



**Faculty of Radiologists  
Royal College of Surgeons in Ireland**

**Higher Training Programme**

**2022**

# HIGHER TRAINING POST IN PAEDIATRIC RADIOLOGY

## CHILDREN'S HEALTH IRELAND (CHI) CRUMLIN

### **Background:**

Children's Health Ireland (CHI) Crumlin is the largest paediatric tertiary referral hospital in the country (243 beds), offering many specialty services. It is the National Referral Centre for paediatric oncology/haematology, cardiology, cardiothoracic surgery, genetics, and hepatology, with very busy units serving neonatal and general paediatric surgery and urology together with orthopaedics, neurology, respiratory, neonatology and infectious diseases amongst others. Our busy A/E department sees over 30,000 children per annum.

The Radiology department currently has 6 (5.7 WTE) paediatric radiology consultants, with 29 radiographers. A dedicated principal grade physicist is on site. More than 53,000 examinations are performed each year. Our department has undergone major redevelopment, over the past years with a new building housing a Siemens 1.5 T Avanto MRI scanner and a Philips 128 slice CT scanner. A new GE Discovery SPECT CT was added to the Nuclear Medicine Department recently. We have a new Canon Ultimax pulsed fluoroscopy unit, three Ultrasound rooms (Hitachi), a mobile ultrasound unit, two general DR rooms and biplane angiography. We have recently installed an EOS for dedicated spinal and Orthopaedic imaging. We are part of the NIMIS PACS network and participate in QI via PeerVue.

### **Clinical Training:**

During their rotation with us, the specialist registrar(s) will gain experience in all aspects of paediatric radiology. They will be rostered to participate in all of the imaging modalities, under close supervision of the Consultants, including sessions of neonatal imaging in the Coombe. They will be expected to have close interaction with the paediatric medical and surgical teams and will organise and present material at multidisciplinary conferences. They will partake in teaching their paediatric colleagues, at both undergraduate and postgraduate level. They will also participate on the on-call roster, again under close supervision of the Consultants who carry out the first on call duties.

### **Academic Status**

They will have at least one protected research session per week and will have full access to the extensive library and other facilities of the Children's Research Centre. They will be expected and encouraged to submit their research findings to national and international meetings as well as participate in a Departmental Audit.

For further information please contact:

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## **Post Fellowship Training in Paediatric Radiology, Children's University Hospital, Temple Street, Dublin 1**

### **Hospital and Departmental Profile**

The Children's University Hospital is a busy 140 bed paediatric hospital with over 10,000 admissions and 44,000 outpatients visits per year. It has a wide range of tertiary paediatric specialities including the national centres for inherited metabolic disorders, paediatric epilepsy surgical evaluation, paediatric craniofacial surgery, neonatal ophthalmology and head and neck tumour surgery. It has the national centre for neurosurgery for children under 6 years of age with the appointment of paediatric neurosurgeons with principal attachment to the Children's University Hospital. It serves as a specialist centre for paediatric neurology, neonatology (14 000+ births), nephrology, neonatal and paediatric surgery, orthopaedics and has the busiest paediatric emergency department in Ireland.

The radiology department does more than 45,000 examinations per year. The Radiology department, including neonatal radiology at the National Maternity and Rotunda Hospitals, has 5.3 paediatric radiology consultants as well as a full time principal grade physicist.

### **Description of Post**

Children's University Hospital trains post FFR registrars in the specialty of Paediatric Radiology for 6 month or 12 month periods.

The 5th year registrar will have an opportunity to observe, be taught and to take part in all the activities of the department including

- Plain film interpretation and fluoroscopic procedures
- Ultrasound: abdominal, cranial, hip and vascular ultrasound
- Nuclear medicine, including SPECT
- CT scanning A 64 slice CT scanner with I Dose dose reduction.
- MRI: A 1.5 T GE MR scanner and a wide variety of studies are being done including brain, spine, orthopaedic and body imaging, angiography and spectroscopy. As a dedicated paediatric MR scanner the potential for research is great. A new 3T MRI will be commissioned during the year.
- Fetal and Neonatal MR at NMH on 1.5T GE MR scanner
- Interventional procedures
- Sedation: Registrars learn about use and monitoring of paediatric sedation.

He or she will attend regular multidisciplinary conferences in the hospital including a well-attended hospital Radiology Conference every Friday, and respiratory, neonatal, neuroradiology, nephrourology and orthopaedic conferences as well as a radiology department journal club.

The 5th year registrar will have more responsibility than the 3rd year registrar, with more direct contact with the paediatricians, and more hands on experience in procedures. He/she will be expected to prepare and present at clinical conferences and take an active part in teaching radiology to paediatric trainees. He/she will gain

some experience in management and audit and will be expected to become involved in monitoring radiation protection in the department. He/she will participate on the on-call roster, under close supervision of the consultants who will be jointly rostered with them.

### **Neonatal radiology**

Registrars will accompany the consultants once a week to each of these hospitals:

#### **National Maternity Hospital, Holles Street, Department of Neonatal Medicine**

At this hospital, the registrar attends a weekly radiology review conference and a neonatal grand rounds type conference as well as doing cranial, hip and other ultrasound examinations and doing supervised reporting of neonatal radiographs. The registrar will gain experience in fetal MRI.

#### **Rotunda Hospital, Department of Neonatal Medicine**

At this hospital, the registrar attends a weekly journal club, a neonatal bedside grand round, review of interesting radiology, as well as doing cranial and other ultrasound examination. The registrar thus learns some neonatal medicine as well as the role of radiology in this setting.

### **Radiological Research**

The 5th year registrar will have dedicated research time and access to the research facilities of the Faculty of Radiologists and of the affiliated medical schools. The radiologists in the department regularly present papers at International Paediatric Radiology meetings and publish in peer reviewed journals. The radiology department of the Children's University Hospital has a principal grade physicist and this further enhances our research environment.

The 5th year registrar will be expected to set up and complete at least one prospective study at a level suitable for publication in a leading journal. He/she will be encouraged to attend and present papers at national and international radiology meetings.

### **For further information please contact:**

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