NTN Grid - Programme Information

Paediatric Oncology 2020

Please find below programme information for the above sub-specialty for training programmes starting in September 2020.

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Please note: Programme submissions can be withdrawn or amended at any point until an offer of employment has been made to an applicant.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 6 September 2019 and close at 12 noon Monday 30 September 2019. 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

CSAC Chair:
For specific sub-specialty information, please contact:
Dr Sara Stoneham
Email: sara.stoneham@nhs.net

Email: ntn.grid@rcpch.ac.uk
Tel: (020) 7092 6139
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Please note that the West Scotland post is a late addition, added on 24 September 2019
## East of England

<table>
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<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
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<td>Paediatric Oncology</td>
<td>18</td>
<td>Dr Amos Burke, <a href="mailto:amos.burke@addenbrookes.nhs.uk">amos.burke@addenbrookes.nhs.uk</a></td>
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<td>The Royal Marsden NHS Foundation Trust, London</td>
<td>BMT</td>
<td>6</td>
<td>Dr Sucheta Vaidya, <a href="mailto:sucheta.vaidya@icr.ac.uk">sucheta.vaidya@icr.ac.uk</a></td>
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<tr>
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<td>Paediatric Oncology</td>
<td>6</td>
<td>Dr Mette Jorgensen, <a href="mailto:mette.jorgensen@gosh.nhs.uk">mette.jorgensen@gosh.nhs.uk</a></td>
<td>C</td>
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**Additional Information:**

This 2-year programme starts at Addenbrooke's hospital and then rotates to London. The rotation in London could be at GOSH or Royal Marsden. Although the timing of the rotation to London will be decided at the time of appointment, there may need to be some flexibility, depending on post availability.
Outline of Programme

This is a 2 yr training post based in Paediatric Haematology, Oncology and Palliative Care Department at Addenbrookes Hospital for 18 months and in one of the London Paediatric Oncology Centres (The Royal Marsden Hospital or Great Ormond Street Hospital) 6 months. Addenbrookes offers subspecialist training in all areas of paediatric oncology, except bone marrow transplantation, which will be gained in the London placement.

Departmental Information

- Demographics
  The Primary Treatment Centre at Addenbrookes is one of the largest outside of London. Patients are referred from throughout East of England.

  All facilities and services provided for the patients are available on site, including intensive care, radiotherapy, surgery, neurosurgery, endocrinology and cardiology. Palliative care services are further strength of the department. The PTC is an accredited Early Phase centre and part of the Paediatric Experimental Cancer Medicine Centres (ECMC) Network. A Teenage Cancer Trust Teenage and Young Adult Unit provides care for ~14-24 year olds. Cambridge and Institute of Cancer Research is a CRUK Children’s Brain Tumour Centre of Excellence. Cambridge is home to the pioneering neuro-rehab service Brainbow
  https://www.cuh.nhs.uk/addenbrookes-hospital/services/brainbow

  There are approximately 140 new oncology referrals per year from the region and an increasing number of referrals for non-malignant haematology. There are opportunities for the SpRs to gain experience in all aspects of the management of these patients.

- Team
  Staffing: 4.9 WTE consultants, 3 WTE (Haematology) 0.5 WTE

  Consultant in Paediatric Palliative Care, 1WTE Associate Specialist, 2 WTE Specialty Doctor, 3 ST4-8/GRID, 2 ST2/3,

  Supervisor - Drs, Nicholson, Burke, Visser, Murray, Behjati

Clinical Training Responsibilities

- Day to day responsibility for the care of inpatients or outpatients/day unit, shared with other SpR’s; rotating between ward and day-unit, with cross-cover. SpRs on day unit alternate between lead roles for neuro-oncology patients and for haematology in addition to general responsibilities
- Twice-weekly consultant-led ward rounds
- Participation in treatment and follow-up clinics, including specialist neuro-oncology and joint clinic with endocrinologists
- Practical training and experience in bone marrow aspiration, trephine biopsy, lumbar puncture with administration of intrathecal chemotherapy, safe accessing of central venous devices and safe prescription, administration and handling of chemotherapy
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- Attendance at weekly MDT meetings including Haematology, radiotherapy and psychosocial meetings, solid tumour and neuro-oncology diagnostic MDT meetings.
- Participation in the weekly paediatric departmental clinical meeting, weekly oncology teaching programme and any regional Paediatric Oncology training days.

Workload / Rota Arrangements / Example Timetable

- Full shift – currently 1 in 18 with prospective cover

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

- SpRs are expected to take part in clinical audit
- Participation in clinical research is strongly encouraged.
- Involvement in management meetings/training
- Teaching commitments include nurses, SHOs and medical students

Further training opportunities

The department is very strong in clinical research governance and is active in clinical research. There are strong links with the academic departments carrying out laboratory research on the Addenbrookes site and elsewhere within the University of Cambridge through the Paediatric Cancer Theme of the Cambridge Cancer Centre. [http://www.cambridgecancercentre.org.uk/research/programmes/paediatric-cancer](http://www.cambridgecancercentre.org.uk/research/programmes/paediatric-cancer)

Any further information

Wide experience can be gained in all aspects of patient management including palliative care, facilitated by the presence of all related specialties on the Addenbrooke’s site.

- Excellent experience in the workings of shared care, based on robust relationships and working patterns between Addenbrooke’s and Shared Care Units.

Contact details for unit

Department of Paediatric Haematology, Oncology and Palliative Care| Box number B1
Cambridge University Hospitals NHS Foundation Trust | Addenbrooke's Hospital
Cambridge Biomedical Campus | Hills Road | Cambridge | CB2 0QQ
Contact Dr Amos Burke, email: amos.burke@addenbrookes.nhs.uk

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum](http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum)

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<tr>
<td>Base Unit:</td>
<td>The Royal Marsden NHS Foundation Trust</td>
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Outline of Programme

One year post in paediatric oncology based at The Royal Marsden NHS Foundation Trust (RMH). Designed to complement the training experience and rotate with Great Ormond Street Hospital or other London PTC. Also suitable for trainees undertaking most of their training at other centres outside London and who wish to complete training in a specific area (e.g. Stem cell transplantation). Designed for trainees wishing to become tertiary paediatric oncologists. RMH is a joint Primary treatment centre with St. George’s hospital (SGH).

College Tutor: Dr Sucheta Vaidya

Departmental Information

- Demographics
  The unit is staffed with 7 paediatric consultants (5 FTE; 2 RMH/SGH), 2 paediatric haematologists (RMH/SGH), 2 haematologists in stem cell transplant (adult/paed), 1 consultant in palliative care (RMH/Chase Hospice), 2 paediatric clinical oncologists, 3 paediatric surgeons (SGH), 1 paediatric endocrinologist (RMH/SGH) and a psychiatrist (part-time). There are 3 ST6-8, 2 ST3,3 clinical fellow posts who participate in the 1 in 8 rota. In addition there are 3 speciality doctor posts and 1 senior fellow in bone marrow transplantation. The trainees and fellows rotate between the ward, daycare and St Georges Hospital. The national grid trainee may rotate to SGH for clinical experience and to cover periods of annual leave. The department is closely associated with the Paediatric Section of the Institute of Cancer Research.

- Team

- Supervisor(s)
  Dr Ayad Atra; Dr Julia Chisholm; Dr Donna Lancaster; Dr Lynley Marshall; Dr Mary Taj; Dr Sucheta Vaidya; Dr Fernando Carceller; Dr Elsje Van Rijswijk

Clinical Training Responsibilities

The post holder will be exposed to the distinct working areas:

In-patient haemato-oncology (including SCT); Day-care and shared-care; Outpatients clinics; Neuro-oncology and palliative care; PICU experience (SGH only); Phase I and II and III clinical trial experience

The weekly programme for specialist registrars includes:

Full shift resident rota covering paediatric oncology, including BMT patients (RMH site only); Two consultant led ward rounds; Leukaemia, Solid tumour & Neuro-oncology MDT meetings; Monthly Late Effects MDT meeting; Weekly teaching programme (2 sessions/wk); Regular journal club; Seminars (including invited speakers, meeting update, audit and research reports).

Workload / Rota Arrangements / Example Timetable

RMH is a modern unit, in the setting of specialist cancer hospital, comprising of a 18-bed paediatric inpatient ward, 13 bed TYA unit (9 open beds at present) and day unit and outpatient
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department, serving the south east of England. The unit is located in Sutton and is one of the 2 joint Primary treatment Centres (PTC) in London. In addition there are 4 paediatric oncology beds at SGH. There are approximately 220 new cases per year and an active haematopoietic stem cell transplant programme. There are 24 outpatient clinics per week covering haemato-oncology, solid tumours, neuro-oncology, stem cell transplantation (SCT), pain/symptom management and late effects. Close working relationship with departments at SGH (particularly Paediatric Surgery, PICU and Infectious Diseases).

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

The SpR will be encouraged to:

1. Take part in the unit's research activities, focusing on multi-centre collaborative chemotherapy and radiotherapy trials.

2. Complete at least one audit project under consultant supervision.

Excellent office and library facilities are provided including library and the facilities of the Institute of Cancer Research.

Further training opportunities

Particular Training Opportunities:

• Participation in multidisciplinary care, including palliative care, in an environment with an exceptionally progressive approach to cancer nursing

• Experience of SCT within a multifunctional paediatric oncology ward

• Playing a key role in a particular style of shared care with local hospitals and community services in Greater London and the South East

• Outstanding Hospital Information System and clinical research database

• Opportunity to work in an academic environment with experienced research nurses and to learn the discipline of clinical trials in oncology

• Opportunities to attend basic science seminars at the affiliated Institute of Cancer Research.

Contact details for unit

Dr Sucheta Vaidya- College Tutor- 02086613635, Sucheta.vaidya@icr.ac.uk

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
Outline of Programme

One or two year post in paediatric oncology based at Great Ormond Street Hospital NHS Foundation Trust (GOSH). Designed to complement the training experience and rotate with other PTC to enable experience with Adolescent oncology care. Also suitable for trainees undertaking most of their training at other centres outside London and who wish to complete training in a specific area (e.g. Stem cell transplantation). Designed for trainees wishing to become tertiary paediatric oncologists and paediatrician wanting to work as shared care consultant.

Educational lead: Dr Mette Jorgensen.

Departmental Information

Demographics

The unit is staffed with 8 paediatric oncology consultants, and 2 academic consultants (Professor Hargrave and Professor Anderson), 8 paediatric haematologists, haematologists in stem cell transplant, 3 consultants in palliative care, 3 paediatric clinical oncologists. There is an extensive team of radiologist, pathologist and surgeons supporting the team and the MDT. There are 3 ST6-8 (2 GRID/1 SPIN), 4 ST3, 17 clinical fellow posts who participate in the 1 in 13 night rota. In addition, there are 3 speciality doctor posts (haem/oncology) and 3 specialty doctors in bone marrow transplantation. The trainees and fellows rotate between haematology, oncology, BMT and daycare.

Great Ormond Street Hospital (GOSH) is the largest department of Haematology and Oncology in the UK. The service treats approximately 450 patients each year, accounting for about 28 per cent of national childhood cancer cases. The Haem/Oncology department at GOSH accepts newly diagnosed children under the age of 13 years, giving the trainee an unparalleled experience in the treatment of young children with cancer. All children with a malignancy diagnosed under one year of age in the South East area are admitted to GOSH giving the trainee in depth experience of cancer in the very young. The training at GOSH will complement training in another PTC to gain experience of managing young adults and also patients with bone tumours. This one or two year post provides sub-speciality training in malignant haematology, BMT and oncology in both in-patient and day care setting.

The Haematology department, with over 100 new patients per year, specialises in patients with acute leukaemia, Non-Hodgkin's lymphoma, HLH, bone marrow failure syndromes and myelodysplasia. There is a separate team overseeing the care of patients with coagulation disorders and haematology trainees rotates through the unit offering an excellent support for managing and understanding the management of coagulation disorders.

The Oncology department has the largest unit for children with brain tumours (110 new patients a year and approximately 100 second opinions through the Neuro-oncology MDT). GOSH treats all types of childhood solid tumours (112 new patients a year) with the exception of osteosarcoma and Hodgkin's lymphoma. The unit offers immunotherapy and CAR-T cell therapy for...
neuroblastoma patients and the trainees will be involved in caring for these patients on the ward. Autologous stem cell transplantation and high-dose chemotherapy is managed by the oncology team, offering excellent experience (approximately 20/year). All new patients and second opinions are discussed in MDTs that the trainees will attend and present cases at.

GOSH has the largest Bone Marrow Transplant (BMT) service in Europe with allogeneic transplants for both malignant and non-malignant conditions. The unit provides a comprehensive haematopoietic stem cell transplant service for children with life-threatening conditions and carries out around 90 transplant procedures each year. There is an expanding CAR-T cell program for haematological malignancies at GOSH.

The trainee will gain experience in outpatient care of patients particularly ALL, Wilms Tumour and CNS tumours treated in this setting. We have a daycare unit with 20 beds supporting BMT, haematology and oncology and will provide training and experience in chemotherapy prescribing and procedures (ITs, BMA, trephines) with 4 procedure lists/week.

The trainee will rotate through four clinical areas in the department: in-patient haematology, in-patient oncology, daycare (including out-patient clinics), and the bone marrow transplant unit. In addition, there are clinics for neuro-oncology, solid tumours, haematology, BMT, retinoblastoma, complex Wilms tumour and late effects. There is also a genetic oncology clinic offering surveillance for children with cancer predisposition syndrome.

We run an intense induction programme running over the first 3 weeks that embeds the trainees into the specialty with a particular focus on oncological and haematological emergencies. There will be individual training in a number of areas, including chemotherapy prescribing, administration of intrathecal chemotherapy, techniques of bone marrow aspiration and trephine and taking informed consent. Each trainee will be allocated an educational supervisor during the induction week. The supervisor will discuss the trainees plans for their ongoing development and tailor a programme around their aspirations - the trainee will also be encouraged to undertake an audit or research project. There is an active programme of clinical and translational research and the unit has a strong track record in successful clinical research fellowships. There are an Early phase clinical trials unit supported by research fellows. The trainees have access to a well-developed programme of teaching and training, and the trainees are encouraged to facilitate teaching of the more junior trainees to support their own learning. Specific teaching and training programmes are in development for CNS tumours for trainees with a

- Team Oncology:

  Neuro-oncology - Integrated service with neurosurgery and intensive care on site. Holistic input with an up-front triage of neuropsychological needs. The unit runs a neuro-oncology specific training module encompassing experience in neuro radiology, neurosurgery, neurology, oncology, and neuropsychology - all on site.

  Solid tumour oncology - Professor John Anderson heads a research group in immunotherapy of solid tumours in the Institute of Child Health. Professor Darren Hargrave leads on new drug development and implementation of Phase I/II trials across both Haematology and Oncology.

There are eight full time Oncology consultants organised into two teams, Team A (Professor Hargrave, Dr Christine Dahl, Dr Patricia O'Hare, Dr Mette Jorgensen, Dr Olga Slater) overseeing the care of children with CNS tumours, sarcoma and germ cell tumours and Team B (Professor Anderson, Dr Giuseppe Barone, Dr Tanzina Chowdhury and Dr Catriona
Duncan) covering Wilms’ tumour, Neuroblastoma, Liver tumours and Retinoblastoma. There is two specialty doctor supporting the in- and out-patient service.

Haematology programme:

There is a strong Haematology team looking after children with leukaemia, lymphoma, bone marrow failure and histiocytic disorders composed of Dr Phil Ancliff, Professor Ajay Vora, Dr Anu Rao, Dr Sujith Samarasinghe, Dr David O'Connor, Dr Sara Ghorasian, Dr Jack Bartram, Dr Vesna Pavasovic (lead for late effect) and Dr Keith Sibson with each consultant having their own area of expertise. There is also an Associate Specialist in Haematology who leads on training and supervises the trainees rotating through the Haematology in-patient service.

- **Supervisor(s)**
  All consultant are educational supervisors - GRID trainees will be allocated to an Oncology Consultant.

  Dr Olga Slater, Dr Tanzina Chowdhury, Dr Catriona Duncan, Dr Mette Jorgensen, Dr Christine Dahl, Dr Patricia O'Hare, Dr Giuseppe Barone

**Clinical Training Responsibilities**

The model of training is a mix of self-directed choice of educational opportunities combined with in service teaching and training. Whilst on the in-patient wards, the trainee will have day to day responsibility for the care of patients on the wards under the supervision of the Associate specialist in Haematology and the Specialty doctor in Oncology together with the attending consultants for Haematology and Oncology (no consultant cross cover). There is a consultant of the week that ensures that there is consultant presence both in haematology and oncology and supports the wards from 0830 - 1900 weekdays and for a period of minimum 6 hours each day at the weekend. The consultants facilitate both service and training commitments in the context of a busy tertiary unit.

Whilst on the in-patient service, there are twice-weekly consultant-led ward rounds in both Haematology and Oncology. The presence of consultants on the wards means there are many opportunities for patient centred teaching and training. The specialty works closely with multiple specialties within the hospital, most of which attend our MDT and offers an excellent opportunity for learning.

Training and supervision will be given in all aspects of the work and can be directed by the trainee. This will include the diagnostic work-up of new patients including the presentation of cases for discussion in the relevant MDT. The trainee will have in depth experience of the management of children undergoing intensive chemotherapy including marrow ablative therapy with autologous and allogeneic stem cell rescue.

Responsibility for an out-patient clinic under consultant supervision during the daycare or oncology part of the rotation. Many trainees find this the most rewarding aspect of their training - the ability to follow a child and their family through the patient journey while making decisions as to their ongoing chemotherapy and adjuvant care.

The trainees will learn the principles of good liaison and communication with staff at hospitals offering Paediatric Oncology shared care. There is now an all electronic patient record system (EPIC) at GOSH.
In terms of the practical aspects of care, there will be training and supervision in bone marrow aspiration, trephine biopsy, lumbar puncture with administration of intrathecal chemotherapy, administration and handling of chemotherapy and safe accessing of central venous devices. We have an excellent pharmacy service supporting the unit and training.

The trainees will have protected time to attend and actively participate in departmental seminars, MDT’s (Oncology, Neuro-Oncology, Haematology, BMT), haematology morphology meetings and specific teaching sessions (Wednesday afternoon is protected teaching time with additional teaching on a Friday afternoon). Informal/bedside teaching will happen daily as the opportunity arises.

**Workload / Rota Arrangements / Example Timetable**

These are busy posts in the largest Haematology/Oncology department in the UK with nearly 300 new referrals per year. As such our trainees benefit from seeing a huge spectrum of pathology within the context of a comprehensive children’s hospital.

The rota is a 1:13 week for nights (14 nights/6 months) broken up into blocks of 3 and 4, with respective rest days allocated, and 15 rotation for long day and weekends and long days (08.30 – 2100). The annual leave entitlement/six months are to be requested shortly within starting the job and will be allocated as considered as possible. Night shifts are undertaken as part of a 5 member medical team supported by a Site Nurse Practitioner and includes 2 registrars from the 26 fellow/trainee haem/onc/BMT/immunology/ID rota, sharing the care of the patients overnight covering BMT/immunology and haem/onc. The PICU provides a PICU Outreach Registrar in event of a child deteriorating acutely and needing intensive care review.

The Grid trainee will rotate between the four different clinical areas i.e. three months in each area but there will be time out of each rotation either for nights or annual leave.

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

The trainee is encouraged to:

- Hone their skills by organising and teaching sessions for junior medical staff
- Undertake a clinical research project
- The trainee is expected to complete mandatory training inc level 3 safeguarding as per Trust policy

**Further training opportunities**

- Access to GOSH courses including weekly neuro-radiology teaching
- Opportunities for understanding paediatric oncology shared care
- Opportunities for learning about paediatric palliative care and symptom control including home/hospice visits
- The department has close links to the basic science Molecular Haematology and Cancer Biology Unit in the Institute of Child Health and there are joint cancer theme seminars during the academic terms.

Molecular tumour board meeting - Stratified medicine Paediatrics trial is open at GOSH
Any further information

This post is suitable for linking to a post at UCLH or RMH in a ST678 training programme. This post is also suitable for linking to a Paed Oncology centre outside London eg Cambridge, Oxford or Southampton.

Contact details for unit

Dr Mette Jorgensen, 02074059200 ext 8832 or 7992 mette.jorgensen@gosh.nhs.uk

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
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<td>Oncology</td>
<td>24-36</td>
<td>Dr Sara Stoneham <a href="mailto:sara.stoneham@uclh.nhs.uk">sara.stoneham@uclh.nhs.uk</a></td>
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<td>Great Ormond Street Hospital (GOSH)</td>
<td>Oncology</td>
<td>24-36</td>
<td>Dr Mette Jorgensen <a href="mailto:Mette.Jorgensen@gosh.nhs.uk">Mette.Jorgensen@gosh.nhs.uk</a></td>
<td>C</td>
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**Additional Information:**

Rotations to start at University College Hospital or GOSH for one year and then rotate to other centres.

Programmes are usually 24 months in duration but if trainees are appointed at ST6, will be for 36 months.

Trainees may rotate to Royal Marsden for the 3rd year.

Job descriptions for all units available.
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Sub-specialty: Paediatric and Adolescent Oncology

Base Unit: University College London

Deaneries involved: London

Outline of Programme:
This one-year post in haematology/oncology will provide subspecialist training in paediatric/adolescent bone tumours and sarcoma, paediatric radiotherapy and radioisotope therapy, adolescent oncology including neurooncology and adolescent haematology and BMT for paediatric oncologists. Trainees must complement training at UCH with training in one or more other paediatric oncology centres in London or elsewhere.

Departmental Information:
- Demographics:
  The Children and Young Peoples Cancer Service (CYPCS) is the largest TYA unit in the UK with a busy clinical department offering high quality clinical care within unique age appropriate settings for inpatient, daycare, ambulatory and outpatient care. UCH is the only site in London to offer experience and training in paediatric and TYA bone tumours. It works in partnership the Royal National Orthopaedic Hospital as part of the London Sarcoma Service. UCH has the largest paediatric radiotherapy service in the UK and one of only two national sites for the delivery of radio-isotope treatments and brachytherapy.

  The TYA service offers comprehensive cancer care for all TYA cancer diagnoses, including adolescent haematology and BMT; adolescent solid tumours and neuro-oncology, and adolescent sarcoma. The service is led by TYA specialists and supported by a comprehensive multidisciplinary team and highly skilled specialist nursing staff.

  UCH and GOSH together function as a single primary treatment centre for North London. This arrangement across two sites and trusts facilitates age appropriate care, streamlined transition and allows for safer delivery of NCRI CCL CSG clinical trials.

  The CYPCS has close links with the Institute of Child Health, part of UCL, in which there are a number of laboratories working within the cancer “theme”.

- Team:
  Staffing: 5 WTE paediatric oncology consultants, 2 medical oncologists, 3 clinical oncologists, 3 TYA haematologists, 5 ST6-8 posts, 1 International training rotational posts with GOSH (middle grade); 5 ST3 trainees.

- Supervisor(s):
  Dr Sara Stoneham/Dr Ananath Shankar/Dr Maria Michelagnol/Dr Stephen Daw.

Clinical Training Responsibilities:
- 6 month rotations through four clinical areas in the department: in-patient haematology; in-patient sarcoma, in-patient oncology and daycare/ TYA ambulatory care.
- Day to day responsibility for the care of inpatients or outpatients; shared care liaison
• Attendance at consultant delivered and led outpatient clinics
• Twice-weekly consultant-led ward rounds, daily registrar-led ward rounds
• Supervision in learning bone marrow aspiration, trephine biopsy, lumbar puncture with administration of intrathecal chemotherapy, safe accessing of central venous devices and safe prescription, administration and handling of chemotherapy
• Attendance/organisation/presentation at departmental governance meetings including morbidity and mortality meetings, clinical safety meetings, tumour/disease specific multidisciplinary meetings, psychosocial meetings and morphology meetings.
• Informal/bedside teaching for junior staff and nursing staff as the opportunity arises.
• Attendance/presentation at regional teaching days, seminars, grand rounds.

Workload/Rota Arrangements/Example Timetable:
The rota is a 1:10 FTE on call rota with out of hours night and weekend responsibilities. The banding for on call is 1A. The rota is EWTD compliant.

Non-Clinical Training Responsibilities (expectations of research/audit/teaching):
The trainee is encouraged to develop a clinical service guideline, involving closed loop audit, and/or lead a quality improvement project
• Teaching nurses and other junior staff as appropriate
• Trainees are encouraged to join in clinical research projects
• Trainees are encouraged to participate in senior management meetings
• Training in Trials "good clinical practice" with attendance at a trials GCP course and certification.

Further Training Opportunities:
A broad experience of all aspects of adolescent oncology including:
• A strong emphasis on multi-disciplinary working
• Opportunities for learning in paediatric/adolescent oncology shared care and TYA palliative care
• Clinical research opportunities in sarcoma, neuro-oncology and haematology malignancy
• A unique opportunity to attend paediatric radiotherapy outpatient clinics and transition clinics and late effects

Contact details for Unit:
Telephone: 0203 447 9950
E-mail: Sara.stoneham@nhs.net; maria.michelagnoli@nhs.net

Curriculum:
Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties
**Outline of Programme**

One or two year post in paediatric oncology based at Great Ormond Street Hospital NHS Foundation Trust (GOSH). Designed to complement the training experience and rotate with other PTC to enable experience with Adolescent oncology care. Also suitable for trainees undertaking most of their training at other centres outside London and who wish to complete training in a specific area (e.g. Stem cell transplantation). Designed for trainees wishing to become tertiary paediatric oncologists and paediatrician wanting to work as shared care consultant

Educational lead: Dr Mette Jorgensen.

**Departmental Information**

**- Demographics**

The unit is staffed with 8 paediatric oncology consultants, and 2 academic consultants (Professor Hargrave and Professor Anderson), 8 paediatric haematologists, haematologists in stem cell transplant, 3 consultants in palliative care, 3 paediatric clinical oncologists. There is an extensive team of radiologist, pathologist and surgeons supporting the team and the MDT. There are 3 ST6-8 (2 GRID/1 SPIN), 4 ST3, 17 clinical fellow posts who participate in the 1 in 13 night rota. In addition, there are 3 specialty doctor posts (haem/onc) and 3 specialty doctors in bone marrow transplantation. The trainees and fellows rotate between haematology, oncology, BMT and daycare.

Great Ormond Street Hospital (GOSH) is the largest department of Haematology and Oncology in the UK. The service treats approximately 450 patients each year, accounting for about 28 per cent of national childhood cancer cases. The Haem/Oncology department at GOSH accepts newly diagnosed children under the age of 13 years, giving the trainee an unparalleled experience in the treatment of young children with cancer. All children with a malignancy diagnosed under one year of age in the South East area are admitted to GOSH giving the trainee in depth experience of cancer in the very young. The training at GOSH will complement training in another PTC to gain experience of managing young adults and also patients with bone tumours. This one or two-year post provides sub-speciality training in malignant haematology, BMT and oncology in both in-patient and day care setting.

The Haematology department, with over 100 new patients per year, specialises in patients with acute leukaemia, Non-Hodgkin's lymphoma, HLH, bone marrow failure syndromes and myelodysplasia. There is a separate team overseeing the care of patients with coagulation disorders and haematology trainees rotates through the unit offering an excellent support for managing and understanding the management of coagulation disorders.

The Oncology department has the largest unit for children with brain tumours (110 new patients a year and approximately 100 second opinions through the Neuro-oncology MDT). GOSH treats all types of childhood solid tumours (112 new patients a year) with the exception of osteosarcoma and Hodgkin's lymphoma. The unit offers immunotherapy and
CAR-T cell therapy for neuroblastoma patients and the trainees will be involved in caring for these patients on the ward. Autologous stem cell transplantation and high-dose chemotherapy is managed by the oncology team, offering excellent experience (approximately 20/year). All new patients and second opinions are discussed in MDTs that the trainees will attend and present cases at.

GOSH has the largest Bone Marrow Transplant (BMT) service in Europe with allogeneic transplants for both malignant and non-malignant conditions. The unit provides a comprehensive haematopoietic stem cell transplant service for children with life-threatening conditions and carries out around 90 transplant procedures each year. There is an expanding CAR-T cell program for haematological malignancies at GOSH.

The trainee will gain experience in outpatient care of patients particularly ALL, Wilms Tumour and CNS tumours treated in this setting. We have a daycare unit with 20 beds supporting BMT, haematology and oncology and will provide training and experience in chemotherapy prescribing and procedures (ITs, BMA, trephines) with 4 procedure lists/week.

The trainee will rotate through four clinical areas in the department: in-patient haematology, in-patient oncology, daycare (including out-patient clinics), and the bone marrow transplant unit. In addition, there are clinics for neuro-oncology, solid tumours, haematology, BMT, retinoblastoma, complex Wilms tumour and late effects. There is also a genetic oncology clinic offering surveillance for children with cancer predisposition syndrome.

We run an intense induction programme running over the first 3 weeks that embeds the trainees into the specialty with a particular focus on oncological and haematological emergencies. There will be individual training in a number of areas, including chemotherapy prescribing, administration of intrathecal chemotherapy, techniques of bone marrow aspiration and trephine and taking informed consent. Each trainee will be allocated an educational supervisor during the induction week. The supervisor will discuss the trainees plans for their ongoing development and tailor a programme around their aspirations - the trainee will also be encouraged to undertake an audit or research project. There is an active programme of clinical and translational research and the unit has a strong track record in successful clinical research fellowships. There are an Early phase clinical trials unit supported by research fellows. The trainees have access to a well-developed programme of teaching and training, and the trainees are encouraged to facilitate teaching of the more junior trainees to support their own learning. Specific teaching and training programmes are in development for CNS tumours for trainees with a

- Team
  Oncology:

  Neuro-oncology - Integrated service with neurosurgery and intensive care on site. Holistic input with an up-front triage of neuropsychological needs. The unit runs a neuro-oncology specific training module encompassing experience in neuro radiology, neurosurgery, neurology, oncology, and neuropsychology - all on site.

  Solid tumour oncology - Professor John Anderson heads a research group in immunotherapy of solid tumours in the Institute of Child Health. Professor Darren Hargrave leads on new drug development and implementation of Phase I/II trials across both Haematology and Oncology.
There are eight full time Oncology consultants organised into two teams, Team A (Professor Hargrave, Dr Christine Dahl, Dr Patricia O'Hare, Dr Mette Jorgensen, Dr Olga Slater) overseeing the care of children with CNS tumours, sarcoma and germ cell tumours and Team B (Professor Anderson, Dr Giuseppe Barone, Dr Tanzina Chowdhury and Dr Catriona Duncan) covering Wilms' tumour, Neuroblastoma, Liver tumours and Retinoblastoma. There is two specialty doctor supporting the in- and out-patient service.

Haematology programme:

There is a strong Haematology team looking after children with leukaemia, lymphoma, bone marrow failure and histiocytic disorders composed of Dr Phil Ancliff, Professor Ajay Vora, Dr Anu Rao, Dr Sujith Samarasinghe, Dr David O'Connor, Dr Sara Ghorasian, Dr Jack Bartram, Dr Vesna Pavasovic (lead for late effect) and Dr Keith Sibson with each consultant having their own area of expertise. There is also an Associate Specialist in Haematology who leads on training and supervises the trainees rotating through the Haematology in-patient service.

- **Supervisor(s)**
  All consultant are educational supervisors - GRID trainees will be allocated to an Oncology Consultant.

  Dr Olga Slater, Dr Tanzina Chowdhury, Dr Catriona Duncan, Dr Mette Jorgensen, Dr Christine Dahl, Dr Patricia O'Hare, Dr Giuseppe Barone

**Clinical Training Responsibilities**

The model of training is a mix of self-directed choice of educational opportunities combined with in service teaching and training. Whilst on the in-patient wards, the trainee will have day to day responsibility for the care of patients on the wards under the supervision of the Associate specialist in Haematology and the Specialty doctor in Oncology together with the attending consultants for Haematology and Oncology (no consultant cross cover). There is a consultant of the week that ensures that there is consultant presence both in haematology and oncology and supports the wards from 0830-1900 weekdays and for a period of minimum 6 hours each day at the weekend. The consultants facilitate both service and training commitments in the context of a busy tertiary unit.

Whilst on the in-patient service, there are twice-weekly consultant-led ward rounds in both Haematology and Oncology. The presence of consultants on the wards means there are many opportunities for patient centred teaching and training. The specialty works closely with multiple specialties within the hospital, most of which attend our MDT and offers an excellent opportunity for learning.

Training and supervision will be given in all aspects of the work and can be directed by the trainee. This will include the diagnostic work-up of new patients including the presentation of cases for discussion in the relevant MDT. The trainee will have in depth experience of the management of children undergoing intensive chemotherapy including marrow ablative therapy with autologous and allogeneic stem cell rescue.

Responsibility for an out-patient clinic under consultant supervision during the daycare or oncology part of the rotation. Many trainees find this the most rewarding aspect of their training - the ability to follow a child and their family through the patient journey while making decisions as to their ongoing chemotherapy and adjuvant care.
The trainees will learn the principles of good liaison and communication with staff at hospitals offering Paediatric Oncology shared care. There is now an all-electronic patient record system (EPIC) at GOSH.

In terms of the practical aspects of care, there will be training and supervision in bone marrow aspiration, trephine biopsy, lumbar puncture with administration of intrathecal chemotherapy, administration and handling of chemotherapy and safe accessing of central venous devices. We have an excellent pharmacy service supporting the unit and training.

The trainees will have protected time to attend and actively participate in departmental seminars, MDT’s (Oncology, Neuro-Oncology, Haematology, BMT), haematology morphology meetings and specific teaching sessions (Wednesday afternoon is protected teaching time with additional teaching on a Friday afternoon). Informal/bedside teaching will happen daily as the opportunity arises.

**Workload / Rota Arrangements / Example Timetable**

These are busy posts in the largest Haematology/Oncology department in the UK with nearly 300 new referrals per year. As such our trainees benefit from seeing a huge spectrum of pathology within the context of a comprehensive children's hospital.

The rota is a 1:13 week for nights (14 nights/6 months) broken up into blocks of 3 and 4, with respective rest days allocated, and 15 rotation for long day and weekends and long days (08.30 – 2100). The annual leave entitlement/six months are to be requested shortly within starting the job and will be allocated as considered as possible. Night shifts are undertaken as part of a 5 member medical team supported by a Site Nurse Practitioner and includes 2 registrars from the 26 fellow/trainee haem/onc/BMT/immunology/ID rota, sharing the care of the patients overnight covering BMT/immunology and haem/oncology. The PICU provides a PICU Outreach Registrar in event of a child deteriorating acutely and needing intensive care review.

The Grid trainee will rotate between the four different clinical areas i.e. three months in each area but there will be time out of each rotation either for nights or annual leave.

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

The trainee is encouraged to:

- Hone their skills by organising and teaching sessions for junior medical staff
- Undertake a clinical research project
- The trainee is expected to complete mandatory training inc level 3 safeguarding as per Trust policy

**Further training opportunities**

- Access to GOSH courses including weekly neuro-radiology teaching
- Opportunities for understanding paediatric oncology shared care
- Opportunities for learning about paediatric palliative care and symptom control including home/hospice visits
- The department has close links to the basic science Molecular Haematology and Cancer Biology Unit in the Institute of Child Health and there are joint cancer theme seminars during the academic terms.

Molecular tumour board meeting - Stratified medicine Paediatrics trial is open at GOSH
Any further information

This post is suitable for linking to a post at UCLH or RMH in a ST678 training programme. This post is also suitable for linking to a Paed Oncology centre outside London eg Cambridge, Oxford or Southampton.

Contact details for unit

Dr Mette Jorgensen, 02074059200 ext 8832 or 7992 mette.jorgensen@gosh.nhs.uk

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum](http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum)
## Oncology full programme submission 2020

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<tr>
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<td>The Royal Marsden NHS Foundation Trust</td>
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<tr>
<td>Deaneries involved:</td>
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### Outline of Programme

One year post in paediatric oncology based at The Royal Marsden NHS Foundation Trust (RMH). The Children’s and Young People’s Unit of the Royal Marsden NHS Foundation Trust, Sutton, is based in an internationally renowned cancer centre; has excellent integration with all adult oncology specialities and enjoys the significant benefits of co-location with The Institute of Cancer Research. The grid trainee program is designed to complement the training experience and rotate with Great Ormond Street Hospital or other London PTC. Also suitable for trainees undertaking most of their training at other centres outside London and who wish to complete training in a specific area (e.g. Stem cell transplantation). Designed for trainees wishing to become tertiary paediatric oncologists. RMH is a joint Primary treatment centre with St. George’s hospital (SGH).

College Tutor: Dr Elsje van Rijswijk

### Departmental Information

- **Demographics**
  The unit is staffed with 9 paediatric oncology consultants (RMH/SGH), 3 paediatric haematologists in stem cell transplant (RMH/SGH), 1 consultant in palliative care (RMH/Chase Hospice), 2 paediatric clinical oncologists, 3 paediatric surgeons (SGH), 1 paediatric endocrinologist (RMH/SGH) and a psychiatrist (part-time). There are 3 ST6-8, 2 ST3 & 4 clinical fellow posts who participate in the 1 in 9 rota. In addition there are 3 specialty doctor posts and 1 senior fellow in bone marrow transplantation. The trainees and fellows rotate between the ward, daycare as well as between the malignant haematology (including transplant) and oncology (including neuro-oncology) teams. The national grid trainee may rotate to SGH for clinical experience and to cover periods of annual leave. The department is closely associated with the Paediatric Section of the Institute of Cancer Research and we have a dedicate Drug Development consultant.

- **Team**
  Nurse Practitioners and CNSs

- **Supervisor(s)**
  Dr Julia Chisholm; Dr Donna Lancaster; Dr Lynley Marshall; Dr Mary Taj; Dr Sucheta Vaidya; Dr Fernando Carceller; Dr Elsje Van Rijswijk, Dr Paola Angelini, Dr Rob Dowse, Dr Sanjay Tewari, Dr Caroline Furness, Dr Sally George (PT)

### Clinical Training Responsibilities

The post holder will be exposed to the distinct working areas: In-patient haemato-oncology (including SCT); Day-care and shared-care; Outpatients clinics; Neuro-oncology and palliative care; PICU experience (SGH only); Phase I and II and III clinical trial experience. The weekly programme for specialist registrars includes: Full shift resident rota covering paediatric oncology, including BMT patients (RMH site only); two consultant led ward rounds for each team per week as well as sit-down ward rounds on other days including weekends. There is always an on-call
consultant available out of hours who is happy to be contacted and attend on site if needed. Leukaemia, Solid tumour & Neuro-oncology MDT meetings; Monthly Late Effects MDT meeting; Protected weekly teaching programme (2 sessions/week) to include a journal club; Seminars (including invited speakers, meeting update, audit and research reports). Training and supervision will be given for all aspects of the work to include diagnostic work-up of new patients, initiation and continuation of treatment protocols as discussed in MDTs, safe chemotherapy prescribing and chemotherapy consent. In addition, there will be training in practical procedures such as bone marrow aspiration and trephine biopsy as well as lumbar punctures with intrathecal chemotherapy.

**Workload / Rota Arrangements / Example Timetable**

RMH is a modern unit, in the setting of specialist cancer hospital, comprising of a 18-bed paediatric inpatient ward, 13 bed TYA unit (9 open beds at present) and day unit and outpatient department, serving the south east of England. The unit is located in Sutton and is one of the two joint Primary Treatment Centres (PTC) in London. In addition there are 4 paediatric oncology beds at SGH. There are approximately 220 new cases per year and an active haematopoietic stem cell transplant programme. There are 24 outpatient clinics per week covering haematology, solid tumours, neuro-oncology, stem cell transplantation (SCT), pain/symptom management and late effects. Close working relationship with departments at SGH (particularly Paediatric Surgery, PICU and Infectious Diseases).

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

The SpR will be encouraged to:

1. Take part in the unit’s research activities, focusing on multi-centre collaborative chemotherapy and radiotherapy trials.
2. Complete at least one audit or quality improvement project under consultant supervision.

Excellent office and library facilities are provided.

**Further training opportunities**

- Participation in multidisciplinary care, including palliative care, in an environment with an exceptionally progressive approach to cancer nursing
- Experience of SCT within a multifunctional paediatric oncology ward
- Playing a key role in a particular style of shared care with local hospitals and community services in Greater London and the South East
- Outstanding Hospital Information System and clinical research database
- Opportunity to work in an academic environment with experienced research nurses and to learn the discipline of clinical trials in oncology
- Opportunities to attend basic science seminars at the affiliated Institute of Cancer Research.

**Any further information**

We have developed a comprehensive induction program to ensure that all trainees fully integrate into the unit. We also developed a very useful booklet for trainees that provides practical information prior to starting the job.

**Contact details for unit**

Dr Elsje van Rijswijk - Tel: 02086613452 or elsje.vanrijswijk@nhs.net
Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum](http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum)
## Northern

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<th>Duration (Months)</th>
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<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
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<tr>
<td>Great North Children’s Hospital</td>
<td>Paediatric Oncology</td>
<td>24</td>
<td>Professor Simon Bailey [<a href="mailto:Simon.bailey@ncl.ac.uk">Simon.bailey@ncl.ac.uk</a>]</td>
<td>C</td>
<td>Y</td>
</tr>
</tbody>
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**Additional Information:**

We provide training for all aspects including bone marrow transplantation. There are no travel issues and the post does not rotate to other parts of the region.
Subspecialty: Paediatric Oncology
Base Unit: Great North Childrens Hospital
Deaneries involved: Northern

Outline of Programme

This post will be for 2-3 years and will provide a comprehensive and systematic training in both the clinical and research aspects of Paediatric Oncology. Many trainees in this post have been able to take out of programme time to undertake research or to successfully apply for Academic Clinical lectureships. It will qualify the post holder for a Consultant appointment in Paediatric Oncology with a Research interest. This position will be in the Department of Paediatric Oncology within the Children's Directorate of the Newcastle upon Tyne Hospitals NHS Trust.

The post will include responsibility for supervision of children (both in-patient and out-patient) with leukaemia, extracranial and intracranial tumours, those undergoing bone marrow transplantation and adolescents with malignancies. There is a systematic training programme progressing through focussed periods of training in haematological malignancy, brain tumours, solid tumours and Bone Marrow Transplant.

Throughout the post there will be an expectation the trainee will develop their teaching, administration and research (clinical and non-clinical) skills. It will be an expectation that the trainee will be specifically involved in the recruitment to clinical trials including late and early phase trials. There will be training in the management and set up of clinical trials in paediatric oncology. The Specialist Registrar will gain experience in the clinical management of children with malignancies and haematological disorders specifically concentrating on strategic and policy decisions. All clinical time will be spent in the paediatric oncology department. There is no service commitment out with the department. This experience will include management of children and adolescents:-

- with leukaemia / lymphoma
- with extracranial solid tumours
- with central nervous system tumours
- with non-malignant haematological conditions
  - undergoing bone marrow transplantation including transplantation from related and unrelated donors;
  - autologous bone marrow rescue or peripheral blood stem cell rescue.
- Undergoing phase I/II clinical trials
- Having palliative care
- Long term follow up

Departmental Information

- Demographics
  The Children's Cancer Unit, Newcastle upon Tyne acts as a regional referral centre for the treatment of children and some young adults with malignancies for the whole Northern Region of England. Between 120-130 new cases are referred each year.
Over 95% of children with cancer from the Northern Region (total population 3.5 million) are referred to the Unit for treatment.

Most patients are entered into national and international protocols of treatment and the consultant members of the Unit are all active members of the Children Cancer and Leukaemia (CCLG) group, and the International Society for Paediatric Oncology. The unit is a member of the Innovative Therapies in Childrens Cancer (ITCC) and Experimental Cancer Medicines Centres (ECMC) networks and is a lead for the North of Britain INCLUDE network of early phase clinical trials centres treating patients from the North of Britain.

Over 700 children are now either on treatment or on long term follow up.

The new Paediatric Oncology Unit consists of a 20-bedded Paediatric Oncology Ward including a 10 bedded adolescent unit. Additional facilities for overflow patients are provided on general paediatric wards which are in close proximity to the Oncology Unit. A paediatric oncology day unit with clinic facilities is opposite the paediatric oncology ward where 5200 clinic visits/day unit stays per year are seen.

In the GMC trainees survey for 2015 the Newcastle Paediatric Oncology Unit was an above outlier in 4 areas including Overall Satisfaction and Clinical Supervision. All 5 Newcastle Grid trainees who have completed training so far have achieved CCT and been appointed to Consultant Paediatric Oncologist posts in The British Isles.

- Allogeneic Bone Marrow Transplantation (using related or unrelated donors) for haematological conditions is now carried out in a joint 8-bedded unit, shared with children with immuno-deficiency adjacent to the paediatric oncology ward. Autologous bone marrow or peripheral blood stem cell rescue is also undertaken at the Royal Victoria Infirmary. The unit is JACIE accredited.

The unit sits within the Great North Children's Hospital which is a children's hospital within the campus of the Royal Victoria Infirmary. The Great North Children's Hospital is the 4th largest children's hospital in the UK and offers comprehensive paediatric services at a very high level. A total of 13 paediatric national grid training posts for all specialties are offered at GNCH, more than any site outside London.

- Team
  Two consultant paediatric haematologists, two paediatric oncological surgeons, a clinical oncologist, 3 paediatric pathologists, 2 neuropathologists, two musculoskeletal pathologists, 4 paediatric radiologists, 3 musculoskeletal radiologists, a paediatric neuroradiologist, 2 neuro-pathologists and 4 consultant neurosurgeons have major commitments to the Unit. Orthopaedic oncological orthopaedic surgery is undertaken by 3 orthopaedic surgeons as part of one of 4 UK NSCAG funded sarcoma surgery centres. Complex thoracic and cardiothoracic surgery is carried out at the adjacent Freeman Hospital in Newcastle which is a world leading Cardiothoracic and Transplant centre.

The Senior medical staff consist of 4 whole time paediatric oncologists (one of whom runs the BMT service), and three University employed oncologists of which varying times are spent on clinical commitments. There is one staff grade doctor working principally on the day unit. The junior medical staff of the Unit at present comprises one specialist registrar (ST8), one specialist registrar (ST6), two clinical fellows, one senior house officer and 2 academic clinical lecturers. There are 40 full time equivalent nurses, over 90 % of
whom are registered Sick Children Nurses. There are six Paediatric Oncology Outreach Nurses, five CLIC Sargent Social Workers, one of whom works part time and 4 full time equivalent data managers. There are 3 full time BMT liaison nurses who provide a supra regional extracorporeal photophoresis service, a Central nervous system tumours nurse specialist and a leukaemia nurse specialist.

- **Supervisor(s)**
  Professor Simon Bailey is responsible for the educational supervision of this post with assistance from Dr Q. Campbell-Hewson, Dr G Halliday, Dr F Van Delft, Dr S Bomken, Dr Geoff Shenton and Professor D Tweddle.

**Clinical Training Responsibilities:**

As above.

**Workload / Rota Arrangements / Example Timetable**

The postholder would be expected to be involved in the Paediatric Oncology on call rota (no general paediatrics) which is a 1 in 6 commitment (until 10 pm - no overnight on call) and is compliant with the expectations of the junior doctor contract. Example timetable opportunities for trainees subject to need of the individual at specific stages in training

**Monday**

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<th>Time</th>
<th>Activity</th>
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<tr>
<td>08.30</td>
<td>Paediatric Oncology Multi-Disciplinary Team Meeting</td>
<td>14.00</td>
<td>General Anaesthetic, Bone Marrow List</td>
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<tr>
<td>10.00</td>
<td>Ward Round</td>
<td>14.00</td>
<td>Consultant ward round</td>
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<td>10.00</td>
<td>Children's Leukaemia Clinic</td>
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<td>Long Term Follow Up Clinic</td>
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**Tuesday**

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<tr>
<td>08.00</td>
<td>Mortality and Morbidity meeting/ Complaints compliments</td>
<td>13.00</td>
<td>Psychosocial Meeting</td>
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<tr>
<td>09.00</td>
<td>Paediatric Oncology Handover Round</td>
<td>13.00</td>
<td>Long term Follow up MDT</td>
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<tr>
<td>10.00</td>
<td>Children's Leukaemia Clinic</td>
<td>14.00</td>
<td>Consultant ward round</td>
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<td>10.00</td>
<td>BMT Clinic</td>
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<td>2 week wait clinic</td>
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<td>10.00</td>
<td>Palliative Care Meeting</td>
<td>16.30</td>
<td>Evening Ward Round*</td>
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**Wednesday**

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<td>16.30</td>
<td>Evening Ward Round*</td>
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</table>
Non-Clinical Training Responsibilities (expectations of research / audit / teaching)

The post holder will be encouraged to develop a research interest which may be linked to one of the research programmes of the Unit and every help will be given in order for this to be developed satisfactorily. There is considerable research expertise within the Department and there is scope for a substantial research project to be undertaken. The post holder's own interest will be taken into account when developing this research programme. The postholder would expected to undertake an audit of some aspect of the service each year.

Teaching

The post holder will be expected to participate in the teaching programme of the Department of Child Health and they will also be expected to organise post-graduate education in paediatric oncology.

Further training opportunities

Subject to individual training need there are opportunities within HEE North East and North Cumbria to undertake training in numerous areas of work relevant to the work of future consultants including the following:

* Medical education through the University of Newcastle Masters programme in medical education

* Medical management through the North East leadership Academy

* Simulation training in medicine

* Good practice in Educational Supervision
Oncology full programme submission 2020

HEE North east and North Cumbria is the top rated region for training support on the basis of GMC trainee survey 2019.

Any further information
A large well stocked medical library is present at the adjoining University of Newcastle upon Tyne. Internet access is also readily available visa the NHS Intranet

Contact details for unit
Professor Simon Bailey
Sir James Spence Institute of Child Health, Queen Victoria Road, Newcastle upon Tyne, NE14LP
simon.bailey@ncl.ac.uk
Phone. 01912825395

Curriculum
Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/Training/Competency-Frameworks
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<tr>
<td>Bristol Children’s Hospital</td>
<td>Paediatric Oncology</td>
<td>24 – 36</td>
<td>Dr Stephen Lowis, <a href="mailto:stephen.lowis@nhs.net">stephen.lowis@nhs.net</a></td>
<td>C</td>
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**Outline of Programme:**

This post is available for two to three years, according to the previous experience of the applicant. All training is provided in Bristol and includes experience in general paediatric oncology; BMT; neuro-oncology; haematology for oncologists; phase 1/2/3 studies. Teenagers and Young Adult oncology patients (age 16 years+) are managed both in the Children’s Hospital (beds on a multidisciplinary adolescent ward) and the adjacent Haematology and Oncology Centre. The TYA oncology service is developing rapidly and there will be opportunities for trainees to work across this age range. The Aftercare service is well developed, both within the hospital and in the shared care hospitals in the surrounding region.

**Departmental Information:**

Demographics:
Bristol is the Primary Treatment Centre for the whole of the SW region, a population of 5.5 million. There are 120 new patients with malignant disease/year, and in addition, 40 paediatric allografts/year; 24 in-patient beds, and a designated 10-bed day care and outpatient facility. The regional shared care network operates on a strongly devolved basis, which requires considerable coordination and careful attention to communication. The TYA and aftercare services are growing.

Team:
The trainee will work alongside 6 middle grade doctors, working in oncology, haematology and BMT. These include: One other paediatric or paediatric oncology trainee, one trainee in Paediatric Haematology, 3 Clinical Fellows (ST6+ equivalent) and 1ST2 doctor. One adult haematology trainee is attached to the department at all times. There are also Advanced Nurse/Clinical practitioners working in the department alongside the middle grade doctors in both the Children's Hospital and on the TYA unit.

Senior medical staff work in three teams for daily clinical practice. i) Solid tumours & neuro oncology: 4 consultant paediatric oncologists (4 wte). ii) Leukaemia & non-malignant haematology: 3 consultant paediatric haematologist (3.0 wte) who both also contribute to the combined paediatric programme. The BMT programme is supported by 2 consultant paediatricians (2 wte).

Supervisor(s):
- Dr SP Lowis

**Clinical Training Responsibilities:**

Trainees rotate through four different clinical areas at 3 - 6 monthly intervals: oncology inpatients (including neuro-oncology), haematology inpatients (leukaemia and non-malignant haematology), day care / outpatients, and BMT (including inpatient, out-patient and BMT coordination). Trainee supervision includes twice weekly consultant-led ward rounds; twice weekly multidisciplinary team meetings; an ‘attending consultant’ system for in-patient care and new patient referrals; and weekly supervised chemotherapy prescribing session. Induction includes supervision in bone marrow sampling and harvesting, safe chemotherapy prescribing and handling course and accredited training in prescription and administration of intrathecal chemotherapy. Out-patient clinics in Bristol include general oncology, leukaemia, non-malignant haematology, neuro-oncology and combined neuro-oncology / endocrine, BMT follow-up and
Oncology full programme submission 2020

young adult long term follow up. Occasional participation at regional shared care clinics is encouraged.

Workload/Rota Arrangements/Example Timetable:

The department maintains an independent on call rota for Haem / Onc and BMT at middle grade level. One ST/ Fellow covers the service (resident) until 22:00 each night / weekend supported by one consultant. There is no overnight on call commitment. The middle grade rota is currently 1:6. The rota is new deal and WTD compliant. Support is provided by general paediatric cover (working shifts), ST6 and above. In-patient nursing staff are experienced and supportive.

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

All trainees are expected to undertake audit and to make a regular contribution to the departmental academic programme. The formal teaching programme includes one department academic meeting (includes M&M and audit) and a consultant-led teaching session each week. This supplements the educational value of clinical- weekly BMT planning meetings; weekly solid tumour MDT; weekly neuro-oncology MDT board meetings; monthly leukaemia and haematology MDT. Weekly hospital grand rounds. IT access on wards and in office area with internet, PubMed etc. Small departmental library and excellent new Trust Education Centre. Opportunities exist for participation in clinical research and there are weekly clinical trial review meetings, clinical research team or research governance meetings. Laboratory experience is available within the department (normally directed towards a higher degree as part of ‘out of programme’ experience).

Further Training Opportunities:

This is a large and busy department with many varied opportunities. Trainees will have opportunity to develop a specific area of expertise and are encouraged to be active members of the CCLG.

Contact details for Unit:

Dr SP Lowis
Tel: 0117 342 8451
Email: s.p.lowis@bristol.ac.uk

Dr Rachel Dommett
Tel: 0117 342 8451
Email: rachel.dommett@uhbristol.nhs.uk

Curriculum:

Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties.
### Wales

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<td>18</td>
<td>Dr M Adams <a href="mailto:madeleine.adams@wales.nhs.uk">madeleine.adams@wales.nhs.uk</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Bristol Children’s Hospital</td>
<td>Bone Marrow Transplantation</td>
<td>6</td>
<td>Dr Stephen Lowis, <a href="mailto:stephen.lowis@nhs.net">stephen.lowis@nhs.net</a></td>
<td>C</td>
<td>Y</td>
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**Additional Information:**

The majority of the training will be in the paediatric oncology/haematology department within the Children’s Hospital for Wales (18 months).

There will be a 6-month placement in Bristol Royal Hospital for Children for training in bone marrow transplant. The timing of this will be tailored to fit training needs of all trainees in the two sites.
Outline of Programme:

We are pleased to offer a post for sub-speciality training in Paediatric Oncology in Cardiff. Led by a young, dynamic group of consultants, the unit provides a full tertiary Paediatric Oncology and Paediatric Haematology (malignant and non-malignant) service, including neuro-oncology for South and West Wales and a unit and outreach service for teenagers and young adults (TYA) with cancer. The trainee will have the opportunity to see and manage new patients from all these diagnostic groups throughout their training in Cardiff. 18 months of this post is in Cardiff with a further 6 months in Bristol working in the Bone Marrow transplant unit.

This is the job description for the Cardiff Oncology component.

Departmental Information:

Demographics:

All Paediatric Oncology and Haematology patients presenting from South and Mid Wales are referred to Cardiff. There are approximately 70-80 new cases of paediatric/TYA cancer per year treated within the paediatric unit. Retinoblastoma, liver tumour and bone tumour patients are managed jointly with the super-tertiary centres in Birmingham.

Facilities: The unit is situated in a purpose-built facility in the Children's Hospital for Wales. There are 13 children's inpatient beds (including facilities for autologous stem cell transplants) and designated outpatient, anaesthetic and day-case treatment areas in close proximity to the ward. In addition, there is a state-of-the-art Teenage Cancer Trust unit for 15-24-year-olds, with 8 inpatient beds and a day-bed facility.

Team:

The team is led by five consultants, (3 Paediatric Oncologists, as well as two Paediatric Haematologists) and one associate specialist. There are three clinical nurse specialists (solid tumours, leukaemia and benign haematology) as well as five outreach nurse specialists who provide support and treatment in the community as well as palliative care. Inpatients are cared for by the ward nursing team, doctors, physiotherapists and pharmacists. Psychology support is also available from two psychologists. A senior lecturer in Paediatric Palliative Care is also closely associated with the unit, providing on-site support and training. There are 2 SHOs and 2 middle grade doctors within Paediatric Oncology, (of which one post is this Grid post) and a Haematology SPR (clinic based). The outpatient activity is supported by a full-time associate specialist and the inpatient care in the Teenage Cancer Trust Unit by a ward-based staff grade.

All inpatient paediatric services are housed on one site in Cardiff and include Cardiology, Respiratory, Ophthalmology, Nephrology, Endocrinology, Neurology, Surgery, Neurosurgery and Paediatric Intensive Care. There are two designated Paediatric Pathologists and four Paediatric Radiologists who play an active role in multi-disciplinary meetings (MDTs). For neuro-oncology patients, there is close collaboration with the Neurosurgeons, Neurologists, Clinical Oncologists, Neuroradiologists and Neuropathologists.

Other Clinical Support Services: There is a Paediatric Oncology Pharmacist within the department and chemotherapy is prescribed using the ChemoCare system. Other members of the team are a designated Physiotherapist, Dietician, Psychologist (job share with neuropsychologist), Play Therapists and Social Workers.
A bone and sarcoma oncology clinic in Cardiff, four times a year, is supported by visiting specialists from the supra-regional centre in Birmingham. A weekly consultant-led long-term follow-up clinic provides experience in the late effects of therapy centred around a regular MDT meeting. Shared care is provided in Carmarthen and Swansea.

Radiotherapy: There are three Clinical Oncologists with expertise in the care of children with malignant disease who are active members of the weekly diagnostic MDT. The radiotherapy service is based at Velindre Hospital (about 3 miles away), and there will be opportunity to spend time there for further training.

Organisation of Care: At the principle treatment centre, there are weekly diagnostic MDTs (solid tumour, neuro-oncology, leukaemia and TYA) and a weekly treatment planning meeting. The unit has a designated Psychologist who leads the weekly psycho-social MDT. Because of the large geographical area covered by the unit, a significant amount of care is given to patients at home. This is delivered by our outreach nursing team of POONS, including a specialist neuro-oncology nurse.

Supervisor(s):

- Dr. Meriel Jenney – Consultant Paediatric Oncologist and Clinical Board Director for Women’s and Children’s Services
- Dr. Cathy Morley-J Jacob - Consultant Paediatric Oncologist (clinical lead)
- Dr. Philip Connor – Consultant Paediatric Haematologist
- Dr. Indu Thakur - Consultant Paediatric Haematologist
- Dr Madeleine Adams - Consultant Paediatric Oncologist

Clinical Training Responsibilities:

Training will be provided in all aspects of inpatient and outpatient management of children with malignant disease, within the framework of a consultant-led service. This includes high dose chemotherapy with autologous stem cell rescue. Training in TYA cancers, palliative care and non-malignant haematology is also provided. You will spend a six-month period at the Bone Marrow Transplant unit in Bristol, which is within commuting distance.

Once the trainee has developed a basic understanding of the day-to-day tasks of managing patients in the inpatient, outpatient, day-case and shared care setting, further training focuses on taking a lead in the management of patients under Consultant supervision.

Taking responsibility for managing line insertion lists, oncology MDTs and coordinating / managing the treatment pathways for children with all types of malignancy.

The trainee will have an opportunity to follow patients through their whole treatment pathway, including radiotherapy and surgery, where appropriate, and liaising with the other specialist clinical teams as required.

As a member of the Clinical Trials Team, the trainee will be trained to consent for treatment, and to enrol patients in supportive care trials and some of the more common clinical trials. Attendance at CCLG meetings and national and international training meetings is fully supported and encouraged, with Consultants covering absences.

Shared Care: Currently shared care is undertaken with Carmarthen and Swansea. Trainees would be encouraged to liaise in the day-to-day management of their inpatients and attend outreach clinics, although the majority of training will take place in Cardiff.
Workload/Rota Arrangements/Example Timetable:

Daytime work is entirely within the Paediatric Oncology department, rotating on a 3-monthly basis between the ward, day-case and outpatient areas. The Grid trainee, Middle Grade Doctors and clinic based Associate specialist work together, with close liaison between the different areas.

The out-of-hours commitment is to the wider Paediatric service, covering the speciality rota, including Oncology, Cardiology, Nephrology and Neurology. Rotas within the Children’s Hospital are 1 in 10 or 11 currently and all EWTD compliant.

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

Research opportunities: The unit participates actively in all national and international phase III trials, some phase II trials and commercial trials and has 1 Research Nurse in post. There is an active local research programme within the unit, with a previous grid-trainee and SpRs undertaking locally-supervised MDs. We are very keen to support research and encourage the development of a research interest.

Participation in departmental teaching on a regular basis covering common oncological topics is expected as well as teaching nursing colleagues.

Continuing or developing a research project is fully supported, with several trainees having undertaken an MD in recent years.

It is expected that a significant audit or QI project will be undertaken with involvement (and supervision) of SHOs.

Participation in national and international research trials and the in-house Quality Assurance development relating to GCP-compliant research practice are part of standard practice in the unit.

Further Training Opportunities:

6 months working in the Bone Marrow Transplant unit at Bristol Children's Hospital is supported by funding and mandatory training. There are opportunities to link with colleagues treating older patients within the TCT unit, and also opportunities for training in specialist paediatric Palliative Care.

Trainees are encouraged to attend local, national and sometimes international training courses and meetings. There is weekly consultant-led teaching within the unit.

Any Further Information:

The unit in Cardiff provides comprehensive training in Paediatric Oncology, treating all malignant cases (and non-malignant haematology) with the exception of allogeneic or unrelated BMT, and nationally-commissioned specialist surgery such as for bone tumours and retinoblastoma. There are particularly good opportunities for training in Cardiff as the TCT unit is on site and specialist Palliative Care is well developed. There is full Consultant support with training tailored to the trainee's needs.

Cardiff is 2 hours by train from London and has excellent facilities within the city and its surrounding countryside. The Brecon Beacons National Park is within 30 minutes’ drive, the Pembrokeshire coast well within 2 hours and a variety of cultural events are hosted in the capital city of Wales (including opera at the Millennium Centre, theatres and rugby at the Millennium Stadium).
Oncology full programme submission 2020

Contact details for Unit:

Dr Cathy Morley Jacob
Email: cathy.morley-jacob@wales.nhs.uk

Curriculum:

Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: [https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties](https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties)
**Outline of Programme:**

We are pleased to offer a post for sub-speciality training in Paediatric Oncology in Cardiff. Led by a young, dynamic group of consultants, the unit provides a full tertiary Paediatric Oncology and Paediatric Haematology (malignant and non-malignant) service, including neuro-oncology for South and West Wales and a unit and outreach service for teenagers and young adults (TYA) with cancer. The trainee will have the opportunity to see and manage new patients from all these diagnostic groups throughout their training in Cardiff. 18 months of this post is in Cardiff with a further 6 months in Bristol working in the Bone Marrow transplant unit.

This is the job description for the Bristol BMT component.

**Departmental Information:**

**Demographics:**

Bristol is the Primary Treatment Centre for the whole of the SW region, a population of 5.5 million. There are 120 new patients with malignant disease / year, and in addition, 40 paediatric allografts / year; 24 in-patient beds, and a designated 10-bed day care and outpatient facility. The regional shared care network operates on a strongly devolved basis, which requires considerable coordination and careful attention to communication. The TYA and aftercare services are growing.

**Team:**

The trainee will work alongside 6 middle grade doctors, working in oncology, haematology and BMT. These include: One other paediatric or paediatric oncology trainee, one trainee in Paediatric Haematology, 3 Clinical Fellows (ST6+ equivalent) and 1ST2 doctor. One adult haematology trainee is attached to the department at all times. There are also Advanced Nurse/Clinical practitioners working in the department alongside the middle grade doctors in both the Children's Hospital and on the TYA unit.

Senior medical staff work in three teams for daily clinical practice. i) Solid tumours & neuro oncology: 4 consultant paediatric oncologists (4 wte). ii) Leukaemia & non-malignant haematology: 3 consultant paediatric haematologist (3.0 wte) who both also contribute to the combined paediatric programme. The BMT programme is supported by 2 consultant paediatricians (2 wte).

**Supervisor(s):**

- Dr SP Lowis

**Clinical Training Responsibilities:**

Trainees in the department rotate through four different clinical areas at 3 - 6 monthly intervals: oncology inpatients (including neuro-oncology), haematology inpatients (leukaemia and non-malignant haematology), day care / outpatients, and BMT (including inpatient, out-patient and BMT coordination). Your role will be in the BMT area for your 6-month placement. Trainee supervision includes twice weekly consultant-led ward rounds; twice weekly multidisciplinary team meetings; an 'attending consultant' system for in-patient care and new patient referrals; and weekly supervised chemotherapy prescribing session. Induction includes supervision in bone
Oncology full programme submission 2020

marrow sampling and harvesting, safe chemotherapy prescribing and handling course and accredited training in prescription and administration of intrathecal chemotherapy. Out-patient clinics in Bristol include general oncology, leukaemia, non-malignant haematology, neuro-oncology and combined neuro-oncology / endocrine, BMT follow-up and young adult long term follow up. Occasional participation at regional shared care clinics is encouraged.

Workload/Rota Arrangements/Example Timetable:

The department maintains an independent on call rota for Haem /Onc and BMT at middle grade level. One ST/ Fellow covers the service (resident) until 22:00 each night / weekend supported by one consultant. There is no overnight on call commitment. The middle grade rota is currently 1:6. The rota is new deal and WTD compliant. Support is provided by general paediatric cover (working shifts), ST6 and above. In-patient nursing staff are experienced and supportive.

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

All trainees are expected to undertake audit and to make a regular contribution to the departmental academic programme. The formal teaching programme includes one department academic meeting (includes M&M and audit) and a consultant-led teaching session each week. This supplements the educational value of clinical- weekly BMT planning meetings; weekly solid tumour MDT; weekly neuro-oncology MDT board meetings; monthly leukaemia and haematology MDT. Weekly hospital grand rounds. IT access on wards and in office area with internet, PubMed etc. Small departmental library and excellent new Trust Education Centre. Opportunities exist for participation in clinical research and there are weekly clinical trial review meetings, clinical research team or research governance meetings. Laboratory experience is available within the department (normally directed towards a higher degree as part of ‘out of programme’ experience).

Further Training Opportunities:

This is a large and busy department with many varied opportunities. Trainees will have opportunity to develop a specific area of expertise and are encouraged to be active members of the CCLG.

Contact details for Unit:

Dr SP Lowis
Tel: 0117 342 8451
Email: s.p.lowis@bristol.ac.uk

Dr Rachel Dommett
Tel: 0117 342 8451
Email: rachel.dommett@uhbristol.nhs.uk

Curriculum:

Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties.
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<thead>
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<tr>
<td>Southampton Children’s Hospital</td>
<td>Paediatric Oncology</td>
<td>24</td>
<td>Dr Juliet Gray <a href="mailto:juliet.gray@uhs.nhs.uk">juliet.gray@uhs.nhs.uk</a></td>
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Sub-specialty: Paediatric Oncology

Base Unit: Southampton Children's Hospital

Deaneries involved: Wessex

Outline of Programme

2 year post providing training in paediatric oncology, paediatric haematology for oncologists, neuro-oncology and palliative care. Exposure to TYA oncology is also available, and there is a dedicated consultant in TYA (Dr A Davies). BMT experience will be gained by rotation to another centre (to be arranged depending on the training needs of the applicant).

Departmental Information

- Demographics
  The Paediatric Oncology Unit in Southampton takes all children (up to 17 years) in Wessex. The purpose-designed unit has 12 in-patient beds and 4 day beds, together with out-patient consulting rooms, a play room, school room and parents’ facilities. There are approximately 120 newly diagnosed cases of cancer referred each year. Patients requiring BMT are referred to Bristol or London, depending on where they live, but return soon after transplant for on-going care. Patients receive specialised orthopaedic surgery at Stanmore, retinoblastoma surgery at GOSH and liver surgery at Kings College Hospital. All paediatric subspecialist services are on site, including surgery, neurosurgery, radiotherapy, neurology, nephrology, endocrinology, cardiology, gastroenterology, nuclear medicine, respiratory medicine and PICU. There is a TYA MDT and 6-bedded ward which opened in Sept 2013, providing a regional service for this age group.

Team

- Dr J C Gray  Associate Professor and Consultant in Paediatric Oncology
- Dr GL Nicolin  Consultant Paediatric Oncologist
- Dr R Ramanujachar  Consultant Paediatric Oncologist
- Dr Jessica Bate  Consultant Paediatric Oncologist
- Dr Sarita Depani  Consultant Paediatric Oncologist
- Dr Galina Jigoulina  Consultant Paediatric Haematologist
- Dr Michelle Koh  Consultant Paediatric Palliative Care

Dr D Brooke  Staff grade
Dr C Bowley  Staff grade

- Supervisor(s)

Dr Juliet Gray, Associate Professor and Consultant in Paediatric Oncology
Clinical Training Responsibilities

Training in haematology is co-ordinated by Dr Harvet and Oram and in neuro-oncology and palliative care by Drs Nicolin and Koh respectively. Dr Gray is the Clinical Trials Lead, and weekly meetings are held with the trial coordinator and data managers, which will include discussions about phase 1 and 2 trials to be opened locally. The SpR can also learn about early phase trials to which patients may be referred. Should specific BMT training be required, a rotation (e.g. to RMH) would be negotiated (as has happened before).

Workload / Rota Arrangements / Example Timetable

The trainee will rotate through the following areas:

1. Co-ordination of all aspects of in-patient care on the unit, including routine ward duties, routine and emergency admissions to the unit and liaison with other paediatric services.
2. Day patient and OP work, including liaison with POSCU, undertaking BM aspirations/LPs on the GA lists and prescribing of chemotherapy.
3. Neuro-oncology attachment, including ward rounds, clinics, and neuro-oncology, MDT attendance.

The oncology SpR is on an EWTD compliant rota, sharing out-of-hours general paediatric duties with other subspecialty SpRs. There are obligatory periods of night duty (covering all paediatric specialties), with appropriate compensatory rest. Comprehensive support is provided by the Consultants in and out of normal working hours.

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

Trainees are encouraged to participate in oncology research/audit during their appointment. Attendance and ideally a poster presentation at SIOP would be encouraged, together with membership of the national oncology trainees group. Several audits and re-audits are undertaken in the unit each year. Medical students undertake BMed Sci projects each year in paediatric haematology/oncology, and there are opportunities for the SpR to be involved with supervision. The SpR is also expected to participate in the undergraduate teaching programme.

Further training opportunities

There is a weekly educational meeting for all senior staff, to which the SpR will be expected to contribute. This covers set-up meetings for all new trials, teaching on pertinent current topics, a journal club and outside speakers. Regular morbidity and mortality meetings are held, and MDTs for solid tumours, leukaemia, neuro-oncology and late effects. An active teaching programme exists within general paediatrics, including a weekly clinical meeting, XRay meetings and sessions covering aspects of mandatory training such as child protection. There is a monthly teaching day which all senior paediatric trainees are expected to attend. There are regular seminars organised by the Cancer Sciences division to which everyone is welcome.

Contact details for unit: Dr Julieit Gray jcgray@soton.ac.uk

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
West Midlands

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<td>Birmingham Children’s Hospital</td>
<td>Oncology, BMT, haematology</td>
<td>36</td>
<td>Francis Mussai <a href="mailto:francis.mussai@nhs.net">francis.mussai@nhs.net</a></td>
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**Additional Information:**

This post offers comprehensive training in paediatric haematology-oncology-stem cell transplant. We aspire to develop the next generation of leading clinical and academic paediatric oncologists. We are one of the largest haematology-oncology-BMT units in the UK, with a diverse patient workload. As such trainees will learn to investigate and manage a wide range of common and rare conditions. The appointees will be expected to rotate through inpatient and outpatient oncology, neuro-oncology, malignant and benign haematology, and Stem Cell Transplant.
Outline of Programme:

This post offers comprehensive training in paediatric haematology-oncology and stem cell transplant. We aspire to develop the next generation of leading clinical and academic paediatric oncologists. We are one of the largest haematology-oncology-BMT units in the UK, with a diverse patient workload. As such trainees will learn to investigate and manage a wide range of common and rare conditions. The appointees will be expected to rotate through inpatient and outpatient oncology, neuro-oncology, malignant and benign haematology, and stem cell transplant. These rotations are distinct firms to allow the trainee to be immersed in the subspeciality areas and gain in depth exposure to the case load.

Although busy, we provide a supportive, multi-disciplinary approach to our GRID training programme, to ensure trainees meet their full curricula requirements. There are weekly solid tumour and neuro-oncology MDT meetings, a weekly psycho-social MDT meeting, and subspeciality meetings in retinoblastoma. All trainees are mentored by a Consultant Educational Supervisor and a formal development plan is devised with the trainee recognising any specific areas of career interest. Doctors receive 360 Feedback each week.

A formal departmental teaching programme takes places on a weekly basis, and a number of further subspecialty research, morbidity and mortality, and speciality forums are scheduled throughout the year. Trainees are supervised in the electronic prescribing of chemotherapy and trained in the administration of intrathecal chemotherapy, and diagnostic bone marrow aspirates/trephines. Specific experience will also be offered in late effects and palliative care. The appointee will be encouraged to participate in the training of other staff as they gain in experience. A dedicated teenage cancer unit links with the regional TYA MDT and will allow training in the area of adolescent oncology.

Departmental Information:

- Demographics:

  The Paediatric Haematology-Oncology department is composed of a 32 bed centre includes a 15 bed Haematology-Oncology ward with ensuite rooms; a 7 bed Teenage Cancer Unit, and a 7 bed Stem Cell Transplant unit. We have a large outpatient facility containing clinic rooms, day case treatment areas, and a theatre for procedures. Seminar rooms are provided for multi-disciplinary, planning and radiology meetings and staff teaching. We see over 220 children a year. The wider hospital contains 14 other wards with 34 specialities and supporting departments, a total of 354 beds, a 31bedded Paediatric Intensive Care Unit and modern emergency and radiology departments. Our patients also benefit from close links with the adult services at the Queen Elizabeth Hospital, the Royal Orthopaedic Hospital and research at the University of Birmingham.

In conjunction with the Haematology department we deliver care for children with a wide range of common and rare solid tumours, CNS tumours, leukaemias and non-malignant haematological conditions including haemoglobinopathies and bleeding disorders, and Bone Marrow Transplant (BMT). We are a national referral centre for Liver Cancers, Retinoblastoma and Bone Tumours and the Cancer Research Clinical Trials Unit is located at the University.
- Team:

In the Oncology Department there are 5 NHS consultants: Prof Bruce Morland, Dr Martin English, Dr Dave Hobin and Dr Helen Jenkinson, Dr Jenny Adamski. In addition there are 4 Academic honorary consultants: Prof Andrew Peet, Prof Pamela Kearns, Dr Suzanne Gatz (Senior Lecturer) and Dr Francis Mussai (Senior Lecturer). There are 6 consultant haematologists, Drs Alice Norton, Nyree Cole, Sarah Lawson, Mark Velangi, Jonathan Lancashire and Jayashree Motwani.

Dr Dan Ford is a consultant Clinical Oncologist from the University Hospitals Birmingham NHS Trust with sessions at the Children’s Hospital, sessions at the Queen Elizabeth Hospital dedicated to paediatric services. Dr Andy Toogood is a Consultant Endocrinologist at the University Hospitals Birmingham NHS Trust and has one session per week with adult survivors of childhood cancer and adolescents in the transitional clinic.

In addition to the National Grid posts there are SpR posts in Paediatric Oncology, which are filled by doctors on the West Midlands SpR rotation and by a growing international Fellowship programme. These Fellows provide a unique opportunity to work alongside and learn from doctors working with alternative medical systems in their home countries.

There are additional SpRs in adult Haematology, rotating through the Children’s Hospital. There are three level 1 StRs in haematology / oncology.

- Supervisor(s):

The Trainee will be supervised by one of the Consultant Oncologists

Clinical Training Responsibilities:

The trainee will be well exposed to the full range of patients and conditions, to train a leading paediatric oncologist. Successful progress through the training programme will be assessed by the educational supervisor and benchmarked against the specialty curriculum. In addition, the trainee will attend an annual review of training coordinated by the relevant specialist training committee for paediatric oncology

Workload/Rota Arrangements/Example Timetable:

Birmingham Children’s Hospital has an integrated medical Hospital at Night (H@N) system of out of hours cover. The oncology & haematology SpRs participate in middle grade cover in the hospital for haematology- oncology patients only between 17:00 and 21:00 Monday to Friday and 08:30-21:00 Saturday and Sunday.

The SpRs in Paediatric Oncology will do 2-weeks of night shifts covering H@N during each 6 month period. They are released from departmental duties during that time.

The oncology and haematology consultants also operate an on-call rota.
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<td>Cancer therapy Bed planning</td>
<td></td>
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<tr>
<td>Oncology treatment &amp; diagnostic MDT</td>
<td>BCH grand round</td>
<td>Dept seminar series</td>
<td></td>
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<tr>
<td>PM</td>
<td>Ward work</td>
<td>Ward work</td>
<td>Theatre List Ward work</td>
<td>Ward work</td>
</tr>
<tr>
<td>Transition Clinic</td>
<td>Neuro-oncology clinic</td>
<td>Oncology follow-up clinic</td>
<td>chemotherapy prescribing session</td>
<td>Retinoblastoma clinic</td>
</tr>
<tr>
<td>Late effects clinic</td>
<td></td>
<td></td>
<td>Palliative Care MDT</td>
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</tr>
</tbody>
</table>

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

Our department is keen to support the subspeciality development of doctors. Opportunities are available at all stages of career and we hope to train the next generation of leading clinician-scientists in the field. A number of our consultants have research groups and are actively involved in laboratory-based, clinical research studies, and clinical trial development. In addition, the close proximity of the University of Birmingham, with its internationally recognised research, opens the door to projects led by other non-clinical investigators across the spectrum of biomedical research and healthcare. Junior doctors in our department have successfully completed academic
fellowships, Masters and PhD courses. Information on postgraduate courses available at the University of Birmingham can be found at: http://www.birmingham.ac.uk/postgraduate/courses/index.aspx. Funding and applications should be discussed with potential supervisors and the clinical team at the earliest opportunity.

There will be one session per week available for research / personal development and involvement in research projects will be encouraged. The trainee will also be expected to participate in the departmental audit and clinical governance activities

**Further Training Opportunities:**

The department encourages trainees to take responsibility for their own professional development and will endeavour to support any specialist areas of training / research the trainee identifies. This can be assessed at a national level through the network of children’s specialist cancer centres. If a trainee wishes to explore a period of training in an overseas centre, the department would endeavour to support this where feasible. The trainee will be encouraged to fully participate in the work of the national groups CCLG ± TYAC.

**Any further Information:**

Further information on our department may be found at: [http://www.bch.nhs.uk/oncology-professionals](http://www.bch.nhs.uk/oncology-professionals)

**Contact details for Unit:**

Dr Francis Mussai - Education Lead in Paediatric Oncology, Clinical Senior Lecturer and Honorary Consultant Oncologist.

<table>
<thead>
<tr>
<th>Telephone: 0121333 8234</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail: <a href="mailto:Francis.mussai@nhs.net">Francis.mussai@nhs.net</a></td>
</tr>
</tbody>
</table>

**Curriculum:**

Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: [https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties](https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties)
West Scotland

<table>
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<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
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<tbody>
<tr>
<td>Royal Hospital for Children, Glasgow</td>
<td>Glasgow</td>
<td>36</td>
<td>Dr. Jairam Sastry</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><a href="mailto:Jairam.Sastry@ggc.scot.nhs.uk">Jairam.Sastry@ggc.scot.nhs.uk</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information:

Trainee will be a part of national grid training who will rotate through various areas within the paediatric Haematology and oncology unit including solid tumours, lymphoma, Leukaemia, non-malignant haematology and Bone marrow transplant.
**Outline of Programme**

The trainee will be based within the Schiehallion Unit (ward 2A/B) at the Royal Hospital for Children, Govan, Glasgow. The brand new children’s hospital, with a separate identity and entrance, is joined to the new adult South Glasgow University hospital in the Govan area of Glasgow.

With 256 beds over three storeys it has replaced the previous Royal Hospital for Sick Children (RHSC) located in the Yorkhill area of Glasgow. It is envisaged that a two year rotation will provide comprehensive training in all aspects of malignant haematology-oncology. The trainee will spend six months training in malignant haematology and bone marrow transplant, one year in solid tumour oncology and six months in brain tumours.

**Departmental Information**

- **Demographics**

  Children's cancer services are provided through Managed Service Netowrk (MSN) which provides single unified service delivered via three CCLG centres across Scotland. The department sees an average of 90 new diagnoses per year, taking children and young adults up to the age of 16 at original presentation. The Schiehallion Unit has a 25 bed (all cubicles) inpatient facility with separate day care and outpatient departments. This includes 6 bedded Teenage Cancer Trust unit which works very closely with the TCT unit at Beatson Oncology centre at Gartnavel hospital. The Scottish National Paediatric Bone Marrow Transplant Service is also based on Schiehallion. It conducts 15-20 allo and autografts each year. The BMT unit has been JACIE accredited since 2011.

  RHC is one of seven UK centres accredited to deliver phase I/II agents by ITCC (Innovative Therapies for Children with Cancer) and acts as the national New Agent's trial centre for Scotland. The Glasgow unit therefore sees an average of 100 new patients a year. Patients requiring radiotherapy have their treatment delivered at The Beatson Oncology Centre. The unit also provides comprehensive care for children and young adults with CNS tumours under one roof. Sarcoma surgery services are provided with in the hospital which also receives patients from Aberdeen. This tertiary hospital provides multi specialist paediatric care including HDU, renal, cardiac, GI and PICU care. The unit is a part of CCLG and actively participates in national, international and commercial trials.

  There are three full time clinical paediatric oncologists, caring for children with solid tumors and brain tumours from the West of Scotland and beyond. In addition they also look after patients from other centres who are referred to our centre as per agreed pathways or as needed by phase I or II trials. This is delivered as part of the Managed Service Network for Childhood Cancer. There are 4 surgeons on-site who have an interest in oncology, all of whom insert port-a-caths and hickmen lines. Radiotherapy facilities are at the nearby West of Scotland Beatson Oncology Centre and two Consultant Clinical Oncologists support this service. The West of Scotland Blood Transfusion Service provides an apheresis service for harvesting peripheral blood stem cells for intensive chemotherapy support. Specialist in-house Paediatric Renal, Respiratory, Cardiology, Gastro-Enterology and Endocrinology Consultants support the Unit. There is an on site Intensive Care and High Dependency Unit.
The Stem Cell Transplantation Programme is a national service with National Service Division (NSD) recognition and funding. It has JACIE and HTA accreditation as both an allogeneic and autologous clinical transplant centre and collection site for bone marrow and directed cord blood collection. The programme is supported by a SCT data manager, CNS and Quality Manager. The service is delivered by a Consultant Haematologist and an Associate Specialist and this post holder will complete the team. There are close relationships with the Regional Stem Cell Processing laboratory, the Regional Transfusion Centre and Apheresis Service and the Paul O’Gorman Scottish Leukaemia Research Laboratory. The adult Stem Cell Transplant service will co-locate on the Southern General Site and closer working relationships will be encouraged where possible. The molecular laboratory haematology laboratory on the SGH site provides a Minimal Residual Disease (MRD) service to Scotland, Ireland, Newcastle and Liverpool and a chimeric service for SCT. There is an EFI accredited tissue typing laboratory whose location is yet to be agreed.

The haemoglobinopathy service cares for approximately 50 children and adolescents with sickle cell disease and 8 transfusion dependent thalassaemia patients. The service is delivered by a consultant haematologist and a Haematology Clinical Nurse Specialist. The postholder will join this team. Children attend the day care unit for red cell transfusions. There is a monthly sickle cell disease clinic which runs concurrently with Transcranial Doppler scanning as a one stop clinic. Children from out with Glasgow also attend this clinic for TCD scanning and in some cases e.g. children from Dundee, for tertiary clinical review.

- Team

The unit is well staffed with three and half Oncologists, 4 Haematologists, one Adolescent Haematologist and one academic Haematologist. The unit is well supported by one Associate Specialist, junior doctors and adult haematology trainees

- Supervisor(s)

Dr. Jairam Sastry will be supervising this post

Clinical Training Responsibilities

It is envisaged the trainee will be responsible for the day-to-day management of all haematology and oncology patients within the Unit. There will be exposure to inpatient, outpatient and day care environments.

The trainee will be encouraged to take part in shared-care clinics throughout Scotland.

There will be opportunity to accompany the outreach nursing team to patients’ home to deliver specialised palliative care.

The trainee will be expected to attend and lead multi-disciplinary meetings, including the weekly on-treatment, Neuro-oncology and radiology meetings as well as tumour board, they will be responsible for prescribing chemotherapy. There is also weekly TCT MDT with tele link between Schiehallion and Beatson centres. There is also national MSN MDT meeting fortnightly through telelink, one for haematology, one for solid tumours and one for Palliative care.

Workload / Rota Arrangements / Example Timetable

Out of hours duties involve dedicated cover solely to the paediatric Haemato-Oncology unit. This is on 15 rota with prospective cover between 9am -9pm. Night cover is provided by the hospital at night team.
Non Clinical Training Responsibilities (expectations of research / audit / teaching)

They will be expected to participate in audit, research and teaching. There will be ample opportunities to present in regional and national MDTs, write papers, chapters, and to register for Higher Degrees

Further training opportunities

Further sub-specialisation will be encouraged and fostered

Contact details for unit

Dr. Brenda Gibson/Dr. Jairam Sastry
Deapartment of Haematology-Oncology
Royal Hospital for Children
Govan Road
Glasgow G514TF
Ph: 01414526520

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum](http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum)
### Yorkshire and Humber

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed</th>
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</thead>
<tbody>
<tr>
<td>Leeds Children’s Hospital</td>
<td>Leeds</td>
<td>24-36</td>
<td>Dr Martin Elliott <a href="mailto:Martin.elliott1@nhs.net">Martin.elliott1@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
</tbody>
</table>
Outline of Programme:

This 2-3 year programme is based within the paediatric oncology and haematology department of Leeds Children's Hospital at the Leeds General Infirmary (LGI). The programme offers comprehensive training in all aspects of paediatric and teenage and young adult (TYA) oncology and haematology. The busy unit comprises three in-patient areas (paediatric, TYA and bone marrow transplant) and there is also a day hospital and clinic facility. Trainees also have the opportunity to spend some time in the young adult unit (18-25) at Leeds Cancer Centre as part of their TYA oncology training. The unit has an excellent history of clinical research and is one of the UK paediatric oncology phase I/II clinical trial centres and we also have close collaborations and links with research teams at the University of Leeds and University of York. In particular we have very close collaborations with scientists in the Children's Cancer Candlelighter's laboratory and the brain tumour research laboratory both based within University of Leeds. There is also an established Candlelighters Clinical Research Fellowship programmed for any trainees wishing to study for a higher degree during their training.

Departmental Information:

- Demographics:
  We treat about 130 new patients age 0-18 per annum and also accept referral of patients from other centres for phase I/II clinical trials and for stem cell transplants. There are 16 beds on the paediatric oncology ward, 8 on the TYA ward (ages 13-18) and a 4 bed bone marrow transplant unit. The young adult unit at Leeds Cancer Centre has 10 beds.

- Team:
  The team consists of 5 paediatric oncologists (Dr Sue Picton, Prof Adam Glaser, Dr Martin Elliott, Dr Bob Phillips and Dr Simone Wilkins), three haematologists (Prof Sally Kinsey, Dr Mike Richards, Dr Beki James) and 2 haematology-specialist doctors (Dr Danielle Ingham and Dr Chris Lethaby). There are 2 day unit based specialty doctors and three ward based non-training middle grade doctors. The training grade posts consist of 2 paediatric higher specialty trainees (HST), including this post, 1 haematology specialty trainee, 1 haematology-specialty trainee and there are 5 ward based lower specialty trainees (LST). The medical team is supported by a team of 3 qualified advanced nurse practitioners (ANP) and a fourth in training.

  The wider MDT includes paediatric surgeons, neurosurgeons, radiologists, pathologists, clinical oncologists, pharmacists, McMillan liaison nurses etc and there are four main diagnostic MDT's (solid tumour, haematology and neuro-oncology and TYA) as well as a weekly psychosocial MDT meeting. The unit also has a large team of research nurses and data managers incorporated within the Leeds Children's Hospital Research Facility.
- Supervisor(s):
The named educational and clinical supervisor for GRID trainees will be one of the oncology or haematology-oncology consultants and will be dependent on other trainees in the department and the interests and needs of the GRID trainee. Trainees will work with all of the consultants on a day to day basis.

Clinical Training Responsibilities:
The trainee will alternate between ward, day unit and clinic-based activities. On the ward the trainee will be expected to supervise the LST’s and ANP’s and in clinic they will work alongside the consultants and specialty doctors. The main duties include assessment and management of patients according to unit protocols and policies, chemotherapy prescribing, supervision of ST1-3 doctors, MDT attendance and presenting, and supporting members of the wider MDT including pharmacists, McMillan nurses, nurse specialists etc

With increasing experience, GRID trainees will take a lead in management of individual patients and families, with appropriate named consultant support for each patient.

Workload/Rota Arrangements/Example Timetable:
The rota is a 1 in 8 resident full shift. Within hours then all time is spent in oncology. Out of regular hours then as well as oncology the post also involves paediatric hepatology, nephrology and neurology, though the majority of the workload is within oncology and haematology.

An example time table

<table>
<thead>
<tr>
<th>Monday</th>
<th>Solid tumour clinic (am)</th>
<th>Grand Round - oncology (pm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>Neuro-oncology MDT and clinic (am)</td>
<td>Admin / Chemo prescribing (pm)</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Ward round (am)</td>
<td>Ward work (pm)</td>
</tr>
<tr>
<td>Thursday (pm)</td>
<td>Dept meeting then ward round(am)</td>
<td>Solid and Haem MDT, Psychosocial MDT</td>
</tr>
<tr>
<td>Friday</td>
<td>Oncology - radiology meeting, Audit (am)</td>
<td>Unit management meeting, Scientific meeting</td>
</tr>
</tbody>
</table>

Non-Clinical Training Responsibilities (expectations of research/audit/teaching):
The post holder will be expected to contribute to the department's quality and governance programme including audit group, patient safety group and departmental guidelines group. We will strongly encourage trainees to be involved in the department's clinical research activities and will support them in developing their own research and if appropriate then support them in taking time out of programme to be involved in more substantive research leading to a higher degree thorough the Candlelighter's funded Research Fellowship Programme. Previous trainees within the department have competed significant clinical and laboratory-based research projects at MD and PhD level. The trainee will be expected to teach the LST doctors and medical students attached to the unit and give presentations at the weekly departmental meeting.
Further Training Opportunities:

| The post can also offer experience in paediatric palliative care with consultant supervision, based at Martin House Children's Hospice. |

Any further Information:

| The post and training programme will be adapted to accommodate the needs of the particular trainee |

Contact details for Unit:

| Telephone: | 0113 3928779 |
| E-mail: | martin.elliott1@nhs.net |

Curriculum:

Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: [https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties](https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties)