NTN Grid - Programme Information
Paediatric Gastroenterology, Hepatology and Nutrition 2020

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

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

Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH.

Please note: Programme submissions can be withdrawn or amended at any point until an offer of employment has been made to an applicant.

Application Process

Applications for the NTN Grid open from 12 noon Friday 6 September 2019 and close at 12 noon Monday 30 September 2019. Applications can only be accessed during this period from the College website.

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

Contact Details

Dr Mark Beattie
Email: mark.beattie@uhs.nhs.uk
Email: ntn.grid@rcpch.ac.uk
Tel: (020) 7092 6139
## Programme Description for PGHAN 2020

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<th>Deanery</th>
<th>Programme of Training</th>
<th>Places available</th>
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<tr>
<td>East Midlands and West Midlands</td>
<td>Leicester Children’s Hospital, UHL NHS Trust, Birmingham Children’s Hospital, Birmingham</td>
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<td>Wessex and London</td>
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## East Midlands and West Midlands

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<th>Hospital / Centre</th>
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<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
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<tr>
<td>Leicester Children’s Hospital, UHL NHS Trust</td>
<td>Gastroenterology and Nutrition</td>
<td>12</td>
<td>Dr Hemant Bhavsar, <a href="mailto:hemant.bhavsar@uhl-tr.nhs.uk">hemant.bhavsar@uhl-tr.nhs.uk</a></td>
<td>C</td>
<td>Y</td>
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<tr>
<td>Birmingham Children’s Hospital NHS Trust</td>
<td>Gastroenterology and Nutrition</td>
<td>18</td>
<td>Dr S Protheroe, <a href="mailto:sue.protheroe@nhs.net">sue.protheroe@nhs.net</a></td>
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<tr>
<td>Birmingham Children’s Hospital NHS Trust</td>
<td>Hepatology</td>
<td>6</td>
<td>Dr S Protheroe, <a href="mailto:sue.protheroe@nhs.net">sue.protheroe@nhs.net</a></td>
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</tr>
</tbody>
</table>

**Additional Information:**

This is a 3 year Paediatric Gastroenterology and Nutrition grid programme.

The first year is spent in the Paediatric gastroenterology service at the Leicester Children’s Hospital at University Hospitals Leicester NHS Trust.

The next two years are spent at Birmingham Children’s Hospital NHS Trust with 18 months in the Paediatric gastroenterology & nutrition service and 6 months in Paediatric Hepatology in the Birmingham Children’s Hospital Liver unit.

See job descriptions for each post for further details.
Programme Description for PGHAN 2020

<table>
<thead>
<tr>
<th>Subspecialty:</th>
<th>Paediatric Gastroenterology, Hepatology &amp; Nutrition</th>
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</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>Leicester Children’s Hospital, University Hospitals of Leicester NHS Trust, Leicester</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>Health Education East Midlands</td>
</tr>
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Outline of Programme:

A 12 month placement in the training programme in the Department of Paediatric Gastroenterology & Nutrition at Leicester Children’s Hospital.

Departmental Information:

- Demographics:
- Team:

The Gastroenterology team consists of 4 full time Consultants, 2 Gastroenterology Specialist Nurses (one IBD and one home PN/Intestinal failure) and 2 Senior Specialist Dieticians. It provides regional gastroenterology service for children with acute and chronic intestinal disorders.

The team is well supported by paediatric pharmacist, general paediatric consultants and junior trainees. Day care is run by team of senior nursing staff who support gastroenterology team by delivering ambulatory care such as biologic treatments, IV iron infusions and breath tests.

- Supervisor(s): Dr Hemant S Bhavsar, Consultant Paediatric Gastroenterologist, Leicester Children’s Hospital, UHL NHS Trust

Clinical Training Responsibilities:

The trainee will participate in daily consultant led ward rounds. There are monthly specialised joint clinics for IBD Transition service and Intestinal Failure/Home PN clinic. In addition, there are regular dietetic led coeliac clinics, virtual biologic clinic and MDT gastroenterology clinics. Trainee will participate in the investigation and management of patients with severe or unusual disorders who may be managed by the team or different clinical teams in the Trust. Experience is offered in day and ambulatory care of children and wide experience in clinical nutrition.

There will be opportunities to take referrals from other sub specialties locally and from other referral units within the region to discuss with on call consultant to formulate plan.

There is a weekly MDT nutrition round in children’s hospital and on neonatal unit at Leicester Royal Infirmary which trainee can attend.

Workload/Rota Arrangements/Example Timetable:

Grid trainee will be responsible for providing ward cover for gastroenterology inpatients and day case attending patients with support from other junior trainees and consultants. The Gastroenterology team undertakes > 10 clinics a week and 5-6 dedicated endoscopy GA theatre lists per month, and cares for up to 10 in-patients at a time. In addition, there are referrals from ITU, HDU and other paediatric specialties during the week.

Trainee will be provided with frequent access to dedicated training endoscopy lists and MDT gastroenterology clinics. Trainee will have opportunities to attend dietetic led celiac clinics and virtual biologic clinics. There are regular MDT radiology, histology and nutrition meetings and trainee will be expected to actively participate in these.
Programme Description for PGHAN 2020

Trainee will participate in general paediatric on call rota which will include providing emergency cover to gastroenterology patients as well. On call frequency will ensure adequate training time for sub speciality training during daytime.

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

Participation in audit, quality improvement, research, MDT meetings, undergraduate and postgraduate teaching and learning other skills such as management is well supported and expected. Opportunities for study leave will be available provided cross cover with colleagues arranged by planning ahead.

There are opportunities to present in local and regional meetings as well as medical student teaching/exams.

Further Training Opportunities:

The trainee will have the opportunity to gain skills in specialist procedures such as diagnostic and therapeutic endoscopy, video capsule endoscopy, impedance/pH studies and breath tests.

Contact details for Unit:

Dr Hemant Bhavsar, Consultant Paediatric Gastroenterologist
Telephone: 0116 258 6794
E-mail: Hemant.bhavsar@uhl-tr.nhs.uk

Curriculum:

Each sub-specialty Grid Programme covers the RCPCH Progress Curriculum, as specified on the RCPCH website: https://www.rcpch.ac.uk/education-careers/careers-paediatrics/sub-specialties
Programme Description for PGHAN 2020

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<tr>
<th>Subspecialty:</th>
<th>Paediatric Gastroenterology, Hepatology &amp; Nutrition</th>
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<tr>
<td>Base Unit:</td>
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<td>Health Education West Midlands</td>
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Outline of Programme

A 12-18 month placement in the training programme in Departments of Gastroenterology & Nutrition at Birmingham Children's Hospital NHS Trust.

Departmental Information

Birmingham Children's Hospital NHS Foundation Trust is one of only four NHS Trusts in the country specialising exclusively in the care of children and young people. It provides local general hospital and mental health services to residents of Birmingham and highly specialist care to a wider population of 5.5 million in the West Midlands and from all over the UK and Europe and is one of the leading paediatric teaching and research centres in the country.

The Hospital provides 50 Specialties and supporting departments with 360 beds (including CAMHS), 48 day beds and 31 PICU beds. A regional gastroenterology service is provided for children with acute and chronic intestinal disorders.

Team

1. The Gastroenterology team consists of 6 Consultants, two ST 5-8 trainees, one Senior Clinical Fellow for Nutrition and Gastroenterology, two further trainees (FY2 and ST3), one Advanced Nurse Practitioner in Gastroenterology, one Gastroenterology IBD Specialist Nurse, and three Senior Specialist Dieticians.
2. The Nutritional Care Team has three additional Nutritional Care nurses (one Clinical Nurse Specialist) and a family support worker who provide care for patients on Home Parenteral Nutrition.
3. The Nutrition and Intestinal Failure Team team provide dedicated support and education for teams managing patients in the Trust on Parenteral Nutrition. The trainee will spend time in this team with daily input from a dedicated Consultant on service for Nutrition plus other dedicated members, namely two PN Pharmacists, two additional senior Specialised dieticians, and a further Intestinal failure Nurse Specialist.

Supervisor(s): Dr S Protheroe, Dr R Bremner

Clinical Training Responsibilities

The trainee participates in weekly specialist, multidisciplinary activity such as clinics, daily ward rounds (either Gastroenterology or Nutrition). There are specialised joint clinics for Transition, IBD and Liver Disease, IBD surgery, Polyposis Syndromes, Intestinal Failure/ Home PN and so on. The trainee participates in the investigation and management of patients with severe or unusual disorders who may be managed by the team or different clinical teams in the Trust. Experience is offered in day and ambulatory care of children and wide experience in clinical nutrition.

Workload / Rota Arrangements / Example Timetable

The grid trainee will share the workload with a further regional or grid trainee and a Senior Clinical Fellow. By sharing the workload into 3 rotating duties which are a] ward service b] nutrition service and c] ambulatory care, ample opportunities for specialised training are available. Trainees are provided with frequent access to dedicated training clinics and training endoscopy lists. The trainee
Programme Description for PGHAN 2020

participates in the Hospital at Night on call schedule to ensure a compliant rota, and this allows adequate time to spent training in the speciality. This on call system provides excellent experience in leading a clinical team to manage emergency paediatric care, including in the speciality of gastroenterology and hepatology with appropriate access to day time training opportunities. The Gastroenterology team undertakes >10 clinics and 4 dedicated endoscopy GA theatre lists / week, and cares for up to 20 in-patients at a time in a dedicated ward.

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

Participation in audit, quality improvement, research, undergraduate and postgraduate teaching and learning other skills such as management is well supported and expected. Opportunities for protected study/ research leave are provided with cross cover from colleagues and the trainee can be involved with on going research projects.

Further training opportunities

The trainee has the opportunity to gain skills in specialist procedures such as diagnostic and therapeutic endoscopy, video capsule endoscopy, impedance/pH studies, breath tests and manometry

Contact details for unit

Dr S. Protheroe, Consultant Paediatric Gastroenterologist, sue.protheroe@nhs.net

Curriculum

Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH website:

http://www.rcpch.ac.uk/Training/Competency-Frameworks
# Programme Description for PGHAN 2020

## East Midlands North and West Midlands

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<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
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<tbody>
<tr>
<td>Nottingham Children's Hospital, Queen's Medical Centre, Nottingham</td>
<td>Paediatric Gastroenterology, Hepatology and Nutrition</td>
<td>12</td>
<td><a href="mailto:David.Devadason@nuh.nhs.uk">David.Devadason@nuh.nhs.uk</a></td>
<td>C</td>
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<tr>
<td>Birmingham Children's Hospital, Birmingham</td>
<td>Paediatric Gastroenterology, Hepatology and Nutrition</td>
<td>18</td>
<td><a href="mailto:Sue.Protheroe@nhs.net">Sue.Protheroe@nhs.net</a></td>
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<tr>
<td>Birmingham Children's Hospital, Birmingham</td>
<td>Paediatric Hepatology</td>
<td>6</td>
<td><a href="mailto:Mona.AbdelHady@nhs.net">Mona.AbdelHady@nhs.net</a></td>
<td>C</td>
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</tbody>
</table>

**Additional Information:**

Rotation Schedule:

- **September 2020 – August 2021:** Paediatric Gastroenterology, Nottingham Children’s Hospital (12 months)
- **September 2021 – February 2022:** Paediatric Gastroenterology, Birmingham Children's Hospital (6 months)
- **March 2022 – August 2022:** Paediatric Hepatology, Birmingham Children's Hospital (6 months)
- **September 2022 – August 2023:** Paediatric Gastroenterology, Birmingham Children's Hospital (12 months)

During the 3 year program, the candidate will spend 30 months in centres specialising in Paediatric Gastroenterology including Complex Nutrition and 6 months on the Liver Unit (including Paediatric Liver transplantation).
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<tbody>
<tr>
<td>Base Unit:</td>
<td>Nottingham Children’s Hospital</td>
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<tr>
<td>Deaneries involved:</td>
<td>East Midlands (North) /West Midlands</td>
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**Outline of Programme**

September 2020: 12 months of Paediatric gastroenterology at Nottingham Children’s Hospital;

September 2020: 18 months Paediatric gastroenterology at Birmingham Children’s Hospital and 6 months of Paediatric Hepatology at Birmingham Children’s Hospital

**Departmental Information**

The Paediatric Gastroenterology, Hepatology Nutrition service based at the Queens Medical Centre, Nottingham provides comprehensive tertiary care for children and adolescents with the complete range of digestive disorders and liver disease. The department looks after patients with inflammatory bowel disease, coeliac disease, intestinal failure and has close working arrangements with 2 quaternery liver units, Leeds General Infirmary and Birmingham Children's Hospital. There are outreach clinics that are carried out within a managed clinical network. The department has benefitted from a drive for expansion over the last 6 years and has seen expansion at consultant level, expansion of the network, the establishment of dedicated liver clinics, and the setting up of a transition program. There are very strong links with the adult gastroenterology units and the department benefits from a close working relationship with the Nottingham Digestive Diseases Centre (NDDC) and the NIHR funded BRC research unit that is allied with the adult gastroenterology department.

Team: The Gastroenterology team consists of 4 full time consultants, one Grid trainee and one ST 5-8 trainee, two junior trainees (FY1 and ST3). 4 (2.7 WTE) Gastroenterology Specialist Nurses, two (0.6WTE) GI investigation Nurse Specialists, one specialist pharmacist and three (2.2 WTE) Senior Specialist Dieticians. A further dedicated Nutritional Nurse Specialist post is being worked up. Clinical Psychologists and Play therapists support the team.

Supervisor(s) - Dr David Devadason; Dr Sian Kirkham; Dr Sabarinathan Loganathan

**Clinical Training Responsibilities**

The trainee participates in specialist multidisciplinary activity such as clinics, daily ward rounds and specialist consults for other specialties within a children's hospital set up. There are specialised joint clinics for IBD, IBD Transition, Liver Disease, Polyposis Syndromes, Coeliac disease and Intestinal Failure/ Home PN. The inpatient service is comprehensive and receives patients from around the region with a variety of intestinal & liver disorders. The nutritional rehabilitation unit provides comprehensive nutritional care for patients requiring PN. The IBD service within the department is well established and there is an established link with the adult gastroenterology department particularly in relation to transition with plans to establish an adolescent IBD clinic for patients between the age of 16-18. Our adult colleagues take an active interest in adolescent IBD and there are shared research projects that the department participates in.

**Workload / Rota Arrangements / Example Timetable**

There is ample opportunity for specialised experience and the trainees have access to dedicated training clinics and training endoscopy lists. There are currently 9-10 endoscopy lists each month. The department provides a capsule endoscopy service and other investigations provided within a...
Programme Description for PGHAN 2020

dedicated GI laboratory. The Gastroenterology team undertakes 9 clinics a week, 3 dedicated MDTs a week, (including Histopathology and Surgical Radiology) and participates in the Educational programme of the NDDC (complex case discussion and appraisal of literature). The trainee will participate in the out of hours rota that is fully compliant in order to allow adequate time to be spent training in the speciality.

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

The department of child health that is part of the University of Nottingham has an active academic department. There is ample support for research and plenty of opportunity to carry out both clinical and laboratory based research. Research themes currently include novel therapies in IBD, transition and long term follow up and the role of MRI in the evaluation of small bowel motility and disease. The trainee will be encouraged to develop a research project and to undertake a higher degree dependent on the individual needs of the trainee.

**Further training opportunities**

The trainee has the opportunity to gain skills in specialist procedures including therapeutic endoscopy and balloon enteroscopy with dedicated lists for this purpose, and GI manometry studies.

**Contact details for unit**

Dr David Devadason, Consultant Paediatric Gastroenterologist, david.devadason@nuh.nhs.uk; Dr Sabarinathan Loganathan, Consultant Paediatric Gastroenterologist, sabarinathan.loganathan@nuh.nhs.uk

**Curriculum**

Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/Training/Competency-Frameworks](http://www.rcpch.ac.uk/Training/Competency-Frameworks)
Programme Description for PGHAN 2020

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<th>Subspecialty:</th>
<th>Paediatric Gastroenterology, Hepatology &amp; Nutrition</th>
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<td>Birmingham Children's Hospital NHS Trust</td>
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<tr>
<td>Deaneries involved:</td>
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Outline of Programme

A 2 year placement in the training programme in Departments of Gastroenterology & Nutrition (18 months) and the Liver Unit (6 months) at Birmingham Children's Hospital NHS Trust.

Departmental Information

Birmingham Women's & Children's Hospital NHS Foundation Trust is one of only four NHS Trusts in the country specialising exclusively in the care of children and young people. It provides local general hospital and mental health services to residents of Birmingham and highly specialist care to a wider population of 5.5 million in the West Midlands and from all over the UK and Europe and is one of the leading paediatric teaching and research centres in the country.

The Hospital provides 50 Specialties and supporting departments with 360 beds (including CAMHS), 48 day beds and 31 PICU beds. A regional gastroenterology service is provided for children with acute and chronic intestinal disorders, and a supra regional service for hepatology and hepato biliary surgery including liver and intestinal transplantation.

Teams

4. The Gastroenterology team consists of 6 Consultants, two ST 5-8 trainees, a Senior Clinical Fellow for Nutrition and Gastroenterology, two further trainees (FY2 and ST3), one Advanced Nurse Practitioner in Gastroenterology, one Gastroenterology Specialist Nurse, and three Senior Specialist Dieticians.

5. The Nutritional Care Team has three Nutritional Care nurses (one Clinical Nurse Specialist) and a family support worker who provide care for patients on Home Parenteral Nutrition.

6. The Nutrition and Intestinal Failure Team provide dedicated support and education for teams managing patients in the Trust on Parenteral Nutrition. The trainee will spend time in this team with daily input from a dedicated Consultant on service for Nutrition plus other dedicated members, namely two PN Pharmacists, two additional senior Specialised dieticians, and a further Intestinal failure Nurse Specialist.

 Supervisor(s): Dr S Protheroe, Dr R Bremner

Clinical Training Responsibilities

The trainee participates in weekly specialist, multidisciplinary activity such as clinics, daily ward rounds (either Gastroenterology or Nutrition). There are specialised joint clinics for Transition, IBD and Liver Disease, IBD surgery, Polyposis Syndromes, Intestinal Failure/ HPN and so on. The trainee participates in the investigation and management of patients with severe or unusual disorders who may be managed by the team or different clinical teams in the Trust. Experience is offered in day and ambulatory care of children and wide experience in clinical nutrition.
Programme Description for PGHAN 2020

**Workload / Rota Arrangements / Example Timetable**

The grid trainee will share the workload with a further regional or grid trainee and a Senior Clinical Fellow. By sharing the workload into 3 rotating duties a) ward service b) nutrition service and c) ambulatory care, ample opportunities for specialised training are available. Trainees are provided with frequent access to dedicated training clinics and training endoscopy lists. The trainee participates in the Hospital at Night on call schedule to ensure a compliant rota, and this allows adequate time to spent training in the speciality. This on call system provides excellent experience in leading a clinical team to manage emergency paediatric care, including in the speciality of gastroenterology and hepatology with appropriate access to day time training opportunities. The Gastroenterology team undertakes >10 clinics and 4 dedicated endoscopy GA theatre lists / week, and cares for around 20 in-patients at a time.

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

Participation in audit, quality improvement, research, undergraduate and postgraduate teaching and learning other skills such as management is well supported and expected. Opportunities for protected study/ research leave are provided with cross cover from colleagues and the trainee can be involved with on going research projects.

**Further training opportunities**

The trainee has the opportunity to gain skills in specialist procedures such as diagnostic and therapeutic endoscopy, video capsule endoscopy, impedance/pH studies, breath tests and manometry

**Contact details for unit**

Dr S. Protheroe, Consultant Paediatric gastroenterologist, Regional National Grid Coordinator, 
sue.protheroe@bch.nhs.uk

**Curriculum**

Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH website:

http://www.rcpch.ac.uk/Training/Competency-Frameworks
## Programme 1

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<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and email)</th>
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<th>Optional (O)</th>
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<tr>
<td>Kings College Hospital</td>
<td>Hepatology (30m) and gastroenterology (6m)</td>
<td>36</td>
<td>Dr Sanjay Bansal <a href="mailto:sanjay.bansal@nhs.net">sanjay.bansal@nhs.net</a></td>
<td>C</td>
<td>O</td>
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**Additional Information:**

Post One: 30 months Hepatology and 6 months gastroenterology at King’s College Hospital.
Programme Description for PGHAN 2020

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<th>Sub-specialty:</th>
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<td>King's College Hospital</td>
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<td>Deaneries involved:</td>
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**Outline of Programme**

Paediatric liver, GI and Nutrition centre

The post will provide experience in managing a variety of GI conditions (at a tertiary level) such as inflammatory bowel disease, enteral and parenteral nutrition in addition to managing more common pediatric GI complaints such as gastro esophageal reflux, constipation, diarrhea and feeding problems. There are specialist clinics for Inflammatory Bowel Disease, Celiac Disease, short gut syndrome, Pancreas clinic, Joint liver/Gastro clinic, feeding problems and allergy. King's College Hospital serves as a national referral hospital for many specialties including Paediatric Hepatology and Bowel transplantation. Duties of this post holder will include management of inpatients with gastrointestinal, hepatology (during on call) and nutritional problems, consultations on referred patients, outpatients (currently see 2,500 patients a year) work and coordination of gastrointestinal investigations including oesophageal pH monitoring (including Bravo), upper and lower GI endoscopy (3 lists a week) (including enteroscopy) and hydrogen breath tests. Trainees will be expected to pursue a research project and have involvement in audit of gastrointestinal and nutrition services. There is a weekly GI meeting with hepatologists, monthly meeting with surgical colleagues, a weekly X ray and histology meeting. The trainees are encouraged to do presentations at these meetings and at other national and international gastroenterology conferences. Gastroenterology middle grade trainee will share non-resident on call with hepatology trainees and day today work with fellow gastroenterology colleagues.

**Departmental Information**

- Team
  - Consultant Staff

  Consultants
  
  Prof Anil Dhawan  Hepatology & Gastroenterology
  Prof Dino Hadzic  Hepatology
  Dr Alastair Baker  Hepatology & Gastroenterology
  Dr Richard Thompson  Hepatology
  Dr Maryanne Samyn  Hepatology
  Dr Sanjay Bansal  Hepatology
  Dr Jonathan Hind  Hepatology & Gastroenterology
  Dr Babu Vadamalayan  Gastroenterology
  Dr Emer Fitzpatrick  Hepatology & Gastroenterology
  Dr Tassos Grammatikopoulos  Hepatology
  Dr Ben Hope  Gastroenterology
Programme Description for PGHAN 2020

Dr Huey Miin Lee            Gastroenterology (TBC)
Prof Mark Davenport        General & Hepatobiliary surgery
Mr Shailesh Patel          General & GI surgery
Mr Niyi AdeAbaji           General & GI surgery
Mr Ashsish Desai           General & GI surgery & Bariatrics

Emeritus Prof Giorgina Vergani   General & Bariatric surgery

Hepatology

Other Staff:
Nutrition & GI nurse specialist, Dietician, Speech and Language Therapist, psychologist

- Supervisor(s)
  Dr B Vadmalayan babu.vadamalayan@nhs.net

Workload / Rota Arrangements / Example Timetable

<table>
<thead>
<tr>
<th>Illustrative Timetable</th>
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<tbody>
<tr>
<td>Morning</td>
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<td>Thursday</td>
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<tr>
<td>Joint Liver &amp; Gastro clinic (</td>
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<td>Friday</td>
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Other Clinics
Coeliac Clinic ( 6 monthly)
Feeding Clinic (monthly)
Joint Liver / Gastro clinic: Pancreas clinic
Short gut clinic
Transition clinic
Out-reach clinics |
Programme Description for PGHAN 2020

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

Expected to participate at least 1 audit / research project

Further training opportunities

Impedance pH study, Bravo pH study, C-pulse enteroscopy and balloon enteroscopy

Contact details for unit

Dr B Vadamalayan babu.vadamalayan@nhs.net

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
Programme Description for PGHAN 2020

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>Hepatology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>King’s College Hospital</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>London</td>
</tr>
</tbody>
</table>

**Outline of Programme**

King’s College Hospital for 2 ½ yrs and 6 months Paediatric Gastroenterology In North Thames

**Departmental Information**

- **Demographics**
  Paediatric liver center, based at King’s College Hospital, has an international reputation in research and the provision of high quality clinical care to children with acute and chronic liver diseases, metabolic liver diseases and pre and post liver transplant care.

- **Team**
  Prof Giorgina Mieli-Vergani, Prof Anil Dhawan, Alistair Baker, Dino Hadzic, Marianne Samyn, Sanjay Bansal, Jonathan Hind, Richard Thompson

- **Supervisor(s)**
  Dr Alastair Baker

**Clinical Training Responsibilities**

Advanced management of complex hepatological and gastrointestinal disorders including fulminant hepatic failure (50 referrals per year) and short bowel syndrome

- Diagnosis and management of acute and chronic liver diseases, metabolic liver diseases and liver tumours.
- Counselling of parents of children with complex hepatic and gastrointestinal conditions
- Follow up of children with complex liver disorders, and with chronic intestinal disorders
- Nutritional assessment - assessment of nutritional status, dietary requirements, theory and techniques of enteral and parental nutrition support; role of nutrition support teams and special needs
- Attain skills in co-operation with other specialists (surgery, radiology, pathology etc )
- Research and audit in the aspects of the field of hepatology, immunology and gastroenterology
- Achieve skills in teaching undergraduates and awareness of aids to teaching
Programme Description

Workload / Rota Arrangements / Example Timetable

<table>
<thead>
<tr>
<th>Population:</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatients Admission</td>
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<td>Outpatient Follow up</td>
<td>2000</td>
</tr>
<tr>
<td>Day case admission</td>
<td>750</td>
</tr>
</tbody>
</table>

Approximately 1 in 7 non resident on call rota

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

On going research projects include autoimmune liver disease, biliary atresia, cholestatic liver diseases, hepatocyte transplantation, viral hepatitis and acute liver failure.

- Teaching medical students/ nurses
- MRCPCH training for junior doctors
- Research / audit in Paediatric Hepatology, immunology or gastroenterology
- Presentation at different multidisciplinary meetings
- Presentation in Hospital Grand Rounds

Further training opportunities

- PICU, hepatology, nutritional care and transplant ward rounds
- Liver biopsy sessions and liver histopathology meetings
- Outpatient clinics
- Day case assessment
- Weekly inpatient and outpatient review meetings
- Weekly radiology meetings
- Weekly grand rounds and research meetings

Contact details for unit

Dr Alastair Baker alastair.baker@nhs.net

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
**London 2**

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C)</th>
<th>Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>St George’s Hospital</td>
<td>Gastroenterology</td>
<td>6</td>
<td>Dr John Fell</td>
<td>C</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Royal Free hospital</td>
<td>Gastroenterology</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kings College Hospital</td>
<td>Hepatology</td>
<td>6</td>
<td>Dr Sanjay Bansal <a href="mailto:sanjay.bansal@nhs.net">sanjay.bansal@nhs.net</a></td>
<td>C</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Chelsea and Westminster</td>
<td>Gastroenterology</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information:**

**Post Two:** 6 months gastroenterology at St George’s hospital followed by 12 months at Royal Free hospital; 6 months hepatology at King’s College Hospital and 12 months gastroenterology at Chelsea and Westminster Hospital.
Programme Description

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>PGHAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>St George's University Hospitals NHS</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>London</td>
</tr>
</tbody>
</table>

Outline of Programme:

6 month placement out of 3 year rotation across London. The trainee will be based at St George's University Hospitals NHS.

Departmental Information:

- Demographics:

St. George's Hospital (SGH) is a large multi-speciality facility based in South West London, offering a wide range of adult, paediatric and neonatal services. It is one of the largest healthcare units in the United Kingdom. The Trust serves a resident population of approximately 300,000 and sits within the Merton, Sutton, and Wandsworth localities, which is responsible for a collective population of 600,000. Referrals are also received from all across southern England. It is co-located with a medical school - St. George's, University of London. Tertiary children's services are offered by consultants based at SGH in gastroenterology, endocrinology, respiratory medicine, neurology, oncology, infectious diseases and PICU.

The paediatric gastroenterology department is a growing and busy one providing tertiary paediatric gastroenterology to South West London (covering 5-7 acute trusts) and beyond. It comprises 4 Consultants, 1.5 ST4+ middle grade, 2 specialist nurses and 2 specialist dietitians. The department provides expertise in management of Inflammatory Bowel disease (with 60-70 new diagnosis per year), chronic constipation and other functional GI disorders, Eosinophilic GI disorders, intestinal failure/home PN, GI problems in children with neurodevelopmental problems, and provides GI consultant for onsite paediatric subspecialties’ (Neonatology, Paediatric Surgery, Oncology, Infectious diseases, PICU etc). Endoscopy lists are mainly run from the St George's National Endoscopic Training centre.

- Team:

Dr Nkem Onyeador- Consultant Paediatric Gastroenterologist (Clinical Lead)
Dr Thankam Paul – Consultant Paediatric Gastroenterologist
Dr Attah Ocholi - Consultant Paediatric Gastroenterologist
Dr Raj Kapoor- Consultant Paediatrician with Gastroenterology interest
Isobel Connolly- Paediatric Specialist GI dietitian
Kerry Moolenschot- Paediatric Specialist GI dietitian
Nicholas Reps- IBD CNS
Programme Description

Rebecca Martin – Gastroenterology CNS
Also have dedicated Paediatric GI surgeons, Specialists Pharmacists, Histopathologist and access to Psychology services.

- Supervisor(s):
  
  Educational /Clinical Supervisor- Dr Nkem Onyeador
  Clinical Supervisor- Dr Thankam Paul, Dr Attah Ocholi, Dr Raj Kapoor

Clinical Training Responsibilities:

The post holder will receive training in common and more complex paediatric gastroenterology conditions in line with PGHAN RPCh Progress curriculum. This will include a wide ranging acute/elective inpatient, outpatient and day case patient load. The trainee will ward cover for gastroenterology in-patients and review day-case patients. They will participate in weekly PN rounds and virtual IBD and home PN rounds in addition to regular outpatient clinic attendance as below.

**Outpatient experience**

Regular GI outpatient clinics. Twice weekly attendance is expected.

Exposure to specialist clinic eg Gastro/Endocrine MDT clinic/ Home PN clinic/Dietetic led coeliac clinic etc.

Well established Transition clinics

Opportunity to attend Outreach paediatric GI clinics in East Surrey and St Helier's hospitals.

**Training in diagnostic techniques will include**

- upper and lower GI endoscopy - at St George's National Endoscopic Training centre
- Intraluminal impedance / pH studies and breath tests
- Wireless capsule endoscopy

The trainee will also undergo training in the nutritional management of infants, post-surgical neonates, and older children requiring both enteral and parenteral nutritional support as part of MDT.
### Daily Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30</td>
<td>Handover of paediatric patients/junior doctor teaching</td>
<td>Child Health Seminar Room</td>
</tr>
<tr>
<td>09.00</td>
<td>Daily ward round</td>
<td>5th floor wards</td>
</tr>
<tr>
<td>16.30</td>
<td>Handover to evening staff</td>
<td>Frederick Hewitt Ward</td>
</tr>
<tr>
<td>Daytime</td>
<td>Daycase reviews (e.g. pre-Infliximab)</td>
<td>Jungle Ward</td>
</tr>
</tbody>
</table>

### Weekly Events (unless otherwise stated)

#### Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00</td>
<td>Endoscopy half day list</td>
<td>Endoscopy suite</td>
</tr>
<tr>
<td>14.00</td>
<td>Consultant Led round</td>
<td>5th floor wards</td>
</tr>
</tbody>
</table>

#### Tuesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00</td>
<td>Admin/Audit</td>
<td>Paediatric Offices</td>
</tr>
<tr>
<td>14.00</td>
<td>Endoscopy half day list (alternate weeks)</td>
<td>Lanesborough theatres</td>
</tr>
</tbody>
</table>

#### Wednesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.30</td>
<td>Outpatient Clinic</td>
<td>Dragon Centre</td>
</tr>
<tr>
<td>13.00</td>
<td>Joint Radiology/Surgical meeting (monthly)</td>
<td>Child Health Seminar room</td>
</tr>
</tbody>
</table>

#### Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30</td>
<td>Breakfast Journal club</td>
<td>Child Health Seminar Room</td>
</tr>
<tr>
<td></td>
<td>GI MDT meeting</td>
<td></td>
</tr>
<tr>
<td>12.30</td>
<td>Histopathology Meeting</td>
<td>Histology Lab</td>
</tr>
<tr>
<td>14.00</td>
<td>Consultant Led ward round or Outpatient clinic</td>
<td>5th Floor wards</td>
</tr>
</tbody>
</table>

#### Friday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.30</td>
<td>General Paediatric Grey case teaching</td>
<td>Child Health Seminar Room</td>
</tr>
<tr>
<td>10.30</td>
<td>Virtual Biologics Clinic/Prescriptions</td>
<td>Paediatric Offices</td>
</tr>
<tr>
<td>12.30</td>
<td>Admin/Audit</td>
<td>Paediatric offices</td>
</tr>
</tbody>
</table>
Programme Description

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

- Involvement in audit and quality improvement projects
- Participation in ST 1-3 teaching and postgraduate and undergraduate programmes including MRPCH
- Involvement in clinical research projects.
- Helping to organise regular GI journal club
- Participation in departmental management meetings

**Further Training Opportunities:**

SGH offers a number leadership courses and senior trainees would be supported to attend to build up leadership and management skills required to be a consultant. NLS/APLS also run with discounted rate for internal applicants. For senior trainees the popular Summit (supervision, measurement and mentorship in training) is also available at a discounted rate for internal applicants.

**Contact details for Unit:**

<table>
<thead>
<tr>
<th>Telephone:</th>
<th>0208 725 3322</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail:</td>
<td><a href="mailto:Nkem.onyeador@stgeorges.nhs.uk">Nkem.onyeador@stgeorges.nhs.uk</a></td>
</tr>
</tbody>
</table>

**Curriculum:**

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

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>PGHAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>The Royal Free London NHS Foundation Trust</td>
</tr>
<tr>
<td></td>
<td>Gastro/RFH1 Training in Paediatric Gastroenterology</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>Oxford and London Deanery</td>
</tr>
</tbody>
</table>

Outline of Programme

The Centre for Paediatric Gastroenterology at the Royal Free London NHS Foundation Trust forms ONE YEAR of a three year SpR rotation, which may include the Royal London Hospital, Great Ormond Street Hospital, Chelsea and Westminster Hospital, King's College Hospital, Oxford and Southampton.

Departmental Information

- **Demographics**
  The Centre for Paediatric Gastroenterology at Royal Free Hospital is a Tertiary Paediatric Gastroenterology Unit which provides a range of secondary and tertiary facilities for the diagnosis and management of children and adolescents with gastrointestinal diseases.

  There is a large Paediatric Inflammatory Bowel Disease (IBD) Service, including an regular Transitional Care service for adolescent patients. This is an excellent opportunity to learn about the management of complex IBD patients. There are specialist clinics in IBD, motility and food allergy. There is also a multi-disciplinary feeding team for children with feeding problems. There is also a weekly Teaching Programme as well as training in endoscopy (OGD and Colonoscopy).

  We work closely with our local paediatricians, and provide excellent support to our regional outreach centres and referring hospitals as well as our local GP surgeries. We aim to provide rapid access with excellence in quality of care and communication.

  Dr Mark Furman is the Clinical Lead for Paediatric Gastroenterology, with an interest in IBD and EoE. Dr Dan Crespi has a interest in IBD and motility and is the lead for motility and related investigations. He also has a special interest in teaching and works closely with UCL to support medical student teaching. Dr Rachel Levi is a Locum Consultant in the team, and has a special interest in IBD and transition / adolescent care.

  There are two general anaesthetic endocopy lists every week which facilitates excellent training opportunities. There is close collaboration with the adult gastroenterology unit with access to endoscopy training simulators and wireless capsule endoscopy.

  There is an active clinical research program running, with collaborative research on a national and international level. Trainees are encouraged to take part and where possible aim to present work at meetings.
Programme Description

The service is supported by a team of 15 Consultant Paediatricians, with fully a consultant-provided acute general paediatric service which has been running at the Royal Free since March 2007. Paediatric Gastroenterology is also supported by the paediatric SHO level trainees. From 1 July 2014 Barnet and Chase Farm Hospitals have become part of the Royal Free London NHS Foundation Trust.

There is close collaboration with the adult gastroenterology unit, with an effective transition IBD service with Dr Charlie Murray, and also access to endoscopy training simulators and wireless capsule endoscopy, as well as joint Double Balloon Enteroscopy procedures with the Endoscopy Lead, Dr Ed Despott. The department has close links with the paediatric gastroenterology department at Great Ormond Street Hospital, including joint the Network Teaching programme.

- Team

We work as a very close team, with good atmosphere and a positive working environment. We have an open door policy and welcome discussions.

Susan Beecham, Paediatric IBD Nurse Specialist
Abi Freedman & Calire Alldritt, Paediatric Dietician
Helen Unsworth, Paediatric Speech and Language Specialist
Dr Deborah Woodman, Child Psychologist, CAMHS
Mr Gunju Ogunbiyi, Mr Jonathan Knowles & Mr Colin Hart, Colorectal surgeons
Mr Simon Blackburn, Paediatric Surgeon (sessional)
Isobel Beal & Jody Maclachlan, Paediatric Radiologists

- Supervisor(s)

Dr Mark Furman, Clinical Lead and Consultant Paediatric Gastroenterologist and Chief Medical Information Officer (CMIO)
Dr Daniel Crespi, Consultant Paediatric Gastroenterologist and Honorary Associate Clinical Professor, UCL
Dr Rachel Levi, Locum Consultant Paediatric Gastroenterologist
**Clinical Training Responsibilities**

Training in common and more complex paediatric gastroenterology conditions.

Training also in diagnostic techniques will include:

- Endoscopy Simulator training
- Upper GI endoscopy
- Colonoscopy
- Motility studies including Intraluminal impedance / pH studies
- Wireless capsule endoscopy
- Nutrition training including assessment of nutritional status, dietary requirements of children, use of enteral and short-term parenteral nutrition, particularly in children with IBD.

- To develop excellent communication skills in cooperation with other specialists (surgeons, pathologists, lab scientists and adult gastroenterologists).

- To achieve a level of understanding of current NHS management and strategies relevant to the stage of training.

- Expected to take part in clinical governance, guideline development and clinical audit

- To achieve skills in teaching undergraduates and improve presentation skills.

**Workload / Rota Arrangements / Example Timetable**

<table>
<thead>
<tr>
<th></th>
<th>Weekly SpR Rota</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday</strong></td>
<td></td>
</tr>
<tr>
<td>AM</td>
<td>09:00-13:00 Ward round and ambulatory (Infliximabs)</td>
</tr>
<tr>
<td>PM</td>
<td>13:30 - 17:00 Outpatient Clinic (GENL/Motility)</td>
</tr>
<tr>
<td></td>
<td>14:00 - 17:00 Admissions for endoscopy</td>
</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td></td>
</tr>
<tr>
<td>AM</td>
<td>08:00 - 12:30 Endoscopy</td>
</tr>
<tr>
<td>PM</td>
<td>13:00 - 14:00 Consultant Ward Round</td>
</tr>
<tr>
<td>Day</td>
<td>AM</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td><strong>Wednesday</strong></td>
<td>09:00 - 10:00 IBD MDT</td>
</tr>
<tr>
<td></td>
<td>10:00 - 11:00 Ward Round</td>
</tr>
<tr>
<td></td>
<td>11:00 - 12:00 Teaching</td>
</tr>
<tr>
<td><strong>PM</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Thursday</strong></td>
<td>09:00 - 12:00 Outpatient Clinic (Allergy)</td>
</tr>
<tr>
<td></td>
<td>12:30 - 13:30 Ward Round</td>
</tr>
<tr>
<td><strong>PM</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Friday</strong></td>
<td>08:00 - 12:30 Endoscopy</td>
</tr>
<tr>
<td></td>
<td>13:00 - 14:00 Ward Round</td>
</tr>
</tbody>
</table>
| **PM**    |                                         | 15:30 - 17:00 Remaining Ward work / discharge summary coordination for the week with physician’s assistant.
Programme Description

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

• Take part in teaching programme as detailed in the timetable
• Encouraged to take part in research program as appropriate to career needs
• Take part in departmental audit activity and guideline reviews
• Teaching and supervision of "SHO"'s and medical students

Further training opportunities

• Excellent supervised training in established and recognised centre for sub-specialty and excellent endoscopy training
• Endoscopy training on simulators (unique opportunity) - this helps to accelerate live endoscopy training
• Active paediatric clinical trials program
• Participation in half day Paediatric Gastroenterology Teaching Programme for Regional Teaching hosted at RFH
• Discounted APLS/NLS
• Quality Improvement training
• Opportunities to teach trainees for MRCPCH clinical exams.

Any further information

Senior ST 7/8 trainees near completion will be offered focussed coaching for preparation for job interviews, Finance planning, writing business case, managing governance issues by service leads.

Contact details for unit

For more information contact Dr M Furman, Dr Dan Crespi or Dr Rachel Levi on 020 7830 2782 or mark.furman@nhs.net, daniel.crespi@nhs.net or rlevi@nhs.net

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
Sub-specialty: Hepatology
Base Unit: King's College Hospital
Deaneries involved: London

Outline of Programme
King's College Hospital for 2 ½ yrs and 6 months Paediatric Gastroenterology In North Thames

Departmental Information
- Demographics
  Paediatric liver center, based at King's College Hospital, has an international reputation in research and the provision of high quality clinical care to children with acute and chronic liver diseases, metabolic liver diseases and pre and post liver transplant care.
- Team
  Prof Giorgina Mieli-Vergani, Prof Anil Dhawan, Alistair Baker, Dino Hadzic, Marianne Samyn, Sanjay Bansal, Jonathan Hind, Richard Thompson
- Supervisor(s)
  Dr Alastair Baker

Clinical Training Responsibilities
Advanced management of complex hepatological and gastrointestinal disorders including fulminant hepatic failure (50 referrals per year) and short bowel syndrome
- Diagnosis and management of acute and chronic liver diseases, metabolic liver diseases and liver tumours.
- Counselling of parents of children with complex hepatic and gastrointestinal conditions
- Follow up of children with complex liver disorders, and with chronic intestinal disorders
- Nutritional assessment - assessment of nutritional status, dietary requirements, theory and techniques of enteral and parental nutrition support; role of nutrition support teams and special needs
- Attain skills in co-operation with other specialists (surgery, radiology, pathology etc )
- Research and audit in the aspects of the field of hepatology, immunology and gastroenterology
- Achieve skills in teaching undergraduates and awareness of aids to teaching
Programme Description

Workload / Rota Arrangements / Example Timetable

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<td>Day case admission</td>
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</table>

Approximately 1 in 7 non resident on call rota

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

On going research projects include autoimmune liver disease, biliary atresia, cholestatic liver diseases, hepatocyte transplantation, viral hepatitis and acute liver failure.

- Teaching medical students/nurses
- MRCPCH training for junior doctors
- Research/audit in Paediatric Hepatology, immunology or gastroenterology
- Presentation at different multidisciplinary meetings
- Presentation in Hospital Grand Rounds

Further training opportunities

- PICU, hepatology, nutritional care and transplant ward rounds
- Liver biopsy sessions and liver histopathology meetings
- Outpatient clinics
- Day case assessment
- Weekly inpatient and outpatient review meetings
- Weekly radiology meetings
- Weekly grand rounds and research meetings

Contact details for unit

Dr Alastair Baker alastair.baker@nhs.net

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Programme Description

<table>
<thead>
<tr>
<th>Subspecialty:</th>
<th>Training Programme in Paediatric Gastroenterology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>Chelsea and Westminster Hospital NHS FT</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>London</td>
</tr>
</tbody>
</table>

Outline of Programme

The setting of the department is the Department of Paediatric Gastroenterology and Nutrition at Chelsea & Westminster Hospital (Imperial College Faculty of Medicine). The clinical interests of this tertiary referral unit include gastro-oesophageal reflux and gastritis, small bowel enteropathies including coeliac disease, and intractable diarrhoea; chronic inflammatory bowel disease, chronic constipation, nutrition and gastro-intestinal aspects of the management of cystic fibrosis. The unit is integrated with the regional paediatric surgical services which are focused on neonatal and non-invasive surgical innovation.

Departmental Information

- Demographics
  Outpatients new referrals >900 per annum, inpatients >650 per annum.
  Referral population 2.5 million +

- Team
  5 Paediatric Gastroenterologists, 2 Paediatric GI Surgeons, 1 Grid SpR / ST6-8, 2 non grid SpR / ST6-8 posts, Psychologist, Dietician, Pharmacist, 2 Specialist Nurses and Coordinator. The Paediatric Department has over 10 SpRs based at C&W covering general paediatrics, endocrinology, neurology, A & E, NICU and community.

- Supervisor(s)
  Dr John Fell  john.fell@chelwest.nhs.uk  020 3315 8628

Clinical Training Responsibilities

- The program takes into account the guidelines put forward for training in paediatric gastroenterology by the British Society for Paediatric Gastroenterology Hepatology & Nutrition.

- Responsibility for the management of gastroenterology inpatients.

- Endoscopy: JAG accredited endoscopy service. Training includes simulation training.

- The trainee will have specific training in a variety of diagnostic techniques. These include oesophageal pH and impedance studies, gut motility studies and breath tests.

- The trainee will also undergo training in the nutritional management of infants, post-surgical neonates, and older children requiring both enteral and parenteral nutritional support.

- The trainee will be involved in collaborative management with paediatric surgeons and neonatologists, as well as histopathologists and radiologists.
Programme Description

Workload / Rota Arrangements / Example Timetable

This follows a full shift system, covering general paediatric out of hours.

Gastroenterology timetable:

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Ward work / endoscopy list</td>
<td>*Ward work</td>
<td>*Ward work / endoscopy list</td>
<td>*Ward work</td>
<td>*Ward work / Out patient clinic</td>
</tr>
<tr>
<td>11.00 – 13.00</td>
<td>Weekly review round / nutrition round</td>
<td>12.15 Teaching 1300 X ray meeting</td>
<td>1330 *Endoscopy plus post endoscopy ward round</td>
<td>1400 Ward round</td>
</tr>
<tr>
<td>1300 Lunchtime meeting</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>1400 Teaching ward round</td>
<td>1400 Out patient clinic</td>
<td>1400 Multi-disciplinary Ward Round</td>
<td>1300 *Endoscopy plus post endoscopy ward round</td>
<td>1400 Ward round</td>
</tr>
</tbody>
</table>

*Ward work or clinical administration / audit on alternate weeks (alternate with other GI SpR / ST)

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

- Participation in ST 1-3 teaching and postgraduate and undergraduate programmes
- Involvement in audit
- Involvement in clinical research projects. There are numerous research opportunities within the department and in association with Imperial College
- Opportunity to further develop clinical guidelines
- Organise GI seminars/journal club
- Participation in departmental management meetings

Further training opportunities

- Experience in neonatal gastroenterology
Programme Description

- GI support for other tertiary centres within Imperial College Faculty of Medicine (Royal Brompton, Hammersmith and St Mary’s Hospitals)

- Shared care/participation in gastroenterology clinics and liaison with inpatient care at St Marks/ Northwick Park, Ealing and West Middlesex Hospitals

Contact details for unit

020 3315 8628

Curriculum

Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
# Programme Description

## Mersey/ North West/ Yorkshire and Humber

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alderhey Children's Hospital</td>
<td>Paediatric Gastroenterology</td>
<td>18</td>
<td>Dr Elizabeth Renji <a href="mailto:Elizabeth.renji@alderhey.nhs.uk">Elizabeth.renji@alderhey.nhs.uk</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Royal Manchester Children's Hospital</td>
<td>Paediatric Gastroenterology</td>
<td>12</td>
<td>Dr Andrew Fagbemi <a href="mailto:Andrew.fagbemi@mft.nhs.uk">Andrew.fagbemi@mft.nhs.uk</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Leeds Children's Hospital</td>
<td>Paediatric Hepatology</td>
<td>6</td>
<td>Dr Sanjay Rajwal <a href="mailto:Sanjay.rajwal@nhs.net">Sanjay.rajwal@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
</tbody>
</table>

### Additional Information:
- Paediatric Gastroenterology Liverpool - September 2020- February 2022 - For eighteen months
- Paediatric Gastroenterology Manchester - February 2022-February 2023 - For twelve months
- Paediatric Hepatology Leeds: February 2023 - August 2023 - For six months
Programme Description

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>Gastroenterology, Hepatology and Nutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>Alder Hey Children's NHS Foundation Trust, Liverpool</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>Northwest, and Yorkshire and Humber</td>
</tr>
</tbody>
</table>

Outline of Programme

Three year training programme in three centres with outstanding clinical training opportunities- 18 months gastroenterology, hepatology and nutrition at the innovative, newly built Alder Hey Children's Hospital (Children's Health Park) in Liverpool, 12 months gastroenterology in the fantastic Manchester Children's Hospital, and 6 months training at the quaternary hepatology service in the brilliant Children's hospital in Leeds.

With 6 full-time consultants plus an academic consultant, the trainee has the excellent opportunity to learn and upskill in endoscopy from 5 weekly endoscopy lists to advance in diagnostic and interventional endoscopy with over 1000 endoscopies per year, PEGs, polypectomies and dilatations. The trainee will be offered opportunities to fulfil all requirements for JETS approval for OGD and is expected to meet all criteria for colonoscopy JETS approval. Alderhey is leading on PEG insertions and replacements.

Alderhey offers a formal polyposis service, Inflammatory Bowel disease service, short bowel and home parenteral nutrition service, Coeliac disease, Eosinophilic gastrointestinal diseases service.

Alderhey provides the trainees with excellent audit and research opportunities for IBD conditions, TPN, eosinophilic conditions, GOR, coeliac disease with multiple clinical studies active particularly in IBD, with the presence of the NIHR Alderhey Research clinical facility in house we are unique in that the gastroenterology research nurses share our office space which increases collaboration and recruitment research trials.

The centre offers many multidisciplinary clinics:- national Behcets clinics with rheumatology, formal polyposis clinic, joint Hepatology clinic with hepatologist from Leeds, joint cardiac and neuromedical feeding clinics, joint IBD and joint GOR clinics with surgeons, Joint Gastroenterology and Allergy clinics, Joint endocrine and gastroenterology clinics, Joint Cystic fibrosis and gastroenterology clinics and transition clinics with the Royal Liverpool and other DGHs.

The centre prides in the provision of a paediatric GI physiology service with 2 full time physiologists to perform annually more than 135 hydrogen breath tests, 80 impedance studies, 75 urea breath tests and pH studies, 35 ano-rectal and oesophageal manometries, and 20 video capsule endoscopies.

The centre has benefited from a drive for expansion of consultant numbers, establishment of the Regional Paediatric gastroenterology network and GI physiology services offered- accepting regional and national referrals.

The training will offer the trainees the opportunity to have a regular weekly MDT with a dedicated clinical psychology service.

The unit has a dedicated teaching and training program (in addition to the mandatory STEP teaching and Grand rounds) with contribution from all members of the Multidisciplinary team to meet the curriculum requirements.

The trainee will be introduced to learn and manage the full spectrum of tertiary gastroenterology, hepatology and nutrition with all aspects of IBD service, managing TPN patients with dieticians, pharmacists, SALT, specialist TPN nurses, Stoma nurses and surgeons collaboratively,
Programme Description

learning to manage complex patients in close interdisciplinary collaboration with other specialties often presenting with nutritional problems, and jointly managing patients pre- and post liver and small bowel transplantation.

Being a national centre for cardiac surgery, ECMO, and with a large paediatric ICU, and with a long tradition of multidisciplinary collaboration and team-working. Alder Hey has launched the Centre for international child health providing outstanding opportunities. Excellent transition clinics for IBD, polyposis, and hepatology are set up with adult clinics in Liverpool and affiliated DGHs.

It is expected that the trainee will prepare at least 1 audit per 6 months, 1 presentation at national or international per year, and 1 publication over the duration of training and support will be provided by the academic consultant, research lead, and educational/clinical leads. Quaternary level hepatology training is provided in Leeds (6 months) with further gastroenterology and nutritional training in Manchester (12 months). The rotation offers some flexibility regarding timing of the rotation.

Departmental Information

- Demographics

  The paediatric GHN department in Alder Hey provides tertiary care for a population of 6 Million people and 275,000 children from Merseyside, Cheshire, Lancashire, Greater Manchester, Shropshire and North Wale. Inpatients

  Outpatients - 4700 / year

  Inpatients - 10-15 / day in new interdisciplinary medical specialties ward

- Team

  Dr Marcus Auth, Dr Sarang Tamhne, Dr Fiona Cameron, Dr Manjula Velayudhan Nair, Dr Elizabeth Renji, One vacant post - Locum at present - Clinical Supervisors

  Prof Steve Allen, Academic consultant, supervises research programme

- Trainees

  - 1/2 National Grid trainee in paediatric gastroenterology and nutrition

  - 2 STR's (ST4-8 level) in Paediatrics

  - 1 ST1/ ST2 doctor - gastroenterology

  - 1 Speciality based Foundation doctor - F1

  - 1 Clinical Fellow

- Clerical support and allied health professionals:

  - 3 pathway coordinators (Sandra Thomson, Janet McComb, Jenny Hughes), and additional clerical staff

  - 5 allocated dieticians (Emma Jones, Sharon Watters, Helen Garrett, Carolyn Johnson, Christopher Greaves)
Programme Description

- 5 clinical nurse specialists (Sharon Irving, Claire Mcgic-TPN, David Aylward, Peter Grant, - IBD, Liver, Brenda Hill, - Stoma care)

- 2 GI physiologist _Rachael McGhee and Helen Gorrick

- 2 allocated clinical Psychologists (Claire Anderson, Jenna Faye)

- 3 Research nurses and assitants- Rebecca Stewart Davies, Janet Clark, Lauren Mclellan

- Supervisor(s)
  Dr Elizabeth Renji  Educational Supervisor,
  
  Dr Marcus Auth, Dr Sarang Tamhne, Dr Fiona Cameron, Dr Manjula Velayudhan Nair, Dr Elizabeth Renji, Prof Steve Allen -Clinical supervisors

Clinical Training Responsibilities

The program takes into account the curriculum put forward for training in paediatric gastroenterology by the British Society for Paediatric Gastroenterology Hepatology & Nutrition. These include management of gastroenterology inpatients, participation in out patient clinics as appropriate for their training, formal endoscopy training (upper gastrointestinal endoscopy, colonoscopy, interventions including PEG-insertions, PEG-to Button procedures, polypectomies), diagnostic GI physiology studies including participation in video capsule endoscopy, pH/ impedance studies, manometry and breathe tests. The trainee will also undergo training in the nutritional management of children requiring both enteral and parenteral nutrition in collaborative management with medical and surgical teams.

This includes attending morning general / specialty handover meeting daily,

one designated training endoscopy lists per week with potential attendance for second and third endoscopy lists depending on training requirements and overall training progress;

attending consultant led inpatient ward rounds daily,

acute review of children under care or referred to GHN

supporting consultant of the week in consultations,

at least one clinic per week with potential attendance of second clinic, GHN generic and specialist clinics with MDT involvement

attendance at weekly IBD MDT and GHN team meeting

Attendance and presentation at journal club and formal training sessions

Workload / Rota Arrangements / Example Timetable

On call is covered by a shift rota of 15-20 people covering general paediatrics and paediatric specialities.

The trainee will contribute to the out-of-hours acute general paediatric senior grade rota. The post is compliant with EWTD & subspecialty training requirements.
<table>
<thead>
<tr>
<th>DAY</th>
<th>AM</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td><strong>8.45-9.00 Handover meeting</strong>&lt;br&gt;9.00-9.30 Team week meeting&lt;br&gt;clinics and endoscopy list allocation&lt;br&gt;9:30-12:30 Ward round GHN lead Clinic</td>
<td>Clinical admin time 1230-1430&lt;br&gt;14.30-16.30 Ward round outliers and referrals&lt;br&gt;16:30-17:00 handover meeting&lt;br&gt;PM Endoscopy list Clinic</td>
</tr>
<tr>
<td>Tuesday</td>
<td><strong>8.45-9.00 Handover meeting</strong>&lt;br&gt;Journal club and formal GHN training&lt;br&gt;9.00-12:30 SpR gastroenterology clinic&lt;br&gt;9:30-12:30 Ward round GHN lead Clinic</td>
<td>1300-1330 Clinical psychologist MDT&lt;br&gt;1330-1500 Departmental MDT- IBD, TPN, Service development, Endoscopy, Clinical governance, Mortality/Morbidity&lt;br&gt;1500-1600 Histopathology MDT&lt;br&gt;1600- Joint Radiology MDT – once a month&lt;br&gt;1630-1700-Biologics MDT</td>
</tr>
<tr>
<td>Wednesday</td>
<td><strong>AM Endoscopy list – trainee</strong>&lt;br&gt;Trust teaching SPR – 1300&lt;br&gt;0900-1230- Ward round GHN lead Clinic</td>
<td>Specialist /MDT /Joint clinic&lt;br&gt;PM Endoscopy list</td>
</tr>
<tr>
<td>Thursday</td>
<td><strong>AM Endoscopy list</strong>&lt;br&gt;Research/Audit Time&lt;br&gt;IBD – MDT weekly&lt;br&gt;Ward round GHN lead Clinic</td>
<td>PM Endoscopy list</td>
</tr>
<tr>
<td>Friday</td>
<td><strong>9.00-10.00 Grand round teaching</strong>&lt;br&gt;1000-1300- Ward round GHN led Clinic</td>
<td>1330-1400 Handover meeting&lt;br&gt;14:30 Research/audit time / reflective practice / management/ teaching&lt;br&gt;1530-1630 Clinical admin time&lt;br&gt;1630-1700 Handover for weekend</td>
</tr>
</tbody>
</table>
Programme Description

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

• Participation in teaching - undergraduate and post graduate
• Active participation in audit and opportunities to conduct clinical research and publish manuscripts - now under formal research lead and portfolio
• Organising weekly GI journal club / teaching
• Participation in departmental clinical and management meetings

Further training opportunities

Presentation of audits and studies at National and International meetings is encouraged and supported. Development of departmental and Trust guidelines

Attendance at specialist IBD, liver, TPN/short gut, polyposis, cardiology & neurology feeding, transition, Hirschprung's, CF, Behcet's, coeliac, and GOR clinics

Learning to set up and interpret GI physiology investigations under supervision and guidance from consultants and GI physiologist, including impedance, video capsule endoscopy, urea and hydrogen breath tests, pH studies, manometries.

Any further information

The programme allows the successful rotation to train through 3 centres (Liverpool, Manchester and Leeds) to offer outstanding training opportunities and a healthy work-life balance. The trainee will have the privilege and enjoyment to work in the brand new and iconic new Children's hospital (Alder Hey Children's Health Park) in a vibrant harbour city with a wonderful countryside and excellent transport connections.

Awarded with UNESCO-World heritage status, European city of culture 2008, major city development (Liverpool One etc), and a rich history in music, sports, education and modern culture, and located at the Irish Sea and near the Lake District and North Wales, Liverpool has everything to offer for the trainees and their families, and provides abundance of very affordable accommodation.

Contact details for unit

Dr Elizabeth Renji
Consultant Paediatric Gastroenterologist,
Alder Hey Children's NHS Foundation Trust
Eaton Road, Liverpool L12 2AP
Phone: 0151-282-5541 and 0151-228-4811 ext 5153
Fax: 0151-252-5928
Email: elizabeth.renji@alderhey.nhs.uk

Curriculum

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

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<th>Sub-specialty:</th>
<th>Paediatric Gastroenterology</th>
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<td>Base Unit:</td>
<td>Royal Manchester Childrens Hospital</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>North Western</td>
</tr>
</tbody>
</table>

**Outline of Programme**

18/12 months paediatric gastroenterology training in the UKs largest single site childrens hospital (371 beds).

The grid trainee will have wide exposure to a broad range of paediatric gastroenterology conditions including severe enteropathies, inflammatory bowel disease, eosinophilic gastrointestinal disease, neonatal cholestasis and other liver disease, gastro-oesophageal reflux disease and intestinal failure and home parenteral nutrition. Investigative procedures include upper and lower gastrointestinal endoscopy, oesophageal pH/impedance studies, liver biopsies and intestinal manometry.

The trainee will also have the opportunity to join joint MDT clinics - joint immunology/allergy - gastroenterology clinics, joint endocrine - gastroenterology clinics, joint pancreatico-gastroenterology clinics with the adult tea, joint Liver - gastroenterology clinics with the hepatologist, Joint surgical- gastroenterology clinics for the range of services provided and transition clinics with the adult team.

**Departmental Information**

- **Demographics**
  The department provides a comprehensive tertiary regional service for the whole of the North West of England. We care for >300 children with IBD (50 new referrals annually) and >500 endoscopic procedures performed electively and as emergency each year. Large intestinal failure service with ~15 patients on HPN.

- **Team**
  - 2 IBD and nutritional care nurse specialists
  - 1 nurse practitioner with particular expertise in GI investigative procedures
  - 2 senior gastroenterology dietitians, 1 gastroenterology pharmacist, 1 consultant clinical scientist
  - 1 general paediatric STR (beyond ST3 level), 2-3 general paediatric trainees (ST2-3)
  - 4 GI consultants, paediatric GI surgeons

- **Supervisor(s)**

  Clinical supervisors
  
  Dr Andrew Fagbemi
  Dr Loveday Jago
  Dr Ahmed Kadir
  Dr Dalia Belsha
  Dr Adrian Thomas
Programme Description

**Clinical Training Responsibilities**

Educational Supervisor : Dr Andrew Fagbemi

**Workload / Rota Arrangements / Example Timetable**

Monday am: Gastroenterology teaching/Xray meeting; Histology meeting; Handover meeting, IBD MDT

Monday pm: Outpatient clinic

Tuesday am: Endoscopy list

Tuesday pm: Grand round

Wednesday am: Outpatient clinic or endoscopy list

Wednesday pm: Audit/Research/Admin

Thursday am: Endoscopy list

Thursday pm: Outpatient clinic

Friday am: Grand round

Friday pm: Audit/Research/Admin

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

Participation in ST 1-3 teaching. Involvement in audit. Participation in departmental management meetings.

Involvement in clinical research projects. The department has a strong research record and has published extensively on IBD and has conducted a large number of Cochrane reviews

Opportunity to further develop clinical guidelines. Organise GI seminars.

**Further training opportunities**

GI support for other specialities inc PICU, NICU & BMT. MDT speciality & transition clinics.

**Contact details for unit**

Andrew.Fagbemi@mft.nhs.uk  0161 701 2371

**Curriculum**

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
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<td>Leeds Children's Hospital</td>
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<tr>
<td>Deaneries involved:</td>
<td>Yorkshire and Humber</td>
</tr>
</tbody>
</table>

Outline of Programme:

This post involves 30 months training in hepatology and 6 months training in gastroenterology, all at Leeds Children's Hospital.

Departmental Information:

The Children's Liver and GI Unit, Leeds Children's Hospital, is one of the 3 National Specialist Services for Paediatric Liver Disease including transplantation. The service receives approximately 300 new referrals per year from the North of England, Wales, Scotland and Northern Ireland. The unit performs ~15 Kasai portoenterostomies and 20 liver transplant operations per year including live related transplantation. Specialist clinics include viral hepatitis, metabolic liver disease, fatty liver disease and adolescent services and there are outreach clinics throughout the referral area.

The regional gastroenterology and nutrition service includes medical and surgical management of a large population of patients with inflammatory bowel disease. There is also a well established intestinal failure and home parenteral nutrition team with strong links to the neonatal surgical unit. The endoscopy services are supported by JETS approved trainers.

In Leeds there is a 16 bedded ward (also shared with nephrology/renal transplantation), and access to PICU. Medical and surgical patients with GI and liver diseases are managed on the ward and in joint outpatient clinics. There are several general anaesthetic lists per week for upper GI endoscopies (including banding and sclerotherapy) and liver biopsies.

Team:

The Liver team is led by 5 consultant hepatologists, 2 hepatobiliary surgeons and 4 liver transplant surgeons. There are 2 ST6-8 training posts, one post CCT clinical fellow and 2 ST2-3 posts. The GI team includes 3 consultant gastroenterologists and 3 GI surgeons. There is one HST 4-8 post, one LST post and an FY2 trainee. There are large multidisciplinary teams (specialist nurses, dietitians, pharmacists, psychologists, social workers) involved in the management of both liver and GI children and close links with all other paediatric specialities, adult hepatology/gastroenterology, interventional radiology and specialist laboratory services.

Supervisor(s):

Hepatology - Dr S Rajwal
Gastroenterology - Dr V Zamvar
Programme Description

**Clinical Training Responsibilities:**

Inpatient and outpatient care of children with common and complex liver, GI and nutritional disorders. Specialist clinics in metabolic liver disease, viral hepatitis, fatty liver disease and home parenteral nutrition. Training in upper GI endoscopy including management of bleeding varices. Training in care of adolescents and transition to adult services.

**Workload/Rota Arrangements/Example Timetable:**

Example of weekly timetable in the liver unit

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>9.00 Grand ward round 11.30 Transplant MDT 12 Radiology MDT</td>
<td>All day GA list (alt weeks) post transplant annual review clinic</td>
<td>Registrar ward round Admissions for theatre on Thurs</td>
<td>8.30 All day hepatology GA list / 9.10 Post Transplant clinic</td>
</tr>
<tr>
<td>PM</td>
<td>13.30 General Hepatology or Metabolic liver clinic</td>
<td>14.00 Multidisciplinary/psychosocial meeting 15.00 histology or audit/research meeting alt weeks</td>
<td></td>
<td>Monthly Adolescent, NAFLD and virology clinics</td>
</tr>
</tbody>
</table>

There will be a consultant led ward round every morning at 9am and evening at 4 pm, except Wednesday morning. Consultant of the week also does a morning ward round on Sat and Sun. Thursday morning GA list is usually endoscopies and liver biopsies but if a child needs surgery for biliary atresia the whole day is used for the Kasai operation. Urgent endoscopies and liver biopsies can occur any day of the week.

On call is covered by a shift rota of 8-10 people covering paediatric specialities including oncology, nephrology and neurology

**Example of weekly timetable in the gastroenterology and nutrition unit**

<table>
<thead>
<tr>
<th>MONDAY</th>
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<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>9.00 IBD OP clinic</td>
<td>9.00 Registrar ward round 12.30 Psychosocial meeting 13.00 Postgraduate meeting</td>
<td>9.00 X-ray meeting 10.00 teaching; registrar ward round 11.30 Neonatal unit MDT round</td>
<td>9.00 Gastroenterology OP clinic Endoscopy list (Dr Zamvar)</td>
</tr>
<tr>
<td>PM</td>
<td>14.00 Gastroenterology inpatient ward round</td>
<td>2 pm Multidisciplinary HPN patient review 6 pm IBD MDT meeting</td>
<td>13.30 Gastroenterology OP; joint clinic or intestinal failure clinic</td>
<td>14.00 Rapid access clinic</td>
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</tbody>
</table>
Programme Description

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

There are postgraduate teaching and research facilities and each team has an established research profile. Excellent library facilities and internet access are available. The weekly timetable includes grand rounds, MDT meetings, ward teaching and journal clubs. Specialist audit meetings occur every 3 months. Supra regional clinical meetings in Gastroenterology and Hepatology occur every 6 months.

Further Training Opportunities:

Presentation and publication of cases and studies at National and International meetings or in journals is encouraged.

Any further Information:

Leeds is the cultural centre for the region providing excellent theatre, musical, art and sporting opportunities. There are good communication links between Leeds and other regional centres in Manchester, Liverpool, Newcastle and Sheffield and the national parks of the Peak District, Yorkshire Dales and the Lake District are easily accessible.

Contact details for Unit:

<table>
<thead>
<tr>
<th>Telephone</th>
<th>Dr Sanjay Rajwal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consultant Paediatric Hepatologist</td>
</tr>
<tr>
<td></td>
<td>Paediatric Offices, E Floor, Martin Wing</td>
</tr>
<tr>
<td></td>
<td>Leeds General Infirmary</td>
</tr>
<tr>
<td></td>
<td>Great George Street</td>
</tr>
<tr>
<td></td>
<td>Leeds LS1 3EX</td>
</tr>
<tr>
<td></td>
<td>0113 3025158</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:Sanjay.rajwal@nhs.net">Sanjay.rajwal@nhs.net</a></td>
</tr>
<tr>
<td></td>
<td>Dr V Zamvar</td>
</tr>
<tr>
<td></td>
<td>Consultant Paediatric Gastroenterologist</td>
</tr>
<tr>
<td></td>
<td>Paediatric Offices, A floor, Old Main Site</td>
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<td></td>
<td>0113 3922669</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:veena.zamvar@nhs.net">veena.zamvar@nhs.net</a></td>
</tr>
</tbody>
</table>

Curriculum:

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

## North West/ Mersey/Yorkshire and Humber

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<th>Hospital / Centre</th>
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</tbody>
</table>

**Additional Information:**

- Paediatric Gastroenterology Manchester – September 2020 - September 2021 - For twelve months
- Paediatric Gastroenterology Liverpool - September 2021 - September 2022 - For twelve months
- Paediatric Hepatology Leeds - September 2022 - February 2023 - For six months
- Paediatric Gastroenterology Manchester – February 2023 - August 2023 - For six months
Programme Description

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>Paediatric Gastroenterology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>Royal Manchester Childrens Hospital</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>North Western</td>
</tr>
</tbody>
</table>

Outline of Programme

18/12 months paediatric gastroenterology training in the UK’s largest single site childrens hospital (371 beds).

The grid trainee will have wide exposure to a broad range of paediatric gastroenterology conditions including severe enteropathies, inflammatory bowel disease, eosinophilic gastrointestinal disease, neonatal cholestasis and other liver disease, gastro-oesophageal reflux disease and intestinal failure and home parenteral nutrition. Investigative procedures include upper and lower gastrointestinal endoscopy, oesophageal pH/impedance studies, liver biopsies and intestinal manometry.

The trainee will also have the opportunity to join joint MDT clinics - joint immunology/allergy - gastroenterology clinics, joint endocrine- gastroenterology clinics, joint pancreatico-gastroenterology clinics with the adult tea, joint Liver - gastroenterology clinics with the hepatologist, Joint surgical- gastroenterology clinics for the range of services provided and transition clinics with the adult team.

Departmental Information

- Demographics
  The department provides a comprehensive tertiary regional service for the whole of the North West of England. We care for >300 children with IBD (50 new referrals annually) and >500 endoscopic procedures performed electively and as emergency each year. Large intestinal failure service with ~15 patients on HPN.

- Team
  - 2 IBD and nutritional care nurse specialists
  - 1 nurse practitioner with particular expertise in GI investigative procedures
  - 2 senior gastroenterology dietitians, 1 gastroenterology pharmacist, 1 consultant clinical scientist
  - 1 general paediatric STR (beyond ST3 level), 2-3 general paediatric trainees (ST2-3)
  - 4 GI consultants, paediatric GI surgeons
- Supervisor(s)
  Clinical supervisors
  - Dr Andrew Fagbemi
  - Dr Loveday Jago
  - Dr Ahmed Kadir
  - Dr Dalia Belsha
  - Dr Adrian Thomas

Clinical Training Responsibilities

Educational Supervisor: Dr Andrew Fagbemi
Programme Description

**Workload / Rota Arrangements / Example Timetable**

Monday am: Gastroenterology teaching/Xray meeting; Histology meeting; Handover meeting, IBD MDT
Monday pm: Outpatient clinic
Tuesday am: Endoscopy list
Tuesday pm: Grand round
Wednesday am: Outpatient clinic or endoscopy list
Wednesday pm: Audit/Research/Admin
Thursday am: Endoscopy list
Thursday pm: Outpatient clinic
Friday am: Grand round
Friday pm: Audit/Research/Admin

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

Participation in ST 1-3 teaching. Involvement in audit. Participation in departmental management meetings.

Involvement in clinical research projects. The department has a strong research record and has published extensively on IBD and has conducted a large number of Cochrane reviews

Opportunity to further develop clinical guidelines. Organise GI seminars.

**Further training opportunities**

GI support for other specialties inc PICU, NICU & BMT. MDT speciality & transition clinics.

**Contact details for unit**

Andrew.Fagbemi@mft.nhs.uk  0161 701 2371

**Curriculum**

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

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>Gastroenterology, Hepatology and Nutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>Alder Hey Children's NHS Foundation Trust, Liverpool</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>Northwest, and Yorkshire and Humber</td>
</tr>
</tbody>
</table>

Outline of Programme

Three year training programme in three centres with outstanding clinical training opportunities- 18 months gastroenterology, hepatology and nutrition at the innovative, newly built Alder Hey Children's Hospital (Children's Health Park) in Liverpool, 12 months gastroenterology in the fantastic Manchester Children's Hospital, and 6 months training at the quaternary hepatology service in the brilliant Children's hospital in Leeds.

With 6 full -time consultants plus an academic consultant, the trainee has the excellent opportunity to learn and upskill in endoscopy from 5 weekly endoscopy lists to advance in diagnostic and interventional endoscopy with over 1000 endoscopies per year, PEGs, polypectomies and dilatations. The trainee will be offered opportunities to fulfil all requirements for JETS approval for OGD and is expected to meet all criteria for colonoscopy JETS approval. Alderhey is leading on PEG insertions and replacements.

Alderhey offers a formal polyposis service, Inflammatory Bowel disease service, short bowel and home parenteral nutrition service, Coeliac disease, Eosinophilic gastrointestinal diseases service.

Alderhey provides the trainees with excellent audit and research opportunities for IBD conditions, TPN, eosinophilic conditions, GOR, coeliac disease with multiple clinical studies active particularly in IBD, with the presence of the NIHR Alderhey Research clinical facility in house we are unique in that the gastroenterology research nurses share our office space which increases collaboration and recruitment research trials.

The centre offers many multidisciplinary clinics:- national Behcets clinics with rheumatology, formal polyposis clinic, joint Hepatology clinic with hepatologist from Leeds, joint cardiac and neuromedical feeding clinics, joint IBD and joint GOR clinics with surgeons, Joint Gastroenterology and Allergy clinics, Joint endocrine and gastroenterology clinics, Joint Cystic fibrosis and gastroenterology clinics and transition clinics with the Royal Liverpool and other DGHs.

The centre prides in the provision of a paediatric GI physiology service with 2 full time physiologists to perform annually more than 135 hydrogen breath tests, 80 impedance studies, 75 urea breath tests and pH studies, 35 ano-rectal and oesophageal manometries, and 20 video capsule endoscopies.

The centre has benefited from a drive for expansion of consultant numbers, establishment of the Regional Paediatric gastroenterology network and GI physiology services offered- accepting regional and national referrals.

The training will offer the trainees the opportunity to have a regular weekly MDT with a dedicated clinical psychology service.

The unit has a dedicated teaching and training program (in addition to the mandatory STEP teaching and Grand rounds) with contribution from all members of the Multidisciplinary team to meet the curriculum requirements.

The trainee will be introduced to learn and manage the full spectrum of tertiary gastroenterology, hepatology and nutrition with all aspects of IBD service, managing TPN patients with dieticians, pharmacists, SALT, specialist TPN nurses, Stoma nurses and surgeons collaboratively.
Programme Description

learning to manage complex patients in close interdisciplinary collaboration with other specialties often presenting with nutritional problems, and jointly managing patients pre- and post liver and small bowel transplantation.

Being a national centre for cardiac surgery, ECMO, and with a large paediatric ICU, and with a long tradition of multidisciplinary collaboration and team-working. Alder Hey has launched the Centre for international child health providing outstanding opportunities. Excellent transition clinics for IBD, polyposis, and hepatology are set up with adult clinics in Liverpool and affiliated DGHs.

It is expected that the trainee will prepare at least 1 audit per 6 months, 1 presentation at national or international per year, and 1 publication over the duration of training and support will be provided by the academic consultant, research lead, and educational/clinical leads. Quaternary level hepatology training is provided in Leeds (6 months) with further gastroenterology and nutritional training in Manchester (12 months). The rotation offers some flexibility regarding timing of the rotation.

Departmental Information

- Demographics
The paediatric GHN department in Alder Hey provides tertiary care for a population of 6 Million people and 275,000 children from Merseyside, Cheshire, Lancashire, Greater Manchester, Shropshire and North Wales. Inpatients

Outpatients - 4700 / year

Inpatients - 10-15 / day in new interdisciplinary medical specialties ward

- Team

Dr Marcus Auth, Dr Sarang Tamhne, Dr Fiona Cameron, Dr Manjula Velayudhan Nair, Dr Elizabeth Renji, One vacant post - Locum at present - Clinical Supervisors

Prof Steve Allen, Academic consultant, supervises research programme

- Trainees

- 1/2 National Grid trainee in paediatric gastroenterology and nutrition

- 2 STR’s (ST4-8 level) in Paediatrics

- 1 ST1/ST2 doctor - gastroenterology

- 1 Speciality based Foundation doctor - F1

- 1 Clinical Fellow

- Clerical support and allied health professionals:

- 3 pathway coordinators (Sandra Thomson, Janet McComb, Jenny Hughes), and additional clerical staff

- 5 allocated dieticians (Emma Jones, Sharon Watters, Helen Garrett, Carolyn Johnson, Christopher Greaves)
Programme Description

- 5 clinical nurse specialists (Sharon Irving, Claire Mcg-ie-TPN, David Aylward, Peter Grant, IBD, Liver, Brenda Hill, Stoma care)
- 2 GI physiologist Rachael McGhee and Helen Gorrick
- 2 allocated clinical Psychologists (Claire Anderson, Jenna Faye)
- 3 Research nurses and assistants Rebecca Stewart Davies, Janet Clark, Lauren McLellan

Supervisor(s)
Dr Elizabeth Renji Educational Supervisor,
Dr Marcus Auth, Dr Sarang Tamhne, Dr Fiona Cameron, Dr Manjula Velayudhan Nair, Dr Elizabeth Renji, Prof Steve Allen Clinical supervisors.

Clinical Training Responsibilities

The program takes into account the curriculum put forward for training in paediatric gastroenterology by the British Society for Paediatric Gastroenterology Hepatology & Nutrition. These include management of gastroenterology inpatients, participation in outpatient clinics as appropriate for their training, formal endoscopy training (upper gastrointestinal endoscopy, colonoscopy, interventions including PEG-insertions, PEG-toButton procedures, polypectomies), diagnostic GI physiology studies including participation in video capsule endoscopy, pH/impedance studies, manometry and breathe tests. The trainee will also undergo training in the nutritional management of children requiring both enteral and parenteral nutrition in collaborative management with medical and surgical teams.

This includes attending morning general/specialty handover meeting daily,
one designated training endoscopy lists per week with potential attendance for second and third endoscopy lists depending on training requirements and overall training progress;
attending consultant-led inpatient ward rounds daily,
acute review of children under care or referred to GHN
supporting consultant of the week in consultations,
at least one clinic per week with potential attendance of second clinic, GHN generic and specialist clinics with MDT involvement
attendance at weekly IBD MDT and GHN team meeting

Attendance and presentation at journal club and formal training sessions
**Workload / Rota Arrangements / Example Timetable**

On call is covered by a shift rota of 15-20 people covering general paediatrics and paediatric specialities.

The trainee will contribute to the out-of-hours acute general paediatric senior grade rota. The post is compliant with EWTD & subspecialty training requirements.

<table>
<thead>
<tr>
<th>DAY</th>
<th>AM</th>
<th>PM</th>
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<tbody>
<tr>
<td>Monday</td>
<td>8.45-9.00 Handover meeting</td>
<td>Clinical admin time 1230-1430</td>
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<tr>
<td></td>
<td>9.00-9.30 Team week meeting</td>
<td>14.30-16.30 Ward round outliers and referrals</td>
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<tr>
<td></td>
<td>clinics and endoscopy list allocation</td>
<td>16.30-17.00 handover meeting</td>
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<tr>
<td></td>
<td>9:30-12:30 Ward round GHN lead Clinic</td>
<td>PM Endoscopy list Clinic</td>
</tr>
<tr>
<td>Tuesday</td>
<td>8.45-9.00 Handover meeting</td>
<td>1300-1330 Clinical psychologist MDT</td>
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<tr>
<td></td>
<td>Journal club and formal GHN training</td>
<td>1330-1500- Departmental MDT- IBD, TPN, Service development, Endoscopy, Clinical governance, Mortality/Morbidity</td>
</tr>
<tr>
<td></td>
<td>9.00-12:30 SpR gastroenterology clinic</td>
<td>1500-1600 Histopathology MDT</td>
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<tr>
<td></td>
<td>9:30-12:30 Ward round GHN lead Clinic</td>
<td>1600- Joint Radiology MDT - once a month</td>
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<td></td>
<td>1630-1700-Biologics MDT</td>
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<tr>
<td>Wednesday</td>
<td>AM Endoscopy list - trainee Trust teaching SPR – 1300</td>
<td>Specialist / MDT / Joint clinic</td>
</tr>
<tr>
<td></td>
<td>0900-1230- Ward round GHN lead Clinic</td>
<td>PM Endoscopy list</td>
</tr>
</tbody>
</table>
Programme Description for PGHAN 2020

<table>
<thead>
<tr>
<th>Thursday</th>
<th>AM Endoscopy list</th>
<th>Clinic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Research/Audit Time</td>
<td>PM Endoscopy list</td>
</tr>
<tr>
<td></td>
<td>IBD – MDT weekly</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ward round GHN lead</td>
<td></td>
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</tbody>
</table>

| Friday   | 9.00-10.00 Grand round teaching | 1330-1400 Handover meeting |
|          | 1000-1300- Ward round GHN led   | 14:30 Research/audit time / reflective practice /management/ teaching |
|          |                               | 1530-1630 Clinical admin time |
|          |                               | 1630-1700 Handover for weekend |

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

- Participation in teaching - undergraduate and post graduate
- Active participation in audit and opportunities to conduct clinical research and publish manuscripts - now under formal research lead and portfolio
- Organising weekly GI journal club / teaching
- Participation in departmental clinical and management meetings

**Further training opportunities**

Presentation of audits and studies at National and International meetings is encouraged and supported.

Development of departmental and Trust guidelines

Attendance at specialist IBD, liver, TPN/short gut, polyposis, cardiology&neurology feeding, transition, Hirschprung’s, CF, Behcet’s, coeliac, and GOR clinics

Learning to set up and interpret GI physiology investigations under supervision and guidance from consultants and GI physiologist, including impedance, video capsule endoscopy, urea and hydrogen breath tests, pH studies, manometries, .
Any further information

The programme allows the successful rotation to train through 3 centres (Liverpool, Manchester and Leeds) to offer outstanding training opportunities and a healthy work-life balance. The trainee will have the privilege and enjoyment to work in the brand new and iconic new Children's hospital (Alder Hey Children's Health Park) in a vibrant harbour city with a wonderful countryside and excellent transport connections.

Awarded with UNESCO-World heritage status, European city of culture 2008, major city development (Liverpool One etc), and a rich history in music, sports, education and modern culture, and located at the Irish Sea and near the Lake District and North Wales, Liverpool has everything to offer for the trainees and their families, and provides abundance of very affordable accommodation.

Contact details for unit

Dr Elizabeth Renji
Consultant Paediatric Gastroenterologist,
Alder Hey Children's NHS Foundation Trust
Eaton Road, Liverpool L12 2AP
Phone: 0151-282-5541 and 0151-228-4811 ext 5153
Fax: 0151-252-5928
Email: elizabeth.renji@alderhey.nhs.uk

Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum
Sub-specialty: Paediatric Hepatology
Base Unit: Leeds Children's Hospital
Deaneries involved: Yorkshire and Humber

Outline of Programme:
This post involves 30 months training in hepatology and 6 months training in gastroenterology, all at Leeds Children’s Hospital.

Departmental Information:
The Children’s Liver and GI Unit, Leeds Children’s Hospital, is one of the 3 National Specialist Services for Paediatric Liver Disease including transplantation. The service receives approximately 300 new referrals per year from the North of England, Wales, Scotland and Northern Ireland. The unit performs ~15 Kasai portoenterostomies and 20 liver transplant operations per year including live related transplantation. Specialist clinics include viral hepatitis, metabolic liver disease, fatty liver disease and adolescent services and there are outreach clinics throughout the referral area.

The regional gastroenterology and nutrition service includes medical and surgical management of a large population of patients with inflammatory bowel disease. There is also a well established intestinal failure and home parenteral nutrition team with strong links to the neonatal surgical unit. The endoscopy services are supported by JETS approved trainers.

In Leeds there is a 16 bedded ward (also shared with nephrology/renal transplantation), and access to PICU. Medical and surgical patients with GI and liver diseases are managed on the ward and in joint outpatient clinics. There are several general anaesthetic lists per week for upper GI endoscopies (including banding and sclerotherapy) and liver biopsies.

Team:
The Liver team is led by 5 consultant hepatologists, 2 hepatobiliary surgeons and 4 liver transplant surgeons. There are 2 ST6-8 training posts, one post CCT clinical fellow and 2 ST2-3 posts. The GI team includes 3 consultant gastroenterologists and 3 GI surgeons. There is one HST 4-8 post, one LST post and an FY2 trainee. There are large multidisciplinary teams (specialist nurses, dietitians, pharmacists, psychologists, social workers) involved in the management of both liver and GI children and close links with all other paediatric specialities, adult hepatology/gastroenterology, interventional radiology and specialist laboratory services.

Supervisor(s):
Hepatology - Dr S Rajwal
Gastroenterology - Dr V Zamvar
Clinical Training Responsibilities:

Inpatient and outpatient care of children with common and complex liver, GI and nutritional disorders. Specialist clinics in metabolic liver disease, viral hepatitis, fatty liver disease and home parenteral nutrition. Training in upper GI endoscopy including management of bleeding varices. Training in care of adolescents and transition to adult services.

Workload/Rota Arrangements/Example Timetable:

Example of weekly timetable in the liver unit

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>9.00 Grand ward round</td>
<td>Registrar ward round</td>
<td>8.30 All day hepatology</td>
<td>Monthly Adolescent, NAFLD and virology clinics</td>
</tr>
<tr>
<td></td>
<td>11.30 Transplant MDT</td>
<td>Admissions for theatre on Thurs</td>
<td>/9.10 Post Transplant clinic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12 Radiology MDT</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PM</td>
<td>13.30 General Hepatology or Metabolic liver clinic</td>
<td>14.00 Multidisciplinary/ psychosocial meeting</td>
<td>2 pm Clinic meeting</td>
<td>Ward teaching Journal club</td>
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<tr>
<td></td>
<td></td>
<td>15.00 histology</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>or audit/research meeting alt weeks</td>
<td></td>
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</tr>
</tbody>
</table>

There will be a consultant led ward round every morning at 9am and evening at 4 pm, except Wednesday morning. Consultant of the week also does a morning ward round on Sat and Sun. Thursday morning GA list is usually endoscopies and liver biopsies but if a child needs surgery for biliary atresia the whole day is used for the Kasai operation. Urgent endoscopies and liver biopsies can occur any day of the week. On call is covered by a shift rota of 8-10 people covering paediatric specialties including oncology, nephrology and neurology.

Example of weekly timetable in the gastroenterology and nutrition unit

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>9.00 IBD OP clinic</td>
<td>9.00 X-ray meeting; registrar ward round</td>
<td>9.00 Gastroenterology OP clinic</td>
<td>9.00 Gastroenterology ward round</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10.00 teaching; registrar ward round</td>
<td>Endoscopy list (Dr Zamvar)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>11.30 Neonatal unit MDT round</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PM</td>
<td>14.00 Gastroenterology inpatient ward round</td>
<td>2 pm Multidisciplinary HPN patient review</td>
<td>13.30 Gastroenterology OP; joint clinic or intestinal failure clinic</td>
<td>14.00 Rapid access clinic</td>
</tr>
<tr>
<td></td>
<td>6 pm IBD MDT meeting</td>
<td></td>
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</tr>
</tbody>
</table>
**Non-Clinical Training Responsibilities (expectations of research/audit/teaching):**

| There are postgraduate teaching and research facilities and each team has an established research profile. Excellent library facilities and internet access are available. The weekly time table includes grand rounds, MDT meetings, ward teaching and journal clubs. Specialist audit meetings occur every 3 months. Supra regional clinical meetings in both Gastroenterology and Hepatology occur every 6 months. |

**Further Training Opportunities:**

| Presentation and publication of cases and studies at National and International meetings or in journals is encouraged |

**Any further Information:**

| Leeds is the cultural centre for the region providing excellent theatre, musical, art and sporting opportunities. There are good communication links between Leeds and other regional centres in Manchester, Liverpool, Newcastle and Sheffield and the national parks of the Peak District, Yorkshire Dales and the Lake District are easily accessible |

**Contact details for Unit:**

| Telephone: | Dr Sanjay Rajwal  
Consultant Paediatric Hepatologist  
Paediatric Offices, E Floor, Martin Wing  
Leeds General Infirmary  
Great George Street  
Leeds LS1 3EX  
0113 3025158  
Sanjay.rajwal@nhs.net |

| Dr V Zamvar  
Consultant Paediatric Gastroenterologist  
Paediatric Offices, A floor, Old Main Site  
Leeds General Infirmary  
Great George Street  
Leeds LS1 3EX  
0113 3922669  
veena.zamvar@nhs.net |

**Curriculum:**

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

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
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</thead>
<tbody>
<tr>
<td>Royal Aberdeen Children's Hospital</td>
<td>North of Scotland Gastroenterology</td>
<td>12</td>
<td>Dr Su Bunn. <a href="mailto:Su.bunn@nhs.net">Su.bunn@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Royal Hospital for Sick Children, Glasgow</td>
<td>West of Scotland Paediatric Gastroenterology</td>
<td>12</td>
<td>Dr Andy Barclay. <a href="mailto:Andrew.Barclay@ggc.scot.nhs.uk">Andrew.Barclay@ggc.scot.nhs.uk</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Birmingham Children's Hospital</td>
<td>Paediatric Hepatology</td>
<td>6</td>
<td>Dr Indra van Mourik <a href="mailto:Indra.mourik@nhs.net">Indra.mourik@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
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<td>North of Scotland Gastroenterology</td>
<td>6</td>
<td>Dr Su Bunn. <a href="mailto:Su.bunn@nhs.net">Su.bunn@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
</tbody>
</table>

Additional Information:

Scotland is now one Deanery with 4 regions. This post will involve training in both North (Aberdeen) and West (Glasgow) regions of the Scotland Deanery in addition to 6 months of Paediatric Hepatology in Birmingham England. Commitment to assist with expenses during period of training out with Scotland has been sought from NHS Education for Scotland (NES).

This is a grid post provided across 2 centres in Scotland within the Scotland Deanery and will give a breadth of experience taking advantage of the respective strengths of each of the two centres.

The training will take place over a period 3 years in line with the current paediatric gastroenterology training curriculum with 18 months in the North of Scotland and 12 months in Glasgow.
Programme Description for PGHAN 2020

Three consultants based in Aberdeen provide comprehensive tertiary PGHAN care to the children of Tayside, Grampian, Highland, Orkney and Shetland as part North of Scotland Paediatric Gastroenterology, Hepatology and Nutrition Network (NoSPGHANN). 18 months grid PGHAN training within NoSPGHANN will provide excellent grounding in general gastroenterology, tertiary level hepatology, paediatric inflammatory bowel disease, MDT working, complex enteral feeding and the full range of diagnostic testing including endoscopy, pH/impedance monitoring, oesophageal manometry, capsule enteroscopy and breath tests.

The 12 months training period in Glasgow will focus on subspeciality PGHAN and the management of intestinal failure, to provide comprehensive coverage of all non-hepatology areas of the PGHAN curriculum.

The 6-month post in Birmingham Children’s Hospital will complete the full PGHAN speciality training curriculum.
Programme Description for PGHAN 2020

<table>
<thead>
<tr>
<th>Sub-specialty:</th>
<th>Paediatric Gastroenterology, Hepatology and Nutrition</th>
</tr>
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<tbody>
<tr>
<td>Base Unit:</td>
<td>Royal Aberdeen Children’s Hospital</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>North of Scotland</td>
</tr>
</tbody>
</table>

Outline of Programme:

Three consultants based in Aberdeen provide comprehensive tertiary PGHN care to the children of Tayside, Grampian, Highland, Orkney and Shetland as part North of Scotland Paediatric Gastroenterology, Hepatology and Nutrition Network (NoSPGHANN). Clinical care is delivered by multidisciplinary teams of dietitians, nurses, psychologists and doctors (based in Dundee, Aberdeen and Inverness) who work closely with local paediatric staff. This post is based predominantly in Aberdeen but attending outreach clinics and endoscopy will be encouraged.

Clinical Training Responsibilities:

- Inpatient care: Responsibility for the management of gastroenterology inpatients & initial consults referred by other specialist teams
- Outpatient care: Supervised SpR general PGHAN weekly clinic & IBD weekly clinic RACH & access to multiple outreach / specialist clinics
- Endoscopy: Excellent access to training lists. Experienced and trained trainers. Training includes simulation training.
- Other investigative techniques: The trainee will have specific training in a variety of diagnostic techniques including oesophageal pH / impedance studies, gut motility studies, capsule enteroscopy and breath tests
- IBD: Specialist weekly clinics, weekly IBD MDT meetings and monthly Biologic annual review meetings. Trainee will be expected to be actively involved with inpatient and outpatient IBD caseload and decision making.
- Nutrition: The trainee will undergo training in the nutritional management of infants, post-surgical neonates and older children requiring both enteral and parenteral nutritional support. Extensive training in complex enteral feeding techniques with a fully integrated surgical / radiological GI complex enteral feeding service. Training in gastrostomy insertion / replacement; placement / replacement of gastrojejunal tubes; placement of nasojejunal feeding tubes and placement of nasal bridles.
Programme Description for PGHAN 2020

- General Paediatrics - 1:10 on call. < 30% time in general paediatrics.

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>AM</strong></td>
<td><strong>Inpatient RACH MDT ward-round</strong></td>
<td><strong>Inpatient SpR RACH ward-round</strong></td>
<td><strong>Inpatient MDT RACH ward-round</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Dundee PGHAN outreach clinic 1:2)</td>
<td>(Perth PGHAN outreach clinic 1:4)</td>
<td>IBD meeting RACH</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>RACH endoscopy list 1:4</strong></td>
<td></td>
<td>(Perth PGHAN outreach clinic 1:4)</td>
</tr>
<tr>
<td></td>
<td><strong>LUNC</strong></td>
<td><strong>NOSPGHAN Education/ Journal club (bi-monthly)</strong></td>
<td><strong>RACH PGHAN teaching 1:2</strong></td>
<td><strong>SSPGHAN VC training 1:4</strong></td>
</tr>
<tr>
<td></td>
<td>H</td>
<td></td>
<td><strong>RACH Xray meeting</strong></td>
<td><strong>Histology meeting 1:4</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>MRI meeting 1:4</strong></td>
</tr>
<tr>
<td></td>
<td><strong>PM</strong></td>
<td><strong>RACH general PGHAN SpR clinic</strong></td>
<td><strong>Inpatient RACH ward-round</strong></td>
<td><strong>RACH endoscopy list weekly</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>RACH hepatology clinic 1:4</strong></td>
<td>Adult IBD / endoscopy simulator training</td>
<td>(Inverness PGHAN outreach clinic 1:4)</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

NB: Transport +/- accommodation reimbursed for Dundee and Inverness out-reach service. Outreach attendance will be discussed and planned with supervisor on monthly basis.

Other clinics – attendance encouraged: Paediatric allergy / neurodisability feeding / metabolic / dietetic-led coeliac / transition IBD

**GENERAL PAEDIATRICS:**

< 30% commitment to general paediatrics. - 1:14 weekends, 1: 10 nights and - 5 long days / year.

**Contact details for unit**

Dr Su Bunn. Su.bunn@nhs.net

**Curriculum**

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

Base Unit: Royal Hospital for Sick Children, Glasgow

Deaneries involved: West of Scotland

Outline of Programme:

RHSC Glasgow provides specialised care in PGHN for the West of Scotland. The PGHN Department has clinical interaction with the major paediatric specialities all on one site at RHSC Glasgow. There are specific close links with the Departments of Surgery, Oncology, Endocrinology, Dietetics, Biochemistry, Pharmacy, Diagnostic Imaging and Pathology. Colleagues in Child & Adolescent Psychiatry, Speech and Language therapy and clinical nurse specialists provide multi-disciplinary support. The PGHN department manages a formal nutritional team for RHSC.

There is a daily average of 8-10 tertiary PGHN inpatients, in addition to shared care and consultations on many other specialist wards. We have 8 weekly gastroenterology clinics, which includes dedicated MDT IBD, Nutrition (HPN and enteral) and dietetic led Coeliac clinic. Specialist Liver clinics runs fortnightly and a multidisciplinary complex enteral feeding clinic runs monthly. There are approximately 550 new patients and 1700 follow up appointments per year.

The PGHN Department has responsibility for parenteral nutrition support within RHSC and the home parenteral nutrition and enteral nutrition network for the West of Scotland. We have run at >18 HPN patients for the past 2yrs. Non transplant Intestinal failure surgery is performed as part of an MDT intestinal rehabilitation programme.

Outreach clinics are held in four regions with over 20 all day regional clinics a year. There are 4 weekly GA endoscopy lists within a dedicated endoscopy suite where all diagnostic and interventional therapy can be learnt. PGHN consultants undertook approximately 600 endoscopic procedures last year. There are strong links with adult gastroenterology units within Glasgow with transition IBD/liver clinics plus the opportunity to attend adult endoscopy lists, clinics and educational meetings.

Hepatology Outreach is provided by clinics from Leeds (6/yr) and Kings Colleg Hospital (2/yr), with referral for intestinal transplantation opinion to both BCH and Kings hospital. RHSC jointly cares for patients with motility disorders with Great Ormond Street Childrens Hospital, who perform outreach clinic in RHSC. There are strong links with adult gastroenterology units within Glasgow with transition IBD/liver clinics plus the opportunity to attend adult endoscopy lists, clinics and educational meetings.
## Workload / Rota Arrangements / Example Timetable

<table>
<thead>
<tr>
<th>Day</th>
<th>AM</th>
<th>1-2PM</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>General/Liver clinic W/R</td>
<td>Rapid Access clinic</td>
<td>IBD Clinic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>Tuesday W/R Complex EN (monthly)</td>
<td>IBD/Surgical meeting</td>
<td>Endoscopy, nutrition Rounds, Middle grade study time</td>
</tr>
<tr>
<td></td>
<td>Endoscopy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>IBD team Meeting Nutrition consults round W/R</td>
<td>IBD/Surgical meeting</td>
<td>Endoscopy, nutrition rounds</td>
</tr>
<tr>
<td>Thursday</td>
<td>Nutrition MDT W/R</td>
<td>Pathology (fortnightly)</td>
<td>Nutrition Clinic, Middle grade 2 study time</td>
</tr>
<tr>
<td>Friday</td>
<td>Endoscopy W/R Dr Flynn General Clinic</td>
<td></td>
<td>Endoscopy</td>
</tr>
</tbody>
</table>

### Contact details for unit

Dr Andy Barclay. [Andrew.Barclay@ggc.scot.nhs.uk](mailto:Andrew.Barclay@ggc.scot.nhs.uk)

### Curriculum

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum](http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum)
**Programme Description for PGHAN 2020**

<table>
<thead>
<tr>
<th>Subspecialty:</th>
<th>Hepatology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit:</td>
<td>Birmingham Women’s and Children’s NHS Trust (BWCH)</td>
</tr>
<tr>
<td>Deaneries involved:</td>
<td>West Midlands</td>
</tr>
</tbody>
</table>

**Outline of Programme**

This is a 6 months training post in hepatology at Birmingham Children’s Hospital (BCH) as a part of the NOS PGHAN grid rotation.

**Departmental Information**

**Demographics**

The Liver Unit at BCH is 1 of only 3 national centres for specialised paediatric liver services and transplantation. It comprises a multi-disciplinary team (MDT), which provides a supra-regional service for children with all forms of liver disease, acute liver failure and liver and small bowel transplantation. The Unit has 15 beds including a 3 bedded high dependency unit. The unit works closely with both the transplant service at the University Hospital of Birmingham (UHB), and the Department of gastroenterology and nutrition at BCH. Liver transplantation has been carried out since 1989 with a combined total of 40 liver, combined liver-kidney or liver-small-bowel transplant procedures are being carried out per year. All aspects of paediatric hepatobiliary surgery are provided and the Unit is one of only three nationally designated centres for Kasai portoenterostomy.

**Team**

6.6 Consultant Paediatric Hepatologists, 2 Consultants in Paediatric Hepatobiliary Surgery and Transplantation and 3 Consultant Transplant surgeons based at UHB; 3 level 3 trainees, 1 Level 2 trainee, Clinical research Fellow, International Clinical fellow and physician associate. MDT consisting of dieticians, physiotherapist, social and Family support workers, research & specialist nurses

The Clinical Lead is Mr Khalid Sharif and the Educational Lead is Dr Mona Abdel-Hady.

**Clinical Training Responsibilities**

The trainee will gain experience in management of children with all forms of liver disease, the peri-operative care of children receiving liver, and liver and small bowel transplantation, and co-ordination of investigations including liver biopsies and endoscopies. Trainee will participate in specialised liver clinics (CF, Metabolic, Fatty liver, Viral hepatitis, adolescent transition, joint intestinal failure clinics) and will gain experience in performing diagnostic and therapeutic endoscopic procedures and liver biopsies. The trainee will have the exciting opportunity to gain experience in assessing children for intestinal transplantation, the inpatient management peri transplant and the long-term management (including endoscopy and ileoscopy of the graft) and the detection of complications unique to this exceptional cohort of patients.

He/She will provide support for the nurse led telephone follow up clinic and receive training in making management plans and giving feedback to the referring hospital.
### Workload / Rota Arrangements / Example Timetable

<table>
<thead>
<tr>
<th>Day</th>
<th>Am</th>
<th>Pm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday</strong></td>
<td>Weekend Handover</td>
<td>Ward cover</td>
</tr>
<tr>
<td></td>
<td>Procedures list/ Ward work</td>
<td>OR Outpatients session</td>
</tr>
<tr>
<td></td>
<td>Histology meeting 13.00-14.00</td>
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</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td>MDT radiology meeting 08:00 – 09:00</td>
<td>Ward cover</td>
</tr>
<tr>
<td></td>
<td>MDT Ward round 09:00 – 11:00</td>
<td>Outpatient’s session</td>
</tr>
<tr>
<td></td>
<td>Liver Unit research &amp; development meeting 13:00-14:00hrs</td>
<td>Admin or research time</td>
</tr>
<tr>
<td><strong>Wednesday</strong></td>
<td>Outpatient clinic review/teaching session 08:30-10:00</td>
<td>Admin or research time</td>
</tr>
<tr>
<td></td>
<td>Ward round 10:30-12:30 Or Procedures list 08:30 - 12:30hrs</td>
<td>OR Outpatient session</td>
</tr>
<tr>
<td></td>
<td>Hospital Grand Round 13:00-14:00 hrs</td>
<td>Ward cover</td>
</tr>
<tr>
<td><strong>Thursday</strong></td>
<td>Outpatient clinic review/teaching session 09:00 – 10:30 hrs</td>
<td>Admin or research time</td>
</tr>
<tr>
<td></td>
<td>Ward round 10:30-12:00</td>
<td>Outpatient session</td>
</tr>
<tr>
<td></td>
<td>Liver unit teaching Seminars 12:00-13:00</td>
<td>Ward cover</td>
</tr>
<tr>
<td></td>
<td>Liver Unit Business meeting 13.00-14.00</td>
<td></td>
</tr>
<tr>
<td><strong>Friday</strong></td>
<td>MDT Transplant meeting 08:00 - 09:00</td>
<td>Admin or research time</td>
</tr>
<tr>
<td></td>
<td>Multidisciplinary ward round 9.30-12.30</td>
<td>Ward cover</td>
</tr>
<tr>
<td></td>
<td>OR Procedures list</td>
<td></td>
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</tbody>
</table>
Non-Clinical Training Responsibilities (expectations of research / audit / teaching)

Teaching: Trainees will be offered excellent teaching opportunities having time to attend the Hospital postgraduate teaching programme and structured teaching is provided within the Department. Trainees are expected to participate in the teaching of undergraduate medical students, student nurses.

Research: There are ample opportunities for research within the Department. Current research projects include therapy of viral hepatitis, new treatments for portal hypertension, non-invasive markers of rejection following small bowel transplantation, the molecular basis of inherited metabolic liver and/or bowel disease, evaluation of alternative immunosuppression protocols and monitoring tools, etc.

Contact details for unit

For informal enquiries please contact Dr Indra van Mourik (indra.mourik@nhs.net) 0121 3338252/3339079

Curriculum

Each subspecialty grid programme covers the RCPCH curriculum as specified on the RCPCH website:

https://www.rcpch.ac.uk/resources/paediatric-gastroenterology-hepatology-nutrition-sub-specialty
Wessex and London

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
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</thead>
<tbody>
<tr>
<td>University Hospital Southampton NHS Trust`</td>
<td>Paediatric gastroenterology and Nutrition</td>
<td>18</td>
<td>Akshay Batra <a href="mailto:Akshay.batra@uhs.nhs.uk">Akshay.batra@uhs.nhs.uk</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Kings College London</td>
<td>Hepatology</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kings College London</td>
<td>Paediatric gastroenterology and Nutrition</td>
<td>12</td>
<td></td>
<td>C</td>
<td></td>
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</table>
Programme Description for PGHAN 2020

<table>
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<tr>
<th><strong>Sub-specialty:</strong></th>
<th>Paediatric Gastroenterology, Hepatology and Nutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Unit:</strong></td>
<td>University Hospital Southampton NHS Trust</td>
</tr>
<tr>
<td><strong>Deaneries involved:</strong></td>
<td>Wessex and London Deaneries</td>
</tr>
</tbody>
</table>

**Outline of Programme**

This post is designed for higher specialist trainees who want to be accredited in paediatrics and PGHAN (paediatric gastroenterology, hepatology and nutrition). It comprises a three year rotation between Wessex and London deaneries, with first 18 month training in gastroenterology and nutrition in Wessex followed by 18 months in London deanery to include 6 months of hepatology in King’s college Hospital. The post offers a varied experience and training in all aspects of the specialty.

**Departmental Information**

- **Demographics**

  There is large and varied caseload providing good exposure to GI conditions including IBD, functional gastrointestinal disorders, intestinal failure and liver disease. There are 11 weekly outpatient clinics and more than 20 outreach clinics per year in 9 shared care centres where over 5000 patients are seen annually. The service has approximately 60 new patients with Inflammatory Bowel disease diagnosed every year and 18 Home Parenteral Nutrition patients with at least 77 referrals for Type I & II IF to our Nutrition support team per year.

- **Team**

  The PGHAN service is comprised of 4 consultants, an associate specialist, 4 specialist nurses, 4 dieticians and is supported by psychology, speech and language, radiology and pathology services. There is 1 ST4-8, 1 ST1-3, 1 FY trainee and 1 research fellow in the department. The team works closely with other specialties within children’s hospital as well as adult gastroenterology and hepatology services. There are good links with regional pediatricians with interest in gastroenterology and we run outreach clinics in 9 hospitals.

- **Supervisor(s)**

  There are 4 consultants who contribute to training and there is specific time allocated in job plans to deliver training and supervision. Trainees have access to general gastroenterology and specialist outpatient clinics, inpatient work and endoscopy lists where they are appropriately supervised and supported.
Clinical Training Responsibilities

There are specialist clinics including intestinal failure, coeliac, hepatology and transition clinics. There are joint clinics with allergy, surgery, paediatric hepatology from King’s college hospital and adolescent hepatology. There are specialist clinics including intestinal failure, coeliac, hepatology and transition clinics. There were around 1200 diagnostic and therapeutic endoscopies performed last year providing adequate exposure to training needed to get JAG accreditation. We currently have 3 dedicated registrar clinics per week where they can see both new and follow up patients supervised by consultants. Inpatient work involves managing patients on parenteral nutrition, infants with feeding difficulties and children admitted with acute worsening of IBD. Being the only training registrar they have access to 2.5 endoscopy lists per week. Around 1200 diagnostic and therapeutic endoscopies were performed last year providing adequate exposure to training needed to get JAG accreditation. There is access to training in other investigation modalities e.g. impedance monitoring and manometry. Trainees attend weekly nutrition support meeting and alternate month intestinal failure clinic.

There are various multidisciplinary meetings discussing inpatients which are attended by the trainees including weekly grand rounds, nutrition support team meetings, monthly psychosocial meeting, alternate month mortality and morbidity meeting. There is also a monthly joint paediatric and adult IBD meetings attended by pathology and radiology and a weekly histopathology meeting.

Workload / Rota Arrangements / Example Timetable

The Wessex deanery St4-8 programme is compliant for paediatric level 2 and 3 training. There is balance between training in gastroenterology during hours and out of hrs on call, providing adequate exposure to complete CCT training in paediatrics and PGHAN.

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

There is a structured training program within the hospital with dedicated bleep free teaching sessions. There is adequate exposure to endoscopy training and our recent trainees have all been able to get JAG accredited for OGD and colonoscopies. There are 3 dedicated registrar clinics where trainee can see both new and follow up patients supervised by consultants. There is access to various specialized clinics (hepatology, intestinal failure, feeding clinic etc.), which they can attend. The nutrition support team along with the nutrition biomedical research centre provide excellent clinical and research opportunities for training in nutrition. Trainees attend ward rounds daily and are supported to lead ward rounds regularly. They also provide consults and contribute to joint management of patients admitted under other specialties especially surgery and cardiology. There is access to training in other investigation modalities provided within the department e.g. impedance monitoring, breath testing and manometry. The trainees are supported to attend BSPGHAN, ESPGHAN, TIPGHAN, and other meetings of interest. They also have access to journal clubs, weekly teaching.

Audit; Trainees are supported to complete audits, clinical governance and quality improvement projects.

Teaching and appraisal; Trainees are expected to regularly present at journal clubs, weekly teaching grand rounds and weekly SHO teaching. Trainees also contribute to the ward based teaching of medical students allocated to PGHAN.
Research: The department of paediatric gastroenterology has a huge research agenda and Grid trainees will have ample opportunities to explore their research interests, including doctoral research. The department of paediatric gastroenterology has close collaborative links with the department of Genomics and Bioinformatics (University of Southampton), translational immunology laboratory (WISH Lab- Wessex Immunology Sciences Hub) and the Biomedical Research centre. There is an ongoing portfolio study on the genetics of paediatric inflammatory bowel disease. To date, approximately 400 paediatric IBD patients, 600 parents/relatives and 500 adult IBD patients have been recruited to the study. Research work focuses on Nutrition, Genomics, Transcriptomics and Translational immunology. Over the last 5 years, 2 PGHAN Grid trainees and 2 bio-informatic research fellows have completed their PhD. A new clinical research fellow has joined as a PhD student, undertaking research in transcriptomics and the faecal microbiome.

Management: Trainees are supported to complete audits, clinical governance and quality improvement projects.

**Contact details for unit**

Dr Akshay Batra
akshay.batra@uhs.nhs.uk
02381208711

**Curriculum**

Each sub-specialty grid programme covers the RCPCH curriculum as specified on the RCPCH website: [http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum](http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/curriculum/curriculum)
Sub-specialty: Paediatrics Gastroenterology
Base Unit: King’s College Hospital
Deaneries involved: London

Outline of Programme

Paediatric liver, GI and Nutrition centre

The post will provide experience in managing a variety of GI conditions (at a tertiary level) such as inflammatory bowel disease, enteral and parenteral nutrition in addition to managing more common pediatric GI complaints such as gastro esophageal reflux, constipation, diarrhea and feeding problems. There are specialist clinics for Inflammatory Bowel Disease, Celiac Disease, short gut syndrome, Pancreas clinic, Joint liver/Gastro clinic, feeding problems and allergy. King’s College Hospital serves as a national referral hospital for many specialties including Paediatric Hepatology and Bowel transplantation. Duties of this post holder will include management of inpatients with gastrointestinal, hepatology (during on call) and nutritional problems, consultations on referred patients, out patients (currently see 2,500 patients a year) work and coordination of gastrointestinal investigations including oesophageal pH monitoring, upper and lower GI endoscopy (3 lists a week) and hydrogen breath tests. Trainees will be expected to pursue a research project and have involvement in audit of gastrointestinal and nutrition services. There is a weekly GI meeting with hepatologists, monthly meeting with surgical colleagues, a weekly X ray and histology meeting. The trainees are encouraged to do presentations at these meetings and at other national and international gastroenterology conferences. Gastroenterology middle grade trainee will share non-resident on call with hepatology trainees and day today work with fellow gastroenterology colleagues.

Departmental Information

- Team
  Consultant Staff
  Consultants          Prof Anil Dhawan
  Prof Dino Hadzic      Hepatology & Gastroenterology
  Prof Dr Alastair Baker Hepatology & Gastroenterology
  Dr Richard Thompson   Hepatology
  Dr Maryanne Samyn     Hepatology
  Dr Sanjay Bansal      Hepatology
  Dr Jonathan Hind      Hepatology & Gastroenterology
  Dr Babu Vadamalayan   Gastroenterology
  Dr Emer Fitzpatrick   Hepatology & Gastroenterology
Programme Description for PGHAN 2020

Dr Tassos Grammatikopoulos  Hepatology
Dr Ben Hope  Gastroenterology
Dr Anthi Thangarajah  Gastroenterology
Prof Mark Davenport  General & Hepatobiliary surgery
Mr Shailesh Patel  General & GI surgery
Mr Niyi AdeAbaji  General & GI surgery
Mr Ashsish Desai

Emeritus Prof Giorgina Vergani  General & Bariatric surgery

Hepatology

Other Staff: Nutrition & GI nurse specialist, Dietician, Speech and Language Therapist, psychologist

- Supervisor(s)
  Dr B Vadmalayan babu.vadamalayan@nhs.net

Workload / Rota Arrangements / Example Timetable

Illustrative Timetable

<table>
<thead>
<tr>
<th>Morning</th>
<th>Lunchtime</th>
<th>Afternoon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>TPN Ward Round/GI Clinic</td>
<td>Ward meeting / Consultant review</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Endoscopy /GI Clinic</td>
<td>Ileoscopy /Research meeting</td>
</tr>
<tr>
<td>Wednesday</td>
<td>SpR Ward Round /Short Gut clinic</td>
<td>X ray Meeting (weekly)</td>
</tr>
<tr>
<td>Thursday</td>
<td>Consultant - MDT Ward Round/TPN round, Histology meeting</td>
<td>Gastroenterology MDT meeting /Journal club</td>
</tr>
<tr>
<td>Friday</td>
<td>Outpatient clinic</td>
<td>Ward Round</td>
</tr>
</tbody>
</table>

Other Clinics

Coeliac Clinic (6 monthly)

Feeding Clinic (monthly)
Programme Description for PGHAN 2020

Joint Allergy / Gastro clinic: St Thomas Hospital
Pancreas clinic
Short gut clinic
Out-reach clinics – Sidcup & Medway

Contact details for unit
Dr B Vadomalayan babu.vadomalayan@nhs.net

Curriculum

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

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Guaranteed Availability (Y/N)</th>
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<tbody>
<tr>
<td>Birmingham Children’s Hospital, Birmingham Women’s and Children’s NHS Foundation Trust</td>
<td>Paediatric Hepatology</td>
<td>30</td>
<td>Dr Van Mourik <a href="mailto:indra.mourik@nhs.net">indra.mourik@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Birmingham Children’s Hospital, Birmingham Women’s and Children’s NHS Foundation Trust</td>
<td>Paediatric gastroenterology</td>
<td>6</td>
<td>Dr Sue Protheroe <a href="mailto:sue.protheroe@nhs.net">sue.protheroe@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Additional Information:**
Sub-specialty: Paediatric Gastroenterology, Hepatology & Nutrition

Base Unit: Birmingham Women's and Children's NHS Trust (BWCH)

Deaneries involved: West Midlands

Outline of Programme:
This is a 3 years training programme (30 months hepatology & 6 months gastroenterology and nutrition) at Birmingham Women's and Children's NHS Trust.

Departmental Information:

- Demographics:
  Birmingham Children’s Hospital NHS Foundation Trust is one of only four NHS Trusts in the country specialising exclusively in the care of children and young people. It provides local general hospital and mental health services to residents of Birmingham and highly specialist care to a wider population of 5.5 million in the West Midlands and from all over the UK and Europe and is one of the leading paediatric teaching and research centres in the country.
  The Hospital provides 50 Specialties and supporting departments with 360 beds (including CAMHS), 48 day beds and 31 PICU beds.
  A regional gastroenterology service is provided for children with acute and chronic intestinal disorders.
  The Liver Unit at BCH is 1 of only 3 national centres for specialised paediatric liver services and transplantation. It comprises a multi-disciplinary team (MDT), which provides a supra-regional service for children with all forms of liver disease, acute liver failure and liver and small bowel transplantation. The Unit has 15 beds including a 3 bedded high dependency unit. The unit works closely with both the transplant service at the University Hospital of Birmingham (UHB), and the Department of gastroenterology and nutrition at BCH. Liver transplantation has been carried out since 1989 with a combined total of 40 liver, combined liver-kidney or liver-small-bowel transplant procedures are being carried out per year. All aspects of paediatric hepatobiliary surgery are provided and the Unit is one of only three nationally designated centres for Kasai portoenterostomy.

- Team:
  Hepatology: 6 Consultant Paediatric Hepatologists, 2 Consultants in Paediatric Hepatobiliary Surgery and Transplantation and 3 Consultant Transplant surgeons based at UHB; 3 level 3 trainees, 1 Level 2 trainee, Clinical research Fellow, International Clinical fellow and 2 physician associates. MDT consisting of dieticians, physiotherapist, social and Family support workers, research & specialist nurses.
  Gastroenterology: 6 Consultants, two ST 5-8 trainees, a Senior Clinical Fellow for Nutrition and Gastroenterology, two further trainees (FY2 and ST3), one Advanced Nurse Practitioner in Gastroenterology, one Gastroenterology Specialist Nurse, and three Senior Specialist Dieticians.
  The Nutritional Care Team has three additional Nutritional Care nurses (one Clinical Nurse Specialist) and a family support worker who provide care for patients on Home Parenteral Nutrition.

- Supervisor(s):
  **Hepatology:** Educational Lead is Dr Indra Van Mourik.
  **Gastroenterology:** Educational Lead Dr Raffeeq Mohammed.
Clinical Training Responsibilities:

Hepatology: The trainee will gain experience in management of children with all forms of liver disease, the peri-operative care of children receiving liver, and liver and small bowel transplantation, and co-ordination of investigations including liver biopsies and endoscopies. Trainee will participate in specialised liver clinics (CF, Metabolic, Fatty liver, Viral hepatitis, adolescent transition, joint intestinal failure clinics) and will gain experience in performing diagnostic and therapeutic endoscopic procedures and liver biopsies. The trainee will have the exciting opportunity to gain experience in assessing children for intestinal transplantation, the inpatient management peri transplant and the long term management (including endoscopy and ileoscopy of the graft) and the detection of complications unique to this exceptional cohort of patients. He/She will provide support for the nurse led telephone follow up clinic and receive training in making management plans and giving feedback to the referring hospital.

Gastroenterology: The trainee participates in weekly specialist, multidisciplinary activity such as clinics, daily ward rounds (either Gastroenterology or Nutrition). There are specialised joint clinics for Transition, IBD and Liver Disease, IBD surgery, Polyposis Syndromes, Intestinal Failure/ Home PN and so on. The trainee participates in the investigation and management of patients with severe or unusual disorders who may be managed by the team or different clinical teams in the Trust. Experience is offered in day and ambulatory care of children and wide experience in clinical nutrition.

Workload/Rota Arrangements/Example Timetable:

<table>
<thead>
<tr>
<th>Day</th>
<th>Am</th>
<th>Pm</th>
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</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Weekend Handover</td>
<td>Ward cover</td>
</tr>
<tr>
<td></td>
<td>Procedures list/ Ward work</td>
<td>OR Outpatients session</td>
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<tr>
<td></td>
<td>Histology meeting 13.00-14.00</td>
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<tr>
<td>Tuesday</td>
<td>MDT radiology meeting 08:00 - 09:00</td>
<td>Ward cover</td>
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<tr>
<td></td>
<td>MDT Ward round 09:00 - 11:00</td>
<td>Outpatient's session</td>
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<tr>
<td></td>
<td>Liver Unit research &amp; development meeting 13:00-14:00hrs</td>
<td>Admin or research time</td>
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<td></td>
<td>OR Outpatient session</td>
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<td></td>
<td></td>
<td>Ward cover</td>
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<tr>
<td>Wednesday</td>
<td>Outpatient clinic review /teaching session 08:30-10:00</td>
<td>Admin or research time</td>
</tr>
<tr>
<td></td>
<td>Ward round 10:30-12:30 Or Procedures list 08:30 - 12:30hrs</td>
<td>OR Outpatient session</td>
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<tr>
<td></td>
<td>Hospital Grand Round 13:00-14.00 hrs</td>
<td>Ward cover</td>
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<tr>
<td>Thursday</td>
<td>Outpatient clinic review/teaching session 09:00 - 10:30 hrs</td>
<td>Admin or research time</td>
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<tr>
<td></td>
<td>Ward round 10:30-12:00</td>
<td>Outpatient session</td>
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<tr>
<td></td>
<td>Liver unit teaching Seminars 12:00-13:00</td>
<td>Ward cover</td>
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<tr>
<td></td>
<td>Liver Unit Business meeting 13.00-14.00</td>
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<tr>
<td>Friday</td>
<td>MDT Transplant meeting 08:00 - 09:00</td>
<td>Admin or research time</td>
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<tr>
<td></td>
<td>Multidisciplinary ward round 9.30-12.30 OR Procedures list</td>
<td>OR Outpatients session</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ward cover</td>
</tr>
</tbody>
</table>

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

Teaching: Trainees will be offered excellent teaching opportunities having time to attend the Hospital postgraduate teaching programme and structured teaching is provided within the Department. Trainees are expected to participate in the teaching of undergraduate medical students, student nurses.

Research: There are ample opportunities for research within the Department. Current research projects include therapy of viral hepatitis, new treatments for portal hypertension, non-invasive markers of rejection following small bowel transplantation, the molecular basis of inherited metabolic
liver and/or bowel disease, evaluation of alternative immunosuppression protocols and monitoring tools, etc.

**Further Training Opportunities:**

- Learning opportunities in Inherited metabolic diseases in children.
- Experience in Small bowel and multivisceral transplantation.
- Management of children with liver tumours/vascular lesions.
- Experience in managing children on home parenteral nutrition.
- The opportunity to gain skills in specialist procedures such as diagnostic and therapeutic endoscopy, video capsule endoscopy, impedance/pH studies, breath tests and manometry.

**Contact details for Unit:**

<table>
<thead>
<tr>
<th>Telephone</th>
<th>Dr van Mourik 0121 333 8254</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail</td>
<td><a href="mailto:indra.mourik@nhs.net">indra.mourik@nhs.net</a></td>
</tr>
</tbody>
</table>

**Curriculum:**

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

<table>
<thead>
<tr>
<th>Hospital / Centre</th>
<th>Placement Name</th>
<th>Duration (Months)</th>
<th>Educational Supervisor (name and e-mail)</th>
<th>Compulsory (C) or Optional (O)</th>
<th>Availability Guaranteed (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leeds General Infirmary</td>
<td>Paediatric Gastroenterology</td>
<td>6</td>
<td>Veena Zamvar <a href="mailto:veena.zamvar@nhs.net">veena.zamvar@nhs.net</a></td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Leeds General Infirmary</td>
<td>Paediatric Hepatology</td>
<td>30</td>
<td>Sanjay Rajwal <a href="mailto:sanjay.rajwal@nhs.net">sanjay.rajwal@nhs.net</a></td>
<td>C</td>
<td>Y</td>
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**Additional Information:**

- September 2020 - Feb 2021  Paediatric Gastroenterology
- March 2021 - September 2023  Paediatric Hepatology
Outline of Programme:

This post involves 30 months training in hepatology and 6 months training in gastroenterology, all at Leeds Children's Hospital.

Departmental Information:

The Children's Liver and GI Unit, Leeds Children's Hospital, is one of the 3 National Specialist Services for Paediatric Liver Disease including transplantation. The service receives approximately 300 new referrals per year from the North of England, Wales, Scotland and Northern Ireland. The unit performs ~15 Kasai portoenterostomies and 20 liver transplant operations per year including live related transplantation. Specialist clinics include viral hepatitis, metabolic liver disease, fatty liver disease and adolescent services and there are outreach clinics throughout the referral area.

The regional gastroenterology and nutrition service includes medical and surgical management of a large population of patients with inflammatory bowel disease. There is also a well-established intestinal failure and home parenteral nutrition team with strong links to the neonatal surgical unit. The endoscopy services are supported by JETS approved trainers.

In Leeds there is a 16 bedded ward (also shared with nephrology/renal transplantation), and access to PICU. Medical and surgical patients with GI and liver diseases are managed on the ward and in joint outpatient clinics. There are several general anaesthetic lists per week for upper GI endoscopies (including banding and sclerotherapy) and liver biopsies.

Team:

The Liver team is led by 5 consultant hepatologists, 2 hepatobiliary surgeons and 4 liver transplant surgeons. There are 2 ST6-8 training posts, one post CCT clinical fellow and 2 ST2-3 posts. The GI team includes 3 consultant gastroenterologists and 3 GI surgeons. There is one HST 4-8 post, one LST post and an FY2 trainee. There are large multidisciplinary teams (specialist nurses, dietitians, pharmacists, psychologists, social workers) involved in the management of both liver and GI children and close links with all other paediatric specialities, adult hepatology/gastroenterology, interventional radiology and specialist laboratory services.

Supervisor(s):
- Hepatology - Dr S Rajwal
- Gastroenterology - Dr V Zamvar

Clinical Training Responsibilities:

Inpatient and outpatient care of children with common and complex liver, GI and nutritional disorders. Specialist clinics in metabolic liver disease, viral hepatitis, fatty liver disease and home parenteral nutrition. Training in upper GI endoscopy including management of bleeding varices. Training in care of adolescents and transition to adult services.
Workload/Rota Arrangements/Example Timetable:

Example of weekly timetable in the liver unit

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<thead>
<tr>
<th></th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>9.00 Grand ward round</td>
<td>All day GA list (alt weeks)</td>
<td>Registrar ward round</td>
<td>8.30 All day hepatology GA list / 9.10 Post Transplant clinic</td>
<td>Monthly Adolescent, NAFLD and virology clinics</td>
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<tr>
<td></td>
<td>11.30 Transplant MDT</td>
<td>post-transplant annual review clinic</td>
<td>Admissions for theatre on Thurs</td>
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<tr>
<td></td>
<td>12 Radiology MDT</td>
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</tr>
<tr>
<td>PM</td>
<td>13.30 General Hepatology or Metabolic liver clinic</td>
<td>14.00 Multidisciplinary/psychosocial meeting</td>
<td>15.00 histology or audit/research meeting alt weeks</td>
<td>2 pm Clinic meeting</td>
<td>Ward teaching Journal club</td>
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</table>

There will be a consultant led ward round every morning at 9am and evening at 4 pm, except Wednesday morning. Consultant of the week also does a morning ward round on Sat and Sun. Thursday morning GA list is usually endoscopies and liver biopsies but if a child needs surgery for biliary atresia the whole day is used for the Kasai operation. Urgent endoscopies and liver biopsies can occur any day of the week.

On call is covered by a shift rota of 8-10 people covering paediatric specialities including oncology, nephrology and neurology.

Example of weekly timetable in the gastroenterology and nutrition unit

<table>
<thead>
<tr>
<th></th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>9.00 IBD OP clinic</td>
<td>9.00 Registrar ward round</td>
<td>9.00 X-ray meeting</td>
<td>9.00 Gastroenterology OP clinic</td>
<td>9.00 Gastroenterology ward round</td>
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<td></td>
<td>12.30 Psychosocial meeting</td>
<td>10.00 teaching; registrar ward round</td>
<td>Endoscopy list (Dr Zamvar)</td>
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<td></td>
<td></td>
<td>13.00 Postgraduate meeting</td>
<td>11.30 Neonatal unit MDT round</td>
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<tr>
<td>PM</td>
<td>14.00 Gastroenterology inpatient ward round</td>
<td>2 pm Multidisciplinary HPN patient review</td>
<td>13.30 Gastroenterology OP; joint clinic or intestinal failure clinic</td>
<td>14.00 Rapid access clinic</td>
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</tbody>
</table>
Non-Clinical Training Responsibilities (expectations of research/audit/teaching):

There are postgraduate teaching and research facilities and each team has an established research profile. Excellent library facilities and internet access are available. The weekly time table includes grand rounds, MDT meetings, ward teaching and journal clubs. Specialist audit meetings occur every 3 months. Supra regional clinical meetings in both Gastroenterology and Hepatology occur every 6 months.

Further Training Opportunities:

Presentation and publication of cases and studies at National and International meetings or in journals is encouraged.

Any Further Information:

Leeds is the cultural centre for the region providing excellent theatre, musical, art and sporting opportunities. There are good communication links between Leeds and other regional centres in Manchester, Liverpool, Newcastle and Sheffield and the national parks of the Peak District, Yorkshire Dales and the Lake District are easily accessible.

Contact details for Unit:

Dr Sanjay Rajwal  
Consultant Paediatric Hepatologist  
Paediatric Offices, E Floor, Martin Wing  
Leeds General Infirmary  
Great George Street  
Leeds LS1 3EX  
Tel: 0113 3025158  
Email: sanjay.rajwal@nhs.net

Dr V Zamvar  
Consultant Paediatric Gastroenterologist  
Paediatric Offices, A floor, Old Main Site  
Leeds General Infirmary  
Great George Street  
Leeds LS1 3EX  
Tel: 0113 3922669  
Email: veena.zamvar@nhs.net

Curriculum:

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