orthopaedics, ENT and major trauma. Almost 700 patients are admitted per year.

b) North East Children's Transport and Retrieval (NECTAR)

NECTAR is the regional standalone critical care transport service for the North East and Cumbria. It undertakes almost 300 retrievals each year of critically ill children and this demand is rising year on year. Recent expansion has also allowed the development of a service undertaking transfers of children needing high dependency/specialist care and repatriation to local hospitals (over 500 further transfers/year).

It provides a single referral point for provision of paediatric critical care in the Northern region. Trainees will be involved in all aspects of the service and will receive full training in paediatric critical care retrieval. NECTAR also has an important role in education and outreach throughout the region. Trainees will have opportunity for involvement in service development, research, audit and education.

c) Cardiothoracic PICU, Freeman Hospital

The cardiothoracic PICU has recently expanded to 12 beds and admits > 350 patients per year. The unit caters for the full spectrum of congenital and acquired cardiac disease, including hypoplastic left heart syndrome. It is one of two hospitals in the UK providing heart and lung transplantation. An integral part of the programme is the provision of mechanical cardiac support to children with severe heart failure and Freeman Hospital has one of the world's largest paediatric VAD programmes. Additionally, Freeman hospital is one of the four primary units in the UK providing neonatal and paediatric respiratory ECMO. Around 50 patients receive mechanical support per year.

Programme Description

- Team

Great North Children's Hospital:

Dr Rachel Agbeko

Dr Jan Bengtsson

Dr Susan Jackson, Clinical Lead, PICU (Anaesthesia & PICM)

Dr Aravind Kashyap

Dr Kate Swist-Szulik

Dr Grace Williamson

NECTAR

Dr Aravind Kashyap (NECTAR lead)

Freeman Hospital:

Dr Theresa Chila (Anaesthesia & PICM)

Dr Marga Guillen

Dr Simon Haynes (Anaesthesia & PCIM)

Dr Judit Llevadias

Dr Emma Simpson

Dr Jon Smith (Anaesthesia & PICM)

Dr Yamuna Thiru, Clinical Lead, PICU

- Supervisor(s)

Dr Grace Williamson (Education Lead, PICU, Great North Children's Hospital)

Dr Emma Simpson (Educational Lead, PICU, Freeman Hospital)

Clinical Training Responsibilities

We are committed to providing high quality training in all aspects of paediatric intensive care medicine by rotating trainees through General PICU (GNCH), Cardiothoracic PICU (Freeman), including mechanical support and transplant surgery, and the NECTAR transport service. We also provide built-in anaesthesia training for those who require it.

There is a formal induction programme for new trainees and early access to training in the operating theatre for post-holders with no previous anaesthetic experience. In addition to the daily teaching ward round and informal bedside teaching, there is a formal teaching programme that covers the PICM curriculum (delivered across site), weekly radiology and microbiology meetings, journal club, regular M&M meetings and a monthly VAD and ECMO meeting at FRH. There is regular training using high fidelity mannequins. Education has a high priority and protected teaching time is incorporated into the full shift rota.

As a result we expect the development of skills and knowledge in:

1. Paediatric resuscitation and stabilization.
2. Assessment and support of the critically ill child.
3. Understanding monitoring and clinical measurement on the intensive care.
4. Modalities of organ system support.
5. Technical procedures common to intensive care.
6. Common or important conditions that require intensive care support and their initial management, including polytrauma.
7. Peri-operative care including neonates, cardiothoracic and neurosurgery.
8. Anaesthesia, analgesia and airway management.
9. Transfer medicine, including initial triage of information and advice as well as transfers.
9. End of life care and organ donation.
10. Teaching and critical appraisal.
11. Leadership and multidisciplinary working on intensive care.

As experience increases, more responsibility will be given to trainees to develop their management skills. Senior trainees (year 2) will have scheduled opportunities to 'step up' to run the unit, with appropriate support.

Programme Description

Trainees will be assessed as set out by ICTPICM and the relevant Royal College and will meet their Educational Supervisor on a regular basis.

Workload / Rota Arrangements / Example Timetable

All trainees work full shifts with total contracted hours being EWTD and 'New Deal' compliant. 24-hour comprehensive supervision and support is provided. During normal working hours, a second consultant is available to provide support and training.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Trainees will be expected to participate in quality improvement and research projects, with appropriate supervision. We focus on clinical research including (inter)national observational and interventional trials (e.g. , CHIMES, ADAPT, i-KID, PERFORM, FEVER, risk factors for neurologic injury in children supported with VAD, infant haemodialysis and ECMO to support resuscitation as well as conducting a more basic science programme in mitochondrial dysfunction in systemic inflammation. Our unit is at the forefront of quality improvement and patient safety with internationally recognized faculty and many opportunities to join in the quality improvement initiatives, such as creating a culture of safety, care of the complex child and safe prescribing.

Senior trainees (year 2) are expected to support and supervise less experienced colleagues, including Advanced Paediatric Critical Care Practitioners. There will be opportunities to take an active part in the training and education programme, in both formal and informal settings.

Further training opportunities

A 6 month stand-alone placement in anaesthesia in the Northern Deanery is mandatory for paediatric trainees without previous anaesthesia experience in order to achieve the necessary anaesthetic and airway competencies. It is expected that this would be completed before year 2 of PICM training.

Any further information

For further information, please contact Dr Susan Jackson or Dr Yamuna Thiru (see below).

Contact details for unit

Dr Susan Jackson, Great North Children's Hospital (Susan.Jackson@nuth.nhs.uk; 0191 282 5333)
Dr Yamuna Thiru, Freeman Hospital (yamuna.thiru@nuth.nhs.uk; 0191 213 7488)

North West (Manchester)

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Royal Manchester Children's Hospital (Including NWTS)	PICU	12	Sharmila.gopisetti@mft.nhs.uk	C	Y
Alder Hey Children's Hospital	PICU	12	Sarah.mahoney@alderhey.nhs.uk	C	Y

Additional Information

Two year joint rotation including a total of 3 months at the North West and North Wales Paediatric Transport Service as agreed with the intercollegiate committee for training in paediatric intensive care medicine. 6-12 months OOPE in Anaesthesia in North West Deanery.

Programme Description

Subspecialty:	Paediatric Intensive Care
Base Unit:	PICU, Royal Manchester Childrens Unit
Deaneries involved:	North Western Deanery and Mersey Deanery

Outline of Programme

This 2 year rotation starts with first year at the Royal Manchester Childrens hospital covering general paediatric intensive care with burns and metabolic medicine, followed by a year as a senior trainee at Alder Hey Children's Hospital with a focus on paediatric cardiac intensive care in addition to general intensive care. Broad experience is gained working within 2 large units with different demographics. This programme incorporates the regional transfer service (NWTS) with dedicated exposure and training in transport medicine (including air transfers). A one year anaesthetic component is supported, and formal arrangements are now in place to incorporate this as approved out of programme experience in the North West Deanery (confirmation letter attached from Anaesthesia TPD) .

The purpose built unit at RMCH has a capacity of 17 staffed beds, and a separate adjacent 15 bedded high dependency unit. Within the department of Critical Care there is also the regional burns lead centre. RMCH caters for a diverse population as well as supporting the largest single site children's hospital in the UK with 371 staffed beds. The children's hospital is contiguous with St Mary's Hospital regional neonatal services, as well as Manchester Royal Infirmary and easy access to other clinical services. The hospital houses the supra-regional metabolic, cleft palate, bladder extrophy and spinal services. The PICU supports neurosurgical, burns and major trauma, as well as oncology and post bone marrow transplant patients, in addition to covering the emergency department. The regional transfer service (NWTS) to which you will be attached takes around 900 referral / advice calls and 550 retrievals a year and covers the North West, North Wales regions

Departmental Information

- Demographics
21 Bedded unit with 17 staffed beds, averaging around 720 admissions/year.
- Team
8 full time consultants, 6 advanced practitioners, 12 middle grade comprising 3 paediatric registrars, senior trainees from A&E as well as anaesthetics and adult intensive care, and fellows.
- Supervisor(s)
Dr Sharmila Gopiseti (Educational Supervisor) Dr R Barber (Clinical Lead)

Clinical Training Responsibilities

There is a strong educational component to the post. Weekly, there is a dedicated bleep free two hour teaching slot, Infectious disease rounds, Xray meetings, palliative care/multi-professional meetings, registrar presentations and consultant led lecture/tutorial based teaching. We have incorporated educational snapshots which happens twice a week to promote learning from the clinical cases. There is also a monthly journal club, mortality meetings and access to the hospital grand round. Trainees also present critical care bites, about cases learnt and gives them a chance to select. We also have developed a simulation programme and are focusing on aspects of team work, crisis resource management and learning from incidents. All trainees get the opportunity to spend some time in Paediatric Theatres

There is a monthly study day (NWTS) with regional PICM education (joint AHCH/RMCH/NWTS) at which trainees also present, this multidisciplinary meeting is widely attended by all trainees in the Region and enjoys excellent feedback. Below is our weekly education programme. Attendance is monitored and feedback is taken.

Day	Topic	Facilitator	Times	Venue
Mon	Microbiology Ward Round		13.30-14.30	PICU Unit
Tue	Radiology Meeting		09.30-10.30	PICU Seminar Room
	Mortality Meeting (3rd Tuesday of every month)		13.00-15.00	PICU Seminar Room

Programme Description

Wed	Departmental Education		14.00-16.00	PICU Seminar Room
Thu	Educational Snapshot	1st Consultant on / Trainee to participate		
			09.30-10.00	PICU Seminar Room
	Microbiology Ward Round		14.00-15.00	PICU Unit
	NW Regional Teaching (3rd Thursday of every month)		09.00-16.00	NWTS
Fri	Educational Snapshot	1st Consultant on / Trainee to participate		
			09.30-10.00	PICU Seminar Room
	ACE Day (Every 3 months)		09.00-15.00	PICU Seminar Room

The Paediatric Intensive Care curriculum is followed, with competency based assessments incorporated to achieve your educational objectives. Formative assessments are shared with trainees at regular Educational Supervision meetings.

Grid trainee will be coordinating and organising the Mortality Morbidity meetings, North West Regional Teaching, Simulation programme on the unit and also is encouraged to organise the PICS Masterclass.

Workload / Rota Arrangements / Example Timetable

Full shift rota EWTD & New Deal compliant.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Participation in clinical governance activities as well as individual audit projects or on-going research is encouraged. The department also has close links with the MCRN as well as collaboration with Manchester University in the MIMIT project (Manchester: Integrating medicine and innovative technology). The new Wellcome Trust Children's Clinical Research Facility (WTCCRF) is the first specialist paediatric clinical trials unit in the North West and one of only four in the UK.

Further training opportunities

The department supports a year (OOPE) for anaesthesia, this is now arranged with department of Anaesthesia in the North West Deanery.

Any further information

Year 2 is based at Alder Hey - (please see description under Alder Hey).

Contact details for unit

Dr S Playfor Stephen.playfor@mft.nhs.uk Dr S Gopisetti sharmila.gopisetti@mft.nhs.uk
Phone : 0161 701 8040 (Unit secretary)

Programme Description

Subspecialty:	Paediatric Intensive Care Medicine
Base Unit:	Paediatric Intensive Care Unit at Alder Hey Children's NHS Foundation Trust
Deaneries involved:	Mersey

Outline of Programme

The trainee will be one of 6 NTN Paediatric Intensive Care trainees on PICU in Alder Hey. We are a busy mixed general and cardiac unit and designated national ECMO centre with over 1,100 admissions per year. Alder Hey is also a Major Trauma Centre for paediatrics in the North West. In October 2015 we moved to a new state of the art Alder Hey Children's Health Park - PICU has expand to a 24 bedded unit with a co-located 16 bedded HDU, 6 bedded burns unit and helipad. This post offers an exciting opportunity for comprehensive training in paediatric intensive care, including resuscitation and advanced paediatric life support and paediatric retrieval training with NWTs (North West and North Wales Paediatric Retrieval Service). A full year's anaesthetic placement is strongly encouraged and we have links with a local DGH to provide this training.

The PICM training programme includes a weekly x-ray conference plus nutrition ward round (with Gastroenterology Consultant and Dietician), and twice weekly Microbiology ward rounds (with Microbiology and Infectious Diseases Consultants). All trainees participate in the monthly regional PICU teaching programme of lectures, tutorials and practical sessions on all aspects of paediatric intensive care. There is monthly journal club, mortality and critical incident meetings which are open to everyone from the multi-disciplinary team. There is in-house simulation training plus monthly cardiac teaching. There is allotted time for additional paediatric anaesthetic experience (in-house) plus audit.

During year 2 training there is a focus on increasing experience as 'chief' which entails taking an overall management role for the Unit during the day, and senior trainees are expected to support and supervise less experienced colleagues. In addition, year 2 trainees help coordinate and deliver the regional teaching programme plus organise critical incident and mortality meetings. Organisation of an annual Northwest PICS Masterclass day is also encouraged and supported for year 2 trainees.

As a unit we are focussed on research opportunities and have an excellent research team. We expect senior trainees to become GCP trained and fully participate in ongoing local, national and international trials (currently SANDWICH, CHRIS, NIRS, PUMA and pharmacokinetic studies). Audit and presentation / attendance at national and international PIC conferences is strongly supported.

There are opportunities to gain bronchoscopy experience both on the unit and with our colleagues in Respiratory Paediatrics, as well as experience in management of LTV patients. From an ECMO point of view we provide regular in-house theoretical and water lab training and run an annual ECMO course for medics and ECMO Specialists.

Mersey Deanery offers a substantial number of courses with regards to obtaining generic and management skills.

Departmental Information

- Demographics

Alder Hey Children's NHS Foundation Trust is one of the largest and busiest children's hospitals in Europe. The Trust has a world class reputation and is an international centre of excellence, treating more than 200,000 children a year from 20 health authorities in the North West, North Wales, Shropshire and Isle of Man.

The hospital houses supra-regional cleft palate and craniofacial departments. The PICU supports the full range of general and specialist intensive care and we are a national designated

Programme Description

ECMO centre with dedicated ECMO specialists supported by Perfusionists and Cardiac Surgical colleagues.

Alder Hey Children's NHS Foundation Trust is designated as a Lead Centre for Paediatric Intensive Care in the North West & Children's Major Trauma Centre - there are 24 beds with a separate 16 -bedded High Dependency Unit and Transitional Care Unit (for LTV patients). Approximately 85% of the 1100 admissions to PICU are intubated and ventilated. Around 40% of admissions are cardiac, 40% medical and 20% are surgical (paediatric, neurosurgical, neonatal, orthopaedic, craniofacial, trauma, and plastic - including burns).

Physicians and Surgeons share care with the intensive care staff while their patients are in the ICU with patient management directly co-ordinated by the intensive care consultants.

- Team
- Consultants:
 - Dr Kent Thorburn (Director Critical Care/Research)
 - Dr Andrew Selby (Network Lead LTV)
 - Dr Steve Kerr (God)
 - Dr Frank Potter (Anaesthetics)
 - Dr Marie Horan (ECMO Lead)
 - Dr Sarah Mahoney (Trauma / Education / NWTs)
 - Dr Nayan Shetty (Electronic Health Record)
 - Dr Ben Lakin (Network Lead)
 - Dr Anand Wagh (Quality Dashboard)
 - Dr Naga Puppala (M+M, Organ donation)
 - Dr Petr Jirasek
 - Dr Crawford Fulton

- Associate Specialist: Dr Dorothea Sidaras

- Advanced Nurse Practitioners:
 - Andy Darbyshire (Nurse Consultant, HDU + LTV)
 - Gerri Sefton, Sam Ellis

- 16 trainees (ST4 or above, anaesthetics and paed) are based on PICU full-time, which includes up to 6 NTN PICU trainees

- 4 dedicated PICU Pharmacists
- PICU Physiotherapy team - team of 6 led by Paul Ritson
- PICU Nursing educational team
- PICU Research team

- Supervisor(s)
All full time Consultants

Clinical Training Responsibilities

Alder Hey is recognised by the Intercollegiate Committee for Training in Paediatric Intensive Care Medicine (ICTPICM) as providing full training in this sub-specialty. We provide a year of anaesthetic training (OOPE) at Glan Clwyd Hospital and a minimum of 3 months is spent with the Regional Paediatric Transport team (NWTs). The PICMCSAC syllabus is followed with competency based assessments incorporated.

Workload / Rota Arrangements / Example Timetable

The rota is a resident full shift system that is fully compliant with the EWTD 48 hours per week guidelines. There are 3-4 trainee medical staff on duty during the day with 3 on nights. The post carries Band 1A supplement.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Programme Description

The Intensive Care Unit offers facilities for clinical research and there is an active research programme. The department currently is participating in national, international and regional trials and we have an excellent research team. Trainees would be expected to complete training in 'Good Clinical Practice' and participate in recruitment to trials. The appointee will be encouraged to undertake an audit or research project and recent trainees have successfully submitted abstracts to International meetings. Attendance at local and national postgraduate courses and meetings is actively encouraged. There are excellent postgraduate facilities at Alder Hey.

Further training opportunities

Respiratory department links to support training in bronchoscopy skills.

Any further information

Contact Dr S Mahoney or Dr B Lakin for further information / happy to arrange a visit

Secretary: Tel. 0151-252 2040

Email: sarah.mahoney@alderhey.nhs.uk or ben.lakin@alderhey.nhs.uk

Contact details for unit

Paediatric Intensive Care Unit

Alder Hey Children's NHS Foundation Trust

Eaton Road, Liverpool, L12 2AP

North West (Mersey)

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Alder Hey Children's Hospital	Paediatric Intensive Care Medicine	24	Dr Sarah Mahoney Sarah.Mahoney@alderhey.nhs.uk	C	Y

Additional Information

This 2 year PICM Grid training post includes a 12 month Anaesthetic placement as OOPE at a local DGH. Alder Hey has good links with Glan Clwyd Hospital which provides excellent Anaesthetic SHO training for our PICU trainees. This includes both general anaesthesia and adult ICU experience.

Programme Description

Subspecialty:	Paediatric Intensive Care Medicine
Base Unit:	Paediatric Intensive Care Unit at Alder Hey Children's NHS Foundation Trust
Deaneries involved:	Mersey

Outline of Programme

The trainee will be one of 6 NTN Paediatric Intensive Care trainees on PICU in Alder Hey. We are a busy mixed general and cardiac unit and designated national ECMO centre with over 1,100 admissions per year. Alder Hey is also a Major Trauma Centre for paediatrics in the North West. In October 2015 we moved to a new state of the art Alder Hey Children's Health Park - PICU has expand to a 24 bedded unit with a co-located 16 bedded HDU, 6 bedded burns unit and helipad. This post offers an exciting opportunity for comprehensive training in paediatric intensive care, including resuscitation and advanced paediatric life support and paediatric retrieval training with NWTS (North West and North Wales Paediatric Retrieval Service). A full year's anaesthetic placement is strongly encouraged and we have links with a local DGH to provide this training.

The PICM training programme includes a weekly x-ray conference plus nutrition ward round (with Gastroenterology Consultant and Dietician), and twice weekly Microbiology ward rounds (with Microbiology and Infectious Diseases Consultants). All trainees participate in the monthly regional PICU teaching programme of lectures, tutorials and practical sessions on all aspects of paediatric intensive care. There is monthly journal club, mortality and critical incident meetings which are open to everyone from the multi-disciplinary team. There is in-house simulation training plus monthly cardiac teaching. There is allotted time for additional paediatric anaesthetic experience (in-house) plus audit.

During year 2 training there is a focus on increasing experience as 'chief' which entails taking an overall management role for the Unit during the day, and senior trainees are expected to support and supervise less experienced colleagues. In addition, year 2 trainees help coordinate and deliver the regional teaching programme plus organise critical incident and mortality meetings. Organisation of an annual Northwest PICS Masterclass day is also encouraged and supported for year 2 trainees.

As a unit we are focussed on research opportunities and have an excellent research team. We expect senior trainees to become GCP trained and fully participate in ongoing local, national and international trials (currently ADAPT, CHRIS, NIRS, PUMA and pharmacokinetic studies). Audit and presentation / attendance at national and international PIC conferences is strongly supported.

There are opportunities to gain bronchoscopy experience both on the unit and with our colleagues in Respiratory Paediatrics, as well as experience in management of LTV patients. From an ECMO point of view we provide regular in-house theoretical and water lab training and run an annual ECMO course for medics and ECMO Specialists.

Mersey Deanery offers a substantial number of courses with regards to obtaining generic and management skills.

Departmental Information

- Demographics

Alder Hey Children's NHS Foundation Trust is one of the largest and busiest children's hospitals in Europe. The Trust has a world class reputation and is an international centre of excellence, treating more than 200,000 children a year from 20 health authorities in th North West, North Wales, Shropshire and Isle of Man.

Programme Description

The hospital houses supra-regional cleft palate and craniofacial departments. The PICU supports the full range of general and specialist intensive care and we are a national designated ECMO centre with dedicated ECMO specialists supported by Perfusionists and Cardiac Surgical colleagues.

Alder Hey Children's NHS Foundation Trust is designated as a Lead Centre for Paediatric Intensive Care in the North West & Children's Major Trauma Centre - there are 24 beds with a separate 16 -bedded High Dependency Unit and Transitional Care Unit (for LTV patients). Approximately 85% of the 1100 admissions to PICU are intubated and ventilated. Around 40% of admissions are cardiac, 40% medical and 20% are surgical (paediatric, neurosurgical, neonatal, orthopaedic, craniofacial, trauma, and plastic - including burns).

Physicians and Surgeons share care with the intensive care staff while their patients are in the ICU with patient management directly co-ordinated by the intensive care consultants.

- Team
- Consultants:
 - Dr Paul Baines (Director Critical Care/Ethics)
 - Dr Andrew Selby (Network Lead LTV)
 - Dr Jane Ratcliffe (Clinical Lead Med Board and CHP)
 - Dr Steve Kerr (God)
 - Dr Frank Potter (Anaesthetics)
 - Dr Kent Thorburn (Research / Cardiac)
 - Dr Marie Horan (ECMO Lead)
 - Dr Sarah Mahoney (Trauma / Education / NWTS)
 - Dr Nayan Shetty (Electronic Health Record)
 - Dr Ben Lakin (Network Lead)
 - Dr Anand Wagh (Quality Dashboard)
 - Dr Naga Puppala (M+M)
- Associate Specialist: Dr Dorothea Sidaras
- Advanced Nurse Practitioners:
 - Andy Darbyshire (Nurse Consultant and Service Group Lead))
 - Gerri Sefton, Sam Ellis
- 16 trainees (ST4 or above, anaesthetics and paedes) are based on PICU full-time, which includes 5 NTN PICU trainees
- 4 dedicated PICU Pharmacists
- PICU Physiotherapy team - team of 6 led by Paul Ritson
- PICU Nursing educational team
- PICU Research team
- Supervisor(s)
 - All full time Consultants

Clinical Training Responsibilities

Alder Hey is recognised by the Intercollegiate Committee for Training in Paediatric Intensive Care Medicine (ICTPICM) as providing full training in this sub-specialty. We provide a year of anaesthetic training (OOPE) at Glan Clwyd Hospital and a minimum of 3 months is spent with the Regional Paediatric Transport team (NWTS). The PICMCSAC syllabus is followed with competency based assessments incorporated.

Workload / Rota Arrangements / Example Timetable

The rota is a resident full shift system that is fully compliant with the EWTD 48 hours per week guidelines. There are 3-4 trainee medical staff on duty during the day with 2 after 0100. The post carries Band 1A supplement.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Programme Description

The Intensive Care Unit offers facilities for clinical research and there is an active research programme. The department currently is participating in national, international and regional trials and we have an excellent research team. Trainees would be expected to complete training in 'Good Clinical Practice' and participate in recruitment to trials. The appointee will be encouraged to undertake an audit or research project and recent trainees have successfully submitted abstracts to International meetings. Attendance at local and national postgraduate courses and meetings is actively encouraged. There are excellent postgraduate facilities at Alder Hey.

Further training opportunities

Respiratory department links to support training in bronchoscopy skills.

Any further information

Contact Dr S Mahoney or Dr B Lakin for further information / happy to arrange a visit

Secretary: Tel. 0151-252 2040

Email: sarah.mahoney@alderhey.nhs.uk or ben.lakin@alderhey.nhs.uk

Contact details for unit

Paediatric Intensive Care Unit

Alder Hey Children's NHS Foundation Trust

Eaton Road, Liverpool, L12 2AP

Scotland West

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Royal Hospital for Sick Children, Yorkhill, Glasgow	Paediatric Intensive Care	2 years	Alastair Turner Alastair.Turner@ggc.scot.nhs.uk	C	Y
Crosshouse University Hospital	Anaesthetics Adult Services	6 months	Alastair Turner Alastair.Turner@ggc.scot.nhs.uk	C	Y

Additional Information

A rotation on the PICU, Royal Hospital for Children, QUEH site offers continuous exposure to cardiac, surgical and general paediatric intensive care including transport, neurosurgical and ECMO experience.

Please note that the Anaesthetic component in the West of Scotland is undertaken in programme. Please ensure applicants have enough training time to be able to fulfil this aspect or have had appropriate prospective approval for non grid training in PICM taken into account.

Programme Description

Subspecialty:	Paediatric Intensive Care Medicine
Base Unit:	Royal Hospital for Children, Glasgow
Deaneries involved:	West of Scotland Deanery

Outline of Programme

The Critical Care department at the Royal Hospital for Children manages 22 intensive care. Emergency and acute receiving services are supported by the RHC PICU and contributes to the Scotstar retrieval service, where applicants will spend time. The unit supports a number of National Services including paediatric cardiac surgery, invasive cardiology, complex airway surgery, renal transplantation and bone marrow transplantation. RHC is one of four paediatric ECMO centres in the UK. In addition Neurosurgical services are delivered on our site. The transport and retrieval service is distinctive as it covers both the densely populated central belt as well as the remote and sparsely populated areas of Scotland. Air transport by helicopter or fixed wing aircraft is used to access these areas. Trainees will spend a minimum of 2 x 6 week blocks with the Scotstar service within their 2 years PICU training to gain competencies in retrieval medicine.

Departmental Information

- Demographics
Around 1,000 admissions per year (340 cardiac)
- Team
13 full time Consultants, Nursing staff, 2 ANP's, 3 Pharmacists, 2 Dieticians
- Supervisor(s)
Dr Alastair Turner and Dr Jennifer Scarth (Lead Trainers). Dr Neil Spenceley (Clinical Lead)

Clinical Training Responsibilities

The unit in Glasgow is committed to provide complete training in all aspects of Paediatric Intensive Care Medicine. The unit provides continuous learning opportunities in general, cardiac and surgical intensive care including exposure to ECMO and transport medicine. A number of formal teaching sessions and other learning opportunities are held each week. These include a radiology meeting, microbiology meeting, journal club, protected trainee teaching, departmental CME and cardiac liaison meeting. In addition we run a monthly teaching programme specific to the needs of our grid trainees and encourage attendance at national study days.

Workload / Rota Arrangements / Example Timetable

There are 12 junior medical staff employed in the unit. All staff work full shifts with total contracted hours being EWTD compliant. More experienced trainees take part in the retrieval service and take an increasing supervisory role within the unit.

Programme Description

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

All trainees are supported in conducting audit, producing guidelines and learning skills in critical appraisal. Conversion of projects to presentation at national and international level is encouraged. Senior trainees are supported to take an increasing management role in terms of organisation of the unit and leading teaching sessions. Senior trainees are encouraged to undertake research. There are opportunities for clinical research and access to laboratory facilities can be arranged as required.

Further training opportunities

Mandatory 6 month anaesthetic training is organised at Crosshouse Hospital (a local DGH Hospital) this placement ensures exposure to both adult and paediatric anaesthesia and incorporates adult ICU. The West of Scotland Deanery has to date incorporated this placement within standard training time.

Any further information

The PICU has been equipped to a very high level with a paperless clinical information and prescribing system, PACS radiology system and state of the art monitoring. Junior medical staff have access to computers, an office and changing facilities within the intensive care unit.

Contact details for unit

Dr Neil Spenceley: Neil.Spenceley@ggc.scot.nhs.uk, Dr Jennifer Scarth: Jennifer.scarth@ggc.scot.nhs.uk or Dr Alastair Turner: alastair.turner@ggc.scot.nhs.uk

Unit Secretary: Angela Gartland Tel: 0141 4524763

Severn

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Bristol Children's Hospital	Paediatric Intensive Care Medicine	24-36	Dr Sarah Goodwin Sarah.Goodwin@UHBristol.nhs.uk	C	Y

Additional Information

Experience in anaesthetics can be gained through OOPE.

Programme Description

Subspecialty:	Paediatric Intensive Care
Base Unit:	PICU, Bristol Royal Hospital for Children
Deaneries involved:	Severn

Outline of Programme

2 year fulltime or equivalent in part time training based in PICU at BRHC

Departmental Information

- Demographics
- 18 bedded unit, currently staffed to 17 beds. Mixed Cardiac and General Paediatrics. Regional Neurosciences, Burns and Plastics moved to BRHC in May 2014 resulting in increased PICU and HDU activity. Freestanding South Wales and South West Transport team (WATCH) performs 500 interhospital transfers per year. Current admissions about 700 / year to PICU. 40-50% are cardiac surgery / cardiology. All specialties other than transplantation offered on site including major paediatric trauma centre designation. ECMO service to support cardiac surgery.
- Team
14 PICU Consultants and 1 senior PICU doctor with mixed Paediatric and Anaesthesia background provide cover for PICU and Transport. The Critical Care senior staff also oversee the 3 High Dependency Units together with 3 acute paediatricians. Around 20 trainees from mixed specialty backgrounds working together with advanced nurse practitioners.
- Supervisors
Dr Sarah Goodwin/Dr Adrian Humphry

Clinical Training Responsibilities

Clinical responsibility for children on PICU with graded supervision. Retrieval training and graduated exposure as experience and competence dictates. Year two would involve increasing independent practice and conduct of running the unit under Consultant Supervision.

Workload / Rota Arrangements / Example Timetable

Shift based rota with days, long days and night shifts including on PICU and covering WATCH transport service. Maximum frequency of on call is 1 in 6 (i.e. minimum of 6 trainees on each arm of out of hours rota). All rotas EWTD and new contract compliant.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

All trainees will participate in the Clinical Governance activities and teaching programme on PICU. It is expected that Grid trainees will both be taught within the local subspecialty program and undertake some teaching roles. There is a very active Paediatric Simulation programme in Bristol and Grid trainees are encouraged to develop skills in teaching using simulation based methodology. There are many opportunities for trainees to undertake research activities or patient safety/quality improvement work.

Further training opportunities

OOPEs are arranged in region for paediatric trainees who have not undertaken anaesthesia prior to commencing GRID training.

Any further information

If you wish any further information please contact sarah.goodwin@uhbristol.nhs.uk or tel: 0117 342 8843

Contact details for unit

as above or unit address PICU, Bristol Royal Hospital for Children, Upper Maudlin Street, Bristol, BS2 8BJ. Direct line 0117 342 8018

Wessex

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
University Hospital Southampton	PICU	Sep19- Aug 20	Iain Macintosh iain.macintosh@uhs.nhs.uk	C	Y
Royal Hampshire/Dorset County/Poole Hospital	Anaesthesia	Sep 19- Mar 20/Sep 20	TBD	C	Y
University Hospital Southampton	PICU	Mar/Se p 20 - Feb/Aug 21	Iain Macintosh iain.macintosh@uhs.nhs.uk	C	Y

Additional Information

PICU training will be exclusively at University Hospital Southampton. As part of PIC training trainees are required to do at least 6 months of anaesthesia. We have arranged this at several hospitals across the region and the trainee would have the option of one of these and 6 or 12 months training as an anaesthetic ST1-3

Programme Description

Sub-specialty:	Paediatric Intensive Care
Base Unit:	University Hospital Southampton
Deaneries involved:	Wessex

Outline of Programme

This will consist of 2 years of training in PICM, exclusively based at University Hospital Southampton. After completion of year 1 competencies in PICM, the trainee will go on to do a minimum of 6 months and up to a maximum of a year as an out of programme in anaesthesia. There are a number of hospitals in the Wessex region where it is possible to do this; which hospital will depend on the trainee's preferences. After completing this, they will then return to PICU to complete the year 2 competencies.

Departmental Information

- Demographics

Paediatric Intensive Care is in a purpose-built unit delivering the whole spectrum of critical care. 14 Paediatric Intensive Care beds are fully operational. There are a further 2 uncommissioned beds, that may be opened during surges of activity. The unit admits just under 1000 children per year and provides PICU services for the Wessex Region and tertiary support services for Paediatric Cardiology, Neurology, Nephrology, Paediatric Surgery, ENT, Respiratory, ID, Oncology, Trauma and Neurosurgery. Approximately 85% of patients are ventilated or on inotropes and the outcomes at UHS PICU are some of the best in the country.

The unit has the facility to look after children requiring advanced respiratory support including inhaled nitric oxide, high frequency oscillation and ECMO. Advanced renal support with peritoneal dialysis and haemofiltration is provided. There is a fully operational transport team, the Southampton Oxford Retrieval Team (SORT) that provides a regional retrieval service for the joint Oxford/Southampton area.

- Team

Dr Iain Macintosh, Director of Paediatric Intensive Care
Dr Peter Wilson
Dr Kim Sykes
Dr John Pappachan
Dr Gareth Jones
Dr Vanessa Stanley
Dr Phil Hyde
Dr Ollie Ross
Dr Andrew Baldock
Dr Michael Griksaitis

- Supervisor(s)

All the consultants are trained in educational supervision.

Clinical Training Responsibilities

Achieving the core and advanced competencies on the PICM curriculum is the aim of the programme. Following completion of this the trainee will eventually be able to independently admit and look after a patient on the unit, stabilise and retrieve a patient to the correct PICU and ultimately be able to take a supervisory role of the whole unit, including the organisation and planning of the unit. To achieve these goals the trainee will have had to develop a satisfactory understanding of the physiology of critical illness as well as a sound knowledge of the paediatric medicine that underpins it. They will also have to demonstrate competence in the necessary procedures to deliver this care, the equipment we use to deliver this care and the appropriate decision making, anticipation and team engagement. All of these will have to be demonstrated and scrutinised by the trainee's educational supervisor.

Workload / Rota Arrangements / Example Timetable

There are 12 slots on the middle grade rota, occupied by a combination of anaesthetists, paediatricians, PICM ANPs, Adult ICM trainees, Adult and Paediatric emergency medicine trainees and PICM Grid trainees. In addition, there is a separate rota occupied by 5 paediatric ST1-3s. The middle grade rota functions as a 1 in 6, with 2 registrars resident overnight and more during the day. One of the registrars will take responsibility for retrievals depending on their experience, competencies and completion of retrieval training. As the PICM grid trainee becomes more senior, we would expect them to participate in a senior role, supervising trainees and running the PICU with the support of the on call PICU consultant.

Monday to Sunday			
Early Shift	08.30 - 17.30	Night Shift	20.30 - 09.30
Day Retrieval	08.30 - 21.30	Night Retrieval	20.30 - 09.30
Long Day	08.30 - 21.30		

Working arrangement

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	8:30 - 17:30	8:30 - 17:30	8:30 - 17:30	8:30 - 17:30	8:30 - 17:30		
2	20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30		
3	8:30 - 21:30	8:30 - 21:30	8:30 - 21:30		20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00
4	00:00 - 9:30			8:30 - 21:30	8:30 - 21:30	8:30 - 21:30	8:30 - 21:30
5			8:30 - 17:30	8:30 - 17:30	8:30 - 17:30		
6	8:30 - 21:30	8:30 - 21:30	8:30 - 21:30	8:30 - 21:30			
7				8:30 - 17:30	8:30 - 21:30	8:30 - 21:30	8:30 - 21:30
8	8:30 - 17:30	8:30 - 17:30			20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00
9	00:00 - 9:30		9:00 - 17:00	9:00 - 17:00	9:00 - 17:00		

10	9:00 - 17:00	9:00 - 17:00	9:00 - 17:00	9:00 - 17:00	9:00 - 17:00		
11	20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30, 20:30 - 24:00	00:00 - 9:30		
12							

Duty details

Duty	Name	Type	Start	Finish	Days	Duration
A	NWD 2	Shift	9:00	17:00	1	8:00
D	Day Retrieval	Shift	8:30	21:30	1	13:00
L	Long Day	Shift	8:30	21:30	1	13:00
N	Nights	Shift	20:30	9:30	2	13:00
S	NWD	Shift	8:30	17:30	1	9:00

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

There is a regular teaching programme for all PICU junior doctors. In addition there are specific study days for renal support, ECMO, retrieval and stabilisation and airway emergencies. We offer specific teaching for the PICU grid trainees in the form of more advanced case base discussions. All of the grid trainees have undertaken projects related to research, audit or service evaluation. These have then presented at national or international conferences. The majority of our grid trainees publish this work. We will provide support in planning and delivering these projects and in writing, submitting, them and in attending and presenting at conference. Trainees can also participate in national research projects, for which Southampton PICU is a high recruiting unit. We would encourage the PICU grid trainee to develop their CV with an area that is of interest to them; this can include education, law and ethics and research to name some recent examples.

Further training opportunities

Southampton is at the forefront of ultrasound education and there will be plenty of opportunities to benefit from this, and formally certify in critical care ultrasonography. It is also expected that a successful grid trainee would also participate in the SORT retrieval outreach programme and attend the Paediatric Critical Care ODN. For the majority of our grid trainees we have been able to arrange an overseas placement after completion of training.

Any further information

Visits to the unit are welcome.

Contact details for unit

Iain Macintosh or Michael Griksaitis via Maria Wright (PA to PICU Consultants)
(Maria.Wright@uhs.nhs.uk)

West Midlands

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Birmingham Children's Hospital	PICU	24	Dr Prabh Nayak (Prabh.Nayak@nhs.net)	C	Y

Additional Information

Option of -8 month attachment (OOPE) to department of anaesthesia at Good Hope Hospital, Birmingham for those trainees who have not completed a period of anaesthesia training.

All trainees will undertake a total of 4 months of transport in their 24 months by rotating to the West Midlands paediatric retrieval service (KIDS)

Subspecialty:	Paediatric Intensive Care Medicine
Base Unit:	Birmingham Children's Hospital
Deaneries involved:	West Midlands

Outline of Programme

This 2 year training programme is intended for experienced trainee paediatricians and anaesthetists who wish to pursue a career in Paediatric Intensive Care Medicine. The Unit is approved to train specialists in Paediatric Intensive Care Medicine and is able to provide complete training in all competencies required by ICTPICM. More than 40 trainees have gone on to become PICU Consultants across the UK.

Departmental Information

Demographics

BCH is the principal (Lead Centre) multi-disciplinary PICU for the population of the West Midlands. The Unit provides a spacious and comfortable working environment with a capacity of 31 beds. The PICU has a high patient throughput with over 1400 admissions per annum and provides facilities for an extensive paediatric cardiology and cardiac surgical programme, regional paediatric trauma (Paediatric Trauma Centre), burns (nationally designated centre), neuro and craniofacial surgery, neonatal and paediatric surgery, airway and ENT surgery, as well as general and specialist paediatric medical subspecialties. The latter include hepatobiliary medicine and surgery (including liver transplantation), haematology and oncology, neurology, nephrology, respiratory, endocrinology and metabolic disease. It is also a recognised ECLS (Extracorporeal Life Support) centre. There is a comprehensive range of specialist support services such as radiology (including CT and MRI) and bronchoscopy. The hospital houses a regional transport service (KIDS) transporting over 800 patients per year

Team

Trainee cover to the PICU currently comprises 6 National Grid trainees (3 Year 1, 3 Year 2), 3 West Midlands Paediatric StRs, 2 West Midlands Anaesthetic StRs, 2 Adult ICM trainees and 10 Clinical Fellows and 12+ ANPs.

Supervisor(s) The Clinical Lead is Dr Adrian Plunkett and the PICU Director for Education & Training is Dr Prabh Nayak. Each trainee is allocated a consultant supervisor/mentor.

Clinical Training Responsibilities

Trainees are encouraged to complete a period of training in anaesthesia prior to entering the PICM Grid. However trainees with no experience or training in anaesthesia will be seconded to the Department of Anaesthesia at BCH to be taught the principles of airway management, endotracheal intubation and the use of a limited range of anaesthetic agents and techniques. In addition a link has been established with a regional anaesthetic department to allow paediatric trainees with no previous anaesthetic experience to spend ~8 months in order to achieve the necessary anaesthetic and airway competencies. Level 3 trainees in PICM will complete 1 year and, subject to approval of the Educational supervisor, will progress to a second year position to complete their PICM training.

Trainees will be assessed as set out by ICTPICM and the relevant Royal College and will meet with their Educational Supervisor on a regular basis. Active participation in emergency retrievals will be arranged, with a full time secondment to the retrieval service for 2 months of Year 1 and Year 2. Year 2 PICM trainees will be given a more senior role with supervisory responsibilities, administrative and managerial experience. Participation in research is encouraged (see below)

Workload / Rota Arrangements / Example Timetable

Clinical commitments for the intensive care trainees are exclusively related to PICU and critical care outreach, and working hours are within current guidelines. A flexible rota is in place and tries to accommodate all off duty requests. The rota comprises 6-7 trainees/ANPs on duty during the daytime and 4-5 trainees/ANPs at night. PICU trainees are responsible for co-ordinating all aspects of patient care in the PICU. 24-hour comprehensive supervision and support is provided at any time by three of 18 WTE Consultant Intensivists.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Teaching.

The PICU runs a programme of teaching comprising a daily lunchtime teaching round, three times a month teaching days to cover the curriculum in PICM, made up of seminars, journal club, radiology rounds, monthly Morbidity and Mortality review and monthly Research Rounds. There is an established simulation programme. In addition an active teaching programme exists within the hospital.

Research

You will be encouraged to participate in PICU research/audit, either in developing an existing proposal or in developing your own ideas. The department maintains a high level of academic activity. This has included a diversity of audit and research projects in intensive care and allied disciplines. Current and recent studies include: 1) severity of illness scoring- development and calibration of the Paediatric Index of Mortality (PIM) score; 2) hypothermia after cardiac arrest (COLD-Pack and THAPCA); 3) Traumatic Brain Injury (ADAPT trial); 4) neuroprognostication after brain injury (JOBEE); 5) RAPID - remote early warning of deterioration; 6) weaning (SANDWICH) and 7) management of AKI (AKI study, IKID)

Further training opportunities

A link has been established with a regional anaesthetic department to allow paediatric trainees with no previous anaesthetic experience to spend 6-12 months in order to achieve the necessary anaesthetic and airway competencies

Any further information

For further information please contact Dr Prabh Nayak on 0121 333 8754 or prabh.nayak@nhs.net

Contact details for unit

Contact the PICU PA on 0121 333 8754

Yorkshire and Humber

Post 1

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Leeds Children's Hospital	Paediatric Intensive Care	18	Dr M A Doulah Dr S Cooper Dr J Kumsden Dr T Haywood Dr A Nichols Dr S Sundarajan	C	Y
Sheffield Children's Hospital	Embrace Retrieval Care	6	Dr S Hancock Dr F Rajah	C	Y

Post 2

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail) These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Leeds Children's Hospital	Paediatric Intensive Care	12	Dr M A Doulah Dr S Cooper Dr J Kumsden Dr T Haywood Dr A Nichols Dr S Sundarajan	C	Y
Sheffield Children's Hospital	Embrace Retrieval Care	6	Dr S Hancock Dr F Rajah	C	Y
Leeds Children's Hospital	Paediatric Intensive Care	6	Dr M A Doulah Dr S Cooper Dr J Kumsden Dr T Haywood Dr A Nichols Dr S Sundarajan	C	Y

Additional Information

The posts will be based at LGI with a 6 month period at the transport service of Embrace. There will also be the need to take a year out of programme in Anaesthesia which will be taken at a suitable time during the grid programme.

Sub-specialty:	Paediatric Intensive Care
Base Unit:	Embrace Yorkshire & Humber Infant & Children Transport Service
Deaneries involved:	Yorkshire

Outline of Programme

2 year rotation spending 18 months on the Leeds Children's Hospital and six months attached to Embrace, the Yorkshire and Humber Infant and Children's Transport Service, that will perform inter-hospital transfers of critically ill children within the Yorkshire / Humber and North Trent region. The trainee will also have an additional 1 year in anaesthesia at a local DGH.

Departmental Information

- Demographics
Joint Neonatal and Paediatric Critical Care transport service for Yorkshire & the Humber serving a population of 5.25 million and undertaking 2200 transfer per year of which approximately 450 are paediatric critical care. Accredited by the Commissions on Accreditation of Medical Transport Systems (CAMTS) for critical care transport by ground, fixed wing and rotary wing.
- Team
7 consultants
6 middle grade doctors
1 lead nurse - transport service
2 nurse educators
6 advanced nurse practitioners
20 WTE transport nurses
13 ambulance drivers
9 call centre and administrative staff
- Supervisor(s)
Dr Stephen Hancock, Lead Consultant (paediatrics)

Clinical Training Responsibilities

To act as a clinician for Embrace, Yorkshire & Humber Infant & Children's Transport Service. To manage patient stabilisation and ensure a safe, efficient and cohesive transfer from referring centre to the accepting intensive care unit. To undertake both neonatal and paediatric transfers once triaged by consultant on call. To assist in Medical Control and transport logistics.

Workload / Rota Arrangements / Example Timetable

Full shift, 1a

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

To contribute to research projects within Embrace. To participate in audit as part of the Safety & Quality Management System. Teaching is central to the delivery of the Transport Service and is a core area in which all team members are expected to participate.

Further training opportunities

This post provides an opportunity to develop expertise in the art and science of simulation, working with a team with proven performance in delivering innovative educational programmes to multi-professional groups.

Any further information

As well as being CAMTS accredited, Embrace are fully compliant with PICS Standards and are registered with the CQC via Sheffield Childrens NHS Foundation Trust.

Contact details for unit

Dr Stephen Hancock, 0114 305 3005, stephen.hancock@sch.nhs.uk.

Louise Pymer, 0114 305 3005, louise.pymer@sch.nhs.uk

Sub-specialty:	PICM
Base Unit:	PICU, Leeds Teaching Hospitals NHS Trust
Deaneries involved:	Yorkshire

Outline of Programme

Two years at Leeds incorporating 6 months attached to the Embrace Transport Service, providing transport of critically ill children and neonates within the Yorkshire and Humber region. For those candidates who have not completed any time in anaesthesia, a 6 - 12 month out of programme rotation is provided through in one of the hospitals in West Yorkshire, usually either Bradford or Calderdale hospital. The PICU in Leeds admits approximately 850 children per year with over 80% requiring respiratory support. The PICU provides care for children requiring the full range of medical and surgical specialities including surgery for congenital heart disease (~40% of admission), neurosurgery, oncology, complex neonatal surgery, nephrology and liver surgery / transplantation. Leeds is the designated regional trauma centre.

Facilities

The PICU was opened in 1997 and has recently moved into a 20 bedded unit. The unit is located adjacent to the cardiac theatre complex and close to the Neonatal Intensive Care Unit and general surgical theatres.

Excellent facilities exist to provide high quality paediatric intensive care including Drager Evita and Sensormedics HFO ventilators, Aquarius haemodialysis / filtration systems, CFAM and nitric oxide. The unit works closely with radiology, cardiology / echocardiography and pathology departments in the care of patients.

The postholder will spend 6 months attached to Embrace, the Yorkshire and Humber Infant and Children's Transport Service, that will perform inter-hospital transfers of critically ill children within the Yorkshire / Humber and North Trent region.

End of life care is an important aspect of PICU and the unit has close links with the regional children's hospice, Martin House, including the Palliative Care Consultant attending a weekly PICU ward round.

Education

Education is considered a high priority within the PICU and this is reflected by protected teaching / study days within the shift system. There is a formal education programme organised on a Thursday which incorporates monthly Clinical Governance and Morbidity and Mortality meetings. The postholder is expected to be actively involved in audit and research within the PICU.

Office and computer facilities are provided and the hospital provides excellent postgraduate library facilities with on-line journal access.

Departmental Information

- Demographics
The PICU in Leeds admits approximately 850 children per year with over 80% requiring respiratory support. The PICU provides care for children requiring the full range of medical and surgical specialities including surgery for congenital heart disease (~40% of admission), neurosurgery, complex neonatal surgery and renal / liver surgery / transplantation. The full range of sub-specialities required for PICM curriculum. The only other PICU with same range of patients as ourselves is Birmingham.

- Team
7 consultants (1 anaesthetic, 6 paediatric background).
Leeds Children's Hospital is a specialist regional centre with comprehensive radiology and pathology services in addition to many specialist medical and surgical teams.
- Supervisor(s)
Dr Assaf Doulah Consultant Paediatric Intensivist
Dr Sian Cooper Consultant Paediatric intensivist

Dr Steve Hancock Consultant Paediatric intensivist for Embrace paediatric and neonatal retrieval service

Clinical Training Responsibilities

The principle duties are patient review, monitoring and implementation of management plans under direct consultant supervision. The postholder is responsible for the admission and discharge of patients, including the assessment of the critically ill on the paediatric wards and in the emergency department. Liaison with other specialty teams within Leeds and with other hospitals is an important aspect of the post. Technical procedures will be supervised until competence is achieved in line with PICM requirements.

Workload / Rota Arrangements / Example Timetable

The post holder will participate in a compliant 13-person single tier full shift system (Band 1a). This provides 3-4 people through the day with 2 resident night doctors.

Non Clinical Training Responsibilities (expectations of research / audit / teaching)

Education is considered a high priority within the PICU and this is reflected by protected teaching / study days within the shift system. There is a formal education programme which incorporates monthly Clinical Governance and Morbidity and Mortality meetings. The post holder is expected to be actively involved in audit and research within the PICU. Office and computer facilities are provided and the hospital provides excellent postgraduate library facilities with on-line journal access.

Further training opportunities

HDU and the children's long term ventilation service are areas of current development. End of life care is an important aspect of PICU and the unit has close links with the regional children's hospice, Martin House. Exposure to these areas will be available as part of PIC work. Weekly paediatric X-ray and 'Grand Round' meetings.

Any further information

Opportunities exist to attend meetings of allied specialities of nephrology, hepatology, respiratory, neurology, cardiology, endocrine, rheumatology and oncology.

Contact details for unit

Interested candidates are encouraged to contact Dr Assaf Doulah or Dr Sian Cooper via the PICU Secretary on 0113 3928085 or via e-mail assafdoulah@nhs.net