

University Hospital Waterford:

Radiology Cross-sectional imaging Fellowship Training Position

Background:

The Radiology Department at University Hospital Waterford provides a diagnostic and interventional radiology service across a wide range of specialties.

University Hospital Waterford (UHW) is part of the South/South West Hospital Group providing care to the South Eastern Region (population of approximately 500,000). It provides a Model 4 hospital service as a hub and spokes to the model 3 hospitals of St. Lukes Kilkenny, South Tipperary Hospital and Wexford General Hospital.

UHW is a University Teaching Hospital affiliated with the Royal College of Surgeons in Ireland and University College Cork.

UHW is one of the eight cancer centres designated by the National Cancer Control Plan (NCCP) providing rapid access assessment for breast, lung, prostate, colorectal and skin cancers.

Post available: Cross-sectional Imaging.

Throughout this post the trainee will work closely with Consultants to gain a wealth of experience in CT and MRI with emphasis on oncological, abdominal, gynaecology, head and neck and emergency imaging.

The sessional split between CT and MRI will be flexible and the needs and interests of the successful candidate will be taken into account.

Weekly multidisciplinary meetings are held across many specialties and the trainee will have the opportunity to present and take a lead role at these meetings. The fellow will also be included in the registrar on-call rota.

Many body interventional procedures under US and CT guidance are

performed in the department. The successful candidate will have the opportunity to get involved if this is an area of interest.

The post includes potential teaching opportunities at both undergraduate and postgraduate levels. The department is active in publishing and presenting nationally and internationally and the successful candidate will be encouraged to participate.

For further information or to arrange a visit to the department please contact:

Dr. Ciaran Redmond, Consultant Radiologist

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Mater Misericordiae University Hospital

➤ **Emergency Radiology with Cardiac Imaging Fellowship**

1 position – 12 months

The Mater is inviting applicants from international medical graduates for our “Emergency Radiology with Cardiac Imaging” fifth year fellowship position.

The Mater ED is the busiest in Ireland. In 2018 nearly 11,000 CTs were performed to investigate ED, AMAU (Acute Medical Assessment Unit) and ASAU (Acute Surgical Assessment Unit) patients, including 5,000 head CTs, 1000 CT Abdomens, 540 CTPAs and over 350 stroke CTAs. CT perfusion with automated software analysis is now a routine part of acute stroke care in the Mater and we performed 230 such studies in 2018. In addition 1,300 MRIs were performed on ED patients in 2018.

Emergency Radiology at MMUH is led by Prof Peter MacMahon and Dr Ferdia Bolster, both fellowship trained in emergency imaging.

A successful candidate for this position will be working in the ED for the majority of their time, being exposed to all ED CT, ED MRI and ED USS imaging performed during the working day. The ED fifth year will become intimately acquainted with all the diagnostic pathways and scanning protocols developed by the Mater Emergency Radiology team. For example, at the Mater we have developed a “straight-to-CT” pathway for all suspected acute strokes. We now have a world class median door-to-CT time in acute stroke of 7 minutes during the working day (19mins out-of-hours). In addition, we perform the full range of advanced stroke imaging in the ED including multiphase CTA and perfusion CT. Successful candidates will be exposed to a large numbers of acute stroke patients and become confident in the interpretation of these advanced imaging studies.

The Mater has recently been declared as a future Major Trauma Centre and the first phase of this project is expected to open Q4 of 2022. In preparation for this, the Mater ED will acquire a second advanced CT scanner to allow rapid whole body imaging, dual energy scanning and robust cardiac imaging. We would anticipate more major trauma imaging and cardiac imaging to be performed in the ED and reported by the Emergency Radiology team as we enter 2023.

At the Mater we have optimised all imaging protocols from an image quality and radiation exposure point of view but also to improve ED efficiency; for example, we do not routinely administer oral contrast in the ED or wait for renal function prior to intravenous contrast in sick patients (e.g. acute stroke). We have a dedicated ED ultrasound machine for radiology use located directly opposite radiology reporting which allows rapid targeted ultrasound to answer specific questions in acute surgical patients.

The ED fifth year will be expected to participate in the monthly ED teaching case conference which reviews the most interesting ED cases from the previous month. In addition, the ED fifth year leads the weekly case conference for the Radiology Sprs in training, and attends the weekly stroke MDM led by Prof Kavanagh.

Strong links have now been established between the State Pathologist department and Mater Radiology. Dr Ferdia Bolster leads the post-mortem imaging program at the Mater and the ED fifth year will be able to participate in the review of these cases.

Cardiac Imaging:

The Mater Hospital is the National Centre for cardiothoracic surgery and heart and lung transplantation. The department provides highly specialised treatment for patients with diseases of the heart, lungs and chest. These services include cardiac surgery, thoracic surgery, heart and lung transplantation, adult congenital heart disease and the Irish heart valve bank. The cardiac surgery service provides treatment to patients with diseases of the heart such as coronary artery disease, aortic disease, or valvular heart disease. The adult congenital heart disease service is a specialty service that provides medical and surgical treatment to patients who were born with heart disease. This may include, for example, abnormalities such as ventricular or atrial septal defects, anomalous pulmonary venous drainage, single ventricle, congenital mitral valve disease, bicuspid aortic valve disease in young patients and Marfan's syndrome. As part of this Fellowship the candidate will have dedicated reporting sessions in Cardiac CT and MR imaging with our Cardiac Fellowship Trained Cardiac Consultants Prof John Murry, Dr Cormac Farrelly, Dr John Moriarty and Prof Leo Lawler. The Candidate will also be involved in the MMUH Cardiac, Congenital Cardiac and Thoracic Aorta Multidisciplinary Team Conferences which offer a multitude of complex cases.

For further information, please contact:

Prof Peter MacMahon pmacmahon@mater.ie

Dr Ferdia Bolster fbolster@mater.ie

St Vincent's University Hospital

Fellowship in Interventional Radiology with or without Cardiovascular CT/MRI

Background

St. Vincent's University Hospital is a 500-bed teaching Hospital affiliated to the Dublin Academic Medical Centre. SVUH is the only JCI accredited academic medical in Ireland. The hospital serves the population of South-East Dublin and is a tertiary centre for medical and surgical specialties in the region. There are 21 Consultant Radiologists including 6 dedicated full time Interventional Radiologists and 14 Specialist Registrars. SVUH is home to many national referral centres including the National Liver Unit, National Pancreatic Transplant Program, National Centre for Primary Liver Cancer, National Surgical Centre for Pancreatic Cancer, National Sarcoma Centre, National Centre for Cystic Fibrosis. SVUH is also a European Centre of Excellence for Neuroendocrine Tumour. SVUH is one of a number of NCCP designated cancer centres including colorectal, lung, breast, prostate, renal and gynaecological cancers.

Training

The registrar will work in a fully equipped Radiology Department with three state of the art interventional rooms (Philips Azurion Flex Arm, Siemens Artis Q, and Siemens Axiom Artis dMP), under Consultant supervision, performing both vascular and non-vascular procedures. The vascular procedures include angiography, angioplasty, stenting (including EVAR), venous and arterial thrombolysis, hepatic chemoembolisation, Y90 hepatic radioembolisation (SIRT), portal vein embolisation and many other forms of embolization for trauma, post-partum haemorrhage, TIPS and transjugular liver biopsy, IVC filter insertion and retrieval and all forms of venous access. There is also quite a significant volume of vascular malformation intervention with various forms of embolization/sclerotherapy, both endovascular and percutaneous. Non-vascular interventional procedures include biopsy, abscess drainage, nephrostomy and ureteric stenting, biliary drainage procedures, biliary stenting, gastrostomy, gastro-jejunostomy, vertebroplasty. Additional opportunities for CT guided interventions are available including lung biopsy and abdominal biopsies.

SVUH is the first centre in Ireland to be equipped with Philips Percunav Image Fusion and Guidance system for combined ultrasound plus CT or MR guidance for radiofrequency and microwave ablations. There are also opportunities for intraoperative ultrasound-guided liver ablation both open and laparoscopic. As the National Centre for Liver Transplantation and Pancreatic Surgery, there is an unrivalled large volume and complexity of hepatobiliary intervention.

Patient assessment pre-procedure, management of complications and post-procedure follow-up are important aspects of modern Interventional Radiology and are emphasized during training. The SpR will also attend clinical-radiologic conferences in all relevant sub-specialty areas. The successful candidate may participate in the on call rota.

The Cardiac CT and MRI program is centered on 3 Siemens cardiac CT scanners including a new dual energy, dual source Siemens Drive scanner, the first installed in Ireland. SVUH has 2 cardiac-capable MRI scanners including a new Siemens 3T. The cardiac CT program covers all aspects of cardiac CT, including coronary evaluation of low-intermediate pre-test probability patients with chest pain, coronary artery bypass graft evaluation, coronary anomalies, triple-rule-out cardiac CT for the evaluation of PE/dissection/coronary artery disease, cardiac masses (metastases and primary tumors), coronary stent evaluation, congenital heart disease in adults and pre-ablation pulmonary vein imaging. The cardiac MRI program covers all aspects of cardiac MRI, including cardiomyopathies, viability studies, cardiac masses (metastases and primary tumors), phase velocity quantification flow studies, congenital heart disease evaluation. A particular emphasis is placed on consultant-led research project publication for the successful candidate based on cardiac CT/MRI.

Fellowship options

The program can be tailored to the specific training goals of the successful candidate. Relative content of different aspects of IR, and imaging can easily be modified to meet specific goals for fellowship training. There is one IR fellow per year, with no competition for cases as can occur with multiple fellows.

Elective options

Where a fellow has additional interests for 5th year training, elective rotations or procedure lists in musculoskeletal interventions, hepatobiliary imaging, PET/CT etc. can easily be accommodated.

Academic Status

St. Vincent's University Healthcare Group, Mater Misericordiae University Hospital, and University College Dublin form the Dublin Academic Healthcare Centre. The Department has a commitment to an active research program with a wide range of ongoing research projects. There are many active streams of funding for research in the department with financial support for fellows to present research at international meetings.

Candidates who wish to visit the department should contact: Dr. Ronan Ryan, Consultant Radiologist, St. Vincent's University Hospital, Elm Park, Dublin 4
[email: ronan.ryan@svhg.ie]

Tallaght University Hospital

IMGTI Higher Training Post

Body/Trauma & Emergency/Stroke Fellowship

Background: Tallaght University Hospital is a 700 bed teaching hospital, expanding to 900 beds this year, affiliated to Trinity College Dublin. Located in south-west Dublin, the hospital is a provider of local, regional, supra-regional and national medical and surgical specialities. Tallaght University Hospital is a National Urology Centre, a Regional Dialysis Centre and in 2020 was designated a national trauma unit. The hospital also provides supra-regional acute stroke assessment. The clinical referral base includes General Surgery, Colorectal Surgery, Hepatobiliary and Pancreatic Surgery, Vascular Surgery, Urology, Orthopaedics, Gynaecology, ENT, Gastroenterology, Hepatology, Neurology, Endocrinology, Rheumatology, Medical Oncology and Haematology, Radiation Oncology, Cardiology, Respiratory Medicine and Emergency Medicine. Diagnostic facilities include 1.5 Tesla MRI scanner, a new 3T scanner (instillation Jan 2020), two CT scanners, with a third CT scanner with spectral imaging due to be installed in Emergency Department in June 2023, two SPECT/CT gamma cameras, three ultrasound rooms and a fluoroscopy suite and a state of the art interventional radiology suite. The interventional radiology department provides urologic, gynaecologic, vascular and oncologic interventions under ultrasound, CT and fluoroscopic guidance. Other subspecialties include musculoskeletal ultrasound and interventions, cardiac CT and MRI, neuroradiology, GI/GU including women's imaging; prostate imaging with fused MRI/US transrectal biopsy; and CT colonography. The departmental PACS system is the national NIMIS system, enabling seamless review of imaging studies from other NIMIS sites and the department is also an active participant in the National Radiology Quality Improvement Programme.

Job Structure (Clinical):

The Fellowship is a one-year comprehensive, structured fellowship comprising clinical, research and teaching activity in all aspects of cross sectional imaging, trauma and stroke imaging. The SpR can expect to develop proficiency in MRI and CT to include abdominal and pelvic imaging (including gynaecologic and prostate MRI and CT colonography), neurological, and musculoskeletal imaging; ultrasound and CT-guided procedures, Cardiac CT/MRI or any combination of above that can be integrated into the general running of the department.

The department was in 2020 designated as a national trauma unit and is a national pelvic trauma centre, with a new expanding ED department, including new Canon Prism CT, and recently expanded ICU.

The hospital provides an acute stroke and general neurology service for a catchment of over 650,000 people; this role would provide exposure to all relevant imaging modalities, including CT perfusion, and an opportunity to attend and participate in weekly stroke, neurovascular and general neurology MDMs. There would also be

exposure to neurodegenerative imaging at a fortnightly MDM with clinicians from TUH Institute for Memory & Cognition, and pituitary imaging at a monthly endocrine pituitary MDM.

The patient population and clinical experience represents both a comprehensive outpatient setting and inpatient tertiary referral center with a high volume of oncology, surgery, medicine and emergency referrals. Multidisciplinary meetings are held in GI/HPB, gynaecology, inflammatory bowel disease, urology, ICU, neurology rheumatology and stroke and old age, and the fellow will have the opportunity to take a lead role in these meetings. The successful candidate will also be included in the registrar on-call rota.

Job Structure (Academic): The department has a strong academic record, active in publishing and presenting work both nationally and internationally. The SpR will be encouraged to participate in research and a protected research session can be given to a candidate who is involved in active research projects. The registrar will also be encouraged to help coordinate the undergraduate teaching schedule for the medical students of Trinity College Dublin and to provide tutorials to junior SpRs prior to Part I or Part II FFR exams.

Job Structure (Quality Improvement and Governance): The SpR will participate in at least one audit project during their year in Tallaght University Hospital. The SpR along with all SpRs and consultants will participate in departmental quality improvement meetings and become proficient in the use of peerVue (QI Programme software).

For further information please contact:

Dr. Ian Murphy, Consultant Radiologist & Training Co-ordinator;
ian.murphy@tuh.ie

Dr. John Feeney, Clinical Director; john.feeney@tuh.ie

Cork University Hospital Fellowship in Nuclear Medicine/PET-CT

Clinical Leads:

- Prof. Kevin O'Regan
- Dr. Jennifer Sammon
- Dr. Sean McSweeney
- Dr. Michael Moore,
- Dr. Maria Twomey
- Dr. Fiachra Moloney
- Dr. Liam Spence

Fellowship Description:

Cork University Hospital is an 850 bed hospital affiliated with University College Cork. The hospital is a designated National Cancer Control Programme centre and serves as a tertiary referral centre for cancer care in the South of Ireland.

CUH is the largest regional cancer centre in the southern region and treats large numbers of cancer patients across almost all surgical specialities. There have been multiple recent developments including the introduction of F-18 PSMA PET scanning, the installation of a new SPECT-CT unit, a newly-opened state-of-the-art radiotherapy unit and extensive recent expansion of the medical oncology department. The hospital has a culture of excellence in cancer care and the Department of Radiology plays a key role in the multidisciplinary management of cancer patients. The department has 3 multi-slice CT scanners, 3 MRI scanners (1.5T and 3T), Interventional Radiology suites, PET-CT (newly upgraded), SPECT-CT (recently installed) and 4 Ultrasound scanners. In 2022, the radiology department at CUH performed over 2300 nuclear medicine studies and over 1700 PET-CT studies.

The principal objective of this 1-year fellowship is to prepare a radiologist to be a competent independent practitioner in the full scope of nuclear medicine. The successful candidate will be encouraged to participate in multidisciplinary meetings which emphasise the importance of this modality (e.g. lymphoma MDT, urology MDT, thoracic MDT). The successful candidate will also take part in the review of unselected CT and MRI studies (allocated time: approximately 20%). However, the clinical scope of the work can be tailored to the qualifications, needs and sub-speciality interests of the trainee (for example, fellows with an interest in cardiac imaging will be encouraged to report nuclear cardiac imaging as well as cardiac CT and cardiac MR imaging).

The radiology department at CUH has a strong culture of research and fellows will be encouraged to generate and become involved in original research ideas. The conduct of this research would be supported by the academic research group within the department which is aligned to University College Cork. CUH is an active clinical trials facility with large patient accrual numbers in national and international cancer trials (Radiation and Medical Oncology).

For further information please contact:

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