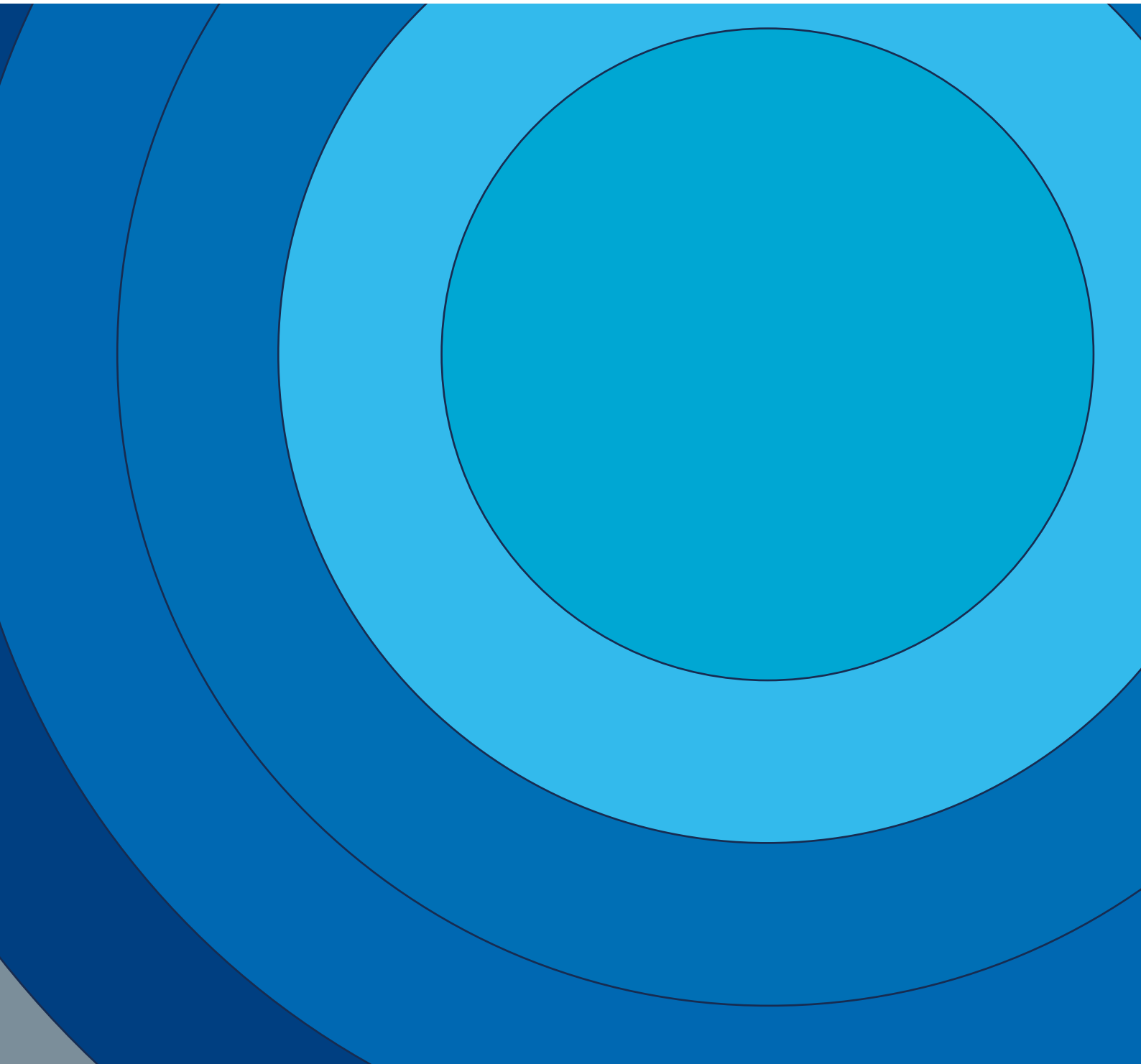


St Mark's Fellowships in Gastrointestinal Radiology

ST4, ST5 & Post-CCT Opportunities



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1. An Introduction to St Mark's Hospital

St Mark's Hospital was founded in 1835 and has developed an international reputation as a specialist postgraduate teaching hospital for patients with intestinal and colorectal disorders.

The hospital was originally based in City Road central London, moving to become an integral part of the Northwick Park site in 1995, before more recently relocating most services to Central Middlesex Hospital in Park Royal.

The Radiology Department consists of consultant radiologists, trainee radiologists, radiographers (including specialists in CTC), nursing staff, assistants, and our administrative colleagues.

Colorectal cancer forms a core component of St Mark's work, with radiologists providing their expertise in the staging of disease and surgical planning.

The Complex Cancer service offers highly specialist management of patients with advanced ('beyond TME') disease, with one of the country's largest pelvic exenteration services accepting national and international referrals from other tertiary centres.

Our CT colonography (CTC) service is a well-established training site with a close working between radiologists and specialist radiographers. We perform a high volume of examinations, supporting the bowel cancer screening programme.

Successful applicants will gain valuable experience by having their reports double read to allow them to work towards the BSGAR targets for CTC reporting and demonstrate competence as an independent reader.

Radiologists are closely involved with the work of St Mark's internationally recognised Inflammatory Bowel Disease (IBD) service,

contributing to multidisciplinary meetings, specialist reporting, and intestinal mapping.

Our fluoroscopy service performs a wide range of studies, equipping applicants to become proficient in both basic and advanced examinations for problem solving gastrointestinal cases.

Specialist ultrasound includes our high volume endoanal ultrasound service, expanding bowel ultrasound service (serving the adult and paediatric IBD team), and shear wave liver elastography.

Our recently established contrast enhanced ultrasound (CEUS) service supports the needs of both St Mark's and the Trust's wider population, particularly for hepatobiliary indications.

We have a proven record of training radiologists across all experience levels with former Fellows located throughout the United Kingdom, in leading teaching and academic centres. Successful applicants will have the opportunity to develop their clinical knowledge and skills in a wide range of modalities within our friendly and enthusiastic team whilst also maintaining their general radiology skills as part of our acute services.

2. Overview of Posts & Educational Opportunities

This document has been designed to support clinical radiologists considering an application to St Mark's for further subspeciality.

Please note that applications from other specialities will not be considered via this route.

The department generally offers a minimum of the following each year:

- 1 x ST4 and 1 x ST5 posts (Clinical Radiology applications via the London Deanery)
- 1 or more post-CCT Fellowship (direct application to St Mark's Radiology)

Fellowship posts are subject to available funding and on occasions we can support more than one Fellow each year.

We may also be able to accommodate shorter out of programme or less than full time placements / experience via the Training Programme Director route.

Applicants will be involved in the full extent of specialist gastrointestinal imaging and multidisciplinary meetings, as well as contributing to the Acute Radiology service and on-calls.

Depending on funding, interest, and sessions available we can usually accommodate up to 4 subspeciality trainees (FTE), sharing and rotating through reporting and MDT experience.

Note that these details are correct at the time of publication, though please confirm specific details of the current service and opportunities in advance where these are relevant to your application.

2.1 Reporting & Examinations

The radiology department is involved in a wide range of studies:

Colorectal Cancer

- CT colonography (CTC)
- MR rectum (local staging)
- Body CT (staging, surveillance, and post-operative)
- Fluoroscopic studies: water soluble contrast enemas, cystograms
- Endorectal ultrasound

Complex Cancer (Rectal)

- Specialised 'beyond TME' rectal cancer MR reporting
- Pre- and post-operative CT
- Complex cancer clinic / MDTs (working closely with the Surgical team)

Pelvic Floor & Defecatory Disorders

- Fluoroscopic and MRI defecography
- Fluoroscopic defecating and water soluble pouchograms
- Endoanal ultrasound
- Radiographic colonic transit studies

Inflammatory Bowel Disease, Complex Abdominal Imaging, & Intestinal Mapping

- CT and MR enterography
- MR perianal fistulae
- Bowel ultrasound
- Fluoroscopic studies: contrast studies of stomas (e.g. loopograms) and defunctioned bowel, fistulography, contrast follow-throughs, tubograms (e.g. enteric support devices)
- Abdominal CT \pm luminal contrast (oral, rectal)

Hepatobiliary & Upper GI

- Chronic liver disease reporting (including CT/MR and surveillance ultrasound)
- Contrast enhanced ultrasound (CEUS)
- Shear wave elastography (point and two-dimensional)
- Upper GI fluoroscopy

Intervention: For applicants interested in non-vascular intervention we offer (or plan to offer) the following

- Post-operative collection drainage (CT and ultrasound)
- Ultrasound guided pleural and ascitic drainage
- We are planning to dramatically expand the outpatient interventional service at CMH, offering non-vascular CT and ultrasound guided intervention
- Percutaneous liver biopsy (planned as future service)

2.2 Multidisciplinary Team Meetings (MDTs)

St Mark's radiologists provide their expertise to numerous MDT including:

- Lower GI (LGI) cancer
- Benign surgical GI MDT
- Complex (Rectal/pelvic) Cancer
- Inflammatory Bowel Disease (IBD)
- Pelvic Floor
- Pouch
- Intestinal Failure (IF)
- Upper GI (UGI)
- Benign Hepatobiliary
- Abdominal Wall
- Weekly complex and acute lower GI clinical-radiology meeting

2.3 Acute & On-call Radiology Commitments

London North West University Healthcare NHS Trust is one of the largest integrated care Trusts in the country, and applicants will gain valuable experience reporting a wide range of cases, including but certainly not limited to gastrointestinal pathologies.

Trainees and Fellows will contribute to the Acute Radiology service at primarily Northwick Park, and also Ealing Hospital (as part of on-call commitments), consisting of:

a) In-hours:

CT/MR reporting, in-patient ultrasound and fluoroscopy, and covering the duty phone as part of the Acute Radiology team at Northwick Park (NPH). This is subject to change, but typically consists of 2-3 sessions per week depending on seniority.

b) Out-of-hours (on-call) shifts:

- Weekdays:
 - Two registrars at NPH covering from 17:00-22:00
 - Registrars will be expected to help with fluoroscopy and portable ultrasounds
- Weekends:
 - Two registrars covering 09:00-22:00 and 11:00-22:00 at NPH
 - One registrar covering Ealing Hospital from 09:00-19:00
 - 2-3 registrars are generally on-call at once
- Night shifts are covered by the outsourcing of scans for vetting and reporting
- NPH provides a Hyperacute Stroke service. Applicants will be required to report CT head with ASPECTS, as well as CT neck & intracranial angiograms
- Intervention is covered by a separate consultant-led rota

At publication on-calls involve covering 1 shift for every 7 days worked (100% WTE), though this is expected to be less frequent with future intake of subspecialty trainees.

On-call rota frequency and the exact service is subject to change depending on the number of current radiology trainees and Fellows, as well as service requirements.

Working in our Acute team has given many of our former trainees confidence with reporting and problem solving, particularly those applying for consultant posts.

2.4 Research & Publications

Many of the St Mark's radiology consultants are actively involved in research. Motivated trainees will be able to undertake or be involved in various projects, posters, and publications, in line with trainees' interests and expertise.

Quality improvement and audit are also important to our department and there will frequently be opportunities to develop these important skills to drive service improvement.

2.5 Teaching

Trainees will have a named supervisor, but will generally receive training from all the consultants during their time at St Mark's. This consists of feedback from review of cross-sectional reports, supervised MDTs, and practical skills (fluoroscopy, ultrasound, and intervention).

There will be an expectation that sub-speciality trainees will contribute to the teaching of junior registrars. We routinely have at least one ST2-3 registrar undertaking their 'core' GI rotation at St Mark's, and also ST1 trainees learning the main modalities (CT, fluoroscopy, and ultrasound).

There will occasionally be London Deanery training days which trainees can assist in contributing with.

Similarly, there may be courses with imaging components that trainees can attend and potentially contribute to.

Given the wide scope of specialist practice at St Mark's, an extensive radiology manual is available to applicants, covering induction, logistics, and clinical topics (the STM radiology guide).

Several of the St Mark's consultants have a particular interest in ultrasound, and additional guides and resources are also available to support trainees who would like to develop these skills.

2.6 Expectations

Applicants are expected to have post-FRCR experience in lower GI radiology to fully benefit from the opportunities available at this national referral centre. They should be motivated, actively engage with their time at St Mark's, and display a good level of professionalism and reliability.

Good interpersonal skills are essential as in any professional paid role.

Further person specifications can be found below in the *Eligibility* section, which largely mirrors current Consultant Radiologist applications, given the relative seniority of applicants to Imaging Fellowship posts.

Trainees in turn can expect the educational opportunities outlined above, supported by good quality consultant led teaching and feedback.

3. Timetable / Job Plan

During working hours successful applicants will cover a range of services primarily at St Mark's (Central Middlesex Hospital) and also Northwick Park Hospitals, and also less frequently Ealing Hospital (limited as part of on-calls).

This will consist of 2-3 Acute service provision sessions along with a range of gastrointestinal sessions.

Exact timetables are open to discussion with supervisors depending on specific educational requirements.

There will generally also be an on-call requirement (please see above).

Due to often having multiple trainees and likely clashes between activities it will generally be necessary for rotas to be amended at various points during the placement to ensure adequate exposure to the full range of educational opportunities (allowing for constraints required by service requirements).

Rotas can usually be tailored depending on the length of placement and specific educational requirements of the applicant, including time spent in more specialist MDTs.

Reasonable flexibility is possible, for example alternating GI reporting sessions with MDTs.

We usually advise trainees to consider and discuss their specific educational goals carefully with their supervisor, as though it may be possible to find time to experience most areas, this may not lead to sufficient experience to achieve competency.

Generally, we find that trainees benefit from focusing broadly on IBD and colorectal cancer to start.

- Trainees with a particular interest in IBD may decide to spend a few sessions with the Complex Cancer team to experience how they work, but to then focus more on benign imaging to develop high level skills in these areas.
- Conversely, we have had trainees choose to focus on Complex Cancer, regularly attending the MDT, clinics, and reporting complex rectal MRI, and therefore spending less time on IBD cases and associated radiology.

An example post-CCT Fellow rota consisting of 2 x 6 month blocks is provided below. This was designed to allow sufficient exposure to all modalities, along with the IBD and LGI MDTs.

We were able to accommodate training in bowel and contrast enhanced ultrasound during the year, and the trainee also found time to take the UGI MDT during the latter block as they wished to build confidence in this area.

Example Fellowship Rota

First 6 months		Monday		Tuesday		Wednesday		Thursday		Friday	
	Location	CMH / STM		CMH/STM		CMH/STM		CMH / STM		NPH	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Fellow	EAUS/FL Cold GI reporting (1:2)	CT Colon rep	GI CT/MR rep	IBD MDT prep (or cold GI reporting)	IBD MDT (8-9am) CT/MR GI reporting	CT Colon reporting	Liver US List	Bowel US List	ACUTE	ACUTE

Second 6 months		Monday		Tuesday		Wednesday		Thursday		Friday	
	Location	CMH / STM		CMH/STM		NPH		CMH / STM		CMH / STM	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Fellow	CT/MR GI reporting	CT Colon reporting	FL list	CT Colon reporting	ACUTE	ACUTE	GI rep (or UGI MDT)	LGI MDT prep	LGI MDT or Fluoro	MDT outcomes or CEUS list

CEUS (contrast enhanced ultrasound); EAUS (endoanal ultrasound); FL (fluoroscopy); IBD (inflammatory bowel disease); LGI (lower gastrointestinal); MDT (multidisciplinary team meeting); rep (reporting); UGI (upper gastrointestinal)

This was an ambitious rota, but the trainee was well motivated and managed to achieve most of their learning objectives within a 12-month placement.

4. Eligibility

Please note that this document is intended for *Radiology* trainees who have completed their core training in a UK scheme or equivalent. Applications from other specialities will not be considered via this route.

Applicants for ST4-5 posts:

- Satisfactory progression as part of formal radiology training program and eligible to apply for ST4-5 subspeciality training

Applicants for post-CCT Fellows:

- Satisfactory completion of radiology training (Outcome 6 at final ARCP)

	ESSENTIAL	DESIRABLE
Qualifications	Recognised medical degree FRCR	Relevant postgraduate qualifications or diplomas
Registration	Registered with the GMC	
Knowledge and Expertise	<p>IT skills and computer literacy</p> <p>Broad training across all the modalities of Clinical Radiology that will enable full participation with the general workload and with the on-call rota</p> <p>Ability to take full and independent responsibility for clinical care</p> <p>Broad based general professional training in general medicine</p> <p>Comprehensive training and experience in general imaging (all modalities)</p> <p>Evidence of interest in gastrointestinal imaging</p>	<p>Experience in subspeciality gastrointestinal imaging (all modalities)</p> <p>Experience in gastrointestinal and general fluoroscopy</p> <p>Experience of intestinal and multimodality ultrasound (contrast enhanced, shear wave elastography)</p> <p>Experience in pelvic floor imaging</p> <p>CT colon reporting experience</p>
Teaching & Training	Experience of teaching and training undergraduates, postgraduates, and junior medical staff	<p>Evidence of teaching and training of other healthcare professionals</p> <p>Training accreditation</p>

Management & Audit	<p>A broad understanding of the management role of a consultant and mechanisms underpinning service delivery</p> <p>Understanding the principles of clinical governance and its implications</p> <p>Leadership skills</p> <p>Understanding and experience of clinical audit</p>	<p>Evidence of clinical audit and quality improvement</p> <p>Experience of radiology service development, process mapping, or business case evaluation</p> <p>Experience in supporting implementation of new, and improvement of existing services</p>
Research & Publications	<p>Knowledge of research methodology</p> <p>Proven ability to carry out and present research projects</p> <p>Presentations at National meetings</p>	<p>Ability to organise research and work within research governance procedures</p> <p>Publications in peer reviewed journals.</p>

	ESSENTIAL
Language	Able to speak and write in English at a high standard, sufficient to fulfil the job requirements including clinico-radiological interactions.
Personal skills	<p>Commitment to deliver a high-quality service with patient welfare at forefront of practice.</p> <p>Ability to communicate and work effectively with colleagues, patients, relatives, GPs, nurses and other staff and agencies.</p> <p>Caring attitude to patients.</p> <p>Commitment to Continuing Medical Education and Professional Development.</p>

5. Further Inquiries & Contact Details

5.1 Address & Contact Details

St Mark's Radiology department is mainly based at Central Middlesex Hospital (CMH) and currently operates out of ACAD (area 2) and BeCAD (CT and inpatient ultrasound), which are both located on the ground floor.

St Mark's The National Bowel Hospital
Central Middlesex Hospital
Acton Lane
London
NW10 7NS

Note that successful applicants will also be required to contribute to the Acute service at Northwick Park Hospital (NPH). The St Mark's consultants also spend variable time at NPH.

Northwick Park Hospital
Watford Road
Harrow,
Middlesex
HA1 3UJ

Inquiries and requests to visit the Radiology Department should be directed to: LNWH-tr.StMradiology@nhs.net

5.2 Travel

Limited paid parking is available for visitors to Central Middlesex Hospital. The surrounding roads are often busy so please leave plenty of time if driving.

The nearest public transport links are:

- Park Royal station (Piccadilly line)
- Harlsden station (Bakerloo/Lioness lines)
- North Acton (Central line)

These stations require walking, though the hospital is also well serviced by buses.

Northwick Park Hospital has limited paid parking for visitors.

The nearest public transport links are:

- Northwick Park (Metropolitan line) situated close to the hospital
- Kenton (Bakerloo/Lioness line) – short walk to the hospital

Further details are available at the following link:

<https://www.stmarkshospital.nhs.uk/who-we-are/getting-here/>

6. Appendix

6.1 Useful Links

Applicants may find it useful to read about the services offered by St Mark's in more detail:

<https://www.stmarkshospital.nhs.uk/services-a-z/>

6.2 Acknowledgements

Many thanks to:

- The STM Radiology Consultant body for their input in this document
- Steve Preston (Head of Media and Digital Production) for his assistance with design and formatting of this document.

6.3 Document Version

Information for applicants: Subspeciality Fellowships in Gastrointestinal Radiology (ST4, ST5 & Post-CCT).

First published: Jan 2026

