

## NTN Grid - Programme Information

### Paediatric Neurology 2019

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

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

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

*Please note: Programme submissions can be withdrawn or amended at any point until an offer of employment has been made to an applicant.*

#### Application Process

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

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

#### Contact Details

For specific sub-specialty information, please contact:

Dr Jean-Pierre Lin

Email: [jeanpierrelin@icloud.com](mailto:jeanpierrelin@icloud.com)

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

Abigail Wright  
(Sub-specialty Recruitment Coordinator)

Email: [ntn.grid@rcpch.ac.uk](mailto:ntn.grid@rcpch.ac.uk)  
Tel: (020) 7092 6139

Programme Description

Maximum Number of National Training Grid Appointments that may be made in 2019 for Paediatric Neurology	11
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Deanery	Programme of Training	Places available	Duration (Years)	Page
<b>East Midlands</b>	Nottingham University Hospitals University Hospital of Leicester	1	3.5	<a href="#">2</a>
East of England	Cambridge University hospital NHS Foundation Trust (Addenbrookes hospital) Great Ormond Street hospital NHS Foundation Trust	1	3.5	<a href="#">8</a>
<b>London</b>	St George's Hospital/Evelina Children's Hospital	1	3.5	<a href="#">13</a>
North West	RMCH/RPH SRFT	1	3.5	<a href="#">20</a>
<b>Northern</b>	Great North Children's Hospital NUTH NUTH/RVI	2	3.5	<a href="#">24</a>
Scotland West	Royal Hospital for Children Glasgow Institute of Neurological Sciences, QEUH, Glasgow Neurodisability CHCP, Glasgow	1	3	<a href="#">31</a>
Severn	Bristol Royal Hospital for Children / Southmead Hospital North Bristol Trust, Southmead Hospital	1	2.5-3.5	<a href="#">35</a>
<b>South East Scotland</b>	Royal Hospital for Sick Children, Edinburgh	1	3	<a href="#">39</a>
<b>Wales</b>	Children's Hospital for Wales, Cardiff Morrison Hospital, Singleton Neurosciences, UHW, Cardiff	1	3.5	<a href="#">43</a>
<b>Yorkshire and Humber</b>	Leeds Children's Hospital LGI St Luke's Hospital Bradford Leeds Community Trust	1	3.5	<a href="#">51</a>

# East Midlands

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Nottingham University Hospitals	Paediatric Neurology, Neurodisability & Neurosurgery	30	Gabby Chow <a href="mailto:Gabby.Chow@nuh.nhs.uk">Gabby.Chow@nuh.nhs.uk</a>	C	Y
Nottingham University Hospitals	Paediatric Neurology, Neurodisability & Neurosurgery	30	Manish Prasad <a href="mailto:Manish.Prasad@nuh.nhs.uk">Manish.Prasad@nuh.nhs.uk</a>	C	Y
University Hospital of Leicester	Paediatric Neurology	12	Nahin Hussain <a href="mailto:Nahin.Hussain@uhl-tr.nhs.uk">Nahin.Hussain@uhl-tr.nhs.uk</a>	C	Y

**Additional Information**

2 ½ years in Nottingham and 1 year in Leicester

## Programme Description

Subspecialty:	Paediatric Neurology
Base Unit:	Leicester Royal Infirmary, Leicester.
Deaneries involved:	East Midlands South; East Midlands North.

### Outline of Programme

1 years in paediatric neurology and elective attachments in Leicester, 2.5 years paediatric neurology/neurosurgery/Neurodisability in Nottingham.

This post allows the registrar to gain a broad experience by rotating between the Leicester Royal Infirmary and the Nottingham Children's Hospital. It is designed for a trainee with paediatric experience who is planning a career in paediatric neurology at consultant level.

The post is approved for Higher Specialist Training in Paediatric Neurology by CSAC

### Departmental Information

#### - Demographics

The Leicester paediatric neurology service is based in the Leicester Children's Hospital on the Leicester Royal Infirmary site. It provides secondary and tertiary services to the Leicestershire and Rutland communities. It also works in partnership with surrounding NHS Trusts to provide care to patients from further afield. Leicester Royal Infirmary has one of the fastest growing out patient and inpatient services in paediatric Neurology in the UK. We see nearly 5000 patients in our outpatient department. There are seven out patient clinics at Leicester and further outreach clinics at Coventry and Rugby. Almost all neurological conditions are seen in our patient population. The opportunities for training are immense.

#### - Team

3 WTE consultants in Paediatric Neurology.

Dr. Nahin Hussain, Consultant Paediatric Neurologist

Dr. Rajib Samanta Locum Consultant Paediatric Neurologist

Dr. Anil Israni Locum Consultant Paediatric Neurologist

Dr Rashid Saleem Clinical Assistant

Ms. Vicky Epilepsy Nurse Specialist

Mr. Richard Crawthorn Epilepsy Nurse Specialist

Ms. Ellen Wilford Paediatric Dietician – Ketogenic diet

#### - Supervisor(s)

Dr Nahin Hussain, Consultant paediatric neurologist

### Clinical Training Responsibilities

The Grid trainee will be responsible for arranging the admission of Neurology patients for inpatient and day case investigations, and for co-ordinating the in-patient care of neurology patients. Up to three sessions per week may be used for clinical attachment, arranged to fit in with the trainee's needs. The following attachments may be available:

1. Neurophysiology at the Leicester Royal Infirmary (LRI) – one sessions per week for 12 months.
2. Adult Neurology at LRI- rotation may have a devoted 6 months adult neurology slot but if the curriculum is modified so that adult neurology competences are gained over a longer time period, by trainees attending specific sessions in adult neuro. We will be happy to accommodate all recommendations if the syllabus were updated during the training programme.
3. Regional paediatric neuromuscular clinic
4. Genetics/Neurogenetics
5. Paediatric Psychiatry/Neuropsychology
6. Learning Disabilities
7. Sleep disorders
8. Ketogenic diet programme and video telemetry for complex epilepsy patients.
9. VNS clinic, Neurofibromatosis clinic and Out reach clinics at Rugby, Coventry

## Programme Description

10. Neurodisability- 6 months. This will be gained during their rotation at Nottingham.

### Workload / Rota Arrangements / Example Timetable

To maintain acute general paediatric skills the appointee will take part in the general paediatric middle grade on call duty rota (EWTD compliant; full shift 1:8). Rota details from sharon.d.collins@uhl-tr.nhs.uk

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	9.00-13.00 Paediatric Neurology Clinic	Ward work	Ward work  Admin	9.00 Neuromuscular Clinic (once a month)	9.00 Paediatric Neurology Clinic
PM	13: 00- 14:00- Paediatric Neuroimaging meeting  2pm M+M or Guidelines Ward work	Ward work  MDT meeting	Ketogenic Diet Clinic	12-2 pm Referral management meeting 2-4 pm EEG meeting & training	2.00 Paediatric Neurology Grand Round

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

Up to one session a week will be available for study, audit and research. Excellent research facilities are available. University hospital Leicester is now a lead site for several antiepileptic drug studies and other MCRN approved research projects. All our previous trainees have published and presented in National and International conferences. There is also a widely recognized International fellowship programme. The appointee will help with the teaching of paediatric neurology to medical undergraduate and postgraduate students and to other professionals. Training in teaching methods is offered as part of the regular SpR training programme.

### Further training opportunities

See above.

### Contact details for unit

Dr Nahin Hussain, Consultant paediatric neurologists, 0116 254 1414; nahin.hussain@uhl-tr.nhs.uk

## Programme Description

Subspecialty:	Paediatric Neurology
Base Unit:	Nottingham Children's Hospital
Deaneries involved:	EAST MIDLANDS

### Outline of Programme

This post allows the registrar to gain a broad experience by rotating between the Leicester Royal Infirmary and the Nottingham Children's Hospital. It is designed for a trainee with paediatric experience who is planning a career in paediatric neurology at consultant level.

The post is approved for Higher Specialist Training in Paediatric Neurology by CSAC

### Departmental Information

#### - Demographics

All acute paediatric services in Nottingham are provided at Queens Medical Centre Campus as part of the Nottingham Children's Hospital (NUH). The paediatric department is a busy one with approximately 10,000 in-patient admissions to the wards, 900 admissions to the NICUs and over 500 admissions to the PICU each year. 42,000 children attend the Paediatric ED each year - about 10,000 of these are self-referrals with acute medical problems. Thirty thousand children attend the Children's Out-patient Department each year. Children are also seen in the clinic at the Children's Disability Centre at the City Hospital. Children attend our service from Mid Trent which includes Lincolnshire, Nottinghamshire and Derbyshire. There are outreach clinics to Kings Mill Hospital, Burton and Lincoln.

The Paediatric Neurology service within The Nottingham Children's Hospital at Nottingham University Hospitals NHS Trust provides secondary and tertiary care for a population of over 2.25 million total population; 450,000 children and young people.

The following clinics are provided by our team:

General Paediatric Neurology

Epilepsy

Teenage Epilepsy

Neuromuscular- young children

Neuromuscular and spinal

Neuromuscular and Respiratory

Syncope

Headache

Ketogenic Diet

Neurodisability clinics, at the Child Development Centre and in Special Schools

Joint peripheral clinics across the region.

We also contribute to 6 multidisciplinary National Paediatric Ataxia Telangiectasia Clinics a year.

The service has strong clinical & research links with the adult Neurology and Paediatric Neurosurgery services at Queens Medical Centre (QMC) campus, and the Nottingham Paediatric Neurodisability service at the Children's Centre on our City Hospital campus. We are supported by a child friendly Clinical Neurophysiology Department offering a range of EEG services including ambulatory, portable, CFM and video-telemetry, spinal monitoring, PSG and MSLT, nerve conduction and EMG, evoked potentials, and autonomic testing. There is a world class Paediatric Neuroimaging service, including VNS compatible MRI, and 3T MRI. We are a trauma centre, paediatric neurosurgery centre, and paediatric neuro-oncology centre. We are part of the Midlands Children's Epilepsy Surgery Service network, based in Birmingham. We have a full range of support services including paediatric and neuro-pathology, paediatric physiotherapy and occupational therapy, paediatric speech and language therapy, paediatric dieticians including a ketogenic diet dietician, ward and out-patient play therapy, and

## Programme Description

paediatric neuropsychology. We work closely with on-site developmental and liaison child and adolescent psychiatry and psychotherapy.

Working in a Children's Hospital on the same site as the main (adult) University Hospital offers many advantages: "the best of both worlds", including easy access to facilities and expertise found in a large teaching hospital, including facilitated transition of patients to adult services, and regular clinical meetings with our adult neurology colleagues. We have regular regional epilepsy network (CEWT) and paediatric neurology network (Midland Trent) meetings.

- Team  
Nottingham  
Dr William Whitehouse, Associate Professor in Paediatric Neurology, University of Nottingham  
Dr Gabriel Chow, Consultant Paediatric Neurologist, Nottingham Children's Hospital.  
Dr Manish Prasad, Consultant Paediatric Neurologist, Nottingham Children's Hospital.
- Supervisor(s)  
Dr Gabriel Chow, Consultant Paediatric Neurologist, Nottingham

## Clinical Training Responsibilities

This post allows the registrar to gain a broad experience by rotating between Leicester Royal Infirmary and Nottingham Children's Hospital. It is designed for a trainee with paediatric experience who is planning a career in paediatric neurology at consultant level.

The post is approved for Higher Specialist Training in Paediatric Neurology by CSAC.

## Workload / Rota Arrangements / Example Timetable

The Registrar will take part in the middle grade General Paediatric on call rota in both centres.

E.g. in Nottingham, this is an example of the timetable:

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	9.00 Registrar teaching 9.30 Ward round	9.00 Paediatric Neurology Outpatients	Ward work	9.00 Neuroradiology/Neurology meeting 10.30 Adult neurology meeting	9.00 Teaching followed by WR
PM	4.00 Paediatric Neuroimaging	Ward work	EEG meeting/ CDC clinic	2pm M+M or Guidelines 4.00pm Grand Round	2.00 Admin

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

There are ample opportunities for research, audit and teaching at Nottingham. Our previous grid registrars have been able to develop these areas further and obtain publications in peer reviewed journals

## Further training opportunities

In Nottingham, three sessions per week will be used by the trainee to gain experience by attachment to the clinical and service departments most relevant to paediatric neurology. Each attachment would be arranged to fit in with the trainee's needs and last between three and six months.

Development of research interest relating to one of these areas would be encouraged.

We offer a wide experience including Ketogenic diet, Brain Injury, Neuromuscular, National Ataxia Telangiectasia, Syncope, Teenage Epilepsy and headache clinics. The Trainee will deliver 2-3 clinics/week alongside Consultants, contribute to multi-disciplinary assessment of children with complex needs and liaise with colleagues in Health, Education and Social Care.

### **Programme Description**

The following attachments would be available in Nottingham: Neuroradiology, Neuropathology, Neurosurgery, Genetics, Community Services and Neurodisability.

### **Contact details for unit**

Dr Gabriel Chow  
Consultant Paediatric Neurologist, Nottingham University Hospital  
Queen's Medical Centre  
Derby Road, Nottingham  
NG7 2UH  
Gabby.chow@nuh.nhs.uk



# East of England

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Cambridge University hospital NHS Foundation Trust (Addenbrookes hospital)	Paediatric Neurology including 6m Paediatric Neurodisability	24-36	Dr Manali Chitre  Manali.chitre@addenbrookes.nhs.uk	C	Y
Great Ormond Street hospital NHS Foundation Trust	Paediatric Neurology	6-12	TBD	O	Y

## Additional Information

The training period at Addenbrookes includes six months in neurodisability and competency-based time in adult neurology and child psychiatry. There is an option to spend 6-12 months in paediatric neurology at GOSH.

## Programme Description

Subspecialty:	Paediatric Neurology
Base Unit:	Addenbrookes Hospital
Deaneries involved:	East of England

### Outline of Programme

3.5 years for Paediatric neurology GRID training

### Departmental Information

There are 6 paediatric neurologists at Addenbrooke's working varied WTE

- **Dr Anna Maw** is the lead for the Acquired Brain injury (ABI) service. She has sessions with CCPNR (Cambridge Centre for Paediatric Neuropsychiatric rehabilitation). She co-leads the KD service and her research interests include Brain Injury and Metabolic disorders.
- **Dr Manali Chitre** is the departmental lead for foetal and neonatal neurology, immunology and neurovascular. Dr Chitre leads the VNS service and co-leads the ketogenic diet service. She is involved in Neurogenetics and stroke research. She is the regional advisor for Paediatric Neurology in the Eastern region and the key organiser for the 'Neurology Masterclass'
- **Dr Alasdair Parker** is the departmental lead and also a senior paediatric neurologist with great experience in epilepsy, movement disorders and medically unexplained/ psychogenic disorders. He leads the complex epilepsy, tuberous sclerosis and ketogenic diet services. His research interests include TS/ microcephaly and epilepsy.
- **Dr Gautam Ambegaonkar** is the lead for the headache service. He is also the ST4-ST8 training lead for the trust and the RCPCH college tutor. His research interests include neuromuscular disorders and childhood ataxias.
- **Dr Deepa Krishnakumar** is the lead for the regional paediatric neuromuscular neuro-oncology and mitochondrial disorders and co-shares the neuromuscular workload. She is the lead for Idiopathic Intracranial hypertension (IIH) services and the departmental lead for clinical governance and audits. Her research interests include IIH (idiopathic intracranial hypertension) and NF1.
- **Dr Pooja Harijan** is a locum consultant
- There are **3 clinical specialist nurses** working in the department – **Zoya Dowd (Epilepsy)**, **Jo Musson (neuromuscular)** and **Sharon Whyte (neurology)**

### Educational Supervisor(s)

Dr Alasdair Parker, Dr Deepa Krishnakumar, Dr Anna Maw, Dr Manali Chitre and Dr Gautam Ambegaonkar

### Clinical AND Training Responsibilities

Of the 3.5 years of GRID training in paediatric neurology, it is envisaged that **3 years will be spent primarily within Paediatric neurology. Six months will be spent in Neurodisability and competency-based time spent in adult neurology and Psychiatry.**

There will be opportunity to achieve the necessary competencies within the co-located adult neurology department with prior arrangement.

Child psychiatry training is also accessible but not co-located (Brookside Family Clinic which is only 800 metres away from the main hospital) and every effort is taken to ensure that trainees get appropriate opportunities to enhance their child psychiatry training as required by the competency framework both by attending this centre and during the course of their training at Addenbrookes (within the 3 ½ years in paediatric neurology).

Within the 3 ½ years spent in paediatric neurology, it is expected that core competencies would be easily fulfilled as the department offers quite diverse and specialised services (as highlighted above) in addition to being the regional paediatric neurology, epilepsy and neuromuscular referral centre-

## Programme Description

there is an opportunity to include 6-12 months of training at Great Ormond Street hospital within this rotation. It will be more useful to use this opportunity in the last 2 years of this rotation.

There are regular formal and informal high quality training opportunities accessible to trainees including weekly Neuroradiology meetings and monthly Complex cases review, Neurogenetic, Neurophysiology, Biochemistry, , Neuromuscular meetings and Research / Journal club meetings. In addition, there are also quarterly Neurohistopathology, Neuropsychiatry, and EPEN (Eastern Paediatric Epilepsy Network) meetings. We hold excellent yearly Neuromuscular, Mitochondrial study days and a Paediatric Neurology master class every 1-2 years.

Trainees completing the GRID training would be expected to be fully competent in almost all areas of paediatric neurology such as epilepsy, neuromuscular disorders, stroke, movement disorders, brain tumours and ABI, and in the limited areas (e.g. CESS) that experience is not available, then training will be arranged at GOSH.

### Neurodisability

The rotation will include a 6m placement in neurodisability based in Cambridge Community Services. This unit provides developmental and disability diagnosis and management for the local population in and around Cambridge and regional specialist clinics in cerebral palsy management, autism and paediatric orthopaedics, as well as the opportunity to learn about Botox treatment. There are close links with the child psychiatry unit which includes specialist developmental psychiatry services with particular expertise in autism and related developmental disorders. There is also a specialist child and adolescent mental health team for children with learning disabilities.

The community team comprises six consultants -

Dr Elaine Lewis, Dr Alison Sansome, Dr Rachel Bower and Dr Angharad Walters, Dr Jackie Taylor and Dr Katie Burton.

At present on call arrangements for this 6 months are likely to be at Hinchingsbrooke Hospital - a small secondary level unit with integrated community and acute paediatric services.

### Workload / Rota Arrangements / Example Timetable

There are usually 2 full time senior trainees attached to the department.

One of these are usually a GRID trainee and the other is a SPIN trainee/ Neurology or Neurodisability GRID trainee.

The paediatric neurology trainee is committed to the paediatric neurology department within working hours (9 am - 5 pm) during the week but will be expected to share the out-of-hours and weekend responsibilities with other middle grades in the department of general paediatrics as per the rota as in any other regional hospital.

There is no commitment to PICU/ NICU or ED / A&E for the neurology trainee during day time weekday hours though on certain rare occasions they may be called to cover the ED in case of an emergency or acute shortage of staff. This has to be negotiated and agreed with the paediatric neurology consultant on call by the rota manager. This is usually quite fair.

An example of the timetable is as follows:-

Monday	AM:	Registrar led neurology ward round
	PM:	Neurology clinic (2 - 3 new/ follow up patients)
Tuesday	AM:	Consultant led neurology ward round
	PM:	1 -2 patient only epilepsy clinic
Wednesday	AM:	Registrar led neurology ward round
	PM:	Neurology clinic (2 - 3 patients)

## Programme Description

Thursday	AM:	Registrar led ward rounds
	PM:	Training / teaching time
Friday	AM:	Consultant led neurology ward rounds
	PM:	Admin work/ SPA

In addition to the above there are the many departmental meetings (MRI etc etc) that offer excellent training opportunities.

During the neurodisability placement out of hours duties are in general paediatrics at Hinchingsbrooke Hospital, a small DGH approximately 20 miles from Cambridge. Cover here includes a level one neonatal unit. Out of hours duties will comprise a maximum of 30% of total hours.

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

There is a strong culture of encouraging training and learning within the paediatric neurology department from SSC medical students through to consultant grades. We have led the training regionally in the Eastern region as evident by the EPEN (Eastern Paediatric Epilepsy Network), EMG (Eastern Muscle Group) and ECHIN (Eastern Child Head Injury Network) meetings. The GRID/ SPIN trainee is expected to take an active role in these programmes by way of presentations/ case reviews.

Trainees are also encouraged/ empowered to enhance their own knowledge and teaching skills by leading in the training of medical students, FY doctors, non-neurology junior trainees and become PET 1 / PET2 trainers after attending the courses. Trainees are encouraged to write up cases/ case series and partake in original research (wherever possible) towards production of an original paper or at least a poster for the national BPNA Annual conference and the 2 yearly held EPNS conference.

The trainee will have enough opportunities to become competent in complex management issues and governance issues during the course of their training by participating actively in discharge planning meetings (along with Vicky Amiss-Smith - specialist discharge planning nurse for neurology) to enhance their independent decision-making capabilities - especially toward the end of their training.

## Further training opportunities

Trainees will have ample opportunities to participate in specialist clinics in paediatric neurology such as:-

Epilepsy clinic	Movement disorder clinic
Tuberous sclerosis clinic	Microcephaly clinic
Neuromuscular (NM) clinic	NM - Orthopaedic clinic
Ketogenic diet clinic	Vagal nerve stimulation clinic
Botox clinic	Neonatal neurology clinic
Acquired Brain Injury clinic	IIH clinic
Headache clinic	

The department of Neurosciences in Cambridge is world renowned with several high-profile personalities such as the chair of Neurosciences Prof Patrick Chinnery (world expert in mitochondrial disorders), Prof Lucy Raymond (genetics of early onset epilepsies), and Prof Geoff Woods (microcephaly and insensitivity to pain), Prof Eamonn Maher (PKAN related movement disorders) and Prof Massimo Zeviani (inherited metabolic disorders) who are all based at Addenbrookes.

Prof David Rowitch from UCSF is the Chair of Paediatrics. His research interests in Neonatal, Developmental neurology and stem cell research has resulted in enhanced collaboration between academic and clinical physicians in Paediatric Neurology and further boosted the profile of the department.

## **Programme Description**

The neurophysiology department is the largest and busiest in the region with 4 consultants and so are the PICU and the tertiary NICU. The neonatal department leads for the region in foetal medicine and cooling and has facilities for advanced imaging including tractography. There is on-going research in various areas including the use of optical EEG under Prof Topun Austin in the Evelyn centre.

## **Any further information**

Paediatric neurology training in the Eastern region and particularly Addenbrookes hospital is very exciting and enjoyable. The quality of life is one of the best in the country. All our previous trainees have provided a consistently good feedback about the training and teaching hitherto.

Interested applicants are welcome to apply for the post and are invited to contact the department directly or via their supervisor or mentor situated anywhere in the country or region.

We look forward to welcoming you in Cambridge and East of England region!

## **Contact details**

Dr Manali Chitre  
Consultant Paediatric Neurologist  
Tel: 01223 216662  
Fax: 01223 272141  
Email: [manali.chitre@addenbrookes.nhs.uk](mailto:manali.chitre@addenbrookes.nhs.uk)

# London

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
St George's Hospital/Evelina Children's Hospital	Neurology	42	Dr Ming Lim Ming.Lim@gstt.nhs.uk	C	Y

### Additional Information

There will be dedicated adult neurology sessions.

Following modifications to the curriculum, the programme will facilitate trainees gaining adult neurology competencies over a longer period of time

Job descriptions for both units available.

## Programme Description

Sub-specialty:	Paediatric Neurology
Base Unit:	Evelina London Children's Hospital, GSTT NHS Foundation Trust
Deaneries involved:	London

## Outline of Programme

This is a well-established programme, approved by the College Specialist Advisory Committee in Paediatric Neurology (2001). This region includes the following training centres for Neurology: Evelina London Children's Hospital (Guy's & St Thomas' Hospital Trust), Kings College and St George's Hospitals.

This post will incorporate 30 month training at Evelina Children's Hospital and 12 month training at either King's College or St George's Hospital.

St Thomas' and Guy's NHS Trust – the largest trust in the NHS, provides a full range of services to the local population as well as receiving national and international referrals. Guy's, King's & St Thomas' medical school is the medical college of King's College – University of London. Teaching and research in Paediatrics is carried out on all three sites.

The Specialist Trainee in Neurology will take part in the resident on-call for Paediatrics (Full shift rota). This may include duties in General and Specialised Paediatrics (not ICU).

## Departmental Information

### - Demographics

Evelina London Children's Hospital at Guy's & St Thomas' – the children's hospital is based on the St Thomas' Hospital site. There is a large children's intensive care unit offering a regional retrieval service. A close working relationship exists between ICU and the neurology department. Other specialist services include Metabolic diseases, Cardiology and Cardio-Thoracic surgery, Nephrology and Urology, Neonatology, Surgery, Genetics/Prenatal, Ear Nose and Throat, Orthopaedics, Spinal Surgery and Cleft Lip & Palate. Outpatients > 4500 per annum, inpatients > 800 per annum

### - Team

Head of service: Dr Charlie Fairhurst

Deputy head of service: Dr Elizabeth Wraige (neuromuscular, cerebrovascular disease)

Paediatric Neurologists: Dr Jean-Pierre Lin (complex motor disorders), Dr Keith Pohl (complex dysphagia, neurovascular complications of sickle cell disease), Dr Elaine Hughes (epileptology), Dr Ruth Williams (epileptology), Dr Karine Lascelles (epileptology), Dr Heinz Jungbluth (neuromuscular), Dr Vasantha Gowda (neuromuscular), Dr Tammy Hedderly (complex communication disorders and tic disorders), Dr Ming Lim (neuro-inflammation), Dr Rahul Singh (neonatal neurology, cerebrovascular disease)

Neurodisability and Neurodevelopmental Paediatricians: Dr Hilary Cass (neurodisability), Professor Gillian Baird (neurodevelopmental paediatrics), Professor Paul Gringras (neurodevelopmental paediatrics), Dr Michael Absoud (neurodevelopmental paediatrics)

### - Supervisor(s)

Lead Educational Supervisors: Dr Vasantha Gowda and Dr Rahul Singh

Regional/denery rep; Dr Ming Lim

## Clinical Training Responsibilities

This is a well established training programme which on completion fulfils the training criteria for Paediatric Neurology. The main objectives are provision for trainees to:

1. Achieve competence in the management of children with acute and chronic neurological disorders
2. Gain relevant experience in adult neurology, child psychiatry and neurodisability

## Programme Description

3. Understand principles of neuroimaging and neurophysiology techniques used in Paediatric Neurology practise
4. Obtain experience in teaching junior doctors and medical students
5. Contribute to departmental audit and research

## Workload / Rota Arrangements / Example Timetable

Full shift and compliant with EWTD. This post involves covering other specialties including general paediatrics, nephrology and cardiology on-call. To achieve their training requirement, the trainee will be expected to:-

1. Attend weekly multidisciplinary ward meetings
2. Participate in weekly neuroradiology and neurophysiology meetings
3. Attend neuroradiology and neurophysiology reporting sessions
4. Assist with ward based teaching of junior doctors and medical students
5. Attend and contribute to weekly neuroscience meetings and paediatric grand rounds
6. Provide middle-grade cover on the neurology ward and day case unit. This includes undertaking daily ward rounds, supervising junior trainees and providing advice on the management of children with neurological problems admitted to the intensive care unit or other paediatric sub-specialties. It is unusual to have fixed outpatient commitments whilst attached to the ward
7. Undertake Consultant supervised general and specialist neurology out-patient clinics

### A representative timetable

#### CLINIC COVER ROLE

	Morning	Lunch	Afternoon
Monday	Epilepsy Clinic	Grand Round	General Neurology/ movement disorder Clinic
Tuesday	Ward meeting/ general neurology clinic	EEG meeting	Neuroradiology meeting, neuroscience or genetics meeting
Wednesday	Neuromuscular clinic		General neurology clinic
Thursday	Neuroinflammation clinic		General neurology clinic
Friday	Audit/ administration		Audit/ administration

NB The clinics would be shared with the other trainees with an average of 4 clinics a week

#### ACUTE WARD COVER ROLE

	Morning	Lunch	Afternoon
Monday	Consultant Ward Round	Grand Round	Ward Liaison
Tuesday	Ward meeting/ general neurology clinic	EEG meeting	Neuroradiology meeting, neuroscience or genetics meeting
Wednesday	Ward round		Consults
Thursday	Ward round		Administration
Friday	MDT and Consultant ward round		Administration

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

The trainee is expected to contribute to departmental audit and research,

### Further training opportunities

A dedicated block of adult neurology training



## **Programme Description**

Modules in Child Psychiatry and Neurodisability tailored to the individual trainees training requirements

## **Any further information**

The more enthusiastic trainee will be encouraged to develop individual proposals for a period of dedicated research working towards a higher degree

## **Contact details for unit**

Dr Ming Lim MRCP PhD

Consultant Paediatric Neurologist

Evelina Children's Hospital

Children's Neurosciences Centre, Newcomen Centre at St Thomas', Staircase D South Wing,

St Thomas' Hospital, London SE1 7EH

Tel: 02071887188 (ext 84002 or 3995)

ming.lim@gstt.nhs.uk

## Programme Description

Sub-specialty:	Paediatric Neurology
Base Unit:	St George's Hospital NHS Trust
Deaneries involved:	London

### Outline of Programme

This is a well-established programme, approved by the College Specialist Advisory Committee in Paediatric Neurology (2001). This region includes the following training centres for Neurology: Evelina London Children's Hospital (Guy's & St Thomas' Hospital Trust), Kings College and St George's Hospitals. This post will incorporate 30 month training at Evelina Children's Hospital and 12 month training at either King's College or St George's Hospital. The Specialist Trainee in Neurology will take part in the resident on-call for Paediatrics (Full shift rota). This may include duties in General and Specialised Paediatrics (not ICU).

### Departmental Information

- Demographics  
St Georges Healthcare Trust leads inpatient and outpatient paediatric neurology services in the SW Thames region. With a team of 3 dedicated consultant neurologists operating from a neurosciences ward, the service aims to provide tertiary neurology services for the region and to support the other tertiary services provided by St Georges Hospital. St Georges Hospital provides secondary care for SW Thames covering a population of 600,000. There is a diverse local population of mixed socioeconomic and ethnic groups. The hospital also provides tertiary services for a significantly larger catchment area including SW Thames and Surrey (approximate population 4 million).
- Team  
Head of service: Dr Richard Chavasse, Consultant Respiratory Paediatrician  
Paediatric Neurologists: Dr Antonia Clarke, Dr Penny Fallon, Dr Tim Kerr  
Neurosurgeons: Mr Simon Stapleton and Mr Andrew Martin  
Nurse specialist for neuroscience: Emma Crowley  
Nurse specialist for paediatric epilepsy: Miaora Albery
- Supervisor(s)  
Lead Educational Supervisor: Dr Antonia Clarke  
Clinical Supervisors: Drs Clarke, Fallon and Kerr

### Clinical Training Responsibilities

This is a well established training programme which on completion fulfils the training criteria for Paediatric Neurology. The main objectives are provision for trainees during their attached at SGH to:

1. Achieve competence in the management of children with acute and chronic neurological problems
2. Gain relevant experience in child psychiatry (3 months equivalent)
3. Understand principles of neuroimaging and neurophysiology techniques used in Paediatric Neurology practise
4. Contribute to departmental audit

### Workload / Rota Arrangements / Example Timetable

Full shift and compliant with EWTD. This post involves covering other specialties including general paediatrics. To achieve their training requirement, the trainee will be expected to:-

1. Attend weekly multidisciplinary ward meetings
2. Participate in weekly neuroradiology meetings
3. Attend neuroradiology and neurophysiology reporting sessions
4. Assist with ward based teaching of junior doctors and medical students

## Programme Description

5. Attend and contribute to weekly neuroscience meetings and paediatric grand rounds
6. Provide middle-grade cover on Nicholls/Ocean Ward. This includes undertaking daily ward rounds, supervising junior trainees and providing advice on the management of children with neurological problems admitted to the hospital
7. Undertake Consultant supervised general and specialist neurology out-patient clinics both at St George's and regionally

There are 71 in-patient and 12 day case beds which are used for children with both medical and surgical conditions including ENT and Ophthalmology. Other facilities comprise the Dragon Children's Centre (outpatients), Child Development Centre, Paediatric Intensive Care Unit, Regional Neonatal Intensive Care Unit and Paediatric Accident and Emergency Department/Paediatric Assessment Unit (PAU).

## A representative timetable

### Each Day

08.30	Handover of paediatric patients	Child health dept
16.30	Handover to night staff	Child health dept

	Morning	Lunch	Afternoon
<b>Monday</b>	09.30 Neuroradiology meeting AMW 11.30 Day case investigations/inpatient reviews	Neuropsychology meeting once a month	14.00 Neurology ward round
<b>Tuesday</b>	09.00 Neurology clinic SGH/outreach clinic SGH/DGH		14.00 Psycho-social meeting Ocean/Nicholls
<b>Wednesday</b>	09.00 Outreach Clinic DGH		16.30 Neurogenetics (1 <sup>st</sup> in the month only)
<b>Thursday</b>	08.30 Journal club Child Health 09.00 Neurology clinic CDC	13.00 Child safeguarding meeting	14.00 Neurology ward round Ocean/Nicholls
<b>Friday</b>	08.30 Neuro-oncology meeting NS radiology seminar room 10.30 EEG meeting (2 <sup>nd</sup> in month) EEG dept 11.30 Adult Neurology Grand round	13.00 Academic meeting/ Simulation/ Clinical Governance Child health	Admin.

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

The trainee is expected to contribute to departmental audit and research  
The Neurosciences and Paediatric Departments are actively engaged in teaching and medical students are attached in groups for periods of 6 weeks. Speciality Trainees are encouraged to teach these students informally.

There are regular weekly postgraduate teaching rounds, clinical meetings, formal teaching sessions for Speciality Trainees, a radiology meeting, a journal club and medical audit/clinical governance

## **Programme Description**

meetings. At the time of the Membership examination special teaching sessions are undertaken by consultants and specialist registrars to help prepare Speciality Trainees. Speciality Trainees are encouraged to present at clinical meetings, the journal club and clinical governance meetings, as well as receiving teaching.

The Academic Department is involved in a number of research programmes. Speciality Trainees are not expected as a matter of course to undertake research during their post but may have an opportunity to write a case report and/or explore options for undertaking research in future.

## **Further training opportunities**

Module in Child Psychiatry tailored to the individual trainees training requirements

## **Any further information**

The more enthusiastic trainee will be encouraged to develop individual proposals for a period of dedicated research working towards a higher degree

## **Contact details for unit**

Dr A Clarke	Antonia A Clarke <Antonia.Clarke@stgeorges.nhs.uk>	Consultant Paediatric Neurologist
	0208 725 0339/2931	
Dr P Fallon	Penny Fallon <Penny.Fallon@stgeorges.nhs.uk>	Consultant Paediatric Neurologist
Dr T Kerr	Tim.Kerr@stgeorges.nhs.u	Consultant Paediatric Neurologist

# North West

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
RMCH	Paediatric Neurology	24	Gary McCullagh Gary.mccullagh@mft.nhs.uk	C	Y
RMCH/RPH	Paediatric Neurodisability	12	Gary McCullagh <a href="mailto:Gary.mccullagh@mft.nhs.uk">Gary.mccullagh@mft.nhs.uk</a> Christian DeGoede Christian.degoede@lthtr.nhs.uk	C	Y
SRFT	Adult Neurology	6	Matthew Jones Matthew.jones@srft.nhs.uk	C	Y

## Additional Information

24 Months - Paediatric Neurology at Royal Manchester Children's Hospital

12 Months - Paediatric Neurodisability at Royal Manchester Children's Hospital and/or Royal Preston Hospital

6 Months - Adult Neurology at Salford Royal Hospital

Exact sequence of rotations will depend on trainee's needs and availability of the various posts.

## Programme Description

Subspecialty:	Paediatric Neurology
Base Unit:	Royal Manchester Childrens Hospital
Deaneries involved:	North West

### Outline of Programme

The Manchester Paediatric Neurology training program has always been popular and has evolved to meet the needs of our future paediatric neurologists. As the training curriculum changes over the coming years the Manchester program will evolve to continue to provide excellent training. The current scheme offers: -

24 months Paediatric Neurology- Royal Manchester Children's Hospital

12 months Paediatric Neurodisability - Royal Manchester Children's Hospital and/or Royal Preston Hospital

6 months Adult Neurology- Salford Royal Hospital

### Departmental Information

- Demographics  
Tertiary centre for 5 million population in North West. Around 3500 outpatients (30% new referrals), 325 day cases, 250 inpatients plus involvement with other clinical teams patients. Outreach clinics are done in 14 district hospitals.
- Team  
7.6 WTE consultants at RMCH and 2 at Royal Preston Hospital.
- Supervisor(s)  
Dr G McCullagh RMCH

### Clinical Training Responsibilities

RMCH - A "hot week" system operates in which the trainee covers neurology in-patients and referrals from other specialities for 1 week in 4 with no outpatient commitments. This provides an opportunity for experience of the assessment, investigation and management of children with acute neurological conditions and neurological complications of other conditions. Liaison with other colleagues (particularly in neurosurgery, metabolic disease, oncology, PICU, cardiology, general paediatrics and child psychiatry) about investigation and management is a key role.

In the other weeks there are outpatient clinics and a session in child psychiatry. One afternoon per week there is a combined ward round and teaching. There is a weekly ABI ward round, neuroradiology meeting, a monthly neurogenetics and a monthly muscle biopsy meeting. There are subspeciality clinics in Epilepsy, ABI, Ketogenic Diet, Neuroimmunology, Neurovascular, Tuberous Sclerosis & Neuromuscular disease. There is a monthly epilepsy surgery meeting. RMCH has been commissioned (jointly with Alder Hey) as one of 4 epilepsy surgery centres for England. Supervised neurophysiology sessions with a Consultant Neurophysiologist are available.

The trainee will work within the multidisciplinary team including nurse specialists, physiotherapists, speech and language therapists, occupational therapists, clinical psychologists, dieticians and orthotists.

Paediatric Neurodisability Training (RMCH and RPH) - in conjunction with multiple regional units including special schools, there are opportunities to attend a variety of specialist services. Experience is available in ophthalmology, audiology, orthopaedics, ENT, Community Paediatric, Neurofibromatosis, Tic Disorders etc.

Royal Preston Hospital - Offers the option of tertiary neurodisability sessions with access to services and training opportunities at Alder Hey Children's Hospital. This is a largely out-patient based service. Trainees work closely with the two Consultant Paediatric Neurologists and other members of the MDT

## Programme Description

A comprehensive teaching programme is offered in conjunction with the Adult Neuroscience service based at Preston hospital. Further opportunities are available in Ophthalmology, Audiology, Psychology and Neurophysiology.

Adult Neurology at Salford Royal Hospitals (Regional Neuroscience centre) includes an on-call commitment at RMCH. The department of neurology at Salford Royal Hospital is a large department with 23 consultant neurologists. Neurosurgery is co-located and there is a department of neurophysiology with 3 consultant neurophysiologists and a large department of neuroradiology. There are subspecialty clinics in epilepsy, movement disorders, neuromuscular disease, myasthenia, multiple sclerosis.

There is a weekly neuroradiology meeting and an academic teaching programme one afternoon per week with a mixture of case presentations and invited speakers. The Adult Neurology component of the program is currently flexible and allows the trainee to develop further subspecialty interests if appropriate.

## Workload / Rota Arrangements / Example Timetable

### Royal Manchester Children's Hospital

	Monday	Tuesday	Wednesday	Thursday	Friday
A M	Neuromuscular clinic or general neurology clinic	Epilepsy clinic alt weeks	General Neurology/NF clinic	Child Psychiatry or Rehabilitation MDT meeting	Research/audit or ward work
PM	General neurology clinic alt weeks	Grand Round Neurology teaching/	Ward work/admin	Radiology meeting Ward round	Consultant ward round EEG reporting

When on hot week (1 in 4 weeks) duties are in-patients only with release for child psychiatry sessions depending on cross cover from other registrars. The clinics and additional sessions are varied during the 3<sup>rd</sup> and 4<sup>th</sup> years of training to suit individual interests.

### Royal Preston Hospital

	Monday	Tuesday	Wednesday	Thursday	Friday
A M	Special School 2 <sup>nd</sup> & 4 <sup>th</sup> Neuromuscular clinic 3/yr Neurosciences Epilepsy meeting	General Neurology clinic 12.30 Lunchtime departmental meeting	Team meeting Ward round 11.00 Teaching 11.30 Neuroradiology meeting	Gait clinic 1 <sup>st</sup> or 2 <sup>nd</sup> Or other district clinic	Botulinum clinic ¼ Joint neurodisability clinic 4/yr
PM	Blackburn Clinic 2 <sup>nd</sup> 4 <sup>th</sup>	Ophthalmology clinic 16.00 Manchester Neurology teaching	Peripheral Clinic 1 <sup>st</sup> & 3 <sup>rd</sup>	Neurodisability clinic Paediatric teaching Joint Orthopaedic clinic 1/8 Joint neurosurgical clinic 1 <sup>st</sup>	Joint epilepsy clinic 4/yr

## Programme Description

On-call commitments are with General Paediatrics

### ADULT NEUROLOGY (current program- likely to change)

	AM	PM
Monday	MS / Muscle clinic	Peripheral Nerve clinic
Tuesday	Movement disorder clinic	RMCH neurology grand round & teaching
Wednesday	General neurology clinic/myasthenia clinic	General Neurology
Thursday	Neurogenetics	Ward work/ patient review
Friday	MS clinic	Academic meeting

On-call commitments are at Royal Manchester Children's Hospital

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

The department is actively involved in several research projects and involvement with these is encouraged. GCP training is available. Participation in audit and teaching is expected with regular contributions to departmental teaching and an annual audit project. The Paediatric Neurology team organise regular regional study days, which trainees are encouraged to contribute to.

### Further training opportunities

There are close links with many other departments in this large tertiary hospital and arrangements can be made to attend sessions with them e.g. ophthalmology, genetics, metabolic disease. Attendance at outreach clinics and the David Lewis Centre for Epilepsy are expected.

### Any further information

Manchester is a superb place to live and work. The city is a dramatic mix of old and new. Manchester is one of the world's most innovative, original and exciting cities in the UK.

Central Manchester University Hospitals Foundation NHS Foundation Trust (CMFT) comprises Royal Manchester Children's Hospital (RMCH), Manchester Royal Infirmary, St Mary's Hospital, Manchester Royal Eye Hospital, the University Dental Hospital and Trafford General.

Royal Manchester Children's Hospital (opened July 2009) is one of the largest purpose built Children's Hospitals in Europe. It houses paediatric tertiary services for the children of North West Region and sits in close proximity to Manchester University. Tertiary neonatal care and neonatal surgery are provided at the adjoining St Mary's Hospital. The Eye Hospital is also on this campus allowing close communication.

### Contact details for unit

Gary McCullagh 0161 701 2346 gary.mccullagh@mft.nhs.uk



# Northern

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Great North Children's Hospital	Neurology	21	Dr Anna Basu (anna.basu@ncl.ac.uk)	C	Y
Great North Children's Hospital	Neurodisability	12	Drs Anita Devlin, Yasmin De-Alwis and Jeremy Parr Yasmin.dealwis@nuth.nhs.uk	C	Y
NUTH	Child Psychiatry	3	Dr Eleanor Smith Eleanor.smith@ntw.nhs.u	C	Y
NUTH/RVI	Adult Neurology	6	Dr Rhys Thomas Rhys.thomas@nuth.nhs.uk	C	Y

## Additional Information

The paediatric neurology grid post involves training in several different areas relevant to paediatric neurology and these include child psychiatry, adult neurology and tertiary level neurodisability. There are specified training requirements for each of these areas, but the timing of this training within the programme is negotiable.

## Programme Description

Subspecialty:	Paediatric Neurology
Base Unit:	Royal Manchester Childrens Hospital
Deaneries involved:	North West

### Neurology Grid Trainee: Child And Adolescent Psychiatry Post – 3 months

#### Service Description

The Complex Neurodevelopmental Disorders Service (CNDS) is a tertiary clinical academic service based within Northumberland, Tyne and Wear (NTW) NHS Foundation Trust. CNDS is commissioned by NHS England to provide second opinion assessments for Autism Spectrum Disorder (ASD) for children and young people from the North East of England and Cumbria. The CNDS team also provide consultation and management advice for children and young people with established diagnoses of ASD who require more specialist input than can be provided by their locality Child and Adolescent Mental Health Service (CAMHS) or Paediatric team.

Outpatient assessments are completed at the CNDS clinical base at Walkergate Park. The Early Years Intensive Group, a classroom setting, provides day patient services for children under the age 8 who require more detailed assessment and/or intervention. The team also undertake clinics at the Great North Children's Hospital and where required travel to complete assessments at clinical bases, education settings, inpatient units and patient homes across the region.

#### CNDS Team

The CNDS team consultant team includes psychiatry, psychology and paediatrics, as detailed below.

- 1.0 Consultant Child and Adolescent Psychiatrist (Dr Eleanor Smith – supervisor for post)
- 1.0 Consultant Clinical Psychologist (Dr Vicki Grahame)
- 0.2 Neurodisability Paediatrician (Dr Jeremy Parr)
- 0.5 Consultant Learning Disability Psychiatrist (Currently Vacant)

The CNDS multidisciplinary team is made up of the following professional groups. All team members are based at Walkergate Park.

- Clinical Psychologists
- Speech and Language Therapists
- Occupational Therapists
- ASD Specialist Nurses
- ASD Specialist Teacher
- ASD Parent Support Advisor
- Psychiatry Core Trainee
- CAMHS Higher Trainee
- Assistant Psychologists

#### Clinical Training Opportunities

This post will provide the trainee with experience of undertaking second opinion assessments for Autism Spectrum Disorder (ASD) for children and young people across the ability range. This assessment work will involve the use of a number of standardised assessments including the Autism Diagnostic Observation Schedule, Autism Diagnostic Interview – Revised and Psychometric assessments. The team also undertake any additional assessment necessary to clarify individual neurodevelopmental profiles (e.g. Speech and Language Assessment, Occupational Therapy Assessment) and diagnose co-morbid psychiatric disorder. Home visits and school observations are completed for all patients referred to the team. This provides opportunities to observe children and young people across a range of settings.

#### Other Clinical Opportunities

## Programme Description

In addition to the clinical work undertaken by the CNDS team it is expected that the trainee will also arrange to spend time with other clinical teams to ensure that their experience reflects the range of psychiatric disorders seen within Child and Adolescent Mental Health Services. NTW has a range of community and more specialist mental health services for children and young people including:

- Community Child and Adolescent Mental Health Services
- Adolescent Bipolar Service - a second opinion service for children and young people with mood disorders, collocated with CNDS team at Walkergate Park.
- Intensive Community Treatment Service - provides intensive home based treatment for children and young people with mental health difficulties.
- Child and Adolescent Psychiatry Inpatient Services
- Adolescent Forensic Services - inpatient and specialist outpatient services

## Non-Clinical Training Opportunities

The trainee would be encouraged to attend the Regional CAMHS Higher Trainee Academic Programme, a weekly postgraduate teaching programme held at Walkergate Park.

The CNDS team offer SSC and elective placements for undergraduate medical students from Newcastle University. The team also support students from a number of other professional disciplines. The trainee will be encouraged to contribute to the teaching provided for students attached to the team.

Where appropriate the trainee will have the opportunity to attend CNDS business meetings. This will provide an opportunity to think about management skills and strategic planning of clinical services.

## Contact Details for Post

Dr Eleanor Smith  
Consultant Child and Adolescent Psychiatrist  
Complex Neurodevelopmental Disorders Services  
Walkergate Park  
Benfield Road  
Newcastle upon Tyne  
NE3 1AT

Tel: 0191 2875260

Email: [Eleanor.smith@ntw.nhs.uk](mailto:Eleanor.smith@ntw.nhs.uk)

## Programme Description

Sub-specialty:	Paediatric Neurology - Neurodisability
Base Unit:	Great North Children's Hospital, RVI, Newcastle upon Tyne Hospitals Foundation Trust
Deaneries involved:	Northern

The trainee will be based in the Child Development Centre and will contribute to both the Regional Neurodisability clinics and the Newcastle Neurodisability service. The trainee will work in and learn from a multi-disciplinary team of highly experienced, allied health professionals in the assessment and management of children and young people presenting with posture, movement, vision, dysphagia and a variety of neurodevelopmental disorders. These include cerebral palsy, learning disability, autistic spectrum and behavioural disorders. Specialist experience is provided in the comprehensive posture and movement service in close collaboration with orthopaedics and intrathecal baclofen service, developmental vision clinic, held jointly with ophthalmology and the feeding clinic, including assessment of dysphagia with videofluoroscopy, held jointly with gastroenterology

### Tertiary Multi-disciplinary Neurodisability clinics:

Postural Assessment Clinic-MDT assessment of all new referrals to postural service and follow up of non ambulant children.

Ambulant clinic- MDT assessment of posture and movement by video gait analysis and give advice on treatment and management options including Botulinum Toxin injections.

Procedure clinic - Targeted Botulinum toxin injections to previously selected patients under safe sedation.

Upper limb clinic- MDT, functional assessment of upper limb using a toolbox of assessments including Assisting hand assessment (AHA) and advice on further management/treatment.

Joint Orthopaedic clinics - Multi professional assessment of children who have fixed deformities, hip migration, leg length discrepancies and complex disability needing multilevel surgery.

Vision clinic -Jointly with consultant Ophthalmologist, orthoptist and optometrists. The children seen have variety of disability including communication difficulties whose vision is hard to test, Cerebral visual impairment- functional vision is tested.

Dysphagia clinic- a multidisciplinary clinic run once a month for children referred with aspiration/swallow assessment.

Neurodevelopment clinic a general clinic with patients with a wide spectrum of neurodevelopmental problems.

School clinics - The trainee will have opportunity to work with the community paediatric team and attend the local specialist school clinics.

Regional Complex Neurodevelopmental Service (Autism Spectrum Disorders) (weekly), in which the trainee will gain experience in a regional service offered by an integrated Paediatric/CAMHS team.

They will have responsibility to provide consultation and continuity of care in children with complex neurodevelopmental disorders who are admitted to GNCH under other sub-specialty teams.

### Consultants:

Dr Anita Devlin, Consultant paediatric neurologist

Dr Yasmin de Alwis, Consultant Neurodisability paediatrician. Yasmin.dealwis@nuth.nhs.uk

Dr Jeremy Parr, Consultant Neurodisability paediatrician

## Programme Description

Sub-specialty:	Paediatric Neurology
Base Unit:	Great North Children's Hospital, RVI, Newcastle upon Tyne Hospitals Foundation Trust
Deaneries involved:	Northern

### Outline of Programme

The Newcastle grid post in paediatric neurology is a 3.5 year training programme and comprises training in paediatric neurology (21months), child psychiatry (3 months), tertiary level neurodisability (12 months) and adult neurology (6 months). The timing of these placements is negotiable and it is possible to work placements in parallel e.g. a placement of 12 months of neurodisability and paediatric neurology with a 50:50 split. Such arrangements are facilitated by the proximity of services on one site at the new Great North Children's Hospital completed in 2010.

### Departmental Information

- Demographics  
Clinical service provides tertiary paediatric neurology care for a population of approximately 3 million in North East England, North Yorkshire and Cumbria
- Team  
3 full time NHS consultant paediatric neurologists (Pang/Devlin(neurology/neurodisability)/Roncero)  
4 academic paediatric neurologists (Eyre/Forsyth/McFarland/Basu)  
1 full time NHS consultant in paediatric neurodisability (De Alwis)  
1 academic in paediatric neurodisability (Parr)  
Muscle team (Straub/Guglieri/Bettolo)
- Supervisor(s)  
3 yearly rotation of supervising responsibilities. Currently Dr Anna Basu

### Clinical Training Responsibilities

The post occupant will have, on average, two outpatient sessions per week with ongoing responsibility for the care of patients, under the supervision of the relevant consultant. Participation in the dedicated muscle, epilepsy (including ketogenic diet) and neurometabolic clinics is encouraged. Inpatient work will include day to day responsibility for the management of inpatients in dialogue with the responsible consultant and supervising the more junior trainees. Consultations on inpatients under care of other consultants at Great North Children's Hospital and Freeman Hospital will also be undertaken.

### Workload / Rota Arrangements / Example Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
am	Outpatient clinic	Outpatient clinic	Departmental meeting Ward round	Neuroradiology Neuroscience meeting	Ward round Neuroradiology / Neurophysiology
pm	Consultant ward round	Elective	Muscle clinic (6 months) Clinical teaching	Ward work	Administration

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

Regular teaching opportunities include weekly clinical meetings, journal clubs and topic teaching in paediatric neurology, plus weekly clinical meetings and grand rounds in adult neurology. The post-holder will also be welcome at adult neurology specialist registrar training. The successful applicant will also be expected to participate in the teaching of undergraduates and junior postgraduate staff, and paramedicals. The post-holder will be expected to engage in regular departmental audits.

**Further training opportunities**

Specialist clinics in Mitochondrial Disease, Neuromuscular disease, Movement disorders, Neurogenetics and Neuroimmunology

**Any further information**

**Contact details for unit**

Dr Anna Basu  
Department of Paediatric Neurology  
Children's Department  
Great North Children's Hospital, RVI  
Queen Victoria Road  
Newcastle upon Tyne  
0191 2821375  
anna.basu@ncl.ac.uk

Subspecialty:	Adult Neurology
Base Unit:	Institute of Neurological Sciences, QEUH, Glasgow
Deaneries involved:	Northern

**Outline of Programme**

**Adult Neurology Placement**

The placement is based at the RVI, Newcastle upon Tyne and provides a wealth of training opportunities. The trainee, whilst supernumerary, has the opportunity to attend ward rounds on the regional in-patient unit, consults (including ITU), teaching, multidisciplinary team meetings (including epilepsy surgery MDT meetings), Grand Rounds (with active participation and opportunities to present) and a range of general and specialist clinics. This includes neuroinflammatory clinics, movement disorder clinics, epilepsy clinics, headache clinics, and sleep disorders clinics.

Brief attachments to the Stroke Unit and to the Adult Neurorehabilitation Inpatient Service at Walkergate Park are also arranged within the 6 month period.

**Workload / Rota Arrangements / Example Timetable**

	MON	TUES	WED	THURS	FRI
<b>AM</b>	Neuroinflamm clinic	Mitochondrial MDT	EEG MDT  Ward work/self-directed learning  (alternate weeks with below)  Movement disorders clinic	Ward  1100 Epilepsy surgery MDT (third Thurs of the month)  1220 XR meeting 1330 in Sir James Spence LT	General neurology clinic
<b>PM</b>	Self-directed learning/ward work	Mitochondrial clinic	1300 Epilepsy/first seizure clinic	Grand Round: Cases/teaching	Ward/SDL

**Lead Consultant:** Dr Rhys Thomas

# Scotland West

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Royal Hospital for Children Glasgow	Paediatric Neurology	18-24	Prof Sameer Zuberi sameer.zuberi@nhs.net	C	Y
Institute of Neurological Sciences, QEUH, Glasgow	Adult Neurology	3-6	Prof John Paul Leach johnpaul.leach@ggc.scot.nhs.uk	C	Y
Neurodisability CHCP, Glasgow	Neurodisability	6	Dr Allyson Ramsay Allyson.ramsay@ggc.scot.nhs.uk	C	Y
Royal Hospital for Children	Child Psychiatry	3-6	Dr Elaine Lockhart Elaine.lockhart@ggc.scot.nhs.uk	C	Y



Sub-specialty:	Paediatric Neurology
Base Unit:	Fraser of Allander Neurosciences Unit, Royal Hospital for Children, Glasgow
Deaneries involved:	West of Scotland

### Outline of Programme

The paediatric neurology training programme is based within the Royal Hospital for Children Glasgow. There is a dedicated specialised neurosciences clinic (Clinic 1) co-located with a busy EEG department and inpatient neuroscience beds on ward 3A co-located with neurosurgery. Training in adult neurology, child psychiatry and complex neurodisability to achieve required competencies is available on this campus.

Paediatric Neurology: Minimum 2 years with Paediatric Neurology and allied Neurology Specialist Health Professionals. This may be extended to 2.5 years depending on previous neurodisability training. (see below for details).

Neurodisability: 6 months neurodisability either at one of the CDCs (Dr. Rennie or Dr Ramsay) or incorporated into paediatric neurology post at FANU (see below).

Adult neurology: 3-6 Months at Institute of Neurological Sciences, Queen Elizabeth University Hospital Campus Glasgow (same campus as RHC) (Prof John Paul Leach)

Child Psychiatry: 3 months in RHC campus supervised by Dr Elaine Lockhart.

Subspecialty interests within the department include: epilepsy, neuromuscular diseases, neurogenetics, headache, brain injury rehabilitation, neurodisability, complex motor disorders and neurological sleep disorders.

### Departmental Information

- Demographics  
West of Scotland Regional Neurosciences Service based in Glasgow serving a population of 3.5 million
- Team  
Multidisciplinary Regional Neurosciences Centre  
  
6 Consultant Paediatric Neurologists - Prof Sameer Zuberi, Dr Iain Horrocks, Dr Stewart Macleod, Dr Andreas Brunklaus, Dr Sarah Abernethy and Dr Katharine Forrest.  
  
Neurodisability Consultant - Dr Valerie Orr  
  
Specialist Neurology / Epilepsy Nursing team - 6  
  
Consultant Neuropsychologist - Ass Prof Liam Dorris + 2 other psychology staff  
  
Occupational therapy, physiotherapy, speech & language therapy, dietetics  
  
Liason Psychiatry team  
  
Administration team  
  
Ward based neurology nursing and therapy team

- Supervisor(s)  
Prof Sameer M Zuberi or one of other Neurology consultants

### **Clinical Training Responsibilities**

Content of Paediatric Neurology Training:

In patient: Neurology patients, elective and acute. PICU patients (several consults per week by consultant on call). Consults throughout hospital including neurosurgery (shunts, epilepsy surgery patients), orthopaedics, NICU, acute admissions and neonatal surgery. Weekly Grand Round.

Out Patient: General neurology, neuromuscular, neurorespiratory, neurorehabilitation, neurooncology, epilepsy, neurogenetic, headache, ketogenic diet, neuroophthalmology, neuropsychiatry, sleep disorders, motor disorders (including botulinum toxin treatment, DSR assessment, Baclofen pump management). Child psychiatry equivalent of 2 days/week for six months (dept. Child and Adolescent Psychiatry RHSC - Dr Elaine Lockhart). Outreach epilepsy and muscle clinics - Dumfries, Ayrshire, Lanarkshire, Stirlingshire

The following subspecialties are included or available in the trainees teaching programme: Neuroradiology (weekly imaging meeting), Neurophysiology (EEG, EMG/NCS), biochemistry/metabolic diseases, neurogenetics (joint clinics and MDT meetings), neuropathology.

Thursday mornings include a teaching programme and an academic grand round.

### **Neurodisability Training**

A significant proportion of the paediatric neurology programme(see above) provides training in neurodisability. Overall at least 25% of the time in paediatric neurology could be seen as neurodisability training.

This includes: neurorehabilitation (in patient and OP), neuromuscular clinic, neurorespiratory clinic neurooncology, motor disorders clinic including: botox clinic, DSR, Baclofen pump management, salivary control management, complex epilepsy, Multidisciplinary (including psychiatry and psychology) meetings (weekly), discharge planning meetings, management of salivary control

Neurosurgery - There are 4 Paediatric Neurosurgeons in Glasgow and we share a combined Neurosciences ward. As one might expect we have a good collaborative relationship with the surgeons. Glasgow is part of The Scottish Paediatric Epilepsy Surgery Programme with regular multidisciplinary meetings held in the FANU

### **Workload / Rota Arrangements / Example Timetable**

The trainee will participate in the General Paediatric rota including 16 WTE staff. 9-5pm the trainee will be working in paediatric neurology.

Towards the end of their training trainees will have opportunities to participate in out of hours neurology on call in a supported role

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

The Paediatric Neurosciences Research Group is based in the Fraser of Allander Neurosciences Unit and the trainee will have opportunities to undertake training in research methodologies and participate in research projects. The group have a strong track record in translational research particularly in the fields of epilepsy, molecular genetics and neuropsychology and more recently muscle. Training in commercial and non-commercial trials is available.

The trainee will be expected to undertake audit projects in a variety of paediatric neurology subspecialties. This will be supported by the Research and Audit Group of the Scottish Paediatric Epilepsy Managed Clinical Network.

The unit has an active postgraduate and undergraduate teaching programme in which the trainee will be expected to participate.

**Further training opportunities**

Subspecialty training within paediatric neurology in neuromuscular diseases, complex epilepsy and complex motor disorders is available within the unit. Trainees have been encouraged and supported to gain specific additional experience in other national and international child neurology centres if this will benefit their training.

Close links with the West of Scotland Genetics Service provides opportunities for neurogenetics training

**Contact details for unit**

Prof Sameer M Zuberi

Consultant Paediatric Neurologist

Royal Hospital for Children

Glasgow

1345 Govan Road, Govan G51 4TF

Sec 0141 4516568

sameer.zuberi@nhs.net

# Severn

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Bristol Royal Hospital for Children	Paediatric Neurology	12-24	Dr Andrew Mallick, Andrew.Mallick@UHBristol.nhs.uk	C	Y
Neurodisability, CCHP	Neurodisability	6	Dr Emma Bradley, Emma.Bradley@cchp.nhs.uk	C	Y
Bristol Royal Hospital for Children / Southmead Hospital	Child Psychiatry	6	Dr Clare Short Clare.Short@cchp.nhs.uk	C	Y
North Bristol Trust, Southmead Hospital	Adult neurology	6	Dr Neil Scolding Neil.Scolding@bristol.ac.uk	C	Y

## Additional Information

Training in neurophysiology and neuroradiology will be available in Bristol Children's Hospital.

Subspecialty:	Paediatric Neurology
Base Unit:	Bristol Royal Hospital for Children
Deaneries involved:	Severn

### Outline of Programme

The paediatric neurology service for Bristol and the South West is a fully integrated and joint service. It provides a tertiary service to the South West UK region (population over 5.5 million) and a secondary service to Bristol, North Somerset and South Gloucester (BNSSG). Bristol is the largest paediatric neurology department in the UK outside London. The paediatric neurology department in Bristol currently has 8 consultants (7 full time equivalent).

The paediatric neurology department has the capability to provide training in all aspects of paediatric neurology. There are fully funded and integrated programmes within the department, in paediatric epilepsy, epilepsy surgery, neuromuscular disorders, complex movement disorders / spasticity services and neurorehabilitation. There are strong links with the departments of neurosurgery, oncology, community paediatrics, paediatric neurodisability, ophthalmology and neonatal neurology. There is a very active teaching and research programme with many opportunities to participate in commercial and non-commercial research and undertake a wide array of educational activities. Trainees are strongly encouraged to submit work for meetings and publication and to contribute to quality improvement projects.

### Departmental Information

#### - Demographics

The Paediatric Neurology (PN) service provides tertiary care for children with neurological conditions throughout the South West region, and secondary and tertiary care for children with neurological problems in Bristol and the immediate surrounding. It is a busy service with a wide catchment area, serving a total population of 5.5 million. Although based in Bristol, the service also provides peripheral outreach clinics on a regular basis to all the district general hospitals (DGH) within the region.

The paediatric neurology service is based at Bristol Royal Hospital for Children. This is a dedicated, purpose-built children's hospital with approximately 165 beds.

#### - Team

The service currently employs 8 (7 WTE) substantive consultant paediatric neurologists (Drs Sharples, Patel, Lux, Majumdar, Vijayakumar, Mallick, Hameed and Amin).

The paediatric neurology service at BCH is supported by ST1-3 doctors, ST4-8 doctors, clinical fellows, ppilepsy specialist nurses, advanced neuroscience nurse practitioners, and administrative staff.

#### - Supervisor(s)

Supervision will be provided by one of the consultant paediatric neurologists

### Clinical Training Responsibilities

The paediatric neurology department has the capability to provide training in all aspects of paediatric neurology. There are fully funded and integrated programmes within the department in paediatric epilepsy, neuromuscular disorders, complex movement disorders / spasticity services and neurorehabilitation.

Clinical learning objectives include both generic and specialist skills:

- \*Clinical management of child with a neurological disorder
- \*Management (acute and long term) of children with complex neurological disorders
- \*Organisation of care for neurological conditions
- \*Practical skills in neurology and neurointensive care
- \*Experience of neonatal neurology and neuro-imaging, neurophysiology
- \*Communication skills: with other professionals and parents

Some elements of training such as child psychiatry, neurodisability, and adult neurology are provided by linked teams in North Bristol NHS Trust.

**Workload / Rota Arrangements / Example Timetable**

**Rota** Full shift

**Example Rota**

Day	Location	Work
Monday	BCH	Ward work
	BCH	General neurology clinic (UHB 1x pcm) Neuromuscular clinics (UHB 1 x pcm)
Tues	BCH	Weekly Handover Ward round
	BCH	Epilepsy Surgery Clinic/ Neurovascular MDT
Wed	BCH	Neuroradiology meeting Complex movement disorder MDT meeting Biweekly Epilepsy Surgery programme MDT Meeting
	BCH	Complex Movement Disorders clinic Baclofen/ spasticity/ ITB refill clinic General neurology clinic (UHB 1x pcm)
Thursda y	BCH	Weekly Departmental Teaching Ward round,/ Weekly Neurorehabilitation MDT
	BCH	Admin/ ward work
Friday	BCH	Ward round Hospital Grand round
	BCH	Clinical admin

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

The trainee will be required to take part in a clinical audit and will be encouraged to participate in research and teaching programmes. There is an active Trust Clinical Audit Committee. GRID trainees are expected to supervise audit projects and guide junior trainees. The GRID trainees are included in all regular departmental management and educational meetings such as neuromuscular club, adult neurosciences, paediatric grand rounds and, mortality & morbidity meetings. Trainees are expected to contribute to the departmental undergraduate and postgraduate teaching programmes, as well as the multidisciplinary training.

**Further training opportunities**

consultants deliver course material and teaching for BPNA PET Levels 1-3, movement disorders course and distance learning modules. The University of Bristol offers modular Certificate, Diploma and Masters programmes in Medical Education , Ethics and Law, Genetics, and Neurosciences (<http://www.bristol.ac.uk/medical-education/tlhp/>).

**Any further information**

The Southwest Neuromuscular Network was funded through specialist commissioning and has received £1 million to develop and improve NM services in the SW. The Bristol paediatric epilepsy surgery programme is one of 4 nationally designated paediatric epilepsy surgery centres. Bristol paediatric neuroscience provides a full house of complex motor disorder management including botulinum toxin, selective dorsal rhizotomy, intrathecal baclofen and deep brain stimulation.

**Contact details for unit**

Dr Arni Majumdar  
Consultant Paediatric Neurologist  
Email: amajumdar@nhs.net

Dr Andrew Mallick  
Consultant Paediatric Neurologist  
Lead Clinician Paediatric Neurology  
Email: andrew.mallick@uhbristol.nhs.uk

Information about the clinical services and research can be found at the following websites:

[www.swneuromuscularodn.nhs.uk](http://www.swneuromuscularodn.nhs.uk)  
[www.bristol.ac.uk/clinical-sciences/research/neurosciences/research/bristol-neuromuscular/](http://www.bristol.ac.uk/clinical-sciences/research/neurosciences/research/bristol-neuromuscular/)  
[www.uhbristol.nhs.uk/patients-and-visitors/your-hospitals/bristol-royal-hospital-for-children/what-we-do/paediatric-neurology/](http://www.uhbristol.nhs.uk/patients-and-visitors/your-hospitals/bristol-royal-hospital-for-children/what-we-do/paediatric-neurology/)

# South East Scotland

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Royal Hospital for Sick Children, Edinburgh	Paediatric Neurology	36	Ailsa.mclellan@nhslothian.scot.nhs.uk	C	Y



Subspecialty:	Paediatric Neurology
Base Unit:	Royal Hospital for Sick Children, Edinburgh
Deaneries involved:	South East Scotland

### Outline of Programme

The paediatric neurology service based at The Royal Hospital for Sick Children in Edinburgh provides secondary and tertiary neurology care to children and young people in Fife, Lothian and Borders. NHS Lothian also hosts the National Paediatric Epilepsy Surgery Programme and Spinal Deformities services for Scotland. The Royal Hospital for Sick Children in Edinburgh is a tertiary referral centre for intensive care patients; gastroenterology, hepatology & nutrition; respiratory medicine; cardiology; nephrology; neurology; neurosurgery; oncology; haematology; rheumatology; infectious diseases; metabolic diseases; neonatal surgery; plastic surgery; orthopaedic surgery; urological surgery and all aspects of general surgery.

The Royal Hospital for Sick Children, Edinburgh, has a dedicated neurosciences ward catering for acute and chronic neurological cases, neurosurgical cases, neurorehabilitation, videotelemetry (two beds) which are managed by Paediatric neurologists and Paediatric neurosurgeons. Examples of conditions treated: Epilepsy, Migraine, acquired brain injury including traumatic brain injury, Neurodegenerative Disorders, Movement disorders, Cerebral Palsy, Nervous System Disorder Tumours, Peripheral Neuropathy, Neuromuscular disorders, Spina Bifida, Hydrocephalus, Central Nervous System, Infections, Nervous System Malformations, Neuropsychiatry Disorders, Neurogenetic disorders, Neurometabolic disorders

### Departmental Information

- Demographics
- Secondary and tertiary neurology/neurosurgical care for children in Lothian and South East Scotland. Tertiary care for some conditions in North of Scotland. Quaternary level care for national services including Scottish Paediatric Epilepsy Surgery Programme and Spinal Deformity Service.
- New patients – approx 1000 seen in outpatients
- Review patients – approx 4000 seen clinic and ward reviews
- Admissions - 70% bed occupancy of 12 bed ward.
- Admissions: 445 per year, 2921 bed days
- Neurophysiology – Yearly investigations:
- 1185 (EEG 719, Sleep EEG 105, Videotelemetry/Ambulatory EEG 125, Evoked potentials/NCS/EMG 129, Spinal monitoring 104)
- Patients per year 1183
- Team  
 Consultant Paediatric Neurologists: Dr Paul Eunson, Dr Ailsa McLellan, Dr K Kamath Tallur, Dr Kenneth McWilliam, Dr Jay Shetty, Dr Richard Chin (Academic department). Consultant in Neurodisability: Dr Alex Baxter  
 Epilepsy Nurse Specialists: Celia Brand (Nurse consultant), Michelle Small, Janice Fyall (national epilepsy surgery nurse specialist). Neurology Nurse specialist: Jacqueline McPherson. Charge Nurse: Karen Duguid. Specialist Neuro-physio: Val Kennedy and team. Multidisciplinary team: Occupational therapists, Speech and Language therapists, Play therapists, Hospital Social workers. CAMHS team: Dr Duncan Manders (Child and Adolescent Psychiatrist) , Dr Kirsten Verity (Neuropsychologist) and team. Neurophysiology: Brian Jordan and team (EEG, Video-telemetry, evoked potentials, Nerve conduction studies/EMG, intra-operative monitoring, MSLT, invasive monitoring and corticography)
- Supervisor(s)

Consultant Paediatric Neurologists: Dr Paul Eunson, Dr Ailsa McLellan, Dr K Kamath Tallur, Dr Kenneth McWilliam, Dr Jay Shetty, Dr Richard Chin (Academic department). Consultant in Neurodisability: Dr Alex Baxter

### **Clinical Training Responsibilities**

Secondary, tertiary and some quaternary care of patients with neurological, neurosurgical, neurorehabilitation and neurodisability. Ward-based care for acute and chronic neurological illness is in the integrated 12-bedded neurosciences unit (with close working relationships with neurosurgery and inpatient neurorehabilitation).

Neurodisability services are delivered between the inpatient unit (e.g. intrathecal baclofen, botox) and outpatient services. All aspects of Neurophysiology training are provided on-site. Neuropsychology experience is readily available and there are established training links with generic CAMHS and specialist CAMHS LD services. There are a full range of general and specialist neurology outpatient clinics and MDT working to enable trainees to fulfil the necessary competencies for Neurology Grid training. Adult neurology training is provided by the Department of Clinical Neurosciences in Edinburgh. There are many communication, leadership, safeguarding and multidisciplinary team working opportunities.

The University of Edinburgh Department of Child Life and Health is located at the Children's hospital and there are close academic links with opportunities for academic activities. There is an active neurosciences teaching programme, in addition to the paediatric training programme based at the centre.

In 2018 the children's hospital will be relocated to a new facility in a joint build with adult neurosciences. This will facilitate even stronger links with the adult neurosciences department and allow closer joint working.

### **Workload / Rota Arrangements / Example Timetable**

The Neurology Grid trainee would work in the unit alongside 1 or 2 other STs from SE Scotland rotation (who are typically attached to the unit for 6 months) and also one FY2 or GPST. The Consultants operate a Consultant of the week arrangement and provide a 24 hour, 7 day a week on-call service. The grid trainee takes part in Hospital wide on call rota (often called specialty rota).

An example timetable is as follows

1. Monday: Handover, ward rounds +/- Motor disorder clinic, new patient clinic or spina bifida clinic or neurometabolic clinic, PM: Review clinic (general neurology).
2. Tuesday: Paediatric Neuro-oncology meeting, ward rounds/ neurology review clinic, Epilepsy clinic (PM).
3. Wednesday: ward rounds, EEG clinic, new patient clinic, Rapid access clinic, PM: Theatre list (e.g. Baclofen, Botox, epilepsy surgery)
4. Thursday: Neurology teaching SpR/ST-led ward rounds, PM:, MDT
5. Friday: Neurosurgical-neurology grand rounds, ward rounds, ward-planning meeting, neuropsychology meeting, neuro-radiology meeting, dedicated teaching programme for SpRs/STs between 2 and 4 PM .

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

The clinical paediatric neurosciences department is very active with multiple audit programmes and research projects. There is a strong academic Paediatric Neurosciences Department within University of Edinburgh. The trainee would have plenty of teaching opportunities for undergraduates, nurses, other staff and postgraduate trainees. There is a dedicated teaching and training programme on Thursday AMs and Friday PMs in Paediatric Neurosciences and many other teaching opportunities in hospital e.g. grand round, morbidity and mortality meetings etc

**Further training opportunities**

There will be ample opportunity to participate in a series of specialist work in paediatric neurology. Examples include video EEG telemetry, tone management including intrathecal baclofen, ketogenic diet clinic, neuromuscular clinics, joint transition clinics etc. There is also an opportunity to learn/train in all aspects of neurophysiology (e.g. EEG, long-term monitoring, evoked potentials, Nerve conduction studies/EMG, intra-operative monitoring, corticography)

**Contact details for unit**

Dr Ailsa McLellan, Consultant paediatric Neurologist, Department of Paediatric Neurosciences, Royal Hospital for Sick Children, Edinburgh. EH9 1LF. Tel: 0131 536063

# Wales

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Children's Hospital for Wales, Cardiff	Paediatric neurology	24	Dr Johann te Water Naudé tewaternaudeja@cardiff.ac.uk	C	Y
Morrison Hospital, Singleton	Paediatric Neurology and neurodisability	12	Dr Cathy White cathy.white@wales.nhs.uk	C	Y
Neurosciences, UHW, Cardiff	Adult neurology	6	Dr Khalid Hemandi hemandi@cardiff.ac.uk	C	Y

## Additional Information

The training programme for Paediatric Neurology is spread over two units: paediatric neurology (two years at the Children's Hospital for Wales) and adult neurology (six months at the University Hospital of Wales on the same site as CHfW) in Cardiff, and then Swansea for neurology and neurodisability (twelve months based at Morrison Hospital).

The timings of these attachments are flexible, and can be adjusted to meet specific training needs, although the adult neurology attachment is more useful if undertaken in the latter half of paediatric neurology training.

The child psychiatry component of paediatric neurology training will be for the equivalent of one day a week over a six-month period during the Cardiff attachments. It would also be possible for our trainee to do elective attachments to other units or clinics during the training period.

Subspecialty:	Paediatric Neurology/Neurodisability
Base Unit:	Morrison Hospital, Swansea
Deaneries involved:	Wales

### Outline of Programme

See above

### Departmental Information

- Demographics  
The population of South West Wales is approximately 1.1million of which almost half live in rural West Wales. There are well established links to serve this population between Morrison Hospital, where the service is based, and the surrounding district hospitals.
- Team  
Consultants  
Dr C White - Consultant Paediatric Neurologist  
Dr G Thomas - Consultant Paediatric Neurologist  
Dr S Tuohy - Consultant Community Paediatrician (Neurodisability & Epilepsy)  
Dr T Josty - Consultant Community Paediatrician (Neurodisability & Neurodevelopmental disorders)  
Dr V Bisht - Consultant Community Paediatrician (Neurodisability)  
Dr R Sanikop - Consultant Community Paediatrician (Paediatric Audiology)  
Dr C Samuel - Consultant Community Paediatrician (Neurodevelopmental disorders)  
Dr J Griffiths - Consultant Community Paediatrician (Neurodisability & Palliative Care)  
Dr S Jonathan - Consultant Community Paediatrician (Neurodisability & Neurodevelopmental disorders)  
  
Other Team members  
1.8WTE Specialist Epilepsy nurses - Sharon Brown, Lisa Phillips  
Neuromuscular Adviser - Sarah Gates  
neurosurgical Nurse Specialist - Ian Williams
- Supervisor(s)  
Dr C P White

### Clinical Training Responsibilities

The trainee will have ongoing involvement with the routine paediatric neurology and neurodisability outpatient clinics held in Morrison Hospital and the Children's Therapy Centre and with the neurology inpatients. The Department is often asked to perform complex investigations for children seen in outreach clinics and for children under the care of other colleagues. We also see children admitted under other consultants and in NICU. MDT working in neuromuscular disorders and epilepsy is a strength of the department.

The range of outpatients that the trainee will have access to includes

Complex Neurodisability Clinics  
Multidisciplinary Muscle Clinics including neuro-respiratory and Transition  
Peripheral Neuropathy Clinics  
Botox clinics (upper and lower limb)  
First Seizure Clinic  
Complex epilepsy clinics  
Joint clinics with orthopaedic surgeons, neurosurgeons, oncologists and the craniofacial team

ASD assessment clinics  
Learning Disability Psychiatry  
Joint clinics with other community consultants including palliative care  
Outreach Clinics in West Wales

There are clinics available every day and the expectation would be that a trainee would attend 4 clinics per week.

Attachments can be arranged in neurophysiology, adult neurology and CAMHS. Regular meetings are held with the adult neurologists, adult and LD epileptologists, and neuroradiologists, as well as within the Department of Child Health.

### **Workload / Rota Arrangements / Example Timetable**

The appointee will participate in the general paediatric middle grade on call rota (EWTD compliant) but there is no daytime commitment to general paediatrics. The timetable is flexible with room to develop special interests.

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

The Neurology and Molecular Neuroscience Research Team based in Swansea University provides good opportunities to participate in research. Epilepsy genetics and epidemiology are the current foci of interest. The Department also contributes to the research of the North Star network for children with neuromuscular diseases. Regular meetings are held with the neuroradiologists and adult physicians in neurology and rehabilitation medicine, as well as within the Department of Child Health. The trainee will be expected to contribute to these meetings as well as the ABM network epilepsy meetings, the Wales Paediatric Neurodisability Clinical Network meetings and the South Wales Epilepsy Network Meetings. Teaching of undergraduates from the Graduate Entry Medical School, trainees and of other professionals is expected. The trainee will be expected to participate in meaningful audit /quality improvement projects and multidisciplinary journal club/case presentation meetings. Wales has an active generic skills education programme for senior trainees.

### **Further training opportunities**

There are close links with other departments within the Trust and arrangements can be made to attend sessions with them eg ophthalmology, genetics, gastroenterology, neonatal intensive care. Time can be spent in neuroradiology and neurophysiology, and is encouraged. Attendance at outreach clinics is expected.

### **Any further information**

Time can also be spent in other Child Development Centres in the region. CAMHS training is usually done via Neath Port Talbot Children Centre

### **Contact details for unit**

Dr C P White 01792 704023

Cathy.White@wales.nhs.uk

Subspecialty:	Paediatric Neurology
Base Unit:	Children's Hospital for Wales, Cardiff
Deaneries involved:	Wales

### **Outline of Programme**

The training programme for Paediatric Neurology in Wales is spread over two units: paediatric neurology and adult neurology over a period of two and a half years in Cardiff (at the Children's Hospital for Wales (CHfW) and the University Hospital of Wales, both on the same site in Cardiff), and then a further year of neurology and neurodisability in Swansea.

### **Departmental Information**

- Demographics  
The Children's Hospital for Wales serves a paediatric population of 600,000, primarily from South Wales, within a population of 2.4 million. CHfW is the lead centre for Paediatric Neurosciences in Wales, with outreach services to other hospitals in South Wales. The other regional services provided at CHfW are intensive care, neonatology, respiratory medicine (including non-invasive ventilation), neurosurgery, surgery, oncology, palliative care, cardiology, endocrinology, gastroenterology, nephrology and psychology. Furthermore, both general and community paediatrics at CHfW are well-developed and mature services, allowing the delivery of effective and integrated care.
- Team  
There are currently 2.5 wte paediatric neurologists at CHfW: Dr Frances Gibbon, Dr Johann te Water Naudé and Dr Sam Amin, with a further paediatric neurologist doing neurorehabilitation, Dr Anurag Saxena. We have one full time equivalent epilepsy nurse specialist, along with a neurosurgical nurse specialist. We work closely with our specialist therapists (physiotherapy, occupational therapy and SALT), with weekly formal multidisciplinary meetings and ward-based joint assessments. There is also a fully-staffed neurorehabilitation team with a manager, physiotherapists, occupational therapists and speech therapists, as well as a child psychologist. There are a minimum of five neurology clinics per week where a mix of epilepsy and general neurology patients are seen. We also run subspecialty paediatric neurology clinics in epilepsy, teenage epilepsy, neuromuscular disorders, demyelination disorders, paediatric ophthalmology, neurometabolic disorders, neuro-oncology, neuro-urology and in fetal medicine. A multidisciplinary Rett syndrome clinic runs three times per year attracting national and international referrals. Our expectation is that our trainee would do at least two clinics per week, with their rotating through the other clinics on an elective basis, aiming to have a reasonable knowledge of these subspecialist areas at the conclusion of the training period.
- Supervisor(s)  
Johann te Water Naudé (tewaternaudeja@cardiff.ac.uk)

### **Clinical Training Responsibilities**

Our trainee works within the paediatric neurology service with two rotating paediatric trainees (one senior, the other junior) to provide a ward- and clinic-based neurology service. This is covered on a 1:3 basis by the consultants, with two formal ward rounds per week, and one multi-disciplinary meeting with our therapists. Our in-patient population usually comprises a mix of children, some with traditional neurological presentations, together with a variable number of children with degenerative disorders. We also cover

paediatric neurosurgery, with a varied neurosurgical case load (both shunt-related, and with pre- and post-operative brain tumour cases) and children with acquired brain injuries. We also provide neurological consultations for children admitted to the general and other subspecialist services, as well as children and neonates on PICU and NICU. There are at least five neurology clinics each week which are attended by our trainees, with attendance at the subspecialty clinics being on a more ad hoc basis. Our trainees attend the meetings we have on a weekly basis, in neuroradiology, neuropathology, and neurophysiology. There are two weekly teaching meetings with the adult services, a neuropathology MDT with the neurosurgeons and oncologists and a general neurosciences meeting with the adult neurology team.

### **Workload / Rota Arrangements / Example Timetable**

The Grid trainee will be attached to the paediatric neurology service during the normal working day, and cover the paediatric subspecialty services at night and after hours: this comprises the oncology, neurology, respiratory, nephrology and cardiology units. The rota intensity is 1:11 and it is EWTD-compliant. This means the trainee will have exposure to 24 hr neurology cover when on call. There is no requirement to cover general paediatrics or the emergency department. There is usually at least one of our trainees present on any day, but there is an established cover system which augments this if necessary. The core aspects of the training programme are:

**Epilepsy:** our trainee will be expected to achieve the competencies set out in the subspecialty guidelines for trainees in paediatric neurology by the end of the second year of Grid training. This will be facilitated by the clinical placements, as well as by EEG teaching during the first year of the placement. There will also be opportunities to complement this syllabus through more dedicated placements, either in- or out-of-programme. The exposure to the management of adult epilepsy will also be useful in this context. The adult epilepsy service has a close relationship with CUBRIC, the imaging centre at Cardiff University, which has advanced imaging modalities available (3T MRI, as well as MEG and a research 7T MRI): we envisage that there might be opportunities for our trainee to become familiar with the usefulness of these imaging techniques in epilepsy.

**Neuromuscular:** our trainee will start with exposure to the paediatric neuromuscular service in the first year, and then will later attend adult neuromuscular clinics, both in muscle, and in nerve, in the second year of their programme. This will then be followed by further training in neuromuscular neurology locally and with the option to attend clinics and muscle pathology meetings in Bristol.

**Adult neurology:** the exposure to adult neurology in this programme will be clinic-based, with the option of converting to a block of in-patient neurology if this is thought to be useful. Clinics will start with a general clinic, with an emphasis on an anatomic approach to neurology and will then move to clinics in teenage and adult epilepsy. The last aspect of adult neurology that will be covered in depth will be neuro-inflammatory disorders, with an attachment to the adult multiple sclerosis service. The disability-based approach used here will complement the paediatric neurodisability component of the training programme. Further, the academic component of the adult neurology teaching programme (on Thursday afternoons) will allow our trainee to learn with a motivated cohort of adult neurology trainees, as well as educating them about the modes of presentation of paediatric neurology.

**Neurorehabilitation:** The primary objective for this post is education and training in paediatric neurology. However, the neurorehabilitation service for children from South Wales with head injuries is based at CHFw. A proportion of our clinical load is directed towards the care of the children who are being rehabilitated. Neurology trainees in our unit get an excellent exposure to the problems associated with acute childhood head injury: this starts with our assessment and joint management in the PICU, and then later in the rehabilitation unit, where the impetus is in the multi-disciplinary management (in the widest sense) of children who have had a head injury. This complements the multi-



disciplinary approach we employ for the majority of children we see on the wards or in clinic with neurological problems. We would expect that our trainee would become very fluent with the needs of children with neurological problems, and very adept at managing this provision.

#### Neurodisability

The neurodisability requirement will be met in the Swansea attachment (see the linked programme submission) which provides a wide range of neurodisability clinics and subspecialties. There is also an opportunity to attend one neurodisability clinic per week in Newport in year 2 of training.

#### Neonatal neurology

The post provides training in fetal neurology and regular consults to the new supra - regional neonatal unit (due completion December 2017) with 25 intensive care cots.

We encourage all trainees who wish to pursue a subspecialty interest and would support them if this meant a placement out of Wales.

The timetable for this training post is flexible, but we would envisage the following as being what we would regard as the basis for further discussion:

First year	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Consultant handover round	Paeds neurology MDT	SpR ward round, with a monthly attachment to the paediatric neuro-muscular service	Fetal medicine MDT	Neuroradiology
	Neuropath meeting	Consultant ward round		SpR ward round	Neurosurgical ward round
	SpR ward round	Neurorehabilitation meeting			Consultant ward round
Afternoon	Paeds clinical meeting	Adult neurology clinic (Hughes)	Hospital grand round	Paeds grand round	Paeds clinical teaching
	Non-clinical/study time		Paeds neurology clinic	Adult neuroscience meeting	Paeds neurology clinic
	EEG teaching		Consultant handover round	Consultant handover round	

Year two	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Consultant handover round	Medical student teaching (paeds neurology)	Adult epilepsy clinic (Hamandi)	Teenage epilepsy clinic (Smith), alternating with elective CESS in Bristol and SpR ward	Neuroradiology
	Subspecialty clinic	Paeds neurology MDT			Neurosurgical ward round
		Consultant ward round	Adult epilepsy surgery MDT (Grey)		Consultant ward round
		Neurorehabilitation meeting		Neurorehabilitation ward round	

				rounds (latter once monthly)	
Afternoon	Paeds clinical meeting	Non-clinical/study time	Hospital grand round	Paeds grand round	Paeds clinical teaching
	Adult neurology, including adult neuro-muscular clinic		Paeds neurology clinic	Adult neuroscience meeting	Paeds neurology clinic, alternating with genetic and spasticity management clinics
			Consultant handover round	Consultant handover round	

Year three	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Consultant handover round	Medical student teaching (paeds neurology)	Adult neuro-inflammatory MDT (Robertson)	Teenage epilepsy clinic, alternating with elective CESS in Bristol and SpR ward rounds (latter once monthly)	Neuroradiology
	Neuropath meeting	Paeds neurology MDT			Neurosurgical ward round
	SpR ward round	Consultant ward round			Neurorehabilitation meeting
		Neurorehabilitation ward round			
Afternoon	Paeds clinical meeting	Neuromuscular service (either in Bristol or within CHfW)	Child psychiatry attachment	Paeds grand round	Paeds clinical teaching
	Non-clinical/study afternoon			Adult neuroscience meeting	Paeds neurology clinic, alternating with genetic and spasticity management clinics
				Consultant handover round	

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

Trainees in Cardiff are expected to supervise the non-Grid trainees and manage the neurology and neurosurgical patients with consultant supervision, and later more autonomously. The Wales deanery expects all paediatric trainees to be involved in audit, and also the development of appropriate clinical guidelines. Our previous trainees have presented work at local, national and international meetings, and had aspects of their work published. We are currently facilitating collaborative studies through the Paediatric Clinical Research facility, with involvement in a number of studies such as novel anticoagulant agents in children with intracranial venous sinus thromboses and orphan drug treatment for children with spinal muscular atrophy. We envisage that studies using this facility will expand significantly. We have a sizeable commitment to student teaching, in which all our trainees participate. The University Hospital of Wales has hospital-wide grand round presentation competitions, where our trainees have presented some of our more interesting clinical cases, which are always instructive to the mainly adult-orientated audience.

### **Further training opportunities**

Our trainees have opportunities to arrange elective placements, and to undertake an out of programme placement. We encourage their attendance at local and regional meetings (both paediatric- and adult-orientated); a highlight is the four-monthly M4 meeting, where we meet with colleagues from Oxford, Southampton, Swansea and Bristol, to share and discuss instructive and difficult clinical cases. There is an active South Wales Epilepsy Forum. We encourage our trainees to enrol on the BPNA distance learning course and are able to provide funding for 50% of the course.

### **Any further information**

Neurodisability training is currently via the service in Swansea, although this is under review. The adult component of this post is supervised by Khalid Hamandi in the Department of Neurology at the University Hospital of Wales in Cardiff. This is a traditional neurology service, which functions as the local referral unit for adults in South-East Wales. The particular strengths of this unit are in general neurology and adult stroke: this portion of training will have significant input from Tom Hughes. His input into this aspect of the adult attachment is especially valuable as he very effectively teaches the importance of neuroanatomy in the clinical assessment of patients. The other major strength of the adult unit are in their neuroinflammatory service, which functions as the reference centre for South Wales, and has close ties with the Bristol unit.

#### Why Cardiff?

The CHfW is an autonomous unit, and the second stage of this hospital was completed in 2015: the outcome is a coherent mix of all the paediatric services, including theatres, in the same space.

The setup of the on-call rota means there is no OOH cover for emergency or general paediatrics.

Cardiff is an attractive city, and has an attractive combination of entertainments and culture, including the Welsh National Opera. It comes alive on Saturdays when there is rugby being played! The other attraction lies in the accessibility of the mountains and the sea.

### **Contact details for unit**

Johann te Water Naudé (02920743540)

# Yorkshire and Humber

Hospital / Centre	Placement Name	Duration (Months)	Educational Supervisor (name and e-mail)  These will be published unless you ask otherwise	Compulsory (C) or Optional (O)	Availability Guaranteed (Y/N)
Leeds Children's Hospital	Acute Neurology/neurosciences	24	Helen McCullagh h.mccullagh@nhs.net	C	Y
LGI	Adult neurology	6	Dr Ahamad Hassan Ahamed.hassan@nhs.net	C	Y
St Luke's Hospital Bradford	Neurodisability	6	Dr Stella Yeung Stella.yeung@bftth.nhs.uk	C	Y
Leeds Community Trust	Neurodisability	6	Arnab Seal Arnab.seal@leedsth.nhs.uk	C	Y

### Additional Information

2 years of acute neurology at Leeds Children's, 1 year of neurodisability with 6 months at Bradford (on call neonates) including 6 months of adult neurology at LGI, child psychiatry placements. (It is likely that appointees may have completed some of these training requirements during their core experience and therefore the programme is tailored to their needs).

Sub-specialty:	Paediatric Neurology
Base Unit:	Leeds Children's Hospital
Deaneries involved:	Yorkshire and the Humber West

### Outline of Programme

This is a busy tertiary service for paediatric neurology. The grid trainee would gain competency in all areas of the Paediatric Neurology Speciality Curriculum. The rotation includes acute neurology with experience in the management of acutely unwell paediatric neuroscience patients. There is an opportunity to attend 2-3 weekly outpatient clinics covering subspecialties in paediatric neurology including epilepsy, spasticity, traumatic brain injuries, neuromuscular disorders and cerebrovascular disorders. The trainee would also be able to participate in the transition service to adult care and attend outreach clinics covering 10 hospitals in Yorkshire.

There is a consultant of the week rota in place, with a daily consultant led ward round. There is an active teaching programme with weekly ward based teaching sessions and a weekly education afternoon with neuroradiology meeting and a teaching programme for registrars. Adult neurology placement is on site at Leeds General Infirmary with on call in paediatric specialities. Neurodisability placements are available at St Luke's Hospital in Bradford and Leeds Community NHS trust with exposure to neurometabolic and neurogenetic patients and clinics. Child psychiatry placement is with Leeds CAMHS.

### Departmental Information

- Demographics  
Leeds Teaching Hospitals NHS trust serves a population of 800,000 within the Leeds Metropolitan area and 3.5 million within Yorkshire. All paediatric specialities are situated at Leeds Children's Hospital including General Paediatrics, Cardiology, Diabetes, Respiratory, Gastroenterology, Hepatology, Oncology, Nephrology, Endocrinology, Rheumatology, Neurology, Community Paediatrics, Neonatology and Paediatric Intensive care. The neurosciences ward is a 12 bedded unit jointly caring for neurology and neurosurgical patients.
- Team  
There are 4 WTE paediatric neurology consultants (Dr JH Livingston, Dr AM Childs, Dr K Pysden Dr G Venkatachalam and 2 O.6 WTE Dr G Vadlamani Dr H McCullagh and 1 WTE Paediatric Neurodisability Consultant (Dr R Lodh) There are 2 WTE paediatric epilepsy nurses, 1 WTE paediatric neuromuscular clinical nurse specialist.
- Supervisor(s)  
Dr Helen McCullagh, Dr Anne-Marie Childs

### Clinical Training Responsibilities

Grid trainees will be expected to alternate between covering inpatient ward, internal referrals and attending outpatient clinics. They will receive daily supervision from the consultant team with time allocated to discuss inpatient & outpatient management. They will also participate in departmental meetings.

The rota is compliant with the new junior doctors' contract and the trainee will cover the paediatric subspecialties out of hours.

**Workload / Rota Arrangements / Example Timetable**

	AM	Lunchtime	PM
<b>Monday</b>	Grand round		ward
<b>Tuesday</b>	Neuromuscular clinic	Paediatric Grand Round	ward
<b>Wednesday</b>	Gen neurology clinic/ governance 2nd Wednesday	Neuroradiology Meeting, alternate week EEG meeting	Teaching programme
<b>Thursday</b>	Ward round		General neurology clinic
<b>Friday</b>	Epilepsy clinic		Ward Work

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

The Grid Trainee would be expected to participate in regular departmental governance and present at the education meeting. The neurosciences department participates in MCRN and NIHR supported clinical research. The trainee would be encouraged to participate in research studies and encouraged and supported to publish case reports and research projects in peer-reviewed journals and to present at national and international conferences. Opportunities to lead on improvement and development projects. Teaching of junior STs

**Further training opportunities**

There is also the potential to be involved in delivery of undergraduate 3rd Year Medical degree course and become a personal tutor to a group of medical students during their clinical studies. Trainees are encouraged to complete the BPNA distance learning course. The trainee would be supported to attend training in any area of sub-speciality interest.

**Contact details for unit**

Dr Helen McCullagh 0113 3922188 h.mccullagh@nhs.net