

# **London Foundation School**

## **Specialised Foundation Programme Applicant Guide**

Version 1, 18 August 2023

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## Key Changes

**Reasonable Adjustment and GiS** – 2024 Application form consists of fields that you will need to select should you wish to apply for Reasonable Adjustment and Guaranteed Interview Scheme. If invited to interview, we will request the evidence for the reasonable adjustment.

**EPM Decile Score** – Due to the introduction of the Preference Informed Allocation process and a computer-generated rank, the Situational Judgement Test (SJT) and EPM/decile score will no longer be used for application to the Foundation Programme and has been removed from the FP2024 application process. London Foundation School has changed the overall score algorithm. Please refer to Appendix C.

**Revised SFP shortlisting Criteria** – London Foundation School will not be verifying Presentations as part of the 2024 selection process for the London Specialised Foundation Unit of Application. We strongly advise applicants to read the guidance of the of the other Foundation School. If they are applying to two units of applications.

## Introduction

The UK Foundation Programme Office (UKFPO) has published guidance for applicants to the 2024 Specialist Foundation Programme (SFP) containing comprehensive details on this year's application process plus a timeline showing key dates.

Applications to Specialist Foundation Programme (SFP) and Foundation Programme (FP) 2024 will need to be submitted during the same application window. Applications for SFP will be made as part of the main Standard Foundation application through Oriel to a maximum of two Specialised Units of Application (SUoAs), and will comprise the standard application form, plus part 2 of the application form to be completed with information required by SUoAs.

Successful SFP applicants will receive offers from SUoAs in advance of the allocation for Foundation Programme places. Successful SFP applicants who accept an offer cannot be included in the FP allocation. Unsuccessful SFP applicants, or those who decline SFP and FPP offers, will be included automatically in the FP allocation. The national application process is complete once all applicants have been allocated to a UoA, or when all available places have been filled (please see the UKFPO link - <http://www.foundationprogramme.nhs.uk/> for more detailed information).

In order to meet the eligibility criteria for the Specialist Foundation Programme (SFP) for 2024 entry, you must either have qualified or are expecting to qualify from a UK medical school after 6th August 2022 and by 6th August 2024 and have been nominated by your medical school; or you must have completed an online Eligibility application form and submit the required documentation to the UKFPO's Eligibility Office by 25<sup>th</sup> July 2023. Please see <https://foundationprogramme.nhs.uk> for full details.

If you have a query, please contact the team via our London post graduate medical and dental education (PGMDE) Support Portal webpage by selecting [Applicants General Enquiry Form](#)

## Recruitment to London Specialised Foundation Programme Unit of Application (SUoA) 2024

Prospective applicants must complete a standard national application form and provide supplementary information. Applications must be submitted online between 9:00 am 20<sup>th</sup> September 2023 and 12:00 pm 4<sup>th</sup> October 2023.

Applicants will be issued with an applicant ID number, which is a specific number assigned to each applicant when they enrol on the national online recruitment system.

Applicants should plan to complete and submit their application in good time well ahead of the deadline to avoid any potential last-minute problems with internet connection or other technical issues.

**Please note** late applications will not be accepted under any circumstances.

**No changes can be made to the application form once the application form has been submitted. However, applicants may amend their programme preference options by 12:00 pm on 13<sup>th</sup> October 2023.**

**Stage 1** – Application forms will undergo a locally-managed shortlisting process which will be carried out in two phases. Applicants will be informed of their application status and will be invited by close of business on 7<sup>th</sup> November 2023 to select their preferred interview slot via Oriel. Interview slots will be released as follows:

- 8<sup>th</sup> November 2023 – Portion of am and pm interview slots across all 4 interview episodes will be released by 12:00pm
- 9<sup>th</sup> November 2023 – Remaining portion of am and pm interview slots across all 4 interview episodes will be released by 12:00 pm

**Stage 2** – 4 single-day interview days will take place on the following dates:

- 15<sup>th</sup> November 2023
- 22<sup>nd</sup> November 2023
- 29<sup>th</sup> November 2023
- 6<sup>th</sup> December 2023

**Candidates are advised to book the interview slots by the deadline, 10<sup>th</sup> November 2023 and make note of the interview dates. No other dates are available.**

**Stage 3** - Applicants will be informed of their application status and offers made on 10<sup>th</sup> January 2024 via Oriel. Applicants will be provided with 48 hours to accept or decline an offer.

This document outlines the local process to be used by applicants applying to London Specialised Unit of Application (SUoA). For generic information on the SFP 2024 application process, please go to the Specialised Foundation Programme section of the UKFPO website and download the UKFP 2024 Applicant Guide to Allocation. Refer to page 5 of the guide.

There will be no face-to-face interviews during this round of SFP Recruitment. All interviews will be facilitated remotely via an online platform. Please note that there may be a requirement for further changes to be made to the recruitment process due unforeseen circumstances. If there are any changes, we will advise applicants via Oriel.

## Online application Process

All applicants apply to the main Foundation Programme (FP) vacancy on Oriel via the following web link <https://new.oriel.nhs.uk/Web> Applicants can then select to be considered for the Specialised Foundation Programme.

The Oriel applicant portal is compatible with Internet Explorer 11, Safari 7+, Google Chrome 30+, Firefox 24+ and Edge. Applicants are advised to use one of these browsers when using the website and preferably the most up to date version of that browser. Please note that the system is not compatible with Internet Explorer 7 – 10.

Please note: **You should never use multiple browsers or browser tabs (including logging on a computer and your mobile phone at the same time) when accessing Oriel. You should only have one session of Oriel open at any one time and should ensure that you logout completely before closing the browser.**

If you find yourself getting stuck in a 'loop' or if there appears to be an error on the system, please try to access the site from a different web browser, for example, Google Chrome, or delete your cache or internet browser history. For technical queries, please contact the technical helpdesk via [support@hicom.co.uk](mailto:support@hicom.co.uk). Please do not open Oriel in multiple browsers as your changes might not be saved.

## London Specialised Foundation Programme – Specialised Unit of Application

The London SFP SUoA is affiliated to five medical schools/universities which together offer a total of 106 Specialised Foundation Programmes.

Medical School/University	No. of Programmes
Imperial College London (IMP)	30
King's College London (KCL) – King's College & Guy's and St Thomas' Hospital	19
Queen Mary University of London (QMUL)	24
St George's University of London (SGUL)	12
University College London (UCL)	21
Total	106

Successful applicants are recruited to a specific 4-month academic F2 post e.g., academic GUM. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing healthcare organisation.

Details of both the London SFP SUoA application process and the programmes in this guide.

The webinar for how to apply to London Specialised Foundation Programme will take place on the 11<sup>th</sup> September 2023 from 5:00 pm to 6:00 pm. To join webinar, please select [SFP Webinar](#)

If you have a query regarding any aspect of the process for applying for a London SFP, please review the medical Foundation FAQ's in the first instance which can be accessed via the PGMDE Support Portal <https://lasepgmdesupport.hee.nhs.uk/support/home> Should you need to contact us, you can raise your query by selecting [Applicants General Enquiry Form](#)

### London SFP application process Timeline

Date	Activity
22 August 2023 (date may change)	Foundation Programme vacancy published to Oriel
12 September 2023	National Foundation Programme (FP) Registration window
20 September 2023	National Application window opens at 9:00 am (BST). Complete online FP application which will include SFP form refer to part 2 Application <b>Late applications will not be considered under any circumstances.</b>
4 October 2023	National FP/SFP/FPP application window closes at 12:00 midday (BST)
13 October 2023	Deadline for applicants to rank and amend SFP programme preferences on Oriel
16 October to 26 October 2023	Local London SUoA Shortlisting process
27 October 2023	Outcome of the shortlisting process released to the applicants. Applicants provided with information on how to appeal shortlist score.
30 October to 1 November 2023	Local London SUoA Shortlist Score 72-hour appeal window
7 November 2023	Applicants informed of appeal outcome
7 November 2023	Applicants receive invitation to interview
8 November 2023	Portion of AM & PM interview slots across all 4 interview episodes released by 12:00pm
9 November 2023	Remaining AM & PM interview slots across all 4 interview episodes released by 12:00pm
10 November 2023	Deadline for applicant to have chosen interview slot (by 12:00 pm)
15 November 2023	Interview Episode 1
22 November 2023	Interview Episode 2

29 November 2023	Interview Episode 3
6 December 2023	Interview Episode 4
W/C 8 January 2024	Interview Feedback release
10 January 2024	National offer date - applicants notified of outcome of applications on Oriel (between 9am and 10am).
12 January 2024	Deadline for applicant to accept or decline offers
17 January 2024	SFP first cascade offers date (between 9am and 10am)
19 January 2024	Deadline for applicants to accept or decline offer(s) (*between 9am and 10am 48 hours later)
24 January 2024	SFP second cascade of offers (between 9am and 10am)
26 January 2024	Deadline for applicants to accept or decline offer(s) (*between 9am and 10am 48 hours later)
31 January 2024	SFP third cascade of offers (between 9am and 10am)
2 February 2024	Deadline for applicants to accept or decline offer(s) (*between 9am and 10am 48 hours later)
5 – 9 February 2024	SFP clearing round

**Offers Process – 48 hours to accept or decline an offer before offer expires.**

### **Case Study**

Sarah applied to the West Midlands SUoA vacancy and the Scotland SUoA vacancy on Oriel. Sarah was deemed appointable and ranked highly enough to be offered a programme on both SUoAs.

On the 10<sup>th</sup> January 2024, the offer for the West Midlands SUoA became available on the system at 9.00 am. The offer for Scotland SUoA was released at 9:15 am. The programme offer for West Midlands SUoA will expire at 9 am on 12<sup>th</sup> January 2024 whereas the programme offer from Scotland SUoA will expire at 9:15 am on 12<sup>th</sup> January 2024.

### **London SFP Person Specification**

Applicants for London specialised foundation programmes will be required to meet the criteria listed in the UKFPO 2024 Person Specification (**see Appendix A**). In addition applicants applying for London Specialised Foundation Programme will also be required to demonstrate the following desirable criteria:

The applicant should provide evidence of consistent high academic achievement, for example:

- 1<sup>st</sup> Class honors for a BSc and/or Distinction class (NOT merit or pass) for Postgraduate master's degree (level 7 only), e.g., MPhil, MSc, MPharm.
- Peer reviewed publication/s
- Distinctions, 1<sup>st</sup> Prizes or equivalent of top 10% of year



London SFPs also requires applicants to be able to demonstrate they have the following academic attributes. This will be tested during the interviews.

- An understanding of the principles of ethical medical research
- An understanding of the importance of effective teaching

## Specialised Foundation application form

### SFP Educational achievements

As part of the standard foundation programme (FP) application form, applicants will have the option to apply to a maximum of two SUoAs by selecting 'yes' to the first question on the Part 2 of the form. Applicants will be scored on the additional degree, publications and the first 5 prizes that they list.

Applicants are not expected to upload any supporting evidence to support their SFP application. Applicants may, however, be asked to submit evidence of their further educational achievements as part of the London SFP recruitment process.

Submitted evidence must clearly demonstrate what the achievement is, what it was awarded for and from whom it was awarded. Applicants are encouraged to ensure that evidence of achievements is up to date and available for them to supply to London SFP SUoA if requested.

### SFP Whitespace questions

**It is important that you read this section carefully.**

**Applicants will be prompted to respond to a series of white space questions (free text answers). London SUoA do not use white space questions to inform the local selection process. Applicants that are applying to London SUoA ONLY, are advised to detail 'n/a' in these fields since it is mandatory to complete this section of the application form.**

**Applicants applying to multiple SUoAs, should refer to the relevant SUoA local guidance to check whether they require information in the fields to inform their local selection process.**

**For example, if an applicant is applying to 2 SUoA and one of these SUoA IS using white space questions and the other IS NOT, the applicant **MUST** complete the fields in response to the questions.**

**In instances such as these, The SUoA NOT using the information will simply disregard the information. This will not negatively impact on your application.**

## Preferences (London SUoA SFP)

Applicants may rank the available programmes in order of preference at the time of application. Once applicant submits the application, they have until 13<sup>th</sup> October 2023, 12:00 Midday (BST) to amend their programme preferences. Applicants are strongly recommended to positively rank all programmes.

To rank individual programmes in order of preference, return to the dashboard and navigate to the 'Preferences screen', or access the preferences via 'my applications'. Applicants will see a number of applications – the FP application, the maximum of two SFP applications and FPP application (if applied).

Programme preferencing is completed using a drag and drop process. Applicants will need to drag the relevant programmes into the column entitled 'preference'. If there are programmes, they are not prepared to accept, they will need to leave them in the 'no preference' column. However, applicants should consider this carefully since not positively ranking many may affect their chances of being offered an SFP programme. The system saves the preferences when the applicant presses 'save'.

**Applicants are advised not to use their mobile device to rank their preferences. Applicants are also advised not to access their Oriel application across multiple browsers simultaneously, as there have been issues in the past where the preferences have not been saved.**

The Specialised Foundation Programmes were extremely popular last year with 85% of programme offers being filled in the first allocation round. Remember that the more selection of programme preferences, the more chances applicants have of receiving an offer.

#### **Case Study**

If Mark only positively ranks 10 programmes and all 10 programmes are offered to and accepted by applicants who have ranked higher, Mark will not receive an offer. Mark would only receive an offer in the next allocation round for one of his 10 ranked programmes if one of the higher scoring applicants had declined the programme they had been offered.

Unfortunately for Mark all his ranked programmes were filled in the first allocation round and Mark did not receive an offer of a Specialised Foundation Programme.

#### **Equality**

The equal opportunities monitoring information required by the health service to monitor their recruitment practices. This section of Standard Foundation Programme applications asks you to provide your age, gender, ethnic origin, religious beliefs and whether you consider yourself to have a disability under the Equality Act 2010. You may choose to leave the date of birth fields blank. All other fields are mandatory, but you may choose the option "I do not wish to disclose". The information you provide in this section will only be accessed by authorised individuals involved in the application process to ensure that the process adheres to equality and diversity legislation. Anonymised reports will be produced to analyse recruitment practices.

## Declarations

Oriel will prevent applicants from submitting their application until all sections of the application form have been completed.

**IMPORTANT:** Once an application form has been submitted, it cannot be amended.

## London SUoA Shortlist Process

Applications to the London SUoA will be assessed for eligibility using the following two phased shortlist process.

**Phase 1** – One of the three Educational Achievement domains (Publication) will be assessed against the published scoring criteria. Applications below the threshold score will not be progressed to the next stage (Phase 2), for verification of Additional Degrees and Prizes. Applications above the threshold score will be progressed to phase 2 for verification of Additional degrees and Prizes.

**Phase 2** – The remaining two of the three Educational Achievement domains (Prizes & Further Degrees) will be assessed, and the previously assessed domain scores added. Applications below the threshold score will not be progressed to the next stage of the local recruitment process. Applications above the threshold score are progressed to the interview stage of the local recruitment process.

Educational Achievements are divided into three domains as detailed in the table below. Each domain will be scored by a panel of two assessors using standardised scoring criteria.

Items	Maximum points achievable for domain
Further degrees	5
Publications	10
Prizes	5
<b>Total maximum application (Shortlist) score</b>	<b>20</b>

The two assessors will each score the domain independently in the first instance. The two assessors will then discuss the applicant evidence listed against the domain and then reach an agreed score. Although all three scores will be recorded, it is the **agreed score** that will be recorded against that domain as the application form shortlist score.

Members of the scoring panel will not have access to the personal details or programme preference sections of applicant's application form.

## London SUoA Application Shortlist Score Local Appeal Process

Applicants will receive notification detailing the outcome of the shortlist process, and their application status on 27<sup>th</sup> October 2023. Applicants will also be provided with information on how they may appeal their interview score and will have 72 hours to complete and submit the relevant form. No other appeal for amendments to your shortlist score will be accepted.

Please note that an appeal should only be submitted where an applicant believes their evidence has been overlooked/misinterpreted. Please note that only information submitted at the time of application may be considered, any additional information/evidence to support your appeal will not be considered.

The appeal will be reviewed by a panel consisting of a minimum of 1 clinician together with Health Education England members of staff, independent of the initial shortlist panel. The independent appeals panel will make their decision based on any investigations they consider reasonable, having regard to your statement within the appeal and any supporting information/evidence provided by you.

You cannot make an appeal simply because you disagree with the principles of the London SUoA recruitment process or the judgements or outcomes that have been made by the application assessors. You may request a review by the London SUoA where processes or procedures have not been followed, or there is evidence of unfairness in how the process has been implemented, and the objectivity of decisions is called into question.

## London SUoA Shortlisting Scoring Criteria

**Please note the London SFP SUoA (local) scoring criteria is different from that defined by the other Foundation School. If you are applying to two units of application, please ensure you read guidance provided by other Foundation School.**

**Information detailed on the London SFP application form will be scored by the London SFP SUoA using the following local scoring criteria. Please ensure that you read the details below carefully.**

## FURTHER DEGREES

Items	Maximum score achievable for degree type
Primary medical qualification only	0
2.2 class honors degree	
3rd class honors degree	
Doctoral degree (PhD, DPhil, etc.)	
Unclassified honors degree	
2.1 class honors degree	2
Merit class (NOT distinction or pass) for Postgraduate Master's degree (level 7 only), e.g., MPhil, MSc, MPharm	
1st class honors degree	5
Distinction class (NOT merit or pass) for Postgraduate Master's degree (level 7 only), e.g., MPhil, MSc, MPharm	
<b>Maximum score achievable for domain</b>	<b>5</b>

### SCORING CRITERIA FOR FURTHER DEGREES DOMAIN

Additional degrees give medical students an added opportunity. However, publications and prizes attract the majority of marks in our shortlisting criteria.

We recognise that some students may not have had the opportunity to undertake an additional degree for personal or financial reasons, which does not lessen their academic potential. For this reason, additional degrees will score marks if a first, distinction, 2:1 or merit has been achieved.

### IMPORTANT NOTES FOR FURTHER DEGREES DOMAIN

- Honours MA degrees, including those from some Scottish Universities, are undergraduate degrees and therefore classed as honours degrees, not master's degrees. Honours degrees from Oxford and Cambridge can be converted to master's degrees after a period of time, but these do not require a further year of study and are therefore classed as honours degrees and not master's degrees.
- Points for postgraduate master's degrees can only be awarded where the degree represents a further year of study taken in addition to an undergraduate degree (whether as an intercalation or other), and there is a competitive entry requirement of a previous degree or equivalent. If you

choose a lesser score as part of the main application, your score will not be upgraded at a later stage following the verification process.

- A Class for Masters’ degrees must be entered – pass/merit/distinction.”
- Some international medical schools (e.g., the USA) award an ‘MD’ or similar as part of their basic medical qualifications. This qualification does not attract any additional points in this section.
- Converting degrees with a Grade Point Average (GPA) score  
For applicants who have undertaken an exchange programme of study as part of a degree course or are a graduate from an overseas university where they provide Grade Point Average (GPA) points, the following procedure must be used. Please note that the GPA is different to weighted average marks.

Applicants must take the cumulative, i.e., all years, grade point average (GPA) and calculate the equivalent degree level and select the most appropriate. The evidence provided MUST show the cumulative (GPA) and specify on what scale the degree was scored, otherwise zero points will be awarded.

All applicants converting degrees with a GPA score use the online calculator through <http://www.foreigncredits.com/Resources/GPA-Calculator> and provide evidence to this effect. Applicants must provide evidence of the calculation from Foreign Credits and not just the final outcome. The Graduate Recruitment Bureau (GRB) also offers some useful resources for applicants who are looking to submit evidence of overseas / GPA degrees with the calculation and evidence to demonstrate equivalence. Further information can be found on their website at: <https://www.grb.uk.com/recruiterresearch/international-degree-equivalents>

**It is the responsibility of each applicant to obtain the necessary evidence of GPA calculations and to demonstrate equivalence with UK standards.**

<b>PUBLICATIONS</b>
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Items	Maximum score achievable per publication
Original research paper published in a peer-reviewed journal	2
<b>Maximum score achievable for domain</b>	<b>10</b>

**The maximum score awarded in Publications is 10, If applicant has listed more than 5 publications, they will only be awarded maximum of 10 points.**

### **IMPORTANT NOTES FOR PUBLICATIONS DOMAIN**

- Please do not use acronyms when detailing your educational achievement. Please ensure to provide as much information as possible.
- For publications, the work must have been published regardless of whether it has been accepted or is in press and must have a PubMed ID number (PMID). **If you do not provide a PMID for a publication, no points will be awarded.**
- DOI, ISBN or PMCID numbers are not sufficient and will not count.
- You do not need to be the first named author on the publication, just one of the named authors.
- You are advised to check the database <https://pubmed.ncbi.nlm.nih.gov/> to ensure the article is available and reflects the information stated on your application. You are advised to double check the PMID, particularly that all the numbers are present, before submitting your application form as amendments cannot be made later. **If it is considered that you have falsified the PMID number, the UKFPO will advise your Medical School.**
- Please note that collaborators on PubMed do not qualify for points. Applicants must be one of the titled authors on PubMed. The only evidence of publications that is required to be uploaded on to Oriel is the PubMed ID – no further evidence is required (for example, an uploaded document).
- The publication must be peer reviewed.
- Avoid copying and pasting PubMed ID numbers (type them in carefully so they match PubMed exactly).
- All categories of publication listed on PUBMED will be accepted EXCEPT for those without full abstract within the PUBMED entry. This is because PUBMED entries without a listed abstract are usually editorials, commentaries or replies to original research papers.
- Book chapters will not score points in this section.

See below two examples:

PubMed logo, Search bar, Search button, Advanced, User Guide, Save, Email, Send to, Display options

Randomized Controlled Trial > Leukemia. 2023 Apr;37(4):807-819.  
doi: 10.1038/s41375-023-01849-5. Epub 2023 Mar 17.

### The infusion of ex vivo, interleukin-15 and -21-activated donor NK cells after haploidentical HCT in high-risk AML and MDS patients-a randomized trial

Kyoo-Hyung Lee <sup># 1</sup>, Suk Ran Yoon <sup># 2 3</sup>, Jeong-Ryeol Gong <sup># 4</sup>, Eun-Ji Choi <sup>5</sup>, Hun Sik Kim <sup>6</sup>, Chan-Jeoung Park <sup>7</sup>, Sung-Cheol Yun <sup>8</sup>, Soo-Yeon Park <sup>2</sup>, Sol-Ji Jung <sup>2</sup>, Hanna Kim <sup>2</sup>, Soo Yun Lee <sup>2</sup>, Haiyoung Jung <sup>2 3</sup>, Jae-Eun Byun <sup>2 9</sup>, Mirang Kim <sup>3 10</sup>, Seon-Young Kim <sup>3 10</sup>, Jeong-Hwan Kim <sup>3 10</sup>, Je-Hwan Lee <sup>5</sup>, Jung-Hee Lee <sup>5</sup>, Yunsuk Choi <sup>5</sup>, Han-Seung Park <sup>5</sup>, Young-Shin Lee <sup>5</sup>, Young-Ah Kang <sup>5</sup>, Mijin Jeon <sup>5</sup>, Jimin Woo <sup>5</sup>, Hyeran Kang <sup>5</sup>, Seunghyun Baek <sup>5</sup>, Su Mi Kim <sup>5</sup>, Hoon-Min Kim <sup>4</sup>, Kwang-Hyun Cho <sup>11</sup>, Inpyo Choj <sup>12 13 14</sup>

Affiliations + expand  
PMID: 36932165 DOI: 10.1038/s41375-023-01849-5

#### Abstract

Clinical effect of donor-derived natural killer cell infusion (DNKI) after HLA-haploidentical hematopoietic cell transplantation (HCT) was evaluated in high-risk myeloid malignancy in phase 2, randomized trial. Seventy-six evaluable patients (aged 21-70 years) were randomized to receive DNKI (N = 40) or not (N = 36) after haploidentical HCT. For the HCT conditioning, busulfan, fludarabine, and anti-thymocyte globulin were administered. DNKI was given twice 13 and 20 days after HCT. Four patients in the DNKI group failed to receive DNKI. In the remaining 36 patients, median DNKI doses were  $1.0 \times 10^9$ /kg and  $1.4 \times 10^9$ /kg on days 13 and 20, respectively. Intention-to-treat analysis showed a lower disease progression for the DNKI group (30-month cumulative incidence, 35% vs 6%,  $P = 0.040$ ; subdistribution hazard ratio, 0.50). Furthermore, at 3 months after HCT, the DNKI patients showed a 1.8- and 2.6-fold higher median absolute blood count of NK and T cells, respectively. scRNA-sequencing analysis in seven study patients showed that there was a marked increase in memory-like NK cells in DNKI patients which, in turn, expanded the CD8<sup>+</sup> effector-memory T cells. In high-risk myeloid malignancy, DNKI after haploidentical HCT reduced disease progression. This enhanced graft-vs-leukemia effect may be related to the DNKI-induced, post-HCT expansion of NK and T cells. Clinical trial number: NCT02477787.

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Comment > Proc Natl Acad Sci U S A. 2023 Aug 22;120(34):e2311010120.  
doi: 10.1073/pnas.2311010120. Epub 2023 Aug 9.

### Drivers of herbivore diversity decoupled by leveraging the fossil record

Anshuman Swain <sup>1 2 3</sup>

Affiliations + expand  
PMID: 37556487 DOI: 10.1073/pnas.2311010120

No abstract available

#### Comment on

Fossil leaves reveal drivers of herbivore functional diversity during the Cenozoic.  
Albrecht J, Wappler T, Fritz SA, Schliepning M.  
Proc Natl Acad Sci U S A. 2023 Aug 8;120(32):e2300514120. doi: 10.1073/pnas.2300514120. Epub 2023 Jul 31.  
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## PRIZES

Items	Maximum score achievable per prize
Distinction	1
Confirmation of scoring in top 10% of medical school year for an exam subject.	
Scientific/Medical <b>First Prize</b> for academic achievement <ul style="list-style-type: none"> <li>• At undergraduate/medical school (pertaining to applicant's medical education including intercalated BScs, but not degrees undertaken prior to entering medicine)</li> <li>• International Level</li> <li>• National level</li> </ul>	
Scholarships awarded for educational achievements.	
Nationally awarded funding for research project, or any other funding grant	
<b>Maximum score achievable for domain</b>	<b>5</b>

### IMPORTANT NOTES FOR PRIZES DOMAIN

- **Please note that only the FIRST FIVE PRIZES detailed on the application form will be considered by the assessors for London SFP application. Applicants are advised to detail the prizes most likely to score first.**
- Please do not use acronyms when detailing your educational achievement. Please ensure to provide as much information as possible.
- The prize must be an undergraduate/medical school, national or international educational prize (pertaining to applicant's medical education) awarded by an organisation that is not student or trainee-led and must be a **FIRST PRIZE**. Second or third prizes, or honourable mentions, do not qualify for points in this section.
- National means that the level of organisation is Scotland, England, Wales, Northern Ireland.
- A prize is awarded for academic achievement rather than for an activity.

**Applicants must:**

- Indicate type of prize and state name of prize.
- Detail what the prize was awarded for and indicate clearly that the award is for a first prize.
- Detail date the prize was awarded.
- State the official name of the awarding body in full.

The following **are not** eligible for points:

- Bursaries
- Elective awards
- Merit
- Second-place, runners-up prize etc
- Prizes not awarded for academic achievement e.g. Bursaries, Elective awards.
- Scholarships not awarded for academic achievement e.g. Music or Sporting scholarships.

**CASE STUDY**

Stephanie was awarded a prize for best dissertation in virology. *1 point was awarded.*

Melanie was awarded a certificate of merit for being a student representative. *No points were awarded.*

**Please note that the London SUoA administrative team is unable to confirm if a particular Educational Achievement is likely to score points for an application as applications are reviewed by trained assessors. Applicants are advised to detail all the additional achievements they think will score points in line with this guidance.**

## Example of Standard Foundation Application Form

The screenshot shows the top navigation bar of the application form with the following steps: Application form - Part 1 (6) [checked], Application form - Part 2 (2) [checked], Supporting information (2) [checked], Preferences [checked], and Confirm & submit [checked]. Below this is a row of tabs: Personal, Eligibility, Fitness, References, Competences, Declarations, and Foundation priority programmes. The 'PERSONAL DETAILS' section is active. It includes a 'PAGE TRACKER' checkbox (checked) with the text '(information will be displayed on your Application Summary)'. A disclaimer states: 'The information you enter on this Part One form\* will be passed direct to the recruiting department at the area/region or national recruiting organisation. It will not be used in assessing and scoring your application. If you are successful the details entered in this part of the application form will then be passed to your prospective employer and/or HR department.' Below this is a note: '\* Pages 1 to 4, e.g. Personal, Eligibility, Fitness, References'. A warning states: 'Please note incomplete application forms will not be considered.' A confirmation statement reads: 'I confirm that I understand the implications if I do not complete this application form correctly (\*)' with a 'Yes' button.

You must complete and submit your application form on Oriel between 09:00 (BST) on 7 September 2022 and 12:00 (midday BST) on 20 September 2022.

**Late applications will not be accepted under any circumstances.**

## Example of Part 2 of Standard Foundation Application Form (Applying for SFP)

Complete Part 2 of the Standard Foundation Programme Application form to apply to Specialised Foundation. You can

Complete White Space Questions. Refer to individual SUoA website for the shortlisting requirements

The screenshot shows the 'Specialised FP Educational achievements' section of the application form. It is titled 'Specialised FP Educational achievements (1 of 2)' and includes a 'Validate' button. The first step is 'Specialised Foundation Programme', which asks: 'Do you wish to apply to the Specialised Foundation Programme?' with 'Yes' and 'No' buttons. Below this is a dropdown menu for 'Please select 2 UoA' and a checkbox to 'confirm your specialised Unit of Application selection'. The second step is 'Educational Achievements', which includes instructions and four questions with 'Yes' and 'No' buttons: 'Do you have an additional degree/s?', 'Do you have presentations that you wish to add to your application?', 'Do you have any Prizes, Merits and Distinctions that you wish to add to your application?', and 'Do you have any publications that you wish to include in your application?'. Blue arrows from the text boxes above point to the 'Yes' button for the first question and the 'Yes' button for the second question.

Select the Educational Achievements you wish to declare. It will automatically populate individual fields for you to complete. See example

## Application example of Educational Achievements

### Additional Degree

Type of degree	Subject of degree	Degree classification	Educational Institution	Date of qualification
Bachelor of Arts	Natural Sciences	Class 1	University of Cambridge	Insert date

### Prizes

Were you awarded first prize/distinction/merit?	Prize detail	Date awarded	Awarding body
First prize	Best dissertation in Virology	20/05/2019	University of Life

### Publications

Publication title	List of authors	PMID/PMCID/DOI/in press ID	Year	Journal/book title	Volume/page
How to be successful at SFP Short-listing	Joe Bloggs, Mark John, Sue Wong,	39456899	2020	HEE peer-reviewed Journal of Things	Volume 12, Issue 4, Pages 1056 - 1060
How to be successful at SFP Interviews	Joe Bloggs, Mark John, Sue Wong,	39567910	2019	HEE peer-reviewed Journal of Things	Volume 13, Issue 5, Pages 1 - 3

### **Please note:**

Applicants will complete and submit one main application form for all the foundation recruitment streams. Using progressive disclosure applicants will have the option to apply for Specialised Foundation Programmes. Using this one application form, applicants may apply to up to two Specialised Foundation Unit of Applications (SUoA).

### ***Whitespace Questions***

Applicants will be prompted to respond to a series of white space questions (free text answers). London SUoA does not use white space questions to inform the local selection process. Applicants that are applying to London SUoA only, are advised to detail 'n/a' in these fields since it is mandatory to complete this section of the application form.

Applicants applying to multiple SUoAs, should refer to the relevant SUoA local guidance to check whether the SUoA requires information in the fields to conform their local selection process.

**For example, if an applicant is applying to multiple SUoAs and one of these SUoA IS USING white space questions and the other SUoA IS NOT, the applicant MUST complete the fields. In instances such as these, The SUoA NOT using the information as part of their local recruitment process will simply disregard the information when assessing the application. This will not negatively impact on your application.**

### Shortlisting Feedback

Two scoresheets will be released to the applicants with their shortlisting scores. On the scoresheet there will be 3 scores.

- Panellist 1 – Individually scores applicant and enters their scores on the digital scoring.
- Panellist 2 – Individually scores applicant and enters their scores on the digital scoring.
- Panellist 3 – Panellists 1 and 2 will have further discussion after scoring applicant individually and they will enter the agreed scores against panellist 3. Please note that these scores may be higher or lower than their individual scores. Total score against panellist 3 will form total interview scores.

### Interviews

All interviews will be facilitated remotely via an online platform. There will be no face-to-face interviews during this round of SFP recruitment.

London SFP SUoA will be holding four interview episodes in order to provide as much flexibility as possible. The scheduled interview dates are as follows:

15 November 2023	All Interview episodes will be facilitated remotely via MS Teams.
22 November 2023	
29 November 2023	
6 December 2023	

**Interview Ratio:** The London SUoA interview ratio is 2:1. For example for 106 programmes declared the SUoA would aim to offer 212 interview places.

Applicants will receive notification detailing the outcome of the shortlist process, and their application status on 26<sup>th</sup> or 27<sup>th</sup> October. Applicants will receive:

- Shortlist score and feedback and local appeal process information via email
- Notification of Shortlist successful application status
- Notification of Shortlist unsuccessful application status

Once the local London SUoA shortlist score local appeal process has been complete. Applicants will receive invitation to interview via email on 7<sup>th</sup> November 2023 and interview timeslots will be released from the following day as detailed below.

### **Interview time slot release and booking**

The interview slots will be released in two phases.

**Phase 1** – A portion of AM & PM time slots across all four interview episode dates released by 12 pm on the 8<sup>th</sup> November 2023.

**Phase 2** – The remaining AM & PM time slots across all four interview episode dates released by 12pm on the 9<sup>th</sup> November 2023.

The deadline to book an interview time slot is 12pm 10<sup>th</sup> November 2023 and booking is on a first come first serve basis. It is the applicant's responsibility to ensure that they book their preferred interview date and time.

**It will be assumed that applicants who do not schedule their interview by this deadline have declined the offer of an interview and the application will be withdrawn from the London SFP recruitment process.**

Please note that interviewers will not be issued with applicants' programme preferences so your choice of programme in the interview session will not affect your application.

### **Disability Confident Scheme (Applying for Reasonable Adjustments and Guaranteed Interview Scheme)**

If you consider yourself to have a disability, wish to request an adjustment to a recruitment process or apply via the guaranteed interview scheme (GIS) you should submit your request via the application form.

Requests received outside of the application window will only be considered where the applicant can evidence a change in their circumstance since they submitted their application.

### Supporting documentation – validity

You must provide valid documentation that confirms your disability and/or extenuating circumstances. In order to be valid, such documentation must be **issued by a recognised authority and within an appropriate time frame**.

For all disabilities bar learning disabilities, supporting documentation needs to be issued by a doctor on the GMC specialist register (this includes the GP register) in order to be considered valid.

The supporting documentation must:

1. Confirm your disability
2. Corroborate the rationale supplied for each adjustment requested

For learning disabilities (including dyslexia, dyspraxia, etc) valid supporting documentation consists of a standard report from an educational psychologist or University Disabilities Unit / Enablement Centre confirming investigation and diagnosis of a specific learning disability. No other documentation will be accepted.

We guarantee to interview anyone with a disability whose application meets the minimum criteria for the post. By 'minimum criteria' we mean that you must provide evidence in your application form which demonstrates that you meet the level of competence required.

The Disability Confident scheme only guarantees an interview – it does not automatically mean that applicants interviewed will be offered allocation to the posts. Post offers are based on the applicants' overall scores (refer to page 33)

### **Attending an interview**

As part of the on-line interview process, applicants will be required to have available and display:

- One form of photo ID (e.g. driving license, passport, medical student ID badge etc.) in order to confirm their identity.
- **Applicants will NOT have their portfolios reviewed as part of the local London SUoA recruitment process.**

## Interview process

The entire interview process, including registration, will last approximately 1 hour 10 minutes (we have allowed 15 minutes transfer time) and will take the following format:

<b>Registration</b>	Registration and identity confirmation	<b>15 minutes</b>
<b>Preparation</b>	Review of Academic abstract and Clinical Scenario	<b>15 minutes</b>
<b>Interview Station</b>	10-minute Academic Interview and 10 minutes Clinical interview	<b>20 minutes</b>

**Applicants are advised to join the Microsoft Teams meeting room link (Candidate registration) provided promptly at their scheduled time.** Applicants who join after their scheduled time will not be allowed to take part in the interview process unless there are extenuating circumstances, which will be at the discretion of the local Interview lead.

Applicants will be issued with a clinical scenario and an abstract from a major general/specialist journal. See appendix C for an example of each. The clinical scenario will form part of the clinical interview and the abstract will form part of the academic interview. **Applicants are not allowed to look at or refer to magazines, notes, or electronic equipment once documentation has been issued.**

Applicants are permitted to take the notes they have made during preparation into the interview station. Applicants will have a total of 15 minutes to consider both the Academic Abstract and Clinical Scenario before they begin their Interviews. The Academic Abstract and Clinical Scenario will be displayed in the interview.

During their two-year foundation programme, appointed candidates will have to achieve all standard foundation competences in less clinical time, as they will also be undertaking academic activities. This makes it important that they already possess good clinical skills and hence the inclusion of both academic and clinical components within the interview process.

**Applicants who receive an exceptionally low score in their clinical interview will not be deemed appointable and will not be offered an academic programme.** If a significant patient safety concern is identified during the interview, the concern will be fed back to the applicant's medical school for them to consider whether an applicant may need additional support.

## Interview Scores

- Academic part of the interview will consist of 5 questions each question will score applicant maximum of 4 points.



- Clinical part of the application will consist of 4 questions each question will score applicant maximum of 5 points.
- Maximum total interview score is 40.

### **Matching to Programmes**

A combination of application score and interview score will be added together with (weighting x 4) to provide each candidate their overall score **(see appendix D)**.

Applicants will be matched to specific programmes on the basis of their rank and preferences i.e., applicants with the highest ranks will be matched to their preferences first.

### **Application Outcomes**

On 10 January 2024 applicants can login to their Oriel account to see the result of their application(s). If an applicant has been offered a programme, they will also receive an e-mail notification via Oriel. The result of the application will be either an offer of a programme, notification that the applicant is on the reserve list or notification that they have not been successful. Applicants who have received an SFP offer must accept or decline the offer on Oriel within 48 hours e.g. if an offer is released at 9:15am 10 January 2024 the offer will expire at 9:15am on 12 January 2024. Failure to respond by the deadline will result in the offer being withdrawn.

NB: Successful applicants are recruited to a specific 4-month academic F2 post e.g., academic GUM. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing healthcare organisation.

If an applicant accepts a London specialised foundation programme as part of the allocation process, it will not be possible to change the allocated academic F2 post.

### **Cascade Process**

Following the acceptance period, if places are still available a cascade process will take place, between 17 January 2024 and 2 February 2024, whereby London SFP SUoA will offer unfilled places to the next highest scoring applicant available who has not yet accepted an SFP elsewhere. During the cascade process applicants will be permitted 48 hours to accept or reject the offer of a programme on Oriel. After the third cascade of offers London SFP SUoA will have four days

(5 February 2024 to 9 February 2024) to offer any remaining unfilled places to applicants still on the reserve list who have not already accepted an offer elsewhere. Applicants will be contacted by e-mail. Applicants will then have a limited amount of time to accept or decline the offer.

## Feedback

Applicants will be sent the copies of their interview feedback in the form of their digital score sheet via email week commencing 8 January 2024. This will be sent to the email address linked to the applicant's Oriel account.

### Example of Interview feedback

Station 1: SFP Structured Interview - Academic and Clinical 2023 Interviews				
<b>Structured Interview Evaluation - Academic</b>				
	<b>Panellist1</b>	<b>Panellist2</b>	<b>Panellist3</b>	<b>Score</b>
<b>A1. Evidence of interest in and understanding of Academic Medicine in general.</b> <i>The candidate can demonstrate clear reasons for choosing academic medicine, understanding of it, and motivation (2 minutes)</i>	3 - Good Score: 3	3 - Good Score: 3	3 - Good Score: 3	9
<b>A2. Understand principles of research</b>	Good Score: 3	Good Score: 3	Good Score: 3	9
<b>A3. Ability to appraise critically the abstract (including putting into context)</b>	Good Score: 3	Good Score: 3	Good Score: 3	9
<b>A4. Understand the principles of ethics</b>	Good Score: 3	Good Score: 3	Good Score: 3	9
<b>A5. Demonstrates clarity in spoken communication, able to build a rapport, listen, persuade. Adjusts to style of questioning, expresses ideas clearly and makes use of non-verbal behaviours.</b>	Good Score: 3	Good Score: 3	Good Score: 3	9
<i>Comments: "Panellist1: Was unable to demonstrate her knowledge and principles of research/ ethics effectively"</i>				
<b>Patient Safety Concerns - Academic</b>				
Do you have any patient safety concerns about this candidate?	No I do not have concerns	No I do not have concerns	No I do not have concerns	
<b>Clinical</b>				
	<b>Panellist1</b>	<b>Panellist2</b>	<b>Panellist3</b>	<b>Score</b>
<b>B1. Clinical Account</b> Demonstrates an understanding of a clinical situation and recognises actions and the ability to prioritise.	4 - Excellent Score: 4	4 - Excellent Score: 4	4 - Excellent Score: 4	12
<b>B2. Clinical and team working.</b> Demonstrates an awareness of appropriate attitudes and knowledge in relation to clinical situations, including demonstrates capacity to work effectively with others.	3 - Good Score: 3	3 - Good Score: 3	3 - Good Score: 3	9
<b>B3. Professional integrity and probity -</b> Demonstrates awareness of competence and appropriate professional behaviour of self and others and when to seek advice. Demonstrates respect for colleagues & patients, takes responsibility for actions and mistakes.	3 - Good Score: 3	3 - Good Score: 3	3 - Good Score: 3	9
<b>B4. Communication.</b> <del>Demonstrates</del> clarity in spoken communication, able to build rapport, listen, persuade. Adjusts to style of questioning. <del>expresses</del> ideas clearly, makes use of non-verbal behaviours.	3 - Good Score: 3	3 - Good Score: 3	3 - Good Score: 3	9
<i>Comments: "Panellist1: Needs to demonstrate better understanding of clinical scenario and her knowledge"</i>				
<b>Patient Safety Concerns - Clinical</b>				
Do you have any patient safety concerns about this candidate?	No I do not have concerns	No I do not have concerns	No I do not have concerns	
<b>Aggregate Score</b>				<b>84/120</b>

- Applicants will be interviewed by two panel members who will be scoring applicant individually (as panellist 1 and 2) and after the interview, panel members will have further discussions and they will agree on an agreed score which will be entered against panellist 3.
- Agreed score can be higher or lower than individual scores.
- Scores awarded to the applicant against panellist 3, will be added and will form applicant's total interview score out of 40.
- Please ignore the last column on the score sheet the aggregate score.
- Please note that applicants will not get any individual feedback by the panel members. Panel members may enter any feedback on the scoresheet if they feel they need to highlight an outstanding performance or any development areas.

## UKFPO SFP Appeals Process

Please note that applicants may not appeal their interview score. Applicants may only appeal if they can demonstrate that the published processes or procedures pertaining to the recruitment episode have not been followed correctly or the objectivity of decision making is called into question, which has a significant adverse effect on the applicant's application. There is an opportunity to do this at the conclusion of the process, after applicants are matched to programmes.

The date of the appeal window is currently TBC. Further information on the UKFPO SFP Appeal process will be available on the London website in due course.

Further details will be made available at

<https://london.hee.nhs.uk/recruitment/medical-foundation/foundation-programme>

## Offer of Employment

The SFP recruitment process is a matching process only. The offer of employment will be made by the employing healthcare organisation on completion of satisfactory references and pre-employment checks such as DBS etc.

Once the SFP and standard FP recruitment process has been completed and all applicants have been matched to programmes, details of allocations will be forwarded to the employing healthcare organisations. Following this, successful applicants will be contacted directly by their employing healthcare organisation in order to complete all of the necessary pre-employment checks.

## Probity in applications

Applicants' portfolios may be requested in order to validate evidence of their educational achievements as part of the London SFP recruitment process and/or pre-employment checks by the employing healthcare organisation.

If during the recruitment process further concerns are raised and the probity of an application is questioned, the applicant may be contacted by a senior representative of London SFP SUoA to provide an explanation. When a response is received a scrutiny panel may convene and a decision made. If there is no case to answer the applicant will be able to proceed as normal. If the explanation is not satisfactory the application will be withdrawn. The applicant has a right to appeal this decision.

## General information

### Start Date

F1 programmes are expected to commence during July/August 2024.

Newly appointed F1 doctors are required to attend a period of induction/shadowing (currently 4 days including 2 days shadowing) the F1 doctor they are taking over from **before** the start of the Foundation Programme. Applicants will be contacted either by their allocated foundation school and/or their

employer with the details of local arrangements and their required start date. Please note that many employing organisations offer extended periods of induction/shadowing which exceed the national minimum requirements and so applicants should ensure that they are available to join their employing healthcare organisations during week commencing two weeks before 7<sup>th</sup> August 2023.

## **Pay**

Junior doctors are paid on national pay scales, determined each year by the Doctors and Dentists Review Body (DDRB) after receiving evidence from the BMA and the Department of Health.

Foundation doctors should assume that all programmes carry basic salary only unless otherwise informed by the employing healthcare organisation on confirmation of appointment.

Details of pay rates can be found at:

[www.nhsemployers.org/your-workforce/need-to-know/junior-doctors-contract](http://www.nhsemployers.org/your-workforce/need-to-know/junior-doctors-contract)

## **Travel & Relocation Expenses**

The reimbursement of travel and relocation expenses is administered by the London Healthcare Education Team. Successful applicants to a London SFP would follow the process which can be accessed by selecting: [Relocation and Excess Travel Claims](#)

## **Academic Career Options**

Further information is available on: [www.healthcareers.nhs.uk/i-am/working-health/clinical-academic-careers/clinical-academic-medicine](http://www.healthcareers.nhs.uk/i-am/working-health/clinical-academic-careers/clinical-academic-medicine)

## Appendix A

### UK Foundation Programme (UKFP) August 2024 Person Specification

	Essential Criteria	Demonstrated during this part of the application process
<b>Eligibility</b>	Applicants must meet the requirements set out in the UK Foundation Programme 2024 eligibility criteria.	Eligibility application
<b>Qualifications</b>	The applicant must have achieved, or expect to achieve, a primary medical qualification as recognised by the General Medical Council (GMC) by the start of the UK Foundation Programme 2024.	Eligibility application
<b>GMC provisional registration</b>	Applicants must hold GMC provisional registration and a licence to practice by the start of the UK Foundation Programme 2024.	Eligibility application / pre-employment checks
<b>Clinical Knowledge &amp; Skills</b>	<p>The applicant must be familiar with and be able to demonstrate an understanding of the major principles of the GMC's <a href="#">Outcomes for Graduates 2018</a> including:</p> <ul style="list-style-type: none"> <li>• Knowledge, skills, and performance</li> <li>• Safety and quality</li> <li>• Communication, partnership, and teamwork</li> <li>• Maintaining trust</li> </ul> <p>The applicant must be familiar with requirements as set out in <a href="#">Promoting excellence: standards for medical education and training (2016)</a> including the relevant core skills.</p>	<p>Application/ pre-employment checks</p> <p>Clinical assessment (Where required)</p>

<b>Language &amp; Communication Skills</b>	<p>The applicant must demonstrate skills in listening, reading, writing, and speaking in English language that enable effective communication about medical topics with patients and colleagues, as set out in the GMC's <a href="#">Good Medical Practice (2013)</a><sup>1</sup>.</p>	<p>Application/ pre-employment checks</p> <p>Clinical assessment (Where required)</p>
<b>Attributes</b>	<p>The applicant must demonstrate:</p> <ul style="list-style-type: none"> <li>• an understanding of the importance of the patient as the central focus of care</li> <li>• the ability to prioritise tasks and information and take appropriate decisions.</li> <li>• an understanding of the importance of working effectively with others.</li> <li>• the ability to communicate effectively with both colleagues and patients.</li> <li>• initiative and the ability to deal effectively with pressure and/or challenge.</li> <li>• commitment to learning and continued professional development.</li> <li>• self-awareness and insight into the boundaries of their own abilities</li> <li>• an understanding of the principles of equality and diversity.</li> </ul>	<p>Application/pre-employment checks</p> <p>Clinical assessment (Where required)</p>

<p><b>Probity</b></p>	<p>The applicant must demonstrate appropriate professional behaviour, i.e., integrity, honesty, confidentiality as set out in the GMC's <a href="#">Good Medical Practice (2013)</a><sup>1</sup>.</p> <p>By the start of the programme, the applicant must demonstrate criminal record and barring clearance at the appropriate level and complete all other preemployment requirements according to current government legislation.</p>	<p>Application/pre-employment checks</p>
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<sup>1</sup> Please note that whenever General Medical Council documents are referenced, it is possible that revised versions will be produced after the UKFPO's information has been published. Therefore, applicants should always refer to the most up-to-date version of these publications.

## **Appendix B – Example of Clinical Scenario and Academic Abstract**

Please find below, for information only, examples of the format of a clinical scenario and abstract that will be issued as part of the London and Kent, Surrey and Sussex SFP interview process. The clinical scenario will form part of the clinical interview and the abstract part of the academic interview. Applicants will have a total of 15 minutes to consider the abstract before they begin their interview. The clinical scenario will be provided during the clinical interview.

### **Clinical Scenario – Example**

You are an FY1 in Trauma and Orthopaedics. You are clerking in a 28-year-old man who has just been admitted following an assault 16 hours before, in which he sustained broken ribs, a broken wrist and a head injury. He is very upset, and you ask if there is anything else troubling him. He tells you that he was also anally raped by the four assailants and is concerned about his health and his relationship with his girlfriend.

During your conversation you are called by a nurse on the ward, who asks you to see a 19-year-old woman at the other end of the ward urgently. The woman was admitted the day before with a fracture dislocation of her elbow following a fall and has become very short of breath and is finding it difficult to speak. Observations carried out by the nurse show pulse 120/min, blood pressure 110/70, temperature 37.5.<sup>0</sup>

A police officer has come onto the ward and wants to ask you about the first patient's injuries. Your consultant is in clinic and your registrar in theatre.

**How do you proceed?**



## **Abstract – Example**

### **Abstract title**

Patients' expectations about effects of chemotherapy for advanced cancer.

### **Background:**

Chemotherapy for metastatic lung or colorectal cancer can prolong life by weeks or months may provide palliation, but it is not curative.

### **Methods:**

We studied 1193 patients participating in the Cancer Care Outcomes Research and Surveillance (CanCORS) study (a national, prospective, observational cohort study) who were alive 4 months after diagnosis and received chemotherapy for newly diagnosed metastatic (stage IV) lung or colorectal cancer. We sought to characterize the prevalence of the expectation that chemotherapy might be curative and to identify the clinical, sociodemographic, and health-system factors associated with this expectation. Data were obtained from a patient survey by professional interviewers in addition to a comprehensive review of medical records.

### **Results:**

Overall, 69% of patients with lung cancer and 81% of those with colorectal cancer did not report understanding that chemotherapy was not at all likely to cure their cancer. In multivariable logistic regression, the risk of reporting inaccurate beliefs about chemotherapy was higher among patients with colorectal cancer, as compared with those with lung cancer (odds ratio, 1.75; 95% confidence interval [CI], 1.29 to 2.37); among non-white and Hispanic patients, as compared with non-Hispanic white patients (odds ratio for Hispanic patients, 2.82; 95% CI, 1.51 to 5.27; odds ratio for black patients, 2.93; 95% CI,

1.80 to 4.78); and among patients who rated their communication with their physician very favourably, as compared with less favourably (odds ratio for highest third vs. lowest third, 1.90; 95% CI, 1.33 to 2.72). Educational level, functional status, and the patient's role in decision making were not associated with such inaccurate beliefs about chemotherapy.

### **Conclusions:**

Many patients receiving chemotherapy for incurable cancers may not understand that chemotherapy is unlikely to be curative, which could compromise their ability to make informed treatment decisions that are consonant with their preferences. Physicians may be able to improve patients' understanding, but this may come at the cost of patients' satisfaction with them. (Funded by the National Cancer Institute and others)

## Appendix C – Calculation of APPLICANT OVERALL RANKING SCORE

Applicants are matched to programmes based on their overall ranking score and programme preference options. The tables below provide details of the total scores available for each section of the recruitment process:

### Application form (Shortlist) score:

Items	Maximum
Further degrees	5
Educational achievements: Publications & Presentations	10
Educational Achievements: Prizes	5
<b>Total application form (Shortlist) score</b>	<b>20</b>

### Interview scores:

Panel	Maximum
Academic panel	20
Clinical panel	20
<b>Combined interview score</b>	<b>40</b>

The London Specialised Foundation Programme (SFP) score will be calculated using the following formula:

	Maximum
Total application form (Shortlist) score	20
Combined interview score	40
Total application (shortlist) & Combined interview score = London SFP score	60
<b>London SFP score (weighting x4)</b>	<b>240</b>

**Total overall ranking score: 240**

## 2-YEAR SPECIALISED FOUNDATION PROGRAMMES AT IMPERIAL COLLEGE MEDICAL SCHOOL & PARTNER TRUSTS (IMP)

### 1. INTRODUCTION

Imperial College London, Imperial College Healthcare and partners have an international reputation for translating scientific breakthroughs to clinical practice. They host a critical mass of international leaders in clinical medicine, healthcare policy, academia and technology and innovation which is unparalleled in the UK. Imperial has strengths in clinical trials, drug discovery, public health, bioinformatics, artificial intelligence (AI), bioengineering, and ‘omic’ approaches. Imperial is an NIHR Biomedical Research Centre (BRC) and was the UK's first ever Academic Health Sciences Centre (AHSC). Imperial takes pride in offering the highest quality of academic training for its SFP trainees.

The Imperial Foundation Programme is led by Dr Channa Jayasena ([c.jayasena@imperial.ac.uk](mailto:c.jayasena@imperial.ac.uk)) with the support of the Imperial Clinical Research Training Office (CATO). We offer a wide selection of academic programmes covering several major specialities and within these there are possibilities for lab based or clinical research. Imperial specialised Foundation Trainees have access to a state-of-the-art educational programme alongside Academic Clinical Fellows, Research Fellows and Clinical Lecturers. This provides the ideal environment to enable interested trainees to undertake further research training and plan a future a clinical academic career. Our academic trainees routinely succeed in publishing and presenting the work they have undertaken in their academic placement.

Successful applicants are recruited to a specific 4-month academic F2 post within a generic 2 year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing Trust.

### 2. DETAILS OF TRAINING PROGRAMMES

A spread sheet summarising all of the available programmes is available to download from <https://london.hee.nhs.uk/recruitment/medical-foundation>

Programme Reference	Programme Theme	Based at
2425/IMP/01	Academic Paediatrics	St Mary's Hospital
2425/IMP/02	Academic Paediatrics	St Mary's Hospital
2425/IMP/03	Academic Paediatrics	St Mary's Hospital
2425/IMP/04	Academic Medicine	Hammersmith Hospital
2425/IMP/05	Academic Medicine	Hammersmith Hospital
2425/IMP/06	Academic Medicine	Hammersmith Hospital
2425/IMP/07	Academic Medicine	Hammersmith Hospital
2425/IMP/08	Academic Medicine	Hammersmith Hospital
2425/IMP/09	Academic Medicine	Hammersmith Hospital

2425/IMP/10	Academic Primary Care	Charing Cross Hospital
2425/IMP/11	Academic Primary Care	Charing Cross Hospital
2425/IMP/12	Academic Primary Care	Charing Cross Hospital
2425/IMP/13	Academic: Cardiology, Respiratory & Cardiothoracics	National Heart & Lung Institute / Hammersmith Hospital / Royal Brompton
2425/IMP/14	Academic: Cardiology, Respiratory & Cardiothoracics	National Heart & Lung Institute / Hammersmith Hospital / Royal Brompton
2425/IMP/15	Academic: Cardiology, Respiratory & Cardiothoracics	National Heart & Lung Institute / Hammersmith Hospital / Royal Brompton
2425/IMP/16	Academic Obstetrics & gynaecology	Queen Charlotte's Hospital
2425/IMP/17	Academic Obstetrics & gynaecology	Queen Charlotte's Hospital
2425/IMP/18	Academic Obstetrics & gynaecology	Queen Charlotte's Hospital
2425/IMP/19	Academic Anaesthetics & Critical Care	Chelsea & Westminster Hospital
2425/IMP/20	Academic Anaesthetics & Critical Care	Chelsea & Westminster Hospital
2425/IMP/21	Academic Anaesthetics & Critical Care	Chelsea & Westminster Hospital
2425/IMP/22	Academic Vascular Surgery	Charing Cross Hospital
2425/IMP/23	Academic Vascular Surgery	Charing Cross Hospital
2425/IMP/24	Academic Vascular Surgery	Charing Cross Hospital
2425/IMP/25	Academic Surgery & Innovation	St Mary's Hospital
2425/IMP/26	Academic Surgery & Innovation	St Mary's Hospital
2425/IMP/27	Academic Surgery & Innovation	St Mary's Hospital
2425/IMP/28	Academic Clinical Trials & Translational Medicine	Hammersmith Hospital
2425/IMP/29	Academic Clinical Trials & Translational Medicine	Hammersmith Hospital
2425/IMP/30	Academic Clinical Trials & Translational Medicine	Hammersmith Hospital

Northwest Thames offers 30 jobs in the academic programme. In all cases the F1 year will be a standard F1 programme in order to ensure candidates can establish core clinical medical skills as described in the Foundation curriculum. However, doctors will have the opportunity to attend academic F1 early evening teaching sessions and will be encouraged to involve themselves in formal teaching commitments. All academic F1s are 'buddied' up with the F2 who is following the same programme as them for support and mentoring. We also arrange an evening meeting in January where academic F1s will meet their academic leads and start to plan their F2 academic placement in detail.

The F2 year will be based either at Imperial College Healthcare NHS Trust (Hammersmith, Charing Cross and St Mary's Hospitals), Northwick Park Hospital, or Chelsea and Westminster Hospital, in partnership with Imperial College London. Academic placements are grouped into the Academic Departments of Medicine, Metabolic Medicine, Surgery, Vascular Surgery, Paediatrics, Obstetrics & Gynaecology, Primary Care, and Anaesthesia. Imperial CATO offers a masterclass programme of teaching for all Clinical Academic Trainees, covering topics such as grant writing, statistics, big data, genomics, and career advice regarding ACF applications.

Common features of the SFP programmes include:

- A named academic educational supervisor/mentor for the whole year. Trainees will be encouraged to meet with their academic supervisor well in advance of commencing their F2 year. At the start of their academic placement, they will agree a personal academic development plan which would include exposure to research techniques, literature analysis, career advice on planning a career in research, grant funding etc.
- Attendance at research meetings within the academic department to which they are attached.
- At least termly whole day specialised foundation programme teach-ins covering all areas of academic medicine, research, and leadership.
- Core lecture programme (example, changes each year)
  - “My academic career” – talks from leading Clinician Scientists working at Imperial
  - Research Governance
  - Leadership workshop
  - Research Ethics
  - Translational Medicine
  - How to present scientific research
  - Guidance for a career as an academic clinician
  - Critical appraisal workshop
- Trainees will be encouraged to write a review article under the guidance of their academic mentor based on an area related to their academic attachment, aimed for publication. During this they will learn critical literature analysis techniques.
- They will hopefully generate enough data from the 4 months laboratory or clinical research to contribute to a scientific paper. Clearly 4 months is not sufficient time to finish a project, but the time and work undertaken should have contributed significantly. Trainees are encouraged to submit their work for presentation at national and international symposia.
- They will have the opportunity to present their academic work at the Imperial CATO Symposium in the July, to other SFPs, as well as more senior clinical academic trainees and academic leaders.

Individuals will be working within routine busy clinical units and are expected to develop the same formal clinical F2 competencies as F2 doctors in non-academic programmes within 8 months instead of the standard 12. They will have named clinical supervisors in each placement who will ensure they address clinical skills in

addition to the academic activity. All clinical placements have well established appraisal systems and on-going educational support.

### 3. PLACEMENTS

#### Programmes 1-3 - Academic Paediatrics - based at Hammersmith & St Mary's Hospitals

Reference: 2425/IMP/01

Reference: 2425/IMP/02

Reference: 2425/IMP/03

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school website

#### *Type of programme*

This is a research post in Paediatrics based at St Mary's Hospital.

<p><i>Employing trust:</i></p> <p>Imperial College Healthcare NHS Trust</p>	<p><i>Academic placement based at:</i></p> <p>St Mary's Hospital</p>
<p><i>Brief outline of department</i></p> <p>Academic Paediatrics at Imperial hosts diverse expertise in many specialist areas including infectious diseases, global health, allergy, emergency and intensive care, respiratory medicine, neonatology, child public health, health services research and evaluation of new models of care. This breadth of research in brought together through the Centre for Paediatrics and Child Health <a href="https://www.imperial.ac.uk/centre-for-paediatrics-child-health/">https://www.imperial.ac.uk/centre-for-paediatrics-child-health/</a></p> <p>To help trainees to find specific projects and supervisors within their specialised Foundation Programme in Paediatrics we have three main themes where we suggest trainees base their time, although we are happy to discuss alternative proposals if there is a strong rationale for working in one of our other areas. The programme is led by Prof Aubrey Cunnington (Paediatric Infectious Disease) and Dr Dougal Hargreaves (Population Health) who can link you up with colleagues as needed.</p> <p>Paediatric Infectious Disease combines basic, translational and clinical research aimed at understanding susceptibility and severity in childhood infectious diseases and improving methods of diagnosis, prevention and treatment (<a href="http://www.imperial.ac.uk/infectious-disease/research/paediatrics/">http://www.imperial.ac.uk/infectious-disease/research/paediatrics/</a>). A particular area of strength is in "Platform Science" – the application of omics technologies and bioinformatics to healthcare problems. Different groups within the Section vary in focus on host, microbes and their interactions. The Section leads major international consortia (eg. <a href="https://www.diamonds2020.eu/">https://www.diamonds2020.eu/</a>, <a href="http://www.digitaldiagnostics4africa.org">www.digitaldiagnostics4africa.org</a>) and has strong global connections in The Gambia, Ghana and South Africa. We have a proven track record of nurturing aspiring clinician scientists at every career stage from SFP and ACF through to clinical lecturers and beyond, leading to a high rate of success in obtaining independent PhD funding and research fellowships.</p>	

Paediatric Allergy, Respiratory & Sleep Medicine. ICHT hosts a busy academic Paediatric Allergy team, headed by Professor Adnan Custovic. Current programmes include primary prevention of allergic disease using dietary and non-dietary approaches, investigation of the mechanisms of anaphylaxis, immunotherapy of allergic disease, temperature-controlled laminar airflow trials, and analysis of birth cohort data to define allergic disease phenotypes and their environmental and genetic determinants. There is also an active paediatric sleep medicine research programme, focussed on the development and validation of new approaches to the diagnosis of sleep-disordered breathing. Paediatric Respiratory Medicine, based National Heart and Lung Institute, combines diverse expertise spanning basic mechanism through to clinical trials in asthma, bronchiectasis, cystic fibrosis and primary ciliary dyskinesia.

Population Health and Health Services Research for Children and Young people. Prof Sonia Saxena, Prof Mireille Toledano and Dr Dougal Hargreaves in the School of Public Health lead major local and national collaborations to study and improve the health of children and young people (for example, through the NIHR Applied Research Collaboration NW London and the NIHR School of Public Health). Our team has experience of working with a range of routinely-collected datasets to identify novel patterns and associations, and evaluate the impact of individual or service-level interventions to improve outcomes. We also have close links to the Connecting Care for Children team at St Mary's Hospital (led by Dr Bob Klaber and Dr Mando Watson) and many other local partners. In neonatology, primarily at Chelsea and Westminster campus, additional work with large datasets of routinely collected clinical data is being used to transform understanding of the determinants of outcomes for preterm infants across the life-course and to embed pragmatic clinical trials alongside routine delivery of care.

Additional areas of research interest include neonatal hypoxic ischaemic encephalopathy, intensive care interventions, emergency care triage and risk stratification, adolescent health, medical education, and paediatric surgery.

*Clinical commitments during academic placement*

There are no fixed clinical commitments and no on call duties during the Academic Paediatrics placement.

*Departmental academic teaching programme (if applicable)*

There are many opportunities here and the post-holder will be introduced to these when they start.

*Academic Lead:*

Prof Aubrey Cunningham [a.cunnington@imperial.ac.uk](mailto:a.cunnington@imperial.ac.uk) , Consultant & Professor of Paediatric Infectious Disease

Dr. Dougal Hargreaves [d.hargreaves@imperial.ac.uk](mailto:d.hargreaves@imperial.ac.uk), Consultant & Houston Reader in Paediatrics & Population Health

## Programmes 4-9 - Academic Medicine – based at Hammersmith Hospital

Reference: 2425/IMP/04

Reference: 2425/IMP/05

Reference: 2425/IMP/06

Reference: 2425/IMP/07

Reference: 2425/IMP/08

Reference: 2425/IMP/09

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This a research post where the AF2 will have the opportunity to spend four months doing cutting-edge research within a research group anywhere with the very large Department of Medicine at Imperial College.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Imperial College Healthcare NHS Trust	Hammersmith Hospital
<i>Brief outline of department</i>	
The F2 can choose to be attached to any one of a number of world-class research units within the Faculty of Medicine at Imperial College – explore the website at <a href="https://www.imperial.ac.uk/medicine/research-and-impact/">https://www.imperial.ac.uk/medicine/research-and-impact/</a> to understand the breadth and quality of opportunities available.	
The faculty comprises 7 world class Departments – Brain Sciences, Immunology & Inflammation, MRC Lab of Medical Sciences (LMS), Metabolism, Digestion & Reproduction, National Heart & Lung Institute (NHLI), School of Public Health, And Surgery & Cancer.	
The Academic F2 can be attached to groups within any of these and undertake basic laboratory research, more clinical research and projects involving a mix and including innovative imaging and computing. Depending on the AF2's interests there are also possibilities for attachments in more diverse laboratories - e.g. Department of Bioengineering. We aim to facilitate the AF2 in finding the project and department that suits them and will allow them the greatest opportunity to achieve outstanding academic outputs. Many of our previous AF2s have produced first author papers and / or presentations by the end of their programme.	
The F2 year will consist of 4 months of Acute Medicine and 4 months of Renal medicine based at Hammersmith Hospital, and 4 months of Academic Medicine at any of the Imperial sites. Dr. Rohini Sharma oversees the Academic Medicine placements but the Academic F2 will be supervised during their academic placement by the relevant academic lead for the research project undertaken.	
Dr. Rohini Sharma will help trainees find the right supervisor early on in their F1 year to facilitate planning and familiarity with the group and ensure that they get the most out of their 4-month placement by being fully prepared. Each trainee will identify an academic	



supervisor within their chosen research group who will meet with them regularly, set the academic learning objectives at the beginning of the placement and review progress at the end of the placement.

There is access to wide range of teaching and other learning opportunities within the department, and each doctor will be strongly encouraged to make the most of these to support their personal learning plan. There will also be the opportunity to develop important transferrable skills in the writing of ethics and grant applications, performing statistical analysis, and writing and revising manuscripts. Other learning opportunities, such as development of educational research skills or understanding quality improvement methodologies will be offered in accordance with the needs of the trainee and the project undertaken.

It is envisaged that doctors in this Academic Medicine placement will be successful in achieving journal publications and published abstracts, as well as presenting their work in regional and national meetings. The post will be an outstanding introduction to academic medicine, and high performance in the post will undoubtedly strengthen any potential application for CMT / ACF posts.

#### *Clinical commitments during academic placement*

There are no fixed clinical commitments and no-on call duties during the Academic Medicine placement.

#### *Departmental academic teaching programme (if applicable)*

specialised Foundation doctors will be expected to attend the weekly Department of Medicine Staff round, and any departmental seminars that they wish to attend. There will be different expectations of attendance at seminars within each research group and the academic supervisor will advise the trainees. They are also expected to attend their home Trust F2 weekly teaching session.

#### *Academic Lead:*

Dr. Rohini Sharma  
Consultant and Reader in Oncology  
[r.sharma@imperial.ac.uk](mailto:r.sharma@imperial.ac.uk)

## Programmes 10-12 - Academic Primary Care – based at St Mary’s and Charing Cross Hospitals

Reference: 2425/IMP/10

Reference: 2425/IMP/11

Reference: 2425/IMP/12

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This is a 4-month research and clinical placement in Academic Primary Care.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Imperial College Healthcare NHS Trust	Charing Cross Hospital
<i>Brief outline of department</i>	
<p>The academic placement is located in the Department of Primary Care &amp; Public Health at Charing Cross Hospital. The Primary Care and Public Health department includes a combination of GP educators (involved in both undergraduate and postgraduate medical education) and researchers in public health and primary care.</p> <p>During their time in Academic Primary Care, trainees will be based within the Undergraduate Primary Care Education Unit, which is one of the largest undergraduate GP teaching departments in the UK, delivering teaching across the six year Medicine MBBS. We are an active education, research and teaching department. This provides a solid foundation in training for both academic and general practice careers.</p> <p>We work closely with <a href="#">MEdIC</a> (Medical Education Innovation and Research Centre), a translational centre bringing cutting-edge evidence from health, education, community and policy into medical education innovations and research, that have a positive and sustainable impact on our society.</p> <p>The wider department of Primary Care and Public Health has a number of research groups who aim to achieve better health by high-quality research and publications, and to influence health policies and programmes around the world. Research groups include the Child Health Unit, Global Digital Health Unit, Health Services Research Unity, Imperial Centre for Cardiology Prevention, Public Health Policy Evaluation Unit and the West London Primary Care Research Community Network. The department also hosts the WHO Centre for Public Health Education &amp; Training which gives opportunities for working on international public health topics. There is also an opportunity to work in other departments and units of the Imperial College School of Public Health, such as the Department of Epidemiology &amp; Biostatistics and the Clinical Trials Unit. See <a href="https://www.imperial.ac.uk/school-public-health/primary-care-and-public-health/">https://www.imperial.ac.uk/school-public-health/primary-care-and-public-health/</a> for further information.</p>	

*Structure of academic project/what expected*

The year will include four months of A&E at St Mary's Hospital, four months in either O&G at St Mary's or Gastroenterology at Charing Cross, and four months in Academic Primary Care.

The week is split between 2 days in a local general practice, and 3 days based in the department.

The trainee will receive training in teaching skills and pedagogical underpinnings via attendance at the Imperial TACTIC (Training Course for Teachers at Imperial College) course and will have the opportunity to be involved in the development, delivery and evaluation of the primary care curriculum and assessment within the undergraduate curriculum.

The trainee will have the opportunity to participate in medical education scholarly activities that promote critical thinking, reflection and a deeper understanding of the process of medical education. Examples of such activities may include contributing to research, articles or presentations and receiving feedback on their work, participating in the departmental Educational Communities of Practice (eCOPs), integrating educational theories into practice through research-informed curriculum development, teaching and assessment) and participating in MEdIC's dedicated educational research seminars enabling skill development in research methodology.

Within the wider department of Primary Care and Public Health there is the opportunity to get involved in primary care research activity within one of the well-established research groups. This research typically involves a systematic literature review, data gathering or analysis of a data set. There are regular departmental research seminars where there is the opportunity to present and receive feedback on work. There may also be opportunities to publish this work with the research team.

The academic lead for the programme is Dr Nina Dutta and Dr Sian Powell who are supported in this role by other academics in the department.

Please see [this website](#) for more details of the programme.

*Clinical commitments during academic placement*

There is a clinical commitment of 2 days a week in an accredited GP teaching practice. The details of the weekly timetable are negotiated between the academic department and GP surgery, although Wednesdays are compulsory for in-person attendance at the academic department due to the number of academic activities and meetings that take place.

*Departmental academic teaching programme (if applicable)*

Weekly departmental meetings and seminars as well as weekly Trust F2 teaching.

*Academic Lead:*

Dr Sian Powell  
Primary Care Faculty Development Lead (Maternity Cover)  
sian.powell@imperial.ac.uk

**Programmes 13-15 - Academic: Cardiology, Respiratory & Cardiothoracics – based at National Heart & Lung Institute (NHLI)**

Reference: 2425/IMP/13

Reference: 2425/IMP/14

Reference: 2425/IMP/15

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This is a 4-month research post based at one of the NHLI campuses across NW London.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Imperial College Healthcare NHS Trust	NHLI (7 sites across NW London): Royal Brompton, St Mary’s, Charing Cross and Hammersmith Hospitals and South Kensington campus
<i>Brief outline of department:</i>	
<p>The National Heart and Lung Institute hosts diverse and world-leading expertise (with &gt;130 Principal Investigators) in many specialist areas of cardiology, vascular and respiratory medicine across the lifecourse (<a href="https://www.imperial.ac.uk/nhli">https://www.imperial.ac.uk/nhli</a>). It provides an ideal environment in which academic trainees can flourish (<a href="https://www.imperial.ac.uk/nhli/about-us/strategic-plan-2024/">https://www.imperial.ac.uk/nhli/about-us/strategic-plan-2024/</a>).</p> <p>Trainees will spend their four-month academic block on a placement in a research group in Respiratory, Cardiology or Cardiothoracic Surgery. They will be supported by senior academics in exploring the spectrum of opportunities available at NHLI – which include both wet and dry lab work - and be able to choose the speciality and research project which most appeals to them. A small number of exemplar PIs are described below; there are many more and trainees will be encouraged to explore all that NHLI has to offer.</p> <p>Professors Miriam Moffatt and Bill Cookson lead the Asmarley Centre for Genomic Medicine where state of the art genomic technology and expertise is used to study lung diseases including large-scale studies of asthma, atopic dermatitis, psoriasis, lung and pleural cancer, and sequence-based studies of the lung microbiome.</p> <p>Professor Sejal Saglani runs a translational research programme focussed on investigating the mechanisms underpinning the onset of severe preschool wheeze, factors predicting progression to school-age asthma and identification of novel therapies for preschool wheeze and childhood severe asthma.</p> <p>Dr Mo Shamji leads a research group in Immunomodulation and Tolerance and conducts research into respiratory allergies. His particular focus is on the role of</p>	

disease-modifying treatments (such as allergen immunotherapy and novel biologics and immunomodulators), how they affect immunologic responses, and induction of immune tolerance.

Professor Ajit Lalvani is Director of the NIHR Health Protection Research Unit in Respiratory Infections. He carries out translational research into severe respiratory infections: TB, pandemic influenza and COVID-19. This has including development of the IGRA diagnostic test for TB and insights into the action of TB, malaria and flu vaccines.

Dr Matthew Shun-Shin and Dr Graham Cole's group lead the UK UNITY collaborative that are working to develop artificial intelligence methods for echocardiography. Trainees joining this group will gain software programming skills and experience in machine learning and clinical cardiac imaging.

Dr Ranil De Silva has a research focus on interdisciplinary and translational research in atherosclerosis and coronary artery disease using invasive and non-invasive imaging to enhance the knowledge of disease mechanisms, development of new diagnostics, patient risk stratification and evaluation of novel therapies across the spectrum of coronary artery disease.

Dr Rasha Al-Lamee and Professor Darrel Francis lead the coronary artery physiology research theme, which studies all aspects of ischaemic heart disease (from acute to chronic, and from intracoronary pressures and flows to indices of ischaemia) and ultimately matches findings to patients' symptoms. They lead the ORBITA-2 multicentre RCT of coronary stenting for angina including studies of patient-facing symptom tracking methodologies and blinded physiological testing before and after intervention.

Dr Zach Whinnett, Professor Prapa Kanagaratnam and Professor Nick Peters lead the electrophysiology and devices clinical research, including running the HOPE-HF, C19-ACS, and other multi-centre randomised controlled trials. Their work studies new approaches using electrical stimuli to improve heart function outcomes (both short-term and longer-term) and the origin and mechanism of atrial fibrillation.

Prof Sian Harding and Prof Prakash Punjabi lead research into myocardial regeneration as a therapeutic and research tool. Clinically related initiatives include pharmacological release of bone marrow stem cell subsets and increased homing to the heart from external shockwave stimulation. In development are the use of large, engineered heart tissue constructs from human pluripotent stem cell derived cardiomyocytes, as well as exosome delivery of regenerative factors.

Brief outline of department:

Trainees will spend their four-month academic block in the AF2 year within a research department at one of the NHLI sites. Trainees will be under the overall supervision of Dr Johanna Feary (Academic Clinical Lead for SFP; Genomic and Environmental Medicine section) and Prof Darrel Francis (Cardiology; section head

of Cardiovascular Trials and Epidemiology), Prof Seb Johnston (Respiratory; section head of Airways Disease and Director of the Asthma UK Centre in Allergic Mechanisms of Asthma) or Prof Prakash Punjabi (Cardiothoracic Surgery; Cardiac Function section), depending on the trainee's preference of research area. Supervision will be in the form of weekly meetings with day-to-day support from the wider team.

During the placement, there will also be the opportunity to develop invaluable and transferable research skills such as writing conference abstracts and ethics and grant applications, contributing to manuscripts, and performing statistical analyses.

It is envisaged that doctors in this Academic NHLI placement will be successful in achieving journal publications and published abstracts, as well as presenting their work in regional and national meetings. NHLI has a proven track record of nurturing aspiring clinical scientists, and the post will be an outstanding introduction to academia in cardiorespiratory medicine/surgery. High performance in the post will undoubtedly strengthen any application for further clinical training posts and research fellowships.

*Clinical commitments during academic placement*

There are no clinical commitments and no on call duties during this placement.

*Departmental academic teaching programme (if applicable)*

There are many learning opportunities; these will be discussed at the start of the post.

*Academic Lead:*

Dr Johanna Feary  
Senior Clinical Fellow (NHLI)  
Consultant Respiratory Physician (Royal Brompton Hospital)  
[j.feary@imperial.ac.uk](mailto:j.feary@imperial.ac.uk)

**Programme 16-18 – Academic Obstetrics & Gynaecology – based at Queen Charlotte’s Hospital**

Reference: 2425/IMP/16

Reference: 2425/IMP/17

Reference: 2425/IMP/18

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This is a 4 month research placement in Obstetrics & Gynaecology	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
The North West London Hospitals NHS Trust	Queen Charlotte’s Hospital
<i>Brief outline of department</i>	
<p>Academic Clinical Obstetrics and Gynaecology at Imperial is closely linked to Imperial Academic Health Sciences Centre and NIHR Biomedical Research Centre, and the Institute of Reproductive &amp; Developmental Biology (IRDB), one of the largest stand-alone research facilities in O&amp;G in Europe.</p> <p>There is academic expertise in a range of clinical areas linked to Obstetrics and Gynaecology.</p> <p>Gynaecological oncology (Prof. Mara Kyrgiou and Prof. Sadaf Maghami)              Effect of treatment of cancer on reproductive performance (Prof. Mara Kyrgiou)              Miscarriage and early pregnancy (Prof. Tom Bourne, Prof. Lesley Regan, Prof Phillip Bennett, Dr Viki Male).              Ovarian Function and Polycystic Ovary Syndrome (Prof Stephen Franks)              Cardiovascular adaptation, placentation, fetal growth and pre-eclampsia (Prof. Christoph Lees, Dr Beth Holder)              Women’s Health in Policy and Practice (Dr Edward Mullins)              Prematurity and Parturition (Prof. Phillip Bennett, Dr Vasso Terzidou, Dr Lynne Sykes, Prof. David Macintyre)</p> <p>In addition, there are more basic science-oriented programs including:</p> <p>Reproductive and neonatal immunology (Dr Viki Male, Dr Beth Holder, Dr Lynne Sykes)              Placental Biology and maternal-fetal communication (Dr Beth Holder)              Stem Cell Biology and early mammalian development (Dr Veronique Azura, Dr Wei Cui)              G-protein coupled receptor biology in women’s health and nutrition (Prof. Aylin Hanyaloglu)</p>	

Systems Medicine, Microbiome and Metabolome (Prof. David MacIntyre, Prof. Phillip Bennett)

Recent major new initiatives include the role of the microbiome in reproductive health, and integration of large-scale biological data such as transcriptomics, genomics, metabonomics and miromics with clinical at metadata. We became both a Global Alliance Against Stillbirth and Prematurity (GAPPS) Research Centre, a 'Tommys' National Miscarriage Research Centre and the first European March of Dimes Prematurity Research Centre.

Recent O&G research success include criteria for miscarriage diagnosis, improved surveillance for IUGR, a paradigm shift in understanding miscarriage, miRNA markers to predict preterm birth, a link between vaginal microbiome, preterm birth and cervical cerclage, all leading to international changes to practice.

*Structure of academic project/what expected.*

The AF2 year will contain a 4-month research block in Academic Obstetrics and Gynaecology based at Queen Charlottes Hospital and the Institute of Reproductive & Developmental Biology, Hammersmith Campus, Imperial College Healthcare NHS Trust. Prof. Aylin Hanyaloglu oversees the Academic placements but the Academic F2 will be supervised during their academic placement by the relevant academic lead for the research project undertaken.

Prof. Aylin Hanyaloglu will help trainees find the right supervisor early on in their F1 year to facilitate planning and familiarity with the group and ensure that they get the most out of their 4-month placement by being fully prepared. Each trainee will have an academic supervisor within their chosen research group who will meet with them regularly, set the academic learning objectives at the beginning of the placement and review progress at the end of the placement. The AF2 will have the opportunity to be part of a highly dynamic and supportive team of doctors, scientists and other health professionals working together in academic, service improvement and educational aspects of Obstetrics and Gynaecology.

The Academic F2 may select a project from any of the areas of research activity listed above. Depending upon the nature of the project there will be close 'clinic-side' or 'bench-side' supervision from an appropriate clinical research fellow or scientist together with weekly meetings with the Principal Investigator. If desired, the Academic F2 can be allocated to an Academic Clinical Lecturer, Fellow, or Specialist Registrar mentor during their academic placement.

There is access to a wide range of teaching and other learning opportunities within the department. There will also be the opportunity to develop important transferrable skills in the writing of ethics and grant applications, performing statistical analysis, and writing and revising manuscripts. Doctors in this academic placement should be successful in achieving journal publications and published abstracts, and present work in regional and national meetings. The post will be an outstanding introduction and steppingstone into academic Obstetrics and Gynaecology,



<i>Clinical commitments during academic placement</i>
There are no fixed clinical commitments and no on call duties during the placement.
<i>Departmental academic teaching programme (if applicable)</i>
The department has a comprehensive program of teaching and seminars which the post holder will be encouraged to take part in.
<i>Academic Lead:</i>
Antcliffe, David B d.antcliffe@imperial.ac.uk

**Programmes 19-21 - Academic Critical Care and Anaesthetics – based at Charing Cross/St Mary’s/Hammersmith or Chelsea and Westminster Hospitals**

Reference: 2425/IMP/19

Reference: 2425/IMP/20

Reference: 2425/IMP/21

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This is a 4-month research placement in Academic Critical Care and Anaesthetics.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Chelsea and Westminster Hospital NHS Foundation Trust	Charing Cross, St Mary’s, Hammersmith or Chelsea and Westminster Hospital
<i>Brief outline of department</i>	
<p>The Division of Anesthesia, Pain Medicine and Intensive Care is an academic division sitting within the Faculty of Medicine of Imperial College London. Academic activities occur at both Imperial College Healthcare NHS Trust and Chelsea and Westminster Hospital NHS Foundation Trust. Across the two Trusts there is a wide spectrum of Critical care and Anesthetic activity, for example trauma, burns, neuro-critical care, and cardiac and obstetric anesthesia. As such a wide range of projects are offered.</p> <p>The Division is led by Professor Masao Takata and is the home to many well-respected academics from the fields of Critical Care, Anesthesia and Pain. The research activities of the Division cover a variety of subjects from biological profiling of critically ill patients using cutting edge techniques such a metabolic or transcriptomic profiling to machine learning in healthcare and improving the understanding of inflammation.</p>	

Website: <https://www.imperial.ac.uk/department-surgery-cancer/research/apmic/>

*Structure of academic project/what expected*

The AF2 year will include four months of Emergency Medicine at Chelsea & Westminster Hospital, four months in Intensive Care at the Royal Marsden Hospital and four months of academic activity at one of the associated hospitals, depending on the project. The academic placement can cover projects in anaesthesia, critical care, outreach, post-operative recovery, and pain relief research, based on the AF2's skills and preferences. The posts are well suited for those wishing to gain a basic grounding in peri-operative medical research and have been highly valued by previous AF2s. Work done by previous AF2s on this program has been presented internationally and published.

Education is a key objective for the academic department with medical student (including BSc) and postgraduate training. The AF2 would be expected to contribute to education in all areas of anaesthesia and pain management.

*Clinical commitments during academic placement*

There is no fixed clinical commitment during the academic placement. However, there is the opportunity to develop clinical skills if desired.

*Departmental academic teaching programme (if applicable)*

There are weekly academic meetings as well as weekly Trust F2 teaching. The AF2 would also be welcome to attend clinical departmental teaching whilst on the academic placement.

*Academic Lead:*

Dr. David Antcliffe  
Clinical Senior Lecturer in Critical Care Medicine  
[d.antcliffe@imperial.ac.uk](mailto:d.antcliffe@imperial.ac.uk)

## Programme 22-24 - Academic Vascular Surgery – based at Charing Cross Hospital

Reference: 2425/IMP/22

Reference: 2425/IMP/23

Reference: 2425/IMP/24

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This is a research post in Vascular Surgery at Charing Cross Hospital.	
<i>Employing trust:</i> Imperial College Healthcare NHS Trust	<i>Academic placement based at:</i> Charing Cross Hospital
<i>Brief outline of department</i>	
<p>The research methods employed within the group include clinical projects, including clinical trials, molecular and cellular biology, material science, ultrasound and contrast enhanced ultrasound imaging, health economics, biostatistics, systematic reviews, metabonomics and fluid dynamics.</p> <p>For more information, please visit the Academic Section of Vascular Surgery website: <a href="http://www.imperial.ac.uk/AP/faces/pages/read/Home.jsp?person=a.h.davies&amp;_adf.ctrl-state=usx90ksw9_3&amp;_afRedirect=2815034464756649">http://www.imperial.ac.uk/AP/faces/pages/read/Home.jsp?person=a.h.davies&amp;_adf.ctrl-state=usx90ksw9_3&amp;_afRedirect=2815034464756649</a></p>	
<i>Structure of academic project/what expected</i>	
<p>The AF2 year will be based at Charing Cross hospital and will consist of four months of Vascular Surgery and four months of A&amp;E at St Mary's, and four months Academic Vascular Surgery at Charing Cross. The Academic Surgery placement will be based in the Academic Section of Vascular Surgery at Charing Cross under the supervision of Professor Alun Davies.</p> <p>During the four months the AF2 will have the opportunity to be part of a dynamic and productive research team investigating carotid atherosclerosis, chronic venous insufficiency, and varicose veins. The combination of clinical pathology and research techniques will be tailored to accommodate the interests of the AF2 as far as possible, selecting from a number of research projects which are running in parallel.</p> <p>Supervision from Professor Davies will take the form of weekly meetings, with day-to-day support coming from a team of clinical research fellows, one of whom will be the lead research fellow on the assigned project.</p> <p>There is access to a number of surgical clinics for the undertaking of clinical research projects and for postgraduate exam preparation as required. There is the opportunity</p>	

to develop important transferrable skills in the writing of ethics and grant applications, performing statistical analysis, and writing and revising manuscripts.

The previous Academic F2s who have completed this placement have been successful in achieving first name author publications, including journal publications, book chapters, letters, and published abstracts, as well as presenting their work in national meetings and winning local and national prizes. Furthermore, they have been supported in applying for core training and academic training jobs and have been successful in securing posts in their chosen specialties.

*Clinical commitments during academic placement*

There are no fixed clinical commitments and no on call duties during the Academic Surgery placement.

*Departmental academic teaching programme (if applicable)*

In addition to the Foundation Programme teaching, there are weekly research meetings. Courses will be offered in accordance with the needs of the trainee and the project undertaken. Many of the clinical research fellows teach relevant skills such as statistical analysis, critical appraisal and how to prepare a manuscript at a regional level.

*Academic Lead:*

Prof Alun H Davies  
Professor of Vascular Surgery  
[a.h.davies@imperial.ac.uk](mailto:a.h.davies@imperial.ac.uk)

## Programmes 25-27 - Academic Surgery & Innovation – based at St Mary’s Hospital

Reference: 2425/IMP/25

Reference: 2425/IMP/26

Reference: 2425/IMP/27

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school website.

### *Type of programme*

This is an Academic surgical research programme based at St Mary’s Hospital.

### *Employing trust:*

Imperial College Healthcare NHS Trust

### *Academic placement based at:*

St Mary’s Hospital

### **Department Overview**

The Department of Surgery is an internationally leading centre which is highly multi-disciplinary and includes multiple internationally renowned academic and clinical foci including surgical technology development, discovery biochemistry, cancer biology and medicine, reproductive medicine, critical care and pain management.

Their goals are to harmonise and develop existing research themes across the Department, and also to capitalise on world leading molecular phenotyping and metabolic profiling research capabilities to create a new healthcare paradigm based on a molecules-to-medicine approach. In particular, we will channel exciting new technology developments into clinical practice with particular emphasis on development of personalised healthcare and patient and patient stratification strategies across all our clinical delivery programmes.

### **Overview of Cross-Cutting Research Themes and Research Facilities**

Cross cutting research themes of the Division of Surgery include:

- Surgical Technology
- Robotics
- Clinical Trials
- Cancer Prevention and Early Diagnosis
- Surgical Education
- Metabonomics
- Clinical Safety and Quality
- Health Policy
- Design for Healthcare

The research facilities and infrastructure available are world-class, in terms of space, technology and teaching faculty. The department has strong collaborative links with many centres that have a successful track record in accommodating ambitious blue-sky research projects with proven track-record of successful supervision of ACFs/ACLs. Fellows and lecturers participate in

research that intersects many disciplines and departments at Imperial supported by world leading researchers, laboratories, centres, and environments, including:

**Imperial Phenome Centre (NPC) (Takats)** - delivers access to world-class capabilities in metabolic phenotyping, with a range of services from profiling, untargeted assays to targeted assays.

**Hamlyn Centre for Robotic Surgery (Rodriguez Y Baena, Darzi)** – is at the forefront of imaging, sensing and robotics research and hosts the EPSRC Micro-Engineering Facility for Medical Robotics and UK Robotics and Autonomous Systems Network.

**HELIX Design and Innovation Studio (Darzi)** – collaboration between ICL and the Royal College of Art ([www.helixcentre.com](http://www.helixcentre.com)), which brings together clinicians, designers, and behavioural scientists to harmonise digital health and design to support patients and clinicians e.g. “Hark” - an innovative clinical task management platform (acquired by Google DeepMind, 2016).

**EPSRC Centre for Mathematics in Healthcare (Darzi, Barahona)** - brings together mathematicians with researchers in computing, engineering, and medicine to capitalise on healthcare data and turn it into useful information for clinical decision-making.

**NIHR-London In Vitro Diagnostic Co-operative (Hanna)** – a collaboration between clinicians, scientists, and industry for evidence generation on diagnostics including laboratory validation and clinical studies, human factors, cost-effectiveness, and mitigating barriers to adoption in clinical practice.

**ICTU-Surgery (Hanna, jointly with the ICTU hub)** – provides opportunities for training and grant applications in clinical trials and surgical quality assurance methods in different disciplines of surgery, minimal access interventions and cancer.

## Description of the Research Component and Themes

### Overview of Research Opportunities

Academic training will be based on a structured individualised post-graduate training programme. The research opportunities will include as follows:

- **Robotics and Biosensing** – body sensor networks, low power/ power scavenging, biocompatible and implantable sensors, micro-robotic design and fabrication, clinical trial (e.g. Micro-IGES, Cyclops), computer navigation systems and image-guided intervention(s).
- **Health Policy and Safety** - development, uptake and diffusion of innovative, evidence-based health policy in the UK and around the world; behavioural insights; health economics; patient safety; mHealth; design.
- **Metabonomics and systems biology** - lipidomics, metabolic pathway analysis, volatile organic compound analysis using mass spectrometry techniques such as GC-MS, PTR-TOF-MS, SIFT-MS, and ambient ionisation techniques include REIMS and DESI, MALDI and SINS, tandem mass spectrometry, NMR spectroscopy, big data analysis, bioinformatics, and statistical modelling.
- **Microbiome research** – 16S rRNA and shotgun metagenomic sequencing, culture, organoid, and synthetic gut models (robo gut and gut on a chip). Animal model validation.

- **Technical Skills Assessment** - the use of novel technologies including simulation in medical education, technical skills training, team performance assessment(s) including theatre and emergency medical teams, objective assessment strategies and the translation of educational research into educational practice within diverse healthcare environments.
- **Clinical Trials** – the Division of Surgery has a bespoke unit for surgical trials and established arrangement with ICTU to support fellowships in clinical trials and clinical scientists applications. ICTU provides methodology and statistical expertise for clinical trials. Surgical quality of international high profile RCTs such as NeoAGIS, COLOR III, ADDICT.

*Structure of academic project/what expected*

This AF2 year is based at St Mary's hospital and consists of four months General Surgery, four months A&E, and four months in Academic Surgery which will be based in the Division of Surgery at St Mary's Hospital. The post holder will be responsible to the Head of Division of Surgery, Professor George Hanna, Professor Lord Ara Darzi and Daniel Leff, Reader in Breast Surgery.

The purpose of this post is to provide a protected period of time and support to achieve competencies in different fields of academia as outlined in the Specialised Foundation portfolio. The post is particularly focused on enabling Academic F2 doctors to gain experience in research and build a research profile from which they can apply for ACF posts and apply for research fellowships towards a higher degree.

They will be assisted to develop their teaching and managerial/leadership skills and to contribute to undergraduate teaching. The F2 will have access to clinical and non-clinical academics who can guide them in the development of their academic and research programmes.

F2s will be introduced to the research themes of the department and potential projects from the Division of Surgery that would be suitable for the period of research. They will be free to choose the supervisor and project that most appeals to them provided it is likely to enable the trainee to meet the aims of this programme.

*Clinical commitments during academic placement*

During the academic surgical placement, the F2 will participate in a low intensity on-call rota at SHO level, but will be free of routine elective clinical work.

*Departmental academic teaching programme (if applicable)*

There is weekly departmental teaching as well as weekly Trust F2 teaching.

*Academic Lead:*

Dr. Stefan Antonowicz  
s.antonowicz@imperial.ac.uk

**Programmes 28-29 - Academic Clinical Trials & Translational Medicine – based at Hammersmith Hospital**

Reference: 2425/IMP/28

Reference: 2425/IMP/29

Reference: 2425/IMP/30

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school website.

<i>Type of programme</i>	
This is an Academic research programme based at the NIHR Imperial Clinical Research Facility (NIHR ICRF) at Hammersmith Hospital.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Imperial College Healthcare NHS Trust	Hammersmith Hospital
<i>Brief outline of department</i>	
<p>The COVID pandemic highlighted the importance of having dedicated Clinical Research Facilities to conduct high quality research that cannot be done elsewhere in the NHS.</p> <p>The NIHR Imperial Clinical Research Facility (ICRF) at Hammersmith Hospital is one of 28 NIHR funded Clinical Research Facilities in the UK. It is a state-of-the-art environment that enables medical staff and scientists to work together to investigate disease, and trial the latest scientific ideas for improving diagnosis and treatment. Its aim is to capitalise on the ground-breaking science conducted daily by Imperial College biologists, chemists, engineers, mathematicians, and medical staff as well as external partners, including the pharmaceutical industry and start-up companies. As a result it has a track record of hosting cutting edge studies investigating new vaccines, gene therapies, small molecule drugs, diets, and devices in a wide range of diseases that include cancer, cardiovascular, metabolic medicine, infectious disease and neuroscience. ICRF research is published in high impact scientific journals and has appeared in a wide range of popular science and news programmes. Equally important, the ICRF provides an environment for the next generation of academic healthcare professionals to learn how to bring new science into the clinic.</p> <p>4 months at the ICRF is an excellent opportunity for clinicians aspiring to a research career in any speciality to gain experience of clinical research in a leading research organisation.</p>	
<i>Structure of academic project/what expected.</i>	
<p>This post differs from other AF2 placements in day structure.</p> <p>50% of each day will be spent conducting trial study visits for a small number of clinical trials (typically 2-4 studies of any specialty) which are running and need support at the time of your placement. This will provide you hands-on training in conducting high-quality clinical research e.g. research consent, governance, monitoring, study documentation, determining eligibility, and assessing adverse events.</p> <p>The remaining 50% of each day will be spent focus on working with <u>one</u> of the research teams running the trials you are supporting. This may involve working with a PhD fellow to analyse data, and gain experience in academic writing and publishing. We will work with you to choose the most suitable trial to focus on.</p>	



This placement is ideal for candidates who want get experience running and providing an important contribution to big, ambitious clinical trials. It is not suitable for those who want to lead a project during their placement, because a standard clinical experiment is carried out over 2-3 years (from conception to write up) which is not commensurate with a 4-month placement.

*Clinical commitments during academic placement*

There are no NHS duties.

*Departmental academic teaching programme (if applicable)*

The AF2 will benefit from access to Clinical Research teaching seminars, as well as Trust F2 teaching.

*Academic Lead:*

Dr David Owen

Clinical Pharmacologist

[d.owen@imperial.ac.uk](mailto:d.owen@imperial.ac.uk)

#### 4. THE MEDICAL SCHOOL AND PARTNER TRUSTS

##### ***Imperial College London***

Imperial College London is one of the world's leading universities. The quality of the college's research has been judged consistently to be of the highest international standard and the proportion of income from research grants and contracts is one of the highest of any UK university. The concentration and strength of research in science, engineering and medicine gives the college a unique and internationally distinctive research presence.

The college operates on a number of central London campuses: The South Kensington campus along with Charing Cross, Chelsea & Westminster, the Hammersmith, the Royal Brompton, St Mary's, Northwick Park and Central Middlesex hospitals.

##### ***Academic Health Science Centre***

Imperial College Healthcare NHS Trust was created on 1 October 2007, by merging Hammersmith Hospitals NHS Trust and St Mary's NHS Trust. The Trust is the largest NHS Trust in the country, providing general and specialist care for patients nationwide as well as serving a large local community in west London. The new Trust and Imperial College London formed a unique partnership and together they became the UK's first Academic Health Science Centre (AHSC). On 9 March 2009, they received official recognition as an AHSC from the UK government.

The AHSC is a new approach to healthcare in the UK, bringing a university and the NHS together and running them hand in hand to provide the best healthcare in the world, free at the point of delivery. It represents a concentration of doctors, nurses,

scientists and managers all dedicated to providing the best quality healthcare and finding new ways to treat diseases and conditions that affect your health.

The vision for Imperial's academic health science centre is that the quality of life of patients and local populations will be vastly improved by taking the discoveries that are made and translating them into medical advances - new therapies and techniques - and by promoting their application in the NHS and around the world, in as fast a timeframe as is possible.

The AHSC mission is to become one of the top five AHSCs in the world within the next ten years, channelling excellence in research to provide world-class healthcare for patients. Achieving this challenging mission will significantly improve the quality of healthcare for the local community, London and the UK as a whole, and enhance the UK's position as a global leader in biomedical research and healthcare.

### ***Royal Brompton Hospital***

Royal Brompton & Harefield NHS Foundation Trust is the largest specialist heart and lung centre in the United Kingdom. Clinical teams at Royal Brompton and Harefield hospitals care for patients with a wide range of complex cardiac conditions, including congenital (present at birth), inherited and acquired. Their hospitals are world leaders in the diagnosis, management and treatment of lung disease. Children's services provide care from before a child is born, throughout childhood and into adolescence, before managing a smooth transition to our adult teams.

### ***Chelsea & Westminster Hospital***

Chelsea and Westminster Hospital NHS Foundation Trust is an undergraduate teaching hospital that is part of Imperial College School of Medicine and provides a wide range of specialist hospital services within an environment of academic specialization as well as general local services for people living locally. The hospital is a modern purpose designed and built facility which opened in May 1993. Most services are based at the Chelsea and Westminster Hospital site but the Trust also runs a highly successful network of HIV and sexual health centres. There are five Clinical Directorates: Anaesthetics & Imaging, Medicine, Surgery, Women & Children, and HIV & Sexual Health.

The hospital has developed increasing academic strength and taken on significant new research and development commitments. For example they were successful in securing more than £1 million in funding for the Eagle Simulator, a virtual operating theatre located at Chelsea and Westminster for training in anaesthesia and critical care. The Simulation Centre forms part of a Good Clinical Practice Centre, which incorporates a Clinical Skills Laboratory, Manual Handling training and Resuscitation training. The Centre is at the forefront of multi-disciplinary education and training.

## 2-YEAR SPECIALISED FOUNDATION PROGRAMMES AT KING'S COLLEGE LONDON SCHOOL OF MEDICINE (KCL)

### 1. INTRODUCTION

There are 19 places comprising different specialty-based academic programmes.

Successful applicants are recruited to a specific 4-month research placement in their F2 post. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing Trust.

### 2. DETAILS OF TRAINING PROGRAMMES

A spread sheet summarising all of the available programmes is available to download from <https://london.hee.nhs.uk/recruitment/medical-foundation>

Programme Reference	Programme Theme	Based at
2425/KCL/01	Paediatrics	King's College Hospital
2425/KCL/02	Diabetes	King's College Hospital
2425/KCL/03	Hepatology	King's College Hospital
2425/KCL/04	Cardiovascular	King's College Hospital
2425/KCL/05	Haematology	King's College Hospital
2425/KCL/06	Clinical Neuroscience	King's College Hospital
2425/KCL/07	Imaging	Guy's & St Thomas' Hospitals
2425/KCL/08	Rheumatology	Guy's & St Thomas' Hospitals
2425/KCL/09	Obstetrics	Guy's & St Thomas' Hospitals
2425/KCL/10	Allergy & Respiratory Medicine	Guy's & St Thomas' Hospitals
2425/KCL/11	Clinical Genetics	Guy's & St Thomas' Hospitals
2425/KCL/12	Medical Education	Guy's & St Thomas' Hospitals
2425/KCL/13	Infectious Diseases	Guy's & St Thomas' Hospitals
2425/KCL/14	Oncology	Guy's & St Thomas' Hospitals
2425/KCL/15	Surgery	Guy's & St Thomas' Hospitals
2425/KCL/16	Cardiovascular Medicine	Guy's & St Thomas' Hospitals
2425/KCL/17	Nephrology	Guy's & St Thomas' Hospitals
2425/KCL/18	Psychological Medicine and Psychiatry	King's College Hospital/ Guy's & St Thomas' Hospital/SLaM
2425/KCL/19	Neurology	King's College Hospital

### KING'S COLLEGE LONDON (KCL)

Each of the 19 speciality-based schemes offers core clinical and generic academic training. The programmes are based at Guy's and St Thomas' NHS Foundation Trust (GSTT) or King's College Hospital NHS Foundation Trust (KCH) and KCL for two years. The F2 year comprises a 4-month clinical placement with a leading firm,

a 4-month high-quality dedicated academic placement during which they complete a research project, and a 4-month attachment in A&E or an Acute Medicine Admissions Unit (high intensity training in acute medicine) to enable the acquisition of core competencies.

A combined induction is held for F1 and F2 trainees at the start of the academic year and a range of opportunities are presented, including funding, teaching and mentoring. Trainees will meet with their academic supervisors in their F1 year to begin preparations for their F2 project.

During the two-year specialised Foundation Programme, all trainees attend mandatory academic monthly training which consists of a 90-minute research training session (topics listed below), followed by a keynote lecture by a senior King's Health Partners clinical academic.

- Concepts of epidemiological study design
- Research Ethics
- Bibliographic software – Introduction to RefWorks
- Research using electronic health records
- Developing and evaluating behaviour change interventions
- Sample size calculation
- GCP training
- Principles of stratified medicine
- How to get a grant/how to get published/writing a research proposal
- Involving patients in research: Why? And how?
- Designing non-randomised studies
- Academic careers
- Introduction to health economics
- Meta-analysis
- Research Governance/Clinical Trials
- Applications of genetics
- Analysis of randomized trials
- Evaluating diagnostic tests
- Analysis of non-randomised trials
- Assessing study quality

At the end of the F2 year, trainees present their research to their peers and judges and prizes are awarded for the best presentations.

Page Break

### 3. PLACEMENTS

#### Programme 1 – Paediatrics – based at King’s College Hospital

Reference: 2425/KCL/01

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites

<i>Type of programme</i>	
The research placement will be based within the Lung Biology research group (Paediatrics) in the School of Life Course Sciences, Faculty of Life Sciences and Medicine.	
<i>Employing trust:</i> King's College Hospital NHS Foundation Trust	<i>Academic placement based at:</i> King's College Hospital
<i>Brief outline of department</i>	
The Lung Biology research group is led by <b>Professor Anne Greenough</b> . The research programmes are internationally competitive and in 2005, the MRC and Asthma UK established an MRC-Asthma UK Centre in Allergic Mechanisms of Asthma in partnership with, Imperial College and associated NHS Trusts. Professor Greenough collaborates with colleagues in the Centre, as well as with those from paediatric surgery, paediatric haematology, fetal medicine, obstetrics, and virology. International collaborations include being part of European networks investigating the impact of respiratory syncytial virus, congenital diaphragmatic hernia, and inhaled nitric oxide.	
<i>Structure of academic project/what expected</i>	
The research interests of the Lung Biology group include factors affecting antenatal lung growth, optimisation of neonatal and paediatric mechanical ventilation, prevention of chronic respiratory morbidity and the impact of viral and chronic paediatric disorders on lung function, in particular preventing and treating the adverse respiratory consequences of sickle cell disease. The trainee will undertake a well-defined research project within the research programme according to their interests usually leading to a peer reviewed publication. It is anticipated they will write a review with AG and contribute as a co-author to a research study of one of the other members of the research group.	
<i>Clinical commitments during academic placement</i>	
During the clinical placement, the trainee will develop core competencies within the context of the healthcare management of newborn infants and their families, assist in teaching of undergraduate students and be involved in the research interests of the group. There are no clinical commitments during the four months of the academic programme.	
<i>Departmental academic teaching programme (if applicable)</i>	
Weekly journal club, grand round, and research meeting.	
<i>Academic Lead:</i> Professor Anne Greenough	

## Programme 2 – Diabetes – based at King’s College Hospital

Reference: 2425/KCL/02

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites.

<p><i>Type of programme</i></p> <p>The Diabetes Research programme at Denmark Hill offers opportunities for research ranging from laboratory science in islet physiology, through experimental medicine studies in human metabolism to qualitative research into patient experience and education. We have a particular interest in hypoglycaemia as a complication of diabetes therapies, and in new technologies for glucose measurement and insulin delivery.</p>
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<p><i>Employing trust:</i></p> <p>King's College Hospital NHS Foundation Trust</p>	<p><i>Academic placement based at:</i></p> <p>King's College Hospital</p>
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<p><i>Brief outline of department</i></p> <p>The Diabetes Research Group encompasses the islet physiology laboratories on the Denmark Hill and Guy's campuses, where basic research into islet function and growth inform clinical studies in beta cell replacement in type 1 diabetes and novel treatments for type 2 diabetes (Professors Jones and Persaud, Drs Choudhary and Huang) and the experimental medicine group at Denmark Hill exploring human metabolism with questions around the impact of ethnicity on the dysregulation of metabolism that leads to type 2 diabetes (Professor Amiel, Dr Goff), the central control of metabolism in hypoglycaemia in insulin therapy (Professor Amiel, Dr Choudhary), the use of new technologies in insulin delivery and glucose sensing in the improvement of diabetes control (Dr Choudhary), investigation of the mechanisms by which bariatric surgery improves metabolic control (Professor Rubino, Dr Hopkins); and research into the prevention and management of diabetes in pregnancy (Dr Hunt, Professor Forbes). We use laboratory research, insulin clamping, cognitive testing, neuroimaging, and clinical trials in these investigations.</p> <p>We also have an award-winning programme in mental health in diabetes (Professor Ismail), focusing on the mechanisms for interaction between depression and diabetes outcomes; the interaction between type 1 diabetes and eating disorders and the use of psychotherapy in the prevention of problematic hypoglycaemia.</p>
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<p><i>Structure of academic project/what expected</i></p> <p>We offer options in clinically based or laboratory-based projects for ACFs and Academic F2 trainees. Recent projects have investigated personality traits as predictors of response to hypoglycaemia avoidance algorithms, the prevalence of</p>
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specific cognitive barriers to hypoglycaemia avoidance in participants in the US Type 1 diabetes exchange registry, new bench assays to assess activation of clotting cascades by human islets: and social drift in people with a new diagnosis of diabetes. The project is planned during the clinical attachment to Medicine in the first four months and carried out in four months of protected research time from December to March. The year concludes with four months in A and E at KCH. Supervision and training are provided throughout, and all our recent trainees have had the opportunity to present research findings at national and international meetings.

*Clinical commitments during academic placement*

There are no fixed clinical commitments during the dedicated research attachments. The clinical training periods comprise an initial 4-month clinical placement with the clinical firm delivering diabetes and endocrinology with internal medicine based on the relevant ward at King's College Hospital; with a final four months in the Emergency Department of the hospital but the research months will be clear of timetabled clinical work.

*Departmental academic teaching programme (if applicable)*

There are weekly academic meetings in diabetes at Denmark Hill and weekly lab meetings on the Guy's (islets, Fri am) and Denmark Hill (experimental medicine, Monday pm) throughout the year. In addition, there are weekly clinical meetings Monday and Thursday am; diabetes MDT meeting Thursday afternoons and a monthly academic speaker Wed pm. One to one supervision in aspects of research methodology is provided to support the project work with opportunities to attend national and international academic diabetes meetings

*Academic Leads:*

Professor Stephanie Amiel  
Professor of Diabetic Medicine and Head of Diabetes & Nutritional Sciences  
Division  
[stephanie.amiel@kcl.ac.uk](mailto:stephanie.amiel@kcl.ac.uk)

Dr Pratik Choudhary  
Senior Lecturer  
[pratik.choudhary@kcl.ac.uk](mailto:pratik.choudhary@kcl.ac.uk)

### Programme 3 – Hepatology – based at King’s College Hospital

Reference: 2425/KCL/03

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites.

<i>Type of programme</i>	
Within the Institute of Liver Studies, we will be offering a choice of research projects which the specialised foundation year can choose from, encompassing immunomonitoring and development of novel immunosuppressive strategies in liver transplantation, immunopathogenesis of autoimmune liver diseases and alcohol-related liver disease, gut microbiota and innate immune dysfunction in the context of acute and chronic liver disease.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
King's College Hospital NHS Foundation Trust	King’s College Hospital
<i>Brief outline of department</i>	
The Institute of Liver Studies mission is to produce research that impacts directly on patient care by perfecting surgical techniques and supportive management of the failing liver and elucidating mechanisms of liver damage to develop specific and more efficient modes of treatment.	
<i>Structure of academic project/what expected</i>	
The specialised foundation year allocated to this programme will perform translational laboratory research (from bedside to bench or vice versa) on a project within our research portfolio which will be tailored to the interests and skills of the specialised Foundation Year Trainee.	
<i>Clinical commitments during academic placement</i>	
Friday morning complex hepatology clinic with Professor Shawcross or a clinic of the trainee’s choosing relevant to their research area.	
<i>Departmental academic teaching programme (if applicable)</i>	
<ul style="list-style-type: none"><li>• Weekly Wednesday morning hepatology teaching from 8.00 – 9.00am.</li><li>• Participation in the Liver Sciences and the Dept. of Inflammation Biology, School of Immunology and Microbial Sciences Academic Programme Activities including academic seminars and postgraduate student activities.</li><li>• Opportunity to attend national (British Society of Gastroenterology and British Association for The Study of the Liver) and international liver conferences (EASL/AASLD) to complete postgraduate course and/or present research data in abstract form as appropriate.</li></ul>	



Professor Debbie Shawcross  
 Professor of Hepatology and Chronic Liver Failure  
[Debbie.shawcross@kcl.ac.uk](mailto:Debbie.shawcross@kcl.ac.uk)

Professor Alberto Sanchez Fueyo  
 Head of Liver Sciences  
[sanchez\\_fueyo@kcl.ac.uk](mailto:sanchez_fueyo@kcl.ac.uk)

Dr Mark McPhail  
 Senior Lecturer and Consultant in Liver Critical Care and Hepatology  
[Mark.mcphail@kcl.ac.uk](mailto:Mark.mcphail@kcl.ac.uk)

**Programme 4 – Cardiovascular – based at King’s College Hospital**

Reference: 2425/KCL/04

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites.

<i>Type of programme</i>	
A combined clinical and research training programme ideally suited to individuals with prior undergraduate research experience who are interested in a cardiovascular clinical academic career.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
King's College Hospital NHS Foundation Trust	King's College Hospital
<i>Brief outline of department</i>	
The Cardiovascular Clinical-Academic Grouping integrates the KCL School of Cardiovascular Medicine & Sciences and the King's Health Partners clinical cardiovascular services. We host the joint-largest UK British Heart Foundation Centre of Research Excellence, recently renewed for a third term. The school has ~45 PIs (including 4 BHF Professors) and >50 PhD/MD students among 200 staff. There are a wide range of internationally leading laboratory-to-bedside research programmes covering major disease areas ( <a href="https://www.kcl.ac.uk/scms/index">https://www.kcl.ac.uk/scms/index</a> ). Clinical training is undertaken at King's College Hospital (KCH), a leading UK cardiac centre with a comprehensive range of cardiology/cardiac surgery services and a strong track record of clinical innovation.	
<i>Structure of academic project/what expected</i>	
A 4-month full-time laboratory attachment based within the James Black Centre, a state-of-the-art institute with outstanding research facilities at KCH. Projects are	

agreed between the trainee and educational supervisor at the beginning of the F2 year. Research areas include cardiac hypertrophy, heart failure, heart regeneration, vascular dysfunction, vascular aging, proteomics, and inflammation - each led by a senior PI and all within multi-disciplinary groupings. You will be involved in a topical project with exposure to state-of-the-art research techniques and develop some ideas about future PhD training projects. It may be feasible to continue some research during the 4-month clinical cardiology rotation that follows the academic placement.

*Clinical commitments during academic placement*

No formal clinical commitments but attendance at clinical educational seminars is encouraged.

*Departmental academic teaching programme (if applicable)*

A weekly laboratory seminar programme, 1-2 BHF Centre international seminars per month, a large variety of other technology workshops/research seminars that you can attend if you wish.

*Academic Lead:*

Professor Ajay M Shah  
 BHF Professor of Cardiology & Director of the King's BHF Centre of Excellence. [ajay.shah@kcl.ac.uk](mailto:ajay.shah@kcl.ac.uk)

**Programme 5 – Haematology – based at King’s College London**

Reference: 2425/KCL/05

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites

<i>Type of programme</i>	
Research	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
King's College Hospital NHS Foundation Trust	King's College Hospital
<i>Brief outline of department</i>	
<p>The Department of Haematological Medicine is a large department covering all aspects of haematology at both clinical and academic levels. The department is based at Denmark Hill, with research laboratories on the same site in the Rayne Institute. Across haematology, there is a wide range of translational research in the different sub-specialities supported by expertise in a broad range of molecular and cellular biology techniques and excellent infrastructure.</p>	

*Structure of academic project/what expected*

The four-month clinical attachment will be based in the Department of Haematological Medicine (Head of Department – Professor G Mufti). It will provide exposure to a broad spectrum of the different sub-specialities; red cell and paediatric haematology, including sickle cell disease and other haemoglobinopathies, and genetic counselling of these disorders (Professor David Rees, Drs Moji Awogbade, Sara Stuart-Smith, Subarna Chakravorty and Sue Height); haemato-oncology and bone marrow failure (Professors G Mufti, Judith Marsh, Tony Pagliuca.); thrombosis and haemostasis (Professor Roopen Arya and Dr Raj Patel), and blood transfusion (Dr Alek Mijovic).

It is envisaged that the trainee spends one month in each of the four sub-specialities, during which s/he will attend the relevant consultant-led clinics, speciality ward rounds and clinical meetings, in addition to the weekly departmental seminars, joint X ray, joint histopathology and Case-of-the week meetings. Each sub-speciality will have its own timetable of meetings and clinics.

There is no on-call or out-of-hours commitment in this post, but it is expected that the trainee will be able to be flexible about hours to encompass the demands of research. The research/laboratory attachment will be with Professor Rees's red cell haematology group (Head, Professor Rees) or any of the other haematology sub-groups, depending on the interests of the trainee. Haematology research laboratories are based in the Rayne Institute.

The trainee will be exposed to data collection and analysis and a broad range of clinical and non-clinical research. The trainee will undertake a well-defined project within the research programme under the guidance of one of the Principle Investigators in haematology; this may include some bench work.

*Clinical commitments during academic placement*

Variable depending on interests, but attachment to all the major haematology departments

*Departmental academic teaching programme (if applicable)*

N/A

*Academic Lead:*

Professor David Rees  
Consultant Paediatric Haematologist  
[david.rees2@nhs.net](mailto:david.rees2@nhs.net)

## Programme 6 – Clinical Neuroscience – based at King’s College Hospital

Reference: 2425/KCL/06

<i>Type of programme</i>	
Research	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
King's College Hospital NHS Foundation Trust	King's College Hospital
<i>Brief outline of department</i>	
<p>The Department of Basic and Clinical Neuroscience at King’s College London and the associated Regional Neurosciences Unit at King’s College Hospital include internationally recognised clinician scientist leaders in epilepsy, neurodegeneration (Alzheimer’s disease and motor neuron disease), headache, neuro-oncology, movement disorders, brain injury, demyelinating disease, and functional neurological disorders. Past projects include neurophysiological studies in motor neuron disease and in models of epilepsy; next generation sequencing projects in motor neuron disease; an RNA expression study in Alzheimer's disease; and stroke in brain tumour patients.</p>	
<i>Structure of academic project/what expected</i>	
<p>During the research attachment, trainees will be able to choose a supervisor from principal investigators (PIs) in the school of Neurosciences. Areas of activity include Mendelian and complex genetics, molecular cell biology, cellular electrophysiology, neuroimaging, proteomics and bioinformatics. During the academic rotation, trainees are encouraged to attend research seminars and other activities organised by the Department of Basic and Clinical Neuroscience, as well as the Clinical Grand Round at King’s College Hospital. The post-holder is expected to teach a Masterclass seminar on the MSc in Clinical Neuroscience, two hours a week, in conjunction with the F2A in Neurology. A list of principal investigators with brief outlines of their areas of research and likely projects is available at the start of the academic year. Trainees are encouraged to make contact with a range of PIs so that they can select a PI and project at least 3 months prior to starting the research rotation.</p> <p>The associated F2 clinical attachments will be in Neurology (King’s College Hospital is the largest regional neuroscience centre in the country) and A&amp;E.</p>	
<i>Clinical commitments during academic placement</i>	
<p>The trainee is expected to attend the Neurology Grand Round at King’s College Hospital and to present a weekly seminar to the Clinical Neurosciences MSc students. Teaching on the MSc is an important component of the post.</p>	

*Departmental academic teaching programme (if applicable)*

There is a programme of research presentations from the department, a programme of visiting lecturers, and weekly journal clubs and seminars in various research topics. The post-holder is also welcome to attend lectures and seminars from the MSc Clinical Neuroscience and the MSc Neuroscience

*Academic Lead:*

Dr Gerald Finnerty  
Senior Clinical Lecturer & Honorary Consultant Neurologist  
[gerald.finnerty@kcl.ac.uk](mailto:gerald.finnerty@kcl.ac.uk)  
[gfinnerty@nhs.net](mailto:gfinnerty@nhs.net)

**Programme 7 – Imaging – based at St Thomas’ Hospital**

Reference: 2425/KCL/07

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites.

*Type of programme*

A combined clinical and research training programme ideally suited to individuals with prior undergraduate research experience who are interested in an imaging clinical academic career.

*Employing trust:*

Guy’s and St Thomas’ NHS Foundation Trust

*Academic placement based at:*

Division of Imaging Sciences and Biomedical Engineering, King’s College London St Thomas’s hospital

*Brief outline of department*

The Division of Imaging Sciences and Biomedical Engineering has a focus on translational work with scientists in biomedical engineering, imaging chemistry and biology developing fundamental technologies that are refined and translated into clinical applications by clinical academics. There is a strong focus in cardiovascular disease, cancer and neuroscience and our clinical and research activity occurs at St Thomas’ hospital. Within the Division 70% of the academic team are engineers or physical scientists who work closely with clinicians and biologists focusing on disease of worldwide significance. The Division hosts a number of Centres including Wellcome/EPSRC Medical Engineering Centre of Research Excellence and the Imaging theme of our recently renewed NIHR Biomedical Research Centre.

<p>Current research strengths relevant to this post include computational modelling (development of models which can give us insights into mechanisms of disease), Image guided interventions (including new methodologies such as MRI guidance) and MRI, PET and ultrasound research (particularly to better the physiology and pathology of disease).</p>
<p><i>Structure of academic project/what expected</i></p> <p>A 4-month full-time attachment based within the Imaging and Biomedical Engineering Division (with state-of-the-art research facilities including dedicated research scanners, laboratories and high-performance computing facilities). Projects are agreed between the trainee and educational supervisor at the beginning of the F2 year. Research areas include Cardiovascular imaging (MRI, CT) and biophysical computational modelling, Cancer imaging (PET, MRI combined PET/MRI), bio-statistical and machine learning methodologies and neuroscience (MRI including 7T and PET) including neuro-receptor modelling. The trainee should expect to be involved in a topical project with exposure to state-of-the-art research techniques and develop some ideas about future PhD training projects. It may be feasible to continue some research during the 4-month clinical rotations that follows the academic placement.</p>
<p><i>Clinical commitments during academic placement</i></p> <p>The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.</p>
<p><i>Departmental academic teaching programme (if applicable)</i></p> <p>A weekly seminar programme in Imaging.</p>
<p><i>Academic Lead:</i></p> <p><i>Professor Reza Razavi</i>          Director of Wellcome Trust/EPSRC Centre in Medical Engineering  <a href="mailto:reza.razavi@kcl.ac.uk">reza.razavi@kcl.ac.uk</a></p>

**Programme 8 – Rheumatology – based at Guy's and St Thomas' Hospital**  
 Reference: 2425/KCL/08

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites

<p><i>Type of programme</i></p> <p>A combined clinical and research training programme ideally suited to individuals with prior undergraduate research experience who are interested in a clinical academic career focused on immunity and inflammation.</p>
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<p><i>Employing trust:</i></p> <p>Guy's and St Thomas' NHS Foundation Trust</p>	<p><i>Academic placement based at:</i></p> <p>Guy's or Denmark Hill Campus (depending on chosen research project), KCL</p>
<p><i>Brief outline of department</i></p> <p>The Academic Rheumatology is led by Professor Andrew Cope. The faculty has a long track record in basic laboratory research with an emphasis on the immunobiological and inflammatory basis of rheumatic diseases, epidemiology, statistics and health outcomes relating to musculoskeletal disease, early phase experimental medicine studies and clinical trials. In the laboratory current research focuses on pathways of T cell activation and differentiation, functional genomic studies of genetic variants that contribute to disease, and pathways of inflammation. This programme is undertaken in the Centre for Inflammation Biology and Cancer Immunology (CIBCI). A new emerging programme of work focuses on studying cancer patients who develop autoinflammatory syndromes following cancer immunotherapy with immune checkpoint inhibitors. On the Denmark Hill campus the focus is on clinical trials, health outcomes and epidemiology. The group hosts the Arthritis Research UK funded Experimental Arthritis Treatment Centre and is currently leading the first ever multi-centre RA prevention study. It also runs one of only three MSc in Rheumatology in the UK.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>Previous specialised foundation trainees have been offered a variety of research projects depending on their own specific interests. Previous trainees have undertaken clinical projects (e.g., imaging, clinical studies), data centred projects (e.g., analysis of large datasets) or laboratory-based projects (e.g., mouse models, in vitro cellular immunology, high resolution imaging or biochemistry). During their attachment trainees will acquire Good Clinical Practice certification and acquire core skills required for completing clinical trial assessments. Depending on the choice of research group, trainees may gain skills cellular and molecular immunology, cell culture and flow cytometry, as well as an understanding of the approach to analysis of large clinical and trial datasets. Trainees will be encouraged to present their work at weekly laboratory meetings.</p>	
<p><i>Clinical commitments during academic placement</i></p> <p>The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.</p> <p>specialised Foundation trainees have the option of full-time laboratory research, or if the research project dictates, the option of running (or attending) a specialist clinic e.g., inflammatory arthritis, remission, imaging clinic.</p>	

<i>Departmental academic teaching programme (if applicable)</i>
Weekly CIBCI Work in Progress (WIP) meeting; weekly Divisional Research Under Construction (RUC) meeting; weekly journal club, weekly laboratory research meeting; weekly postgraduate clinical department meeting (optional).
<i>Academic Lead:</i>
Professor Andrew P. Cope <a href="mailto:andrew.cope@kcl.ac.uk">andrew.cope@kcl.ac.uk</a>

**Programme 9 – Obstetrics – based at Guy’s and St Thomas’ Hospital**

Reference: 2425/KCL/09

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites

<i>Type of programme</i>	
Research	
<i>Employing trust:</i> Guy’s and St Thomas’ Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St Thomas’ Hospital
The Department of Women and Children’s Health at the King’s Health Partners Academic Health Sciences Centre is one of the largest academic groupings in women’s health in Europe. There is strong representation throughout the translational research pipeline, from basic science to clinical trials and implementation research. The research groups include Preterm and Term Birth, Maternal Metabolic Disorders, Reproductive Medicine, Developmental & Reproductive Biology, Global Health, Maternal Hypertension, Women’s Mental Health, Maternal Health Policy, Systems and Implementation. The KCL Division of Women’s Health is known as a thriving and energetic multidisciplinary academic community, with a strong emphasis on global health research.	
<i>Structure of academic project/what is expected</i>	
Prior to starting the academic placement, the academic lead will work with the trainee to identify a group and supervisor that fits their research interests. The breadth of the Division’s research ensures that placements can be undertaken ranging from discovery science laboratory projects through to translational clinical research. The trainee will be adopted into one of the research groups and develop a well-defined project with the intention of completion and write-up within the placement to submit for publication, together with presentation at a regional or national meeting. Previous academic foundation year trainees have undertaken exploratory biomarker analyses of biobanked samples to address ancillary research questions, secondary analyses of datasets, and/or undertaken systematic reviews of the literature. Teaching opportunities are available if the trainee wishes to gain experience.	



*Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly SFP teaching and encouraged to engage with other relevant clinical educational events where applicable.

The trainee will be offered the opportunity to attend one of the research clinics relevant to their project (e.g., maternal hypertension, preterm birth, diabetes in pregnancy or obstetric medicine) as appropriate.

*Departmental academic teaching programme (if applicable)*

Weekly research group meetings, monthly seminars, monthly journal clubs.

*Academic Lead:*

Dr Caroline Ovadia  
Clinical Senior Lecturer in Obstetrics  
caroline.ovadia@kcl.ac.uk

**Programme 10 – Allergy and Respiratory Medicine – based at Guy's and St Thomas' Hospitals**

Reference: 2425/KCL/10

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites

*Type of programme*

Research

*Employing trust:*

Guy's and St Thomas' NHS Foundation Trust

*Academic placement based at:*

Guy's and St Thomas' Hospitals

*Brief outline of department*

*Respiratory Medicine and Allergy clinical, translational and basic research programmes are internationally competitive.* There is close integration between clinical departments at GSTT/KCH and KCL research-intensive departments. Opportunities for research exist within the MRC-Asthma UK Centre in Allergic Mechanisms of Asthma at KCL in partnership with Asthma UK, Imperial College and associated NHS Trusts; Sleep and Ventilation/Lane Fox Unit; Interstitial Lung Diseases Unit that has close links with Rheumatology/Lupus Unit; Critical Care Unit; Thoracic Oncology in collaboration with Thoracic Surgery, Imaging Sciences,

Cancer Studies and Randal Centre for Cell and Molecular Biophysics. Broad research areas covered include IgE structure, function and regulation; airways inflammation fibrosis and remodelling; prevention and therapy of allergy, asthma and chronic respiratory morbidity; tight junction biology; the EGFR network in normal airway epithelium and lung cancer; and Endobronchial Ultrasound in the diagnosis and management of Thoracic Diseases and lung physiology. Close interactions between non-clinical and clinical scientists provide improved opportunities for new ideas to arise and for discoveries from gene to bedside to be fully exploited for the benefit of health care.

*Structure of academic project/what expected*

The trainee will undertake a well-defined research and training programme specific to his/her needs by affiliating with one or more PIs. We offer flexibility and encourage trainees to take a broad view of training and research opportunities available to them.

*Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

Blocked clinical training in subspecialty respiratory medicine – including lung fibrosis, lung cancer, Sleep & Ventilation/Lane Fox Unit, specialist asthma, adult allergy/drug desensitisation, infection, cystic fibrosis is potentially available to the trainee.

*Departmental academic teaching programme (if applicable)*

On-going training programme with laboratory meetings, research in progress meetings and generic research methods training.

*Academic Lead:*

Professor George Santis  
[george.santis@kcl.ac.uk](mailto:george.santis@kcl.ac.uk)

**Programme 11 – Clinical Genetics – based at Guy’s and St Thomas’ Hospitals**

Reference: 2425/KCL/11

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites.

<i>Type of programme</i>	
<p>The clinical genetics academic placement programme is research led. The placement is designed to provide training and insight into either discovery, translational or clinical projects around genetic diseases and disorders.</p>	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Guy's and St Thomas' NHS Foundation Trust	Guy’s and St Thomas’ Hospitals
<i>Brief outline of department</i>	
<p>The department of Medical &amp; Molecular Genetics, in the faculty of Life Sciences and Medicine, is a vibrant and ambitious department with an excellent reputation in research, teaching and clinical genetics with research expertise around understanding the genetic basis of human disease in the areas of rare genetic disease, common complex disorders, statistical genetics, epigenetics, cancer genetics, immune genetics, population genetics and genomics and bioinformatics. There are close research links to (1) the St John's Institute of Dermatology, a world-leading centre for the study, teaching and treatment of severe skin diseases on the adjacent floor, which has a strong portfolio in translational research across cancer, inflammation and genetic skin diseases with a focus on biomarker discovery and experimental medicine, built upon excellent clinical resources; (2) The King’s Centre for Stem Cells and Regenerative Medicine which has state of the art research facilities, enabling cutting edge studies of cellular interactions between skin cells critical for developing effective therapies in the clinic; and (3) The Twin Research Unit which is the home of TwinsUK, one of the most comprehensively genotyped and phenotyped cohorts in the world and conducts a wide variety of common complex traits research projects.</p> <p>For further information see our website:  <a href="https://www.kcl.ac.uk/bmb/our-departments/department-of-medical-molecular-genetics">https://www.kcl.ac.uk/bmb/our-departments/department-of-medical-molecular-genetics</a></p>	
<i>Structure of academic project/what expected</i>	
<p>The academic project is developed along with the academic supervisor and their team of researchers. This project can take several forms depending on the interests of the candidate and the availability of supervisors. With the breadth of research interests currently available, this can take the form of anything from a discovery science experimental study alongside bench researchers or a bioinformatics-based</p>	

'big' data analysis project which is increasingly relevant to personalised medicine efforts, such as using 100,000 genomes project data, to a more clinical centred project with translational or clinical research goals. This flexibility is afforded by the breadth of our faculty, but the choice should be driven by the motivation and interests of the individual candidate.

*Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

Trainees are welcome to and encouraged to engage with the clinical geneticists and indeed may involve themselves in projects which have a clear clinical facet to them during their placement.

*Departmental academic teaching programme (if applicable)*

The departments have a range of seminar programmes and journal clubs.

*Academic Lead:*

Professor Tim Hubbard  
Department of Medical & Molecular Genetics  
[tim.hubbard@kcl.ac.uk](mailto:tim.hubbard@kcl.ac.uk)

**Programme 12 – Medical Education – based at King’s College London, Guy’s Campus**

Reference: 2425/KCL/12

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites.

<b><i>Type of programme</i></b>	
The specialised Foundation Programme in Medical Education offers practical involvement in medical education and educational research.	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Guy's and St Thomas' NHS Foundation Trust	Guy’s and St Thomas’ Hospitals
<b><i>Brief outline of department</i></b>	
<p>The School of Medical Education, with our collaborating partner, The University of Washington in Seattle, have been awarded BICC Status. A BICC is an international collaborating centre committed to identifying and promoting best evidence in medical education. We are committed to educational research and evidence based medical education practices. (BICCs are part of the Best Evidence Medical Education (BEME) Collaboration, sponsored by the Association of Medical Education in Europe, AMEE).</p> <p>Previous foundation doctors have been involved with projects at the Simulation and Interactive Learning (SaIL) Centre, Institute of Psychiatry, and the School of Population Health &amp; Environmental Sciences, as well as contributing to on-going projects at the GKT School of Medical Education, in areas such as ethics and law, e-learning, delivery of the curriculum, learning in clinical settings and teams, including learning in the context of crisis. More recently foundation doctors have been involved in research studies of key modules within the MBBS undergraduate curriculum. Their work has been presented at national and international conferences and published. There are opportunities to be involved with teaching at both Guy’s and St Thomas’ NHS Foundation Trust and King’s College London School of Medicine during the two years of the Programme.</p>	
<b><i>Structure of academic project/what expected</i></b>	
<p>The F2 appointee would be expected to participate in the teaching and assessment activities of the School of Medical Education and would be expected to do a research project within medical education which would be supervised by Medical Education Research staff. Research areas include curriculum planning, teaching, and learning practices in classroom and clinical settings, feedback and assessment, admissions, technology supported learning and faculty development. Innovative ideas would be welcomed, and forward planning of the projects will be required as ethics permission may need to be sought. Research findings would be presented locally, nationally and if appropriate internationally. Publication of results will be encouraged and supported, where appropriate.</p>	

*Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

*Departmental academic teaching programme (if applicable)*

There is a programme of Medical Education Lectures throughout the year. Opportunities for support and mentorship.

*Academic Lead:*

Dr Anne McKee  
Senior Lecturer  
Director of Educational Research and Innovation  
[Anne.Mckee@kcl.ac.uk](mailto:Anne.Mckee@kcl.ac.uk)

**Programme 13 – Infectious Diseases – based at Guy's and St Thomas' Hospitals**

Reference: 2425/KCL/13

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites

*Type of programme*

Research

*Employing trust:*

Guy's and St Thomas' NHS Foundation Trust

*Academic placement based at:*

Guy's and St Thomas' Hospitals

*Brief outline of department*

The Department of Infectious Diseases supports multi-disciplinary research that bridges rich clinical resources in the areas of infectious diseases and sexually transmitted diseases with the strengths of KCL's Health Schools in basic biomedical research. The Department comprises research laboratories at two sites: virology is undertaken in the Borough Wing of Guy's Hospital, while microbiology is studied in the North Wing at St Thomas' Hospital (Centre for Clinical Infection and Diagnostics Research, CIDR). The Department is also home to the KCL Infectious Diseases Biobank, which serves as a centralised archiving and molecular analysis facility that assists scientists undertaking cohort-based projects.

Our virologists exploit assorted molecular genetic, cultured cell, biochemical, structural, bioinformatic, systems and cohort-based methodologies to study the biological and molecular principles that underpin virus transmission, replication, pathogenesis and immunity. Current

areas of interest include HIV/AIDS, human coronaviruses (including SARS-CoV-2), filoviruses (e.g., Ebola virus), influenza viruses, rhinoviruses, HCV, host-virus interactions, innate and adaptive immune responses, viral assembly and stem cell manipulation. The CIDR is organised into four sections: healthcare associated infections, epidemiology and modelling, diagnostics and clinical infection. Its chief objectives are to translate output from clinically relevant observational, intervention and pathogenesis studies, together with diagnostic development, to the prevention and treatment of infectious diseases. In 2020, the Dept has formed a close-working multi-disciplinary partnership to address urgent clinical needs in COVID-19 and has developed and evaluated diagnostic tests that are in clinical use. Through the careful curation of patient and community specimens, the Dept is positioned to undertake future cutting-edge research on many aspects of COVID-19, stretching from fundamental biology to infection control and vaccine development.

Previous trainees have worked on mechanisms of cell-mediated control of HIV infection, HIV budding and the determinants of MRSA transmission.

<http://www.kcl.ac.uk/lsm/research/divisions/diuid/index.aspx>

#### *Structure of academic project/what's expected*

Projects in the Department involve full-time research. It is likely that this will involve extensive "wet-lab" experimentation, often handling infectious micro-organisms, though certain projects may have a heavier computational/bioinformatic focus. In all cases scientific rigour, discussion and collaboration are expected. A diverse portfolio of projects is on offer, and the final selection is determined by the specific interests of trainees and project availability. Participation in relevant research presentations, seminar series and lab meeting are required.

#### *Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

#### *Departmental academic teaching programme (if applicable)*

The Department undertakes undergraduate and postgraduate teaching.

#### *Academic Lead:*

Professor Michael Malim  
Head, School of Immunology & Microbial Sciences  
[michael.malim@kcl.ac.uk](mailto:michael.malim@kcl.ac.uk)

## Programme 14 – Oncology – based at Guy’s and St Thomas’ Hospitals

Reference: 2425/KCL/14

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites

<i>Type of programme</i>	
Research	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Guy's and St Thomas' NHS Foundation Trust	Guy's and St Thomas' Hospitals
<i>Brief outline of department</i>	
<p>Cancer research at KCL comprises a multidisciplinary research portfolio that maps onto and spans the entire cancer patient journey. Programmes are directed towards innovative patient care, with a presence at all stages of the iterative bench-to-bedside-to-bench cycle. We are among the UK's largest cancer service providers (~7,500 new patients/annum) offering exceptional opportunities for clinical innovation. Our research embraces basic and translational cancer biology, patient-based molecular data collection, bioinformatics, intervention development, clinical trials and trial analysis.</p> <p>The Division is organised into 13 research programmes of cancer epidemiology, population and global health, quantitative genomics, epigenomics and banking, lymphoma, leukaemia and myeloma, cancer immunology and immunotherapy, experimental oncology, head and neck cancer, cancer imaging, biobanking, breast cancer, lung cancer, cancer biology, uro-oncology, and gastrointestinal cancer.</p> <p>These research programmes are allied by cross-cutting activities and expertise in tissue banking and analysis, proteomics, genomics, statistics, cell and tissue imaging, gene therapy, cancer stem cells, tumour microenvironment, signal transduction, cell cycle and transcription, genetics, functional imaging, and psycho-social oncology.</p>	
<i>Structure of academic project/what expected</i>	
<p>The trainee will join a PI within the Division and will undertake a well-defined research project matched to the interests of the trainee, with associated training programme specific to their needs.</p>	
<i>Clinical commitments during academic placement</i>	
<p>The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.</p>	



Dependent on the exact project to be undertaken, the F2 may benefit from attendance at specialist outpatient clinics.

*Departmental academic teaching programme (if applicable)*  
N/A

*Academic Lead:*  
  
Dr Debashis Sarker  
Senior Lecturer in Medical Oncology  
[debashis.sarker@kcl.ac.uk](mailto:debashis.sarker@kcl.ac.uk)

**Programme 15 – Surgery – based at Guy’s and St Thomas’ Hospitals**

Reference: 2425/KCL/15

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites.

*Type of programme*  
Specialised Foundation Year Training (Research) Programme

<i>Employing trust:</i>	<i>Academic placement based at:</i>
Guy's and St Thomas' NHS Foundation Trust	Guy’s and St Thomas’ Hospitals

*Brief outline of department*

King’s Health Partners Vascular Unit at St Thomas’ Hospital is the largest in the country and is a leading centre for the treatment of complex vascular diseases including aneurysms, carotid, peripheral arterial, venous thrombotic and lymphatic disease.

The combined clinical-academic unit is part of the BHF Centre of Research Excellence for Cardiovascular Disease. It comprises a Professor of Vascular Surgery, a Professor of Vascular Science, 2 Senior Clinical Lecturers, an NIHR Clinical Lecturer, post-doctoral scientists, Clinical Research Fellows, and two NIHR Academic Clinical Fellow.

Our research uses a multi-disciplinary approach that includes the development and application of biochemical, physiological, genetic, molecular and imaging techniques, as well as relevant models of vascular disease. It is facilitated by local, national and international collaborations that have enabled many publications in high impact factor journals and successful funding from MRC, Wellcome, BBSRC, BHF and the Royal College of Surgeons.

*Structure of academic project/what expected*

The full spectrum of projects is made available to the trainee by virtue of the fact that we have both basic science and clinical research interests.

The unit has laboratory facilities including molecular biology, tissue culture and histology and access to state-of-the-art equipment and expertise. There will also be opportunity to develop generic and specific research skills at training courses within KCL.

Clinical projects are facilitated by the wealth of patient data collected for each of the aforementioned vascular pathologies, particularly patients undergoing treatment of aortic pathologies.

The majority of the academic projects undertaken to date by Specialised Foundation Trainees placed in the Department have been presented at a national/international meeting and subsequently published.

#### *Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

#### *Departmental academic teaching programme (if applicable)*

The unit holds an academic meeting for juniors and consultants on the first day of each week. The department has four postdoctoral scientists who can teach research techniques and methodology as required. A culture of teamwork and is encouraged with more established MD/PhD students offering support and guidance to students on shorter term placements. The successful candidate will have access to researcher development courses run by KCL.

#### *Academic Lead:*

Professor Bijan Modarai PhD FRCS  
Professor of Vascular Surgery  
Honorary Consultant Vascular Surgeon  
British Heart Foundation Senior Fellow  
[bijan.modarai@kcl.ac.uk](mailto:bijan.modarai@kcl.ac.uk)

**Programme 16 – Cardiovascular Medicine – based at Guy’s and St Thomas’ Hospitals**

Reference: 2425/KCL/16

Individual Placement Descriptor (IPD) for the four-month academic placement  
 Separate IPDs for clinical placements are available on foundation school websites

<i>Type of programme</i>	
Research	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Guy's and St Thomas' NHS Foundation Trust	Guy's and St Thomas' Hospitals
<i>Brief outline of department</i>	
<p>The Cardiovascular Clinical-Academic Grouping integrates the KCL School of Cardiovascular and Metabolic Medicine and Science and the King's Health Partners clinical cardiovascular services. We host the joint-largest UK British Heart Foundation Centre of Research Excellence, recently renewed for a third term. The school has ~45 PIs (including 4 BHF Professors) and &gt;50 PhD/MD students among 200 staff. There are a wide range of internationally leading laboratory-to-bedside research programmes covering major disease areas (<a href="https://www.kcl.ac.uk/scms/index">https://www.kcl.ac.uk/scms/index</a>). Clinical training is undertaken at Guy’s and St Thomas’ Hospital (GSTT), a leading UK cardiac centre with a comprehensive range of cardiology/cardiac surgery services and a strong track record of clinical innovation.</p> <p>Many critical cellular processes that determine myocardial viability and function are regulated through intracellular signalling pathways that respond to environmental or mechanical stimuli and lead to chemical modification of downstream targets. The focus of our work is on the signalling pathways that determine myocardial viability and function within the context of ischaemic heart disease. Our particular interest is in clinical and experimental studies of adaptation to ischaemia through the growth of coronary collaterals and adaptive changes in blood flow within the microcirculation. We investigate these using the whole range of basic and clinical laboratory techniques as well as advanced cross-sectional imaging. The Research theme lies in the Cardiovascular School on the St Thomas’ Hospital Campus and involves an interdisciplinary group of clinicians and scientists based in the Rayne Institute and within the clinical cardiology unit at Guy’s and St Thomas’. The other relevant investigators working with Michael Marber include Simon Redwood, Divaka Perera, Michael Shattock, Amedeo Chiribri, Reza Razavi, Rene Botnar, Andrew Webb and Haseeb Rahman.</p>	
<i>Structure of academic project/what expected</i>	
<p>Various projects are available and can be tailored to career ambitions and academic interests. Generally, the projects involve the examination of invasive physiological flow and pressure information and their comparison to non-invasive indices obtained by cross-sectional imaging. The purpose is to validate new non-invasive techniques to measure cardiac function</p>	

and predict clinical outcome. The cardiovascular diseases on which we focus are myocardial ischaemia, heart failure and aortic stenosis.

*Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

*Departmental academic teaching programme (if applicable)*

The Cardiovascular School hosts a comprehensive range of training programmes for clinical and non-clinical scientists. We host a prestigious BHF 4-year programme in Cardiovascular Biology and through the BHF Centre run a novel inter-disciplinary PhD training programme to attract engineers, mathematicians and biophysicists into the cardiovascular field. We also have standard 3-year PhD and MD(Res) studentships/fellowships for non-clinicians and clinicians. These are funded by a range of sources including Research Councils, industry and charities. There are currently 79 registered PhD/MD students. The appointee will be able to access these training resources and educational programmes.

*Academic Lead:*

Professor Divaka Perera  
Professor of Cardiology, King's College London  
Consultant Cardiologist, Guy's & St Thomas' Hospital  
[divaka.perera@kcl.ac.uk](mailto:divaka.perera@kcl.ac.uk)  
[Divaka.Perera@gstt.nhs.uk](mailto:Divaka.Perera@gstt.nhs.uk)

## Programme 17 – Nephrology – based at Guy’s and St Thomas’ Hospitals

Reference: 2425/KCL/17

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites.

<i>Type of programme: Research</i>	
<i>Employing trust:</i> Guy's and St Thomas' NHS Foundation Trust	<i>Academic placement based at:</i> Guy's and St Thomas' Hospitals
<i>Brief outline of department</i> <p>The nephrology placement offers a range of clinical and scientific research opportunities within the School of Immunology and Microbial Sciences, The MRC Centre for Transplantation and The NIHR Biomedical Research Centre Transplant Theme.</p> <p>Major research programmes within the centre include complement, innate immunity, complement, coagulation, immune biology, immune regulation, T cell development, genetics, imaging, and tolerance biology. Its science base embraces liver, kidney, pancreas, bone marrow, islets, hepatocyte and stem cell transplantation, in what is one of the largest patient groups in Europe.</p> <p>There are also a number of major clinical trials in progress.</p>	
<i>Structure of academic project/what expected</i> <p>The trainee may undertake a research project in the laboratory. There are also opportunities for clinical projects and to gain experience of clinical trials.</p>	
<i>Clinical commitments during academic placement</i> <p>The academic F2 will be required to be on an out of hours rota at Guy’s and St Thomas’ NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.</p>	
<i>Departmental academic teaching programme (if applicable)</i>  N/A	
<i>Academic Lead:</i>  Dr Michael Robson Consultant nephrologist and Senior Lecturer <a href="mailto:michael.robson@kcl.ac.uk">michael.robson@kcl.ac.uk</a>	

**Programme 18 – Psychological Medicine and Psychiatry – based at King’s College Hospital/Guy’s and St Thomas’ Hospital**

Reference: 2425/KCL/18

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites

<i>Type of programme:</i> Research	
<i>Employing trust:</i> Guy's and St Thomas' NHS Foundation Trust	<i>Academic placement based at:</i> King's College Hospital/Guy's and St Thomas' Hospitals
<i>Brief outline of department</i>	
<p>The Department of Psychological Medicine sits within the division of Academic Psychiatry, part of the Institute of Psychiatry, Psychology and Neuroscience (IoPPN). The IoPPN is a School of King's College London and the largest academic community in Europe devoted to the study and prevention of mental illness and brain disease. The IoPPN comprises three Academic Divisions in Neurosciences; Academic Psychiatry; and Psychological &amp; Systems Sciences. These encompass researchers with interests in addictions, biostatistics, child and adolescent psychiatry, basic and clinical neuroscience, forensic mental health sciences, health service and population research, neuroimaging, psychology, psychological medicine, old age psychiatry and psychosis studies.</p>	
<i>Structure of academic project/what expected</i>	
<p>The successful applicant for the F2 programme can therefore choose from a huge range of fields in which to carry out research. These can be seen on the website of the IoPPN <a href="http://www.kcl.ac.uk/ioppn/divisions/index.aspx">http://www.kcl.ac.uk/ioppn/divisions/index.aspx</a>. This includes general hospital (liaison) psychiatry, neuropsychiatry, epidemiology, psychosis, dementia, PTSD, depression, perinatal psychiatry, neuroimaging, eating disorders, psychological treatment, etc.</p>	
<i>Clinical commitments during academic placement</i>	
<p>The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust which comprises of 1 in 4 weekend twilight shifts and will not affect the academic weekday timetable. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.</p>	
<i>Departmental academic teaching programme (if applicable)</i>	
N/A	
<p><i>Academic Lead:</i> Professor Allan Young Professor of Mood Disorders Interim Vice Dean, Division of Academic Psychiatry <a href="mailto:allan.young@kcl.ac.uk">allan.young@kcl.ac.uk</a></p>	

## Programme 19 – Neurology – based at King’s College Hospital

Code: 2425/KCL/019

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school websites.

<i>Type of programme</i>	
Research	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
King's College Hospital NHS Foundation Trust	King's College Hospital
<i>Brief outline of department including reference to department web site</i>	
<p>The Department of Basic and Clinical Neuroscience at King’s College London and the associated Regional Neurosciences Unit at King’s College Hospital include internationally recognised clinician scientist leaders in epilepsy, neurodegeneration (Alzheimer’s disease and motor neuron disease), headache, neuro-oncology, movement disorders, brain injury, demyelinating disease and functional neurological disorders. Past projects include: neurophysiological studies in motor neuron disease and in models of epilepsy; next generation sequencing projects in motor neuron disease; an RNA expression study in Alzheimer's disease; and stroke in brain tumour patients.</p>	
<i>Structure of academic project/what expected</i>	
<p>This post is particularly suited to those interested in Neurology and Neuropsychiatry.</p> <p>During the research attachment, trainees will be able to choose a supervisor from principal investigators (PIs) in the School of Neurosciences at King’s College London and the Regional Neurosciences Centre, King’s College Hospital. Areas of activity include Mendelian and complex genetics, molecular cell biology, cellular electrophysiology, neuroimaging, proteomics and bioinformatics. During the academic rotation, trainees are encouraged to attend research seminars and other activities organised by the Department of Basic and Clinical Neuroscience, as well as the Clinical Grand Round at King’s College Hospital. The post-holder is expected to teach a Masterclass seminar on the MSc in Clinical Neuroscience, two hours a week, in conjunction with the F2A in Neurology. A list of PIs with brief outlines of their areas of research and likely projects is available at the start of the academic year. Trainees are encouraged to make contact with a range of PIs so that they can select a PI and project at least 3 months prior to starting the research rotation.</p> <p>The associated F2 clinical attachments will be Psychiatry and A&amp;E.</p>	

#### *Clinical commitments during academic placement*

The academic F2 will be required to be on an out of hours rota at Guy's and St Thomas' NHS Foundation Trust. The F2 is expected to attend the monthly F2 teaching and encouraged to engage with other relevant clinical educational events where applicable.

The trainee is expected to attend the Neurology Grand Round at King's College Hospital, and to present a weekly seminar to the Clinical Neurosciences MSc students. Teaching on the MSc is an important component of the post.

#### *Departmental academic teaching programme (if applicable)*

There is a programme of research presentations from the department, a programme of visiting lecturers, and weekly journal clubs and seminars in various research topics. The post-holder is also welcome to attend lectures and seminars from the MSc Clinical Neuroscience and the MSc Neuroscience

#### *Academic Lead:*

Gerald Finnerty  
Senior Clinical Lecturer & Honorary Consultant Neurologist  
[gerald.finnerty@kcl.ac.uk](mailto:gerald.finnerty@kcl.ac.uk)  
[gfinnerty@nhs.net](mailto:gfinnerty@nhs.net)

## 4. KING'S COLLEGE LONDON AND PARTNER TRUSTS

### **KING'S COLLEGE LONDON AND PARTNER TRUSTS**

#### **[Faculty of Life Sciences & Medicine](#)**

As one of the largest and most successful centres for research and education in the UK, we benefit from extensive international and local partnerships that encourage innovative and progressive collaboration.

Educate to inspire and improve.

Our thriving student community consists of more than 5,000 students who are supported by over 500 leading scientists and educators. We deliver courses for talented aspiring clinicians and health professionals in partnership with our NHS partners, including the world-renowned Guy's, King's College and St Thomas' Hospitals.

Research to inform and innovate.

Research is core to what we do and how we educate. We are strategically aligned to King's Health Partners, bringing together academics and clinicians who are committed to ensuring efficient translation and adoption of research innovation into clinical practice.

In the most recent Research Excellence Framework (REF 2014), over 91.8 percent of our research was rated 4 star or 3 stars. The faculty is ranked:



- 14<sup>th</sup> in the world for Pharmacy & Pharmacology (QS World University Rankings 2019)
- 16<sup>th</sup> in the world for Anatomy & Physiology (QS World University Rankings 2019)
- 17<sup>th</sup> in the world for Clinical, Pre-Clinical and Health (Times Higher Education World University Rankings 2019)

The faculty is located at four central London campuses - Guy's Hospital Campus at London Bridge, St Thomas' Hospital and Franklin Wilkins Building at Waterloo and King's College Hospital in South London. Our locations reflect the faculty's close alignment to our NHS partners.

### ***King's Health Partners***

King's Health Partners is one of the UK's eight Academic Health Sciences Centres and brings together a world leading research led university (King's College London) and three NHS Foundation Trusts (Guy's and St Thomas', King's College Hospital and South London and Maudsley).

The partnership brings together more than 40,000 NHS staff with 30,000 students and academics, to translate cutting-edge research into excellent patient care through world-class education and training. King's Health Partners delivers high impact innovation - discovering new insights into disease, transforming diagnostics and unlocking new therapies and digital tools. For more information, visit: [www.kingshealthpartners.org](http://www.kingshealthpartners.org)

### ***Guy's and St Thomas' NHS Foundation Trust***

Guy's and St Thomas' provide 2.6 million patient contacts in acute and specialist hospital services and community services every year. As one of the biggest NHS trusts in the UK, with an annual turnover of almost £1.5 billion, it employs around 17,100 staff. The Trust is able to provide specialist care for services such as cardiac surgery, children's care, oncology, dermatology and ophthalmology. It is committed to becoming the major university hospital in the UK and to staying at the forefront of patient care, teaching and research.

### ***King's College Hospital NHS Foundation Trust***

King's College Hospital NHS Foundation Trust is one of the UK's largest and busiest teaching hospitals, training over 900 dentists, 750 doctors and 300 nurses every year. The Trust is recognised internationally for its work in liver disease and transplantation, neurosciences, cardiac, haemato-oncology, stroke and major trauma. On 1 October 2013, King's took over the running of the Princess Royal University Hospital in Bromley and Orpington Hospital, as well as some services at Beckenham Beacon and Queen Mary's Hospital, Sidcup. The new enlarged organisation has over 12,000 staff and provides over 1 million patient contacts a year. 9,000 babies are delivered by our hospitals each year, and over 750 patients come to our Emergency Departments every day.

King's College Hospital NHS Foundation Trust prides itself as an investor in people and on providing a friendly and supportive climate to enable all staff to achieve their best potential.

## 2-YEAR SPECIALISED FOUNDATION PROGRAMMES AT QUEEN MARY UNIVERSITY OF LONDON (BARTS AND THE LONDON SCHOOL OF MEDICINE AND DENTISTRY)

### 1. INTRODUCTION

There are 8 different speciality-based Specialised Foundation Programmes on offer at Queen Mary University of London (Barts and The London School of Medicine and Dentistry), for which there are 24 places in total.

Successful applicants are recruited to a specific 4-month academic F2 post i.e. academic GUM. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing Trust.

### 2. DETAILS OF TRAINING PROGRAMMES

A spread sheet summarising all of the available programmes is available to download from <https://london.hee.nhs.uk/recruitment/medical-foundation>

Programme Reference	Programme Theme	Based at
2425/QMUL/01	Academic Public Health	Barts and the Royal London Hospitals
2425/QMUL/02	Academic Public Health	Barts and the Royal London Hospitals
2425/QMUL/03	Academic Public Health	Barts and the Royal London Hospitals
2425/QMUL/04	Academic Research (Academic Clinical Pharmacology / Academic Critical Care)	Barts and the Royal London Hospitals
2425/QMUL/05	Academic Research (Academic Clinical Pharmacology / Academic Critical Care)	Barts and the Royal London Hospitals
2425/QMUL/06	Academic Research (Academic Clinical Pharmacology / Academic Critical Care)	Barts and the Royal London Hospitals
2425/QMUL/07	Academic Endocrinology / Diabetes	Barts and the Royal London Hospitals
2425/QMUL/08	Academic Endocrinology / Diabetes	Barts and the Royal London Hospitals
2425/QMUL/09	Academic Endocrinology / Diabetes	Barts and the Royal London Hospitals
2425/QMUL/10	Academic Hepatology	Barts and the Royal London Hospitals
2425/QMUL/11	Academic Hepatology	Barts and the Royal London Hospitals

2425/QMUL/12	Academic Hepatology	Barts and the Royal London Hospitals
2425/QMUL/13	Academic Medical Oncology (with Nuclear Medicine)	Barts and the Royal London Hospitals
2425/QMUL/14	Academic Medical Oncology (with Nuclear Medicine)	Barts and the Royal London Hospitals
2425/QMUL/15	Academic Medical Oncology (with Nuclear Medicine)	Barts and the Royal London Hospitals
2425/QMUL/16	Academic Neurology	Barts and the Royal London Hospitals
2425/QMUL/17	Academic Neurology	Barts and the Royal London Hospitals
2425/QMUL/18	Academic Neurology	Barts and the Royal London Hospitals
2425/QMUL/19	Academic Orthopaedics	Barts and the Royal London Hospitals
2425/QMUL/20	Academic Orthopaedics	Barts and the Royal London Hospitals
2425/QMUL/21	Academic Orthopaedics	Barts and the Royal London Hospitals
2425/QMUL/22	Academic General Practice	Barts and the Royal London Hospitals
2425/QMUL/23	Academic General Practice	Barts and the Royal London Hospitals
2425/QMUL/24	Academic General Practice	Barts and the Royal London Hospitals

The specialised Foundation Programmes are based at Barts Health NHS Trust (Newham and Whipps Cross Hospitals), Barking Havering and Redbridge University Hospitals NHS Trust (Queens Hospital), or Homerton University Hospital NHS Foundation Trust for the F1 year, where you will learn basic medical and surgical skills in a busy hospital, and acquire the necessary clinical competences. The second year (F2) offers 9 posts with an academic link. These comprise 8 posts at Barts and The Royal London site, each containing an opportunity to complete a formal research project, and 1 post at the Whipps Cross site offering training in medical education.

### 3.PLACEMENTS

Successful applicants are recruited to a specific 4-month academic F2 post i.e. academic GUM. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing Trust.

- **Programme 1 – Academic Public Health**
- Reference: 2425/QMUL/01
- Reference: 2425/QMUL/02
- Reference: 2425/QMUL/03

Individual Placement Descriptor (IPD) for the 4-month academic placement  
 Separate IPDs for clinical placements are available on foundation school website

<i>Type of programme</i>	
Academic Public Health	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Barts Health NHS Trust	Whitechapel Campus – Yvonne Carter building
<i>Brief outline of department</i>	
<p>Trainees will work within the Wolfson Institute of Population Health’s Centre for Public Health &amp; Policy (lead Prof Oyinlola Oyebode). The Institute is a world-class grouping of scientists and educators in applied health sciences, including public and global health, health services and primary care research, clinical trials, health policy and economics, health data science, behavioural and social sciences, epidemiology, biostatistics, translational and implementation science.</p>	
<i>Structure of academic project/what expected</i>	
<p>The placement will give the F2 doctor the opportunity to work on a well-defined research project that will be developed according to their interests and the available expertise. This may be a systematic review, secondary data analysis or a qualitative research project. The trainee will be supervised by an experienced researcher to complete this project. It is expected that a written report will be produced with a possible view to subsequent publication.</p> <p>Alongside this, trainees may make a contribution to larger pieces of research already in progress. There will also be an opportunity to gain training and experience in teaching on the MBBS.</p> <p>Trainees will be taught management skills including presenting data and evidence, handling meetings, and persuading and motivating colleagues.</p>	

*Clinical commitments during academic placement*

Working Day Monday – Friday 9am – 5pm

The attachment will comprise practical aspects of public health such as disease outbreak management, reducing health risk and the role of public health within the community. The doctor will be responsible for other specific clinical duties as allocated by consultants including performing other duties in occasional emergencies and unforeseen circumstances.

*Departmental academic teaching programme*

Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well.

In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.

*Academic Leads*

Prof Fiona Walter - Director of the Wolfson Institute of Population Health, and Professor of Primary Care Cancer Research  
[fiona.walter@qmul.ac.uk](mailto:fiona.walter@qmul.ac.uk)

[Prof Oyinlola Oyeboode - Professor of Public Health and Lead of the Centre for Public Health & Policy, Wolfson Institute of Population Health](#)  
[o.oyebode@qmul.ac.uk](mailto:o.oyebode@qmul.ac.uk)

**Programme 2 – Academic Research (Academic Clinical Pharmacology / Academic Critical Care)**

Reference: 2425/QMUL/04

Reference: 2425/QMUL/05

Reference: 2425/QMUL/06

Individual Placement Descriptor (IPD) for the four-month academic placement  
Separate IPDs for clinical placements are available on foundation school website

*Type of programme*

Successful applicants will be able to choose between the following two Academic specialties depending on their interests and following discussions with Academic Programme Leads:

- Academic Clinical Pharmacology OR
- Academic Critical Care

<p><i>Employing Trust:</i></p> <p>Barts Health NHS Trust</p>	<p><i>Academic placement based at:</i></p> <p>Barts and the Royal London Hospitals</p>
<p><i>Brief outline of department</i></p> <p><u>Academic Clinical Pharmacology</u></p> <p>This post is based at the Department of Clinical Pharmacology at Barts and The London, Charterhouse Square campus, with clinical component in St Bartholomew's and Royal London Hospital, and the academic component within the Centre of Clinical Pharmacology and Precision Medicine (<a href="#">CPPM</a>) leads research encompassing all stages of drug development (from bench to bedside) applying precision medicine methods with the objective of improving overall health.</p> <p>The established interdisciplinary research programmes within CPPM allow the trainee to join groups that include <a href="#">clinical scientist</a> and <a href="#">triallist</a>, <a href="#">statistical geneticists</a>, <a href="#">molecular biologists</a>, epidemiologists, <a href="#">statisticians</a>, <a href="#">bioinformaticians</a>, <a href="#">clinicians</a> and <a href="#">basic scientists</a>. The Centre's primary focus is in CV disease, <a href="#">genomics</a>, inflammation and translational medicine, with research projects often involving big-data analysis, pharmacogenetics, bioinformatics, pharmaco-epidemiology and patient-focussed clinical studies. Several of the research groups are host leaders and co-leaders of X and genetic international consortia (such as <a href="#">CTT</a>, BPLTTC, CHARGE, Global Lipids Genetics Consortium, GIANT), substantially enhancing the Centre's reach. Large-scale multicentre studies (<a href="#">ASCOT</a>, PATHWAYS, EMPEROR-reduced) were conducted or are ongoing in the associated <a href="#">clinical research centre</a> and CV clinical trial units (<a href="#">CVCTU</a>), including first-in-man studies and device-based treatment strategies for hypertension.</p> <p><u>Academic Critical Care</u></p> <p>The 44-bed critical care unit at the Royal London currently comprises 20 consultants and incorporates significant surge capacity for COVID-19 ICU to 150 beds. With the ICU the Critical Care &amp; Perioperative Medicine Research Group <a href="https://www.qmul.ac.uk/ccpmg/">https://www.qmul.ac.uk/ccpmg/</a> is led by two professors and 3 Senior Lecturers/ Within our team we have a wide range of research expertise allowing us to tackle research questions through a variety of research methods from laboratory experiments to large clinical trials, epidemiological studies, and qualitative research. Our research is carried out at our hospitals: the Royal London, St Bartholomew's, Newham, Whipps Cross and in the laboratory facilities at the William Harvey Research Institute. Research domains and methodologies include perioperative medicine clinical trials, acute kidney injury, implementation science, genomics, and host response, acquired functional disability, data science, global health and translation research.</p>	

*Structure of academic project/what expected*

Academic Clinical Pharmacology

This academic F2 post provides research, teaching and clinical experience, the balance depending on the individual needs and aspirations of the trainee and on opportunities available when the trainee is on attachment. There are several different opportunities across varied field, from getting involved in pharmacogenomics and precision medicine, getting experience of clinical trials (conduction and regulatory aspects) with novel medications or devices, or being part of large cohort studies, or opportunities in doing work-related to existing databases and or in pharmacoepidemiology / drug utilisation. The trainees are expected to contribute in departmental teaching activities and encouraged for publications. It is expected that trainees should contact the academic clinical lead in advance to seek necessary approvals and agree on the projects that they are interested. There are lots of cross-field project opportunities too, as are about developing better prescribing and medicine safety pathways

Academic Critical Care

This academic F2 post provides a mixture of research and clinical experience, the balance depending on the individual needs and aspirations of the trainee, but will provide the trainee with the knowledge, skills, and attitudes to reach the expected level of competency for an F2.

Academic Clinical Pharmacology

The trainee will attend the weekly Hypertension clinic at St Bartholomew's Hospital. This is a tertiary referral service and provides an excellent opportunity to develop experience in the investigation and management of complex essential and secondary hypertension. There are several monthly or fortnightly meetings and MDTs that are there for drug and therapeutics, medicine safety and polypharmacy, and trainees are encouraged to participate in them. If desired, further clinical experience, can be augmented in the clinical research facility or on cardiovascular medicine wards in Royal London hospital, but those are not essential.

Academic Critical Care

This academic F2 post provides a mixture of research and clinical experience, the balance depending on the individual needs and aspirations of the trainee, but will provide the trainee with the knowledge, skills and attitudes to reach the expected level of competency for an F2.

*Clinical commitments during academic placement*

Academic Clinical Pharmacology

Clinical commitments during academic placement are variable and will be as per the trainee's need and project requirements. They will be tailored for each trainee and may include weekly Hypertension clinic, participation in the clinical research work in terms of patient-facing clinician, and helping with the tertiary referral service that provides an excellent opportunity to develop experience in the investigation and

management of complex essential and secondary hypertension, primary and secondary cardiovascular prevention and similar aspects.

Academic Critical Care

The placement is primarily based on the critical care unit at the Royal London. Arrangements are flexible and will be agreed between trainee and supervisor to give the trainee the best choice of clinical and research experience whilst facilitating their chosen research project.

*Departmental academic teaching programme*

Academic Clinical Pharmacology

Trainees are expected to attend the structured teaching programmes provided by the department and the F2 generic teaching programme (1 day per month) as well as presenting research at academic F2 evenings (2 per year March and June).

The Department has major input to the MBBS programme. The trainee will participate in Problem-Based Learning with Year 1 or Year 2 students, Clinical Pharmacology and Therapeutics (CPT) teaching during Years 3-5, online supervision of CPT student training modules, exam question writing, and student examinations. The activities provide valuable contributions to the F2 e-portfolio as well as audit/evaluation opportunities for trainees interested in Medical Education. The trainees are also given opportunities via QMUL to learn about GCP, using database, scientific writing and similar experience of practical research.

Academic Critical Care

Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well.

In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.

*Academic Leads*

Academic Clinical Pharmacology

Dr Ajay Gupta – Consultant Clinical Pharmacology

[Ajay.gupta@qmul.ac.uk](mailto:Ajay.gupta@qmul.ac.uk)



## Programme 3 – Academic Endocrinology or Diabetes

Reference: 2425/QMUL/07

Reference: 2425/QMUL/08

Reference: 2425/QMUL/09

Individual Placement Descriptor (IPD) for the 4-month academic placement  
Separate IPDs for clinical placements are available on foundation school website  
*Type of programme*

Successful applicants will be able to choose between the following two Academic specialties (or a combination of both) depending on their interests and following discussions with Academic Programme Leads:

- Academic Endocrinology AND/OR
- Academic Diabetes

<i>Employing trust:</i> Barts Health NHS Trust	<i>Academic placement based at:</i> Barts and the Royal London Hospitals
<i>Brief outline of department</i>  <u>Endocrinology</u> The <a href="#">William Harvey Research Institute</a> (WHRI) is an internationally acknowledged centre of excellence in cardiovascular, endocrine and inflammation research with 520 clinicians and scientists focused on therapeutic innovation. In the 2021 Research Excellence Framework 90% of research in the WHRI was rated as world-leading or internationally excellent. The two main areas in which academic foundation year trainees may pursue a project are in adrenal disease and pituitary/peri-pituitary tumours, including craniopharyngioma. These areas of research complement the clinical interests of the endocrine department at St Bartholomew's, which was recently awarded 5* Centre of Excellence status by the European <a href="#">Network for the Study of Adrenal Tumours</a> (ENSAT) and the <a href="#">Pheo Para Alliance</a> . Principle investigators within the WHRI include <a href="#">Professors Morris Brown</a> and <a href="#">William Drake</a> (primary aldosteronism); <a href="#">Professor Paul Chapple</a> and Dr Scott Akker (phaeochromocytoma and paraganglioma); <a href="#">Dr Leo Guasti</a> (adrenal cancer); <a href="#">Professor Márta Korbonits</a> (pituitary tumorigenesis) and <a href="#">Dr Carles Gaston-Massuet</a> (craniopharyngioma).  <u>Diabetes</u> The Wolfson Institute of Population Health is a new interdisciplinary institute within Barts and The London School of Medicine and Dentistry, Queen Mary University of London. This new institute was formed in 2021, bringing together the former <a href="#">Institute for Population Health Sciences</a> and the <a href="#">Wolfson Institute for Preventive Medicine</a> . We deliver world class research and education to drive health system change to improve the health of local, national and global populations. Our Institute provides a friendly, stimulating, interdisciplinary research environment with an excellent track record in research income and high-impact publications, as well as academic training. The Institute is home to <a href="#">Dr Sarah Finer's</a> interdisciplinary research group working on diabetes and multimorbidity, which attracts funding from NIHR and MRC. Dr Finer is also deputy lead of the world-class <a href="#">Genes &amp; Health</a> programme, an internationally renowned	

community-based research programme of health in British Bangladeshis and Pakistanis, which hosts many academic trainees and supports projects in translational genomics and health data science.

#### *Structure of academic project/what expected*

The placement will give the F2 doctor the opportunity to work alongside an experienced researcher/research team on a well-defined research project that will be developed according to their interests and the available expertise. This may be a distinct piece of research such as a systematic review, or analysis of a dataset, or it may be a specific contribution to a larger piece of research already in progress. There will also be an opportunity to gain training and experience in undergraduate teaching.

Examples of projects undertaken/joined by recent academic trainees include: (a) using genetic risk scores to estimate the misclassification of type 1 and type 2 diabetes in British south Asians, (b) studying ultra-rare loss-of-function gene variants to elucidate new biological mechanisms of metabolic health and disease, (c) characterising multimorbidity clusters of cardiometabolic conditions using routine health data, (d) refining the selection of patients for adrenal vein sampling in primary aldosteronism (e) defining the diagnostic accuracy and safety of saline infusion and captopril testing in the investigation of primary aldosteronism (f) investigation simple ways to detect primary aldosteronism in pregnancy (g) analysing quality of life data in a large prospective dataset of patients with primary aldosteronism undergoing adrenalectomy.

#### *Clinical commitments during academic placement*

The primary aim of this placement is to undertake an intensive period of research. However, the academic Foundation Year doctor will be offered bespoke clinical training opportunities according to their individual interests and training needs to ensure that they achieve the necessary competencies at the end of their F2 year. For example, the doctor may wish to undertake a 2 week 'taster' in diabetes and endocrinology or have regular outpatient experience in the speciality.

#### *Departmental academic teaching programme*

The department has an Endocrine Club Seminar, Clinical Journal Club or Clinical Audit and Research meeting as well as weekly Research updates.

Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well. In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.

#### *Academic Leads:*

Professor Will Drake - Consultant  
Endocrinologist  
[w.m.drake@qmul.ac.uk](mailto:w.m.drake@qmul.ac.uk)

Dr Sarah Finer - Consultant Physician  
[s.finer@qmul.ac.uk](mailto:s.finer@qmul.ac.uk)

## Programme 4 – Academic Hepatology

Reference: 2425/QMUL/10

Reference: 2425/QMUL/11

Reference: 2425/QMUL/12

Individual Placement Descriptor (IPD) for the 4-month academic placement  
Separate IPDs for clinical placements are available on foundation school website

<i>Type of programme</i>	
Academic Hepatology	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Barts Health NHS Trust	The Royal London Hospitals
<i>Brief outline of department</i>	
<p>Barts Liver Centre is part of the QMUL's Blizard Institute and consists of over 40 basic and clinical scientists, doctors and nurses. Group leaders, Professors Alazawi and Kennedy We have teams with interests in all aspects of liver disease with world-leading programs of research examining immunology, metabolism, and inflammation in the context of fat-induced liver injury and viral hepatitis.</p> <p>Barts Liver Centre has an excellent track record of top-level funding and fellowships from the Medical Research Council, Academy of Medical Sciences, National Institute of Health Research and Wellcome Trust and publications in leading journals: Nature Medicine, PNAS, Gastroenterology, Journal of Hepatology and BMC Medicine and the BMJ.</p> <p>We have made significant scientific advances in our understanding of liver disease mechanisms in basic science and translational settings. Our work has advanced our understanding of the epidemiology of liver disease worldwide and we have worked closely with our local Bangladeshi community to widen our understanding of ethnicity in liver disease. We are a major clinical trials site with particular expertise in Hepatitis B trials (many of which we lead) and non-alcoholic steatohepatitis.</p> <p>The Centre collaborates with clinical departments of Diabetes and Obesity, Bariatric Surgery, Paediatrics and Virology and has links to other liver centres in London, including an active transplantation program with The Royal Free Hospital. We have a long-standing interest in working in the global community and we run active clinical programmes in Zambia and in Pakistan.</p> <p>This programme of study has led to impactful changes to the design of international clinical trials and the care of patients with liver disease in updated guidance and clinical pathways.</p>	

<p><i>Structure of academic project/what expected</i></p> <p>The post holder will join one of the clinical/academic groups and will be supported to choose an appropriate programme based on current interests. They will develop a research project under the supervision of one of the senior academics and work alongside the team towards their objectives.</p>
<p><i>Clinical commitments during academic placement</i></p> <p>The placement is primarily for research but there will be opportunities to work with the clinical team and assist in the management of patients with conditions relevant to the on-going research project.</p>
<p><i>Departmental academic teaching programme</i></p> <p>Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well.</p> <p>In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.</p>
<p><i>Academic Lead</i></p> <p>Professor William Alazawi  <a href="mailto:w.alazawi@qmul.ac.uk">w.alazawi@qmul.ac.uk</a></p>

### **Programme 5 – Academic Medical Oncology (with Nuclear Medicine)**

Reference: 2425/QMUL/13

Reference: 2425/QMUL/14

Reference: 2425/QMUL/15

Individual Placement Descriptor (IPD) for the 4-month academic placement

Separate IPDs for clinical placements are available on foundation school website

<p><i>Type of programme</i></p> <p>Academic Medical Oncology (with Nuclear Medicine)</p>	
<p><i>Employing trust:</i></p> <p>Barts Health NHS Trust</p>	<p><i>Academic placement based at:</i></p> <p>Barts and the Royal London Hospitals</p>
<p><i>Brief outline of department</i></p> <p>Medical Oncology  St Bartholomew’s Hospital (Ward 5B) and the Centre for Molecular Oncology in Barts Cancer Institute at Charterhouse Square (<a href="http://www.bci.qmul.ac.uk">www.bci.qmul.ac.uk</a>)</p>	

The Department comprises of 20 consultants, all with academic appointments, providing care for various malignancies including bone marrow transplantation.

In Oncology, particular emphasis is placed upon good symptom control in patients with advanced disease, especially pain control. Additionally, trainees will learn about the management of oncological emergencies, such as spinal cord compression and hypercalcaemia, and how to recognise and manage of the complications of cancer treatment, such as mucositis and neutropaenic fever.

#### Nuclear Medicine

The Nuclear Medicine Department at Barts Health is providing diagnostic, and therapy services across three site St Bartholomew's, Royal London and Whipps Cross Hospital. The SFP fellow will be based at the PET Imaging Centre, St. Bartholomew's Hospital. The Department is working closely with clinicians in the framework of clinical indications and research but also with Queen Mary University. There are in total 5 SPECT-CT cameras and two PET-CT scanners across sites. Our multidisciplinary team includes medical scientists, doctors, technologists, radiographers, radiopharmacists and nurses. The Clinical Lead is Dr Ewa Nowosinska and the Head of the Department is Mrs Busola Ade-Ojo. We have teams with interests in oncology, cardiology, and endocrinology.

We have made advances in radionuclide therapies in the framework of international several research projects with Lu-177PSMA (Vision Trial), two more in progress) This programme has led to significant changes in the design of clinical pathway for patients with metastatic prostate cancer in UK. We are actively working on implementation of Selective Internal Radiation Therapy (SIRT) in various clinical indications (HCC, metastatic colorectal cancer) and research projects for metastatic neuroendocrine tumours (ARTISAN trial).

Our previous Specialised Foundation Programme fellows had successful presentations at the national and international conferences and publications in national and international medical journals (BNMS, EANM, SNM).

#### *Structure of academic project/what expected*

In conjunction with the attachment to Nuclear Medicine, trainees will be encouraged to participate in ongoing research projects, specifically related to PET/CT imaging will be strongly encouraged. The PET Centre is exploring novel molecular imaging strategies from the preclinical development to the clinical evaluation specifically related to novel treatments such as gene therapy. Trainees will be involved in data collection and analysis within these trials.

*Clinical commitments during academic placement*

Working Day Monday – Friday 9am – 5pm

The post will embrace inpatient care of patients with a wide range of solid malignancies as well as exposure to translational research in Medical Oncology. Multidisciplinary team working is of particular importance in Medical Oncology and trainees will be expected to appreciate the need for advice from other specialities, especially Palliative Care, Radiotherapy and Surgery. Expert knowledge of and prescribing of chemotherapy is not expected at F2 level.

Training in Nuclear Medicine Department would include understanding the clinical, physiological, pathophysiological aspects of the speciality with particular focus on oncology imaging and the therapy. The candidate will gain understanding of manufacturing of radiopharmaceuticals, along with exposure to the planar, SPECT/CT and PET/CT imaging. There will be a great opportunity to acquire experience in physiological and pathological appearances in PET/CT and scintigraphy imaging relevant to the oncology project and beyond. The candidate will be exposed to various PET tracers used in oncology and their normal and abnormal pattern of distribution, in both functional and anatomical imaging and its relevant pitfalls as well as normal variants. In addition, there will be an opportunity to report available scans under supervision and participate in radionuclide therapy.

*Departmental academic teaching programme*

Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well. In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.

*Academic Leads*

Prof John Gribben  
Consultant Medical Oncology  
[j.gribben@gmul.ac.uk](mailto:j.gribben@gmul.ac.uk)

Dr Ewa Nowosinska  
Consultant Nuclear Medicine  
[e.nowosinska@nhs.net](mailto:e.nowosinska@nhs.net)

## Programme 6 – Academic Neurology

Reference: 2425/QMUL/16

Reference: 2425/QMUL/17

Reference: 2425/QMUL/18

Individual Placement Descriptor (IPD) for the 4-month academic placement  
Separate IPDs for clinical placements are available on foundation school website

<i>Type of programme</i>	
Academic Neurology	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Barts Health NHS Trust	The Royal London Hospitals
<i>Brief outline of department</i>	
<p>There are 16 consultant neurologists of which 3 are based primarily at Whipps Cross Hospital and 1 at Newham.</p> <p>There are 10-15 dedicated neurology beds on the new neuroscience unit and 3 video-EEG telemetry beds. The adult intensive care unit deals with many neuro-emergency cases per year and there are dedicated operating theatres as part of the main theatre suite. There is also a 12 bedded hyperacute stroke unit plus a 14-bedded stroke unit situated on the third floor.</p> <p>Sub-specialisation within the department includes epilepsy, stroke, movement disorders, headache, multiple sclerosis, neuro-rehabilitation and neuro-muscular/peripheral nerve/MND.</p>	
<i>Structure of academic project/what expected</i>	
<p>Headed by Professor Gavin Giovannoni, the internationally recognised Centre for Neuroscience and Trauma has approximately 85 research active staff and PhD students. The Centre's strategic research is focused on five broad themes:</p> <ul style="list-style-type: none"><li>• trauma sciences,</li><li>• neurotrauma and neurodegenerative disorders,</li><li>• neuroimmunology,</li><li>• stem cells, regeneration and cancer and</li><li>• genomics and cancer.</li></ul> <p>The Centre's themes have been mapped onto clinical academic units within Barts Health NHS Trust with many of its staff actively involved in clinical research, including phase 2 and 3 clinical trials. The research themes have been created with the specific aim of creating partnerships between basic scientists and clinicians to encourage translational research.</p>	

<p><i>Clinical commitments during academic placement</i></p> <p>Typical work pattern will depend on the Departmental timetable and will need to be flexible for training purposes; for example on a Thursday the trainee will be expected to attend the neuro-radiology round that starts at 8am.</p>
<p><i>Departmental academic teaching programme</i></p> <p>Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well.</p> <p>In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.</p>
<p><i>Academic Lead</i></p> <p>Professor Gavin Giovannoni - Academic Lead  <a href="mailto:g.giovannoni@qmul.ac.uk">g.giovannoni@qmul.ac.uk</a></p> <p>Dr Afraim Salek-Haddadi - Service Lead  <a href="mailto:a.salek-haddadi@nhs.net">a.salek-haddadi@nhs.net</a></p>

**Programme 7 – Academic Orthopaedics**

Reference: 2425/QMUL/19  
Reference: 2425/QMUL/20  
Reference: 2425/QMUL/21

Individual Placement Descriptor (IPD) for the 4-month academic placement  
Separate IPDs for clinical placements are available on foundation school website

<p><i>Type of programme</i>  Academic Orthopaedics</p>	
<p><i>Employing trust:</i>  Barts Health NHS Trust</p>	<p><i>Academic placement based at:</i>  The Royal London Hospital</p>
<p><i>Brief outline of department</i></p> <p>Barts Bone &amp; Joint Health is a new entity, led by Professor Xavier Griffin, part of QMUL’s Blizard Institute and Barts Health NHS Trust. Our mission is to improve the health and wellbeing of people with bone &amp; joint disorders and injuries. Orthopaedics benefits from a collaborative relationship with the <a href="#">trauma research group</a> and is part of the Centre of Trauma and Neurosciences within the Blizard Institute. This is in combination with a wider collaboration to compliment the work of Prof Knowles in Surgery and Prof Pearse in Peri-operative Care. We work closely with the Pragmatic Clinical Trials Unit which has <a href="#">widespread expertise</a> in the conduct of pragmatic trials testing clinical</p>	



effectiveness. The associated NHS hospitals of Barts Health are the busiest major trauma and [emergency centres in the UK](#).

Orthopaedics and wider musculoskeletal health are key priorities for the NIHR. Our research is cross cutting and spans classical randomised clinical trials, systematic reviews, data enabled randomised controlled trials and health data informatics and device epidemiology.

Whilst our unit is new we are well positioned to deliver outstanding academic training. The University has widespread expertise in the conduct of trials of complex interventions, using complex designs such as [cluster and step-wedge](#). The group has specific expertise in conducting hip fracture platform trials, now including [42 hospitals and 28,000 participants](#). Coupled with this we have local expertise in perioperative multimodal interventions and their [testing within the NHS](#).

We work closely with the local population through established relationships with [local charities](#), local [health organisations](#) and through established University [infrastructure](#). This forms a key component of our work in [increasing the representation of underserved](#) populations in research design and delivery.

We collaborate with other groups within QMUL including [rheumatology](#), the [clinical effectiveness group](#) and the new formed [digital environment research institute](#). In addition we collaborate with units [nationwide](#) and across Europe.

All of our research is centred delivering tangible benefits to patient care. Work previously undertaken has led to changes in the way hip fracture is managed, how devices are monitored and bridging the gap between clinical and research data.

Professor Xavier Griffin has an excellent track record of top-level funding and fellowships from the National Institute of Health Research in addition to being a mentor for the NIHR and Royal College of Surgeons of England Associate Principal Investigator and Associate Surgical Specialty Lead schemes. Both these opportunities provide career development and mentorship for aspiring surgeon scientists.

#### *Structure of academic project/what expected*

The post holder will be supported to choose an appropriate programme based on current interests. They will develop a research project under the supervision of one of the senior academics and work alongside the team towards their objectives.

#### *Clinical commitments during academic placement*

The placement is primarily for research but there will be opportunities to work with the clinical team and assist in the management of patients with conditions relevant to the on-going research project.

#### *Departmental academic teaching programme*

Trainees will be expected to attend a structured teaching programme led by Prof Xavier Griffin for all specialised foundation doctors. The comprehensive teaching programme will involve structured classroom and practical training in research design, delivery, ethics public engagement, manuscript preparation and dissemination. The programme will encourage peer learning with opportunity for discussion and appraisal of research ideas in addition to skills development such as

presentation, critical appraisal, academic rigour, and wider methodologies. Our goal is to equip trainees with a solid foundation to build upon their clinical academic career.

Each trainee joining the group will have individualised training and mentoring. Weekly team meetings will provide opportunity to present and refine research ideas.

*Academic Lead*

Professor Xavier Griffin – Chair of Bone and Joint Health

[X.Griffin@qmul.ac.uk](mailto:X.Griffin@qmul.ac.uk)

**Programme 8 – Academic General Practice**

Reference: 2425/QMUL/22

Reference: 2425/QMUL/23

Reference: 2425/QMUL/24

Individual Placement Descriptor (IPD) for the 4-month academic placement

Separate IPDs for clinical placements are available on foundation school website

<i>Type of programme</i>	
Academic General Practice	
<i>Employing trust:</i>	<i>Academic placement based at:</i>
Barts Health NHS Trust	Wolfson Institute of Population Health
<i>Brief outline of department</i>	
<p>The <a href="#">Wolfson Institute of Population Health</a> is a new interdisciplinary institute within Barts and The London School of Medicine and Dentistry, Queen Mary University of London. We deliver world-class research and education to drive health system change to improve the health of local, national and global populations.</p> <p>Our Institute provides a friendly, stimulating, interdisciplinary research environment with an excellent track record in research income and high-impact publications. Our Institute has recently joined the prestigious <a href="#">NIHR School for Primary Care Research</a>, is host to the Translational Research Unit of the MRC Asthma UK Centre in Allergic Mechanisms of Asthma, and hosts a <a href="#">WHO Collaborating Centre for Social and Community Psychiatry</a>. Research within the Institute spans a broad range of clinical areas and academic disciplines, including asthma, COPD, cancer, TB, HIV, type 2 diabetes, mental health, multimorbidity, public and global health, women’s health, personalised medicine, polypharmacy, multimorbidity, translational genomics, and health data science.</p> <p>We have particular strengths in community-based research and engagement, focused on the health needs of our diverse local population who are from groups traditionally underrepresented in research. For example, we co-host <a href="#">Genes &amp; Health</a>, an internationally renowned community-based research programme of health in British Bangladeshis and Pakistanis.</p>	

Our Institute proactively supports Equality, Diversity and Inclusion and has a wide range of initiatives supporting a positive research culture.

*Structure of academic project/what expected*

The placement will give the F2 doctor the opportunity to work one of our well-established research groups, according to their interests and the expertise of our researchers (see above and relevant links). The F2 doctor will work alongside an experienced researcher/research team on a well-defined research project that will be developed according to their interests and the available expertise. This may be a distinct piece of research such as a systematic review, or analysis of a dataset, or it may be a specific contribution to a larger piece of research already in progress. There will also be an opportunity to gain training and experience in undergraduate teaching.

Examples of projects undertaken/joined by recent postholders include: (a) using genetic risk scores to estimate the misclassification of type 1 and type 2 diabetes in British south Asians, (b) a realist review to evaluate the implementation of social prescribing in primary care, (c) a qualitative study to understand barriers to accessing primary healthcare by migrants and asylum seekers. We expect the majority of postholders to contribute to, or to lead, a research publication from their placement.

As a member of the NIHR School of Primary Care Research, our Institute is part of a prestigious national network of academic institutions, bringing with it research expertise and training opportunities. Each academic Foundation Year doctor will be offered individualised support and mentorship from the Academic Lead to support their future career path into clinical academia. The Institute has a thriving and successful NIHR Integrated Academic Training programme, and the F2 doctor will be offered opportunities to meet with our Academic Clinical Fellows and Clinical Lecturers, as well as senior academics, for mentorship and informal networking.

*Clinical commitments during academic placement*

The primary aim of this placement is to undertake an intensive period of research. However, the academic Foundation Year doctor will be offered bespoke clinical training opportunities according to their individual interests and training needs to ensure that they achieve the necessary competencies at the end of their F2 year. For example, the doctor may wish to undertake a 2 week 'taster' in general practice, and this can be arranged with a local training practice in Tower Hamlets CCG. The opportunity to undertake alternative 'taster' placements in others specialities can also be discussed with the academic programme lead.

*Departmental academic teaching programme*

Trainees are expected to attend the academic meetings and clinical teaching programmes provided by the department and the F2 generic teaching programme. They will have the opportunity to present their research findings internally and, if suitable, externally as well.

In addition to training in the relevant clinical medicine speciality, fellows will have the opportunity to gain training in research ethics, good research practice, scientific writing including grant applications and career development.

#### *Academic Leads*

Prof Fiona Walter - Director of the Wolfson Institute of Population Health, and Professor of Primary Care Cancer Research  
[fiona.walter@qmul.ac.uk](mailto:fiona.walter@qmul.ac.uk)

Dr Sarah Finer  
Academic lead for the NIHR IAT primary care programme  
[s.finer@qmul.ac.uk](mailto:s.finer@qmul.ac.uk)

## **THE MEDICAL SCHOOL AND PARTNER TRUSTS**

### ***Barts and the London School of Medicine and Dentistry***

Barts and The London offers international levels of excellence in research and teaching while serving a population of unrivalled diversity.

Through partnership with our linked trusts - Barts Health NHS Trust, and our associated University Hospital Trusts (Homerton and Queen's) the School's research and teaching is informed by an exceptionally wide ranging and stimulating clinical environment.

At the heart of the School's mission lies world class research, the result of a focused programme of recruitment of leading research groups from the UK and abroad and a £100 million investment in state-of-the-art facilities within Queen Mary University.

Research is focused on translational research, cancer, cardiac, dentistry, inflammation, endocrinology/ metabolism, immunology and infectious diseases, genomics, neuroscience, gastroenterology, epidemiology and primary care.

The School is nationally and internationally recognised for research in these areas, reflected in the £40 million it attracts annually in research income. Its fundamental mission, with its partner NHS Trusts, and other partner organisations, such as CR-UK, is to ensure that the best possible clinical service is underpinned by the very latest developments in scientific and clinical teaching, training and research.

The School is organised into the following research and education Institutes:

- [Barts Cancer Institute](#)
- [Blizard Institute of Cell and Molecular Science](#)
- [Institute of Health Sciences Education](#)
- [Institute of Dentistry](#)
- [William Harvey Research Institute](#)
- Wolfson Institute of Population Health

The School is also home to the first [Cancer Research UK Clinical Centre](#) to be established which takes an innovative 'molecules to patient' approach to research.

### ***Barts Health NHS Trust***

Barts Health NHS Trust was created on 1 April 2012 following the approved merger of Barts and The London NHS Trust, Newham University Hospital NHS Trust and Whipps Cross University Hospital NHS Trust. It is one of the biggest and busiest NHS Trusts in the UK with unique opportunities available at its sites:

Whipps Cross University Hospital provides 760 beds on a single site within the London Borough of Waltham Forest.

The Newham University Hospital site in Plaistow has seen substantial investment over the past few years with new buildings and many environmental improvements. The site is caring for one of the youngest, fastest growing and most diverse populations in the country.

Parts of Barts Health are undergoing the largest and most complex hospital redevelopment project in the world. The £1 billion programme is replacing many of the hospitals' ageing buildings with state-of-the-art healthcare facilities to rival the best in Europe.

The Royal London Hospital and St Bartholomew's Hospital alone:

- Admit over 84 000 patients a year
- Undertake over 93 000 operations a year
- Treat over 103 000 patients a year in the Accident and Emergency Department
- See over 467 000 outpatients a year
- Employ some 6000 staff

The Royal London is Britain's biggest new hospital, providing general and specialist services to the population of east London and beyond. The historic buildings of St. Bartholomew's, Britain's oldest hospital, are being refurbished, alongside a major new building, creating the Cancer and Cardiac Centre of Excellence.

Bart's Health has six Clinical Academic Groups (CAGs) which include hundreds of clinicians from each of the hospitals. The CAGs listed below include a wide range of medical, surgical and emergency specialties, many of which are recognised as being at the leading edge of progress. The quantity of acute medical cases is substantial.

- Cancer
- Cardiovascular
- Clinical support services
- Emergency Care and Acute Medicine
- Surgery
- Women's and Children's Health

Barts Health has continued to develop as a major centre of educational and clinical excellence. Working closely with the School of Medicine and Dentistry, the Trust provides high quality teaching to undergraduate medical and dental students during

their local placements as well as providing postgraduate training. There is an extremely close working relationship between the Trust and the School of Medicine.

More information can be found at <http://www.bartshealth.nhs.uk/>

***Barking, Havering and Redbridge University Hospitals NHS Trust***

Barking, Havering and Redbridge University Hospitals NHS Trust serves a population of around 700,000, from a wide range of social and ethnic groups, making it one of the largest acute hospital trusts in England.

The trust has two main hospitals. Queen's Hospital in Romford which opened in 2006 and King George Hospital, built in 1993. It also serves clinics across outer north east London and runs some services from Barking Hospital.

It operates two Emergency Departments at King George and Queen's hospitals, and a full range of local hospital services. In addition, Queen's offers a cancer centre, regional neuroscience centre and Hyper Acute Stroke Unit to provide specialist care.

More information can be found at <http://www.bhrhospitals.nhs.uk/>

***Homerton University Hospital NHS Foundation Trust***

Homerton provides hospital and community services to the people of Hackney, the City of London and beyond.

It also provides specialist care in obstetrics, neonatology, foetal medicine, fertility, laparoscopic surgery, obesity surgery, asthma and allergy treatments, HIV and neuro-rehabilitation.

It provides a wide range of adult and children's community health services across Hackney and the City, with staff working out of 75 different sites.

The hospital has over 450 inpatient beds, an Emergency department, an intensive care unit, state-of-the-art imaging and x-ray facilities, a modern sexual health treatment centre, diabetes centre and eye screening service. Over 120,000 people attend the Emergency Department every year and it is expected that 6,000 babies are born at the hospital.

More information can be found at <http://www.homerton.nhs.uk/>

## 2-YEAR SPECIALISED FOUNDATION PROGRAMMES AT ST GEORGE'S UNIVERSITY OF LONDON (SGUL)

### 1. INTRODUCTION

There are 12 programme themes with each theme offering a place for 1 trainee. A total of 12 programmes is available.

Successful applicants are recruited to a specific 4-month academic F2 post e.g., Academic Renal Medicine. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competencies. Applicants should note that clinical placements are subject to change dependent on service need and provisional until confirmed by the employing Trust.

### 2. DETAILS OF TRAINING PROGRAMMES

Programme Reference	Programme Theme	Based at
2425/SGUL/01	Renal Medicine	St George's Hospital
2425/SGUL/02	Primary Care	St George's Hospital
2425/SGUL/03	Rheumatology	St George's Hospital
2425/SGUL/04	Critical Care Medicine	St George's Hospital
2425/SGUL/05	Paediatric Orthopaedics	St George's Hospital
2425/SGUL/06	Neurosurgery	St George's Hospital
2425/SGUL/07	Paediatrics	St George's Hospital
2425/SGUL/08	Emergency Medicine	St George's Hospital
2425/SGUL/09	Vascular Surgery	St George's Hospital
2425/SGUL/10	Cardiology	St George's Hospital
2425/SGUL/11	Infectious Diseases	St George's Hospital
2425/SGUL/12	Clinical Pharmacology	St George's Hospital

### 3. POSTS

Information regarding specific programmes is provisional and may be subject to change. Precise details of rotations are subject to service delivery requirements of the NHS and subsequent confirmation by the employing Trust.

## Programme – Renal Medicine – based at St George’s Hospital

Reference: 2425/SGUL/01

<i>Type of programme:</i> Research and/or teaching	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George’s, University of London
<i>Brief outline of department</i>  The Renal and Transplantation Unit provides tertiary service at St. George’s with 8 Nephrologists, and 8 Renal Transplant Surgeons. This is a tertiary service including 160-180 new renal transplants annually. There are two clinical academics in Renal Medicine which is in the Molecular and Clinical Sciences Research Institute in St George’s, University of London: Professor Debasish Banerjee leads research projects and randomised controlled trials on cardiovascular complications of chronic kidney disease. Dr Vasantha Muthuppalaniappan has a major interest in medical education and clinical research.	
<i>Structure of academic project/what expected</i>  The Specialised F2 trainee in Renal Medicine will spend 4 months working with Professor Debasish Banerjee on a project based on “cardiovascular complications of chronic kidney disease”. The trainees will be involved in clinical research with patients. The project may involve investigating patients, using ultrasound techniques in the vascular laboratory including brachial artery flow mediated dilatation, carotid intima-media thickness and carotid-femoral pulse wave velocity, ECG monitoring and laboratory assessments. Training and experience in the regulatory aspects and conduct of clinical research will be provided. Previous trainees have been successful with peer reviewed first author publications, international and national conference presentations, research training grants and NIHR IAT posts in renal medicine. There will be opportunities to undertake a descriptive clinical project/audit. Involvement in teaching is encouraged and there is the opportunity to register for the St. George’s, University of London Postgraduate Certificate in Healthcare and Biomedical Education.	
<i>Clinical commitments during academic placement</i>  There will be no routine service commitment but there will be involvement in patient care through clinical studies.	
<i>Departmental academic teaching programme (if applicable)</i>  Weekly Academic Meeting with opportunity to present research data	
<i>Academic Lead:</i> Professor Debasish Banerjee dbanerje@sgul.ac.uk	



## Programme – Primary Care – based at St George’s Hospital

Reference: 2425/SGUL/02

Type of programme	
Clinical and Educational Primary Care Research	
Employing trust:	Academic placement based at:
St George's University Hospital NHS Foundation Trust	Public Health Research Institute/Institute of Medical and Biomedical Education St George’s, University of London.
<b>Brief outline of department</b>	
<p>Appointees will be hosted within the <a href="http://sgul.ac.uk">Population Health Research Institute PHRI (sgul.ac.uk)</a> with supervision jointly from both PHRI and Institute for Medical and Biomedical Education (IMBE) primary care academics. PHRI produces highly rated research focusing on primary care epidemiology, cardiovascular disease, type 2 diabetes, polypharmacy, physical activity, women’s health, and primary care genomics. This thriving, friendly, multidisciplinary institute runs a busy research programme with 12 professors, eight academic clinical GP fellows, an academic clinical lecturer in primary care, MD/PhD students, backed by social scientists, epidemiologists, statisticians, psychologists and academic physiotherapists. PHRI has strong expertise in primary care data analyses, complex behavioural interventions, randomised controlled trials, cohort studies, systematic reviews, health services research, preventive medicine and ethnic and social inequalities. Past academic trainees have been involved with some of these ongoing research projects or collaborated with the Institute of Infection and Immunity on the intersection of primary care and migrant health.</p> <p>As well as doing research, appointees can be involved with teaching through the Institute for Medical and Biomedical Education (IMBE). They will have the opportunity to develop their educational skills by helping to develop and/or deliver the MBBS Curriculum and Physician Associate programme. Trainees will be supervised within the Primary Care Education Group which has a track record in the academic training of both clinical and academic GP trainees as well as qualified GP ‘SPIN’ Fellows. Currently the group is supervising academic trainee projects on MBBS curriculum development; a systematic review of handover teaching; a trial of new educational resources for dermatology teaching; and developing a resource to enable teachers to teach using remote clinical consultations. This latter project won an educational presentation prize at a National Primary Care Conference. The group is also supervising student projects on the research experience of medical students and was recently awarded funding for a phenomenological study of the experience of clinical undergraduates on patient cohort handover.</p> <p>All appointees are members of George’s Academic Training (<a href="http://sgul.ac.uk">St George's Academic Training (GAT) (sgul.ac.uk)</a>) where they can network and learn with other trainees. SGUL has an annual Research Conference and an annual Education conference at which appointees are encouraged to present. They are also encouraged to present at the Society for Academic Primary Care local and national conferences, or conferences relevant to research interests.</p>	

**Structure of academic project / what expected**

The Primary Care Education Group (PCEG) and Population Health Research Institute (PHRI) have long experience of supervising academic Foundation trainees. All trainees have an academic skills needs assessment at the start of AFY1. They are encouraged to develop educational and clinical areas of interest during AFY1 year and will be linked with relevant research supervisor(s) for research projects. Some trainees have pre-existing academic projects which they wish to pursue which are co-supported by PCEG/PHRI. Others are offered academic projects related to their career interests and/or the research activities in PHRI and IMBE. Trainees have regular meetings with their academic supervisor and continuing support in completing, presenting and publishing their projects. There is also the opportunity to register for the SGUL Postgraduate Certificate in Research or for a Postgraduate Certificate in Education.

PHRI/IMBE have three primary care professors and a reader with a strong track record in supporting trainees applying successfully for Academic Clinical Fellowships, Clinical Teaching Fellows and NIHR In-practice Fellowships (IPF) (2021 and 2023), MDs and have recently been awarded an Academic Clinical Lecturer post in Primary Care..

Other recent success stories for FY2s supervised by our group include publishing first author educational articles in the British Medical Journal, publishing a systematic review and meta-analysis ([Videoconferencing to deliver genetics services: a systematic review of telegenetics in light of the COVID-19 pandemic - PubMed \(nih.gov\)](#)) and developing a lecture series to support SGUL undergraduates applying for the academic foundation programme. This led to an upsurge in academic Foundation applications and SGUL having the third highest number of academic trainees appointed in London and the South East. Past trainees have also written handbooks on research for undergraduates, performed pilot studies, answered research questions using survey methodologies, and quality improvement projects.

**Clinical commitments during academic placements**

Academic FY2s spend 40% of their week working under supervision in a GP surgery. They are encouraged to develop a piece of work around quality improvement during the clinical placement.

**Departmental academic teaching programme meetings if applicable**

Appointees are invited to monthly academic GP meetings as well as to weekly PHRI research seminars throughout the programme. They will be also invited to educational innovation and research meetings in IMBE.

Academic lead

Dr Imran Rafi [irafi@sgul.ac.uk](mailto:irafi@sgul.ac.uk)

## Programme – Rheumatology – based at St George’s Hospital

Reference: 2425/SGUL/03

Type of programme	
Research	
Employing trust:	Academic placement based at:
St George's University Hospital NHS Foundation Trust	St. George’s, University of London
Brief outline of department	
<p>The Rheumatology Unit at St George’s is a tertiary centre for Rheumatology care, which delivers care provided by 8 Rheumatologists, 4 Musculoskeletal Radiologists, an infusion suite which provides regional services for delivery of biologic drugs, a regional centre for DEXA scans, including 2 dedicated DEXA scanners, 3 new 3 Tesla MRI scanners housed next to our clinical facility: the Hotung Centre for Musculoskeletal Diseases, which is a leading regional centre for Rheumatology care.</p> <p>There are broad ranging clinical research interests in the department, including studies in rheumatoid arthritis, novel biologic trials, pain research, osteoarthritis and bone research.</p> <p>The academic unit is led by Professor Nidhi Sofat, Professor of Rheumatology. Prof Sofat is supported by research staff including Professor of Imaging, Professor Franklyn Howe, research assistants, academic clinical fellows, PhD students and research lecturers. Current research projects include clinical trials in rheumatoid arthritis (BIORA-PAIN), osteoarthritis (PAPO), Early Biomarkers for Arthritis Pain (ARPAIN) and commercial trials with companies including Eli Lilly, Bristol Myers Squibb and Pfizer.</p>	
Structure of academic project/what expected	
<p>The Specialised F2 trainee in Rheumatology will spend 4 months working with Professor Nidhi Sofat on a project based on “how inflammation correlates with pain in rheumatic diseases”. The trainee will be involved in clinical research with patients. The project may involve investigating patients, using ultrasound and MRI techniques, pain assessment using patient-related outcome measures and quantitative sensory testing, and laboratory assessments. Training and experience in the regulatory aspects and conduct of clinical research will be provided. Previous trainees have been successful with peer reviewed first author publications, international and national conference presentations, research training grants and NIHR IAT posts in rheumatology. There will be opportunities to undertake a descriptive clinical project/audit. Involvement in teaching is encouraged and the trainee will be expected to enrol on the PGcert in Research Skills and Methods at St. George’s, University of London.</p>	

Clinical commitments during academic placement
There will be no routine service commitment but there will be involvement in patient care through clinical studies.
Departmental academic teaching programme (if applicable)
Weekly Academic Meeting with opportunity to present research data
Academic Lead: Professor Nidhi Sofat nsifat@sgul.ac.uk

### Programme – Critical Care – based at St George’s Hospital

Reference: 2425/SGUL/04

<i>Type of programme</i> Research	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George’s, University of London
<i>Brief outline of department</i> The Adult Critical Care directorate currently provides 60, level 2 and 3 beds spread across three separate units, General (GICU), Cardiothoracic (CTICU) and Neuro (NICU) intensive care. We provide a diverse range of specialist services, including major trauma, advanced cardiovascular support (VA-ECMO) and peri-operative support following major neuro-, cardio-thoracic and general surgery. We have a large research group who support NIHR portfolio studies, and a number of consultants are jointly appointed clinical academics with their own research programs. The directorate has a track record of developing clinical academic careers with a number of consultants appointed following PhD training at St George’s.	
<i>Structure of academic project/what expected</i> It is our anticipation that the specialised foundation trainee will work with clinical academics in the department during foundation year one to design a bespoke research experience that will suit their research interests and learning needs. This may involve joining ongoing research activity or participating in the design of their own work. Current research projects within the department include: <ul style="list-style-type: none"> <li>- Understanding the effect of critical illness on drug pharmacokinetics (in-vivo and in-vitro)</li> <li>- Describing the clearance of drugs during extra-corporeal support (renal replacement therapy and ECMO)</li> <li>- Modelling and simulation of drug dosing strategies during critical illness</li> <li>- Use of large datasets to investigate outcomes following critical care</li> <li>- Haemodynamic profiling in cardiogenic shock and response to treatment. Investigating echocardiographic and pulmonary artery catheter markers and their impact on treatment</li> </ul> Learning and development opportunities:	

Again, these are expected to be tailored to the individual trainee. However, opportunities include:

- Data analytical skills, including coding in R (or preferred language)
- Good clinical practice, including research governance, consent and data handling and security
- Access to the NIHR associate principal investigator scheme for one of our ongoing portfolio studies
- Laboratory or clinical research skills as determined by the research project
- Advanced cardiovascular physiology knowledge and basic practical skills in echocardiography
- Formal training opportunities such as post-graduate certificate in research methods and/or statistics are available and encouraged.

We have a team of academics who will support the appointee, including consultant clinical-academics, research trainees and associates. We have strong collaborations with a number of research groups, in particular infection and clinical pharmacology.

We would anticipate that a motivated candidate would be in a position to produce a first author peer reviewed paper of original research, alongside presenting work at national and international meetings. There would also be opportunities to contribute to other work within the department and/or lead on ongoing systematic review and quality improvement projects.

*Clinical commitments during academic placement*

No routine service commitment but there may be involvement in patient recruitment to clinical studies.

*Departmental academic teaching programme (if applicable)*

- Weekly journal club
- Weekly critical care teaching
- Weekly supervision meetings (more frequently at start of specialised foundation programme placement)
- Lab meetings for in-vitro projects

*Academic leads:*

Dr Dagan Lonsdale, senior lecturer in clinical pharmacology and consultant intensivist

Dr Susannah Leaver, senior lecturer in critical care and consultant intensivist and respiratory physician

Dr Rhod Handslip, consultant intensivist

## Programme – Paediatric Orthopaedics – based at St George’s Hospital

Reference: 2425/SGUL/05

<i>Type of programme</i> Research	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George’s, University of London
<i>Brief outline of department</i> The paediatric orthopaedic service at St. George’s Hospital is provided by five consultants. The firm provides tertiary paediatric trauma and orthopaedic care to a region of over two million people. It provides specialised services for Clubfoot, Spina Bifida, Neurodisability, bone and joint infection and skeletal dysplasia. The Trauma and Orthopaedic department have a track record of successful grant applications and participating in national trials which has helped to raise the profile of the department within the trust. The research team comprises a Professor in Education (DT) who leads the Undergraduate Orthopaedic Education within St George’s University of London and is the Simulation Lead for both the British Orthopaedic Association (BOA) and the Surgical Advisory Committee , a Professor of Orthopaedics (CH) who is the research chair for AOUI, sits on the OTS research committee and is a BOA trustee, a Reader in Orthopaedics (AT) who is leading the undergraduate BSc program and is the South Thames Orthopaedic Rotation Training Program Director (TPD) and Yael Gelfer who is the South Thames Foundation School FY2 TPD, who is on the BSCOS research committee and the national consensus group in Clubfoot management, who recently completed developing a Core Outcome Set in treatment of Clubfoot and has developed the Protocol of COS for orthopaedic management of Spinal Dysraphism. The research group provides a range of skills suitable to train an ACF in the early stages of a research career. The team has previously collaborated on projects, and all bring different skills to the bid. There are currently 21 NIHR trials on the departmental portfolio. The ACF will be supervised by academics with a track record in supervising MD and PhD students. The department currently employs five Junior Orthopaedic Research Fellows (JORFs) and has a track record of 30 JORFS who have been successful in national and international presentations and publications as well as academic advancement. The new ACF will be integrated into this team to allow peer mentorship and access to training resources.	
<i>Structure of academic project/what expected</i> The successful applicant will undertake one main research project: Developing a Core Outcome Set (COS) for spinal Dysraphism through a Delphi process. The successful applicant will be involved in all stages of developing a COS for spinal dysraphism. They will be trained in conducting a systematic review, designing and analysing outcomes from surveys and interviews as well as designing, executing and analysing a Delphi process, which will be finalised in a consensus meeting. Relevant publications: Gelfer Y, Davis N, Blanco J, Trees A, Buckingham R, Mavrotas J, Tennant S, Theologis T. Attaining a British consensus on managing idiopathic congenital talipes equinovarus (CTEV) up to walking age. <i>Bone Jt Journal</i> 2022. <a href="https://doi.org/10.1302/0301-620X.104B6.BJJ-2021-1687.R1">https://doi.org/10.1302/0301-620X.104B6.BJJ-2021-1687.R1</a>	

Gelfer Y, Leo DG, Russell A, Bridgens A, Perry DC, Eastwood DM. The outcomes of idiopathic congenital talipes equinovarus. A Core Outcome Set for research and treatment . Bone Jt Open. 2022; 3-1. <https://doi.org/10.1302/2633-1462.31.BJO-2021-0192.R1>

Leo D. G, Green G, Eastwood D. M., Bridgens A, Gelfer Y. Development of a core outcome set for the orthopaedic management of spinal dysraphism. A study protocol. Bone Jt Open. 2022; 3-1. <https://doi.org/10.1302/2633-1462.31.BJO-2021-0157.R1>

Gelfer Y, Blanco J, Trees A, *et al.* Attaining a British consensus statement on managing idiopathic congenital talipes equinovarus (CTEV) through a Delphi process: a study protocol. *BMJOpen* 2021 ;11:e049212. <https://doi.org/10.1136/bmjopen-2021-049212>

There will be several other clinical projects to choose from including projects involving paediatric bone and joint infections, physiotherapy input in neurodisability and conservative versus operative treatment for paediatric fractures. The successful candidate will be recruiting patients to trials, they will be required to complete the GCP and Granule course and will be encouraged to develop basics of clinical research including statistics, research methodology, R&D approval ethics application.

*Clinical commitments during academic placement*

There is no routine service commitment. They will be involved in patient recruitment to clinical studies and will join the weekly surgical planning meetings and teaching as well as case base discussions. The department works closely with the university to deliver educational programmes to medical students and trainees in the region, providing the ACF with exposure to a structured training programme as well as educational theory. Trauma and orthopaedics consistently score highly for educational supervision (89.89%), adequate experience (82.78%) and curriculum coverage (80.46%) in the GMC trainee survey.

*Departmental academic teaching programme (if applicable)*

Professor Hing leads a group of academics and educationalists comprising an Honorary Reader, five Honorary Senior Lectures and two Clinical Lecturers. The track record of the department has included successfully national grants, commercial partnerships, publications, presentations, and national media coverage providing the trainee with a rich supportive environment. The successful applicant will attend a monthly research meeting and produce a weekly report on their research progress to the departmental research lead. Portfolio advise is also given during these meetings to ensure training requirements are met. The ACF will have access to research methodology courses at SGUL (statistics, systematic review skills, reference manager) as well as courses at NIHR level (Good Clinical Practice, Granule Courses, principal investigator courses). There is also the opportunity for the ACF to enrol in the Associate PI scheme associate with one of the NIHR studies the department is a part of. The ACF will have the opportunity to complete a PG-Cert during the FY2 year that will be subsidised by the Foundation School.

*Academic Lead:*

Miss Yael Gelfer [ygelfer@sgul.ac.uk](mailto:ygelfer@sgul.ac.uk)

Professor Caroline Hing [caroline.hing@stgeorges.nhs.uk](mailto:caroline.hing@stgeorges.nhs.uk)

## Programme – Neurosurgery – based at St George’s Hospital

Reference: 2425/SGUL/06

<i>Type of programme</i> Research	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George's, University of London
<i>Brief outline of department</i> The neurosurgery service is provided by 16 consultants and encompasses the full spectrum of cranial and spinal procedures for all ages including paediatrics. We run an active clinical programme with each consultant having specialist interests, including vascular, neuro-oncology, skull base, paediatrics, spinal surgery, trauma, hydrocephalus, and functional neurosurgery. Academically we are supported by a professor of neurosurgery, reader, senior lecturer, and 2 clinical lecturers. There is a busy clinical research programme including PhD students and research associates.	
<i>Structure of academic project/what expected</i> The academic foundation year 2 trainee in neurosurgery will have a choice of projects in functional neurosurgery led by Michael Hart. These will include: <ul style="list-style-type: none"> <li>- Advanced neuroimaging analysis for movement disorders and deep brain stimulation (including tractography, resting-state functional MRI, and ultra-high field 7 Tesla MRI)</li> <li>- Machine learning approaches for lesion detection in focal epilepsy</li> <li>- Big data analysis of clinical outcomes in neuromodulation for pain</li> </ul> It is the intention that skills are learnt in: <ul style="list-style-type: none"> <li>- Data analysis skills including coding in Matlab / Python and Bash</li> <li>- Knowledge of advanced statistical approaches including machine learning</li> <li>- Good research practice, including data handling and consent</li> <li>- Appraisal of research papers on neuroimaging analyses applied to neurosurgery</li> </ul> The learning resources that we will provide will include: <ul style="list-style-type: none"> <li>- Daily lab support, either face-to-face or remote</li> <li>- Access to neuroimaging courses and training (see <a href="http://www.neurocodeskills.fun">www.neurocodeskills.fun</a> for suitable resources)</li> <li>- Face-to-face progress and troubleshooting meetings initially, reduced as required to a minimum of monthly meetings over the course of the programme</li> </ul> We have a growing and versatile team to support each trainee. This includes senior group leaders, clinical lecturers, PhD students, and research associates. Additionally, we have close links with a number of other groups within SGUL (Professor Howe and Dr Barrick) and in other institutions including the University of Oxford, the University of Cambridge, and University College London. Finally, in terms of expected outputs, we would anticipate that each academic F2 would be able to generate a first author peer reviewed paper of original research data. In addition, there will be opportunities present their research in either oral or poster form at national and international meetings, to lead an audit, lead reviews, and contribute as a co-author to other research within the department. There is the	



opportunity to register for the St George's, University of London Postgraduate Certificate in Research.
<i>Clinical commitments during academic placement</i> No routine service commitment but there may be involvement in patient recruitment to clinical studies.
<i>Departmental academic teaching programme (if applicable)</i> Bi-monthly research lab meeting Bi-monthly molecular and clinical sciences institute academic meetings Daily neurosurgery clinical teaching Weekly neurosurgery foundation year and registrar teaching
<i>Academic Lead:</i> Michael Hart, Senior Lecturer and Honorary Consultant Neurosurgeon <a href="mailto:mhart@sgul.ac.uk">mhart@sgul.ac.uk</a>

**Programme – Paediatrics – based at St George's Hospital**

Reference: 2425/SGUL/07

<b>Type of programme</b>	
Research	
<b>Employing trust:</b>	<b>Academic placement based at:</b>
St George's University Hospital NHS Foundation Trust	St. George's, University of London
<b>Brief outline of department</b>	
<p>Both the paediatric infectious disease (PID) and neonatal services provide tertiary specialist care to infants and children at St Georges, South West London and down to the south coast.</p> <p>The paediatric infectious diseases unit has 8 (3.5 FTE) PID consultants and provides a regional service for the care of children with complex infectious diseases, including HIV, tuberculosis and immunodeficiency. It is a national training centre for PID, formally recognised by the RCPCH. The Centre for Neonatal and Paediatric Infections (CNPI) based at St George's, University London is internationally recognised as a leading centre for PID research. CNPI has an active research programme in vaccine preventable disease, perinatal infection, antimicrobial resistance, optimal use of antimicrobials and infant immunology.</p> <p>The neonatal unit has 12 neonatal consultants and 8 paediatric surgeons. We provide full specialist care with ITU, HDU, special care and transitional care. We work extremely closely with our colleagues in fetal medicine and obstetrics in planning deliveries and care. We will be collaborating with our colleagues in paediatric infectious diseases for research projects that combine both interests.</p>	

**Structure of academic project/what expected**

The Specialised F2 trainee in Paediatrics will spend 4 months working in the field of paediatric infectious diseases and immunology research in either a paediatric or neonatal setting depending on interest. Projects can be tailored to the interests and needs of the individual trainee. Examples may include involvement in epidemiological studies, clinical trials, case series and systematic reviews on topics of interest. We offer training in clinical trials, epidemiological and statistical analysis and critical appraisal of the literature. Skills that would be useful for a candidate include basic database or statistical knowledge for example REdCap, STATA, SPSS or R.

Involvement in teaching is encouraged and there is the opportunity to register for the St. George's, University of London Postgraduate Certificate in Healthcare and Biomedical Education.

**Clinical commitments during academic placement**

There will be no routine service commitment but there will be involvement in patient care through clinical studies. There will be opportunities to attend grand rounds, MDT meetings or clinics if the candidate wishes to do so.

Departmental academic teaching programme (if applicable)

PID specific:

- Wed 12.00pm-1.00pm CNPI journal club / Academic meeting
- Wed 1.00pm-2.00pm Institute of Infection and Immunity Seminar
- Wed 3.30pm-4.00pm Joint teaching session with Evelina London Children's Hospital PID team
- Wed 4.00pm-5.30pm PID MDT

**Academic Leads:**

Prof Kirsty Le Doare (Paediatric Infectious Diseases)  
Prof Paul Heath (Paediatric Infectious Diseases)  
Dr Simon Drysdale (Paediatric Infectious Diseases)  
Dr Charlotte Huddy (Neonatologist)

## Programme – Emergency Medicine – based at St George’s Hospital

Reference: 2425/SGUL/08

<b>Type of programme</b> Research	
<b>Employing trust:</b> St George's University Hospital NHS Foundation Trust	<b>Academic placement based at:</b> St. George’s Hospital
<b>Brief outline of department</b> The emergency department (ED) sees around 150, 000 patients a year and, in addition to delivering services to the local population, provides a number of specialist regional services including major trauma, cardiology, stroke, neurosurgery, ENT and paediatric surgery. The department has a team of 25 Consultants, including three dual-trained in adult and paediatric emergency medicine and several working in pre-hospital care. There is a large clinical team of approximately 60 doctors, physician associates and advanced clinical practitioners and more than 140 nurses. The specialised foundation year 2 trainee in emergency medicine will be based in the ED Clinical Research Group during their academic time, an embedded team of academics and research staff covering diverse research interests across a range of emergency medicine topics. The group includes a team of research delivery staff recruit patients into international and national clinical trials.	
<b>Structure of academic project/what expected</b> The specialised foundation year 2 trainee in emergency medicine will be based in the Emergency Department Clinical Research Group during their 4-month academic block. There is a growing and diverse team to support each trainee dependent on their topic area. This includes a Professor of Emergency Care, Senior Lecturers, research fellows and emergency medicine consultants with specialist clinical interests. We have close links with academic departments at St George’s, University of London (SGUL) including the Population Health Research Institute. The trainee will have a choice of projects in areas related to emergency medicine led by Professor Heather Jarman. These may include: <ul style="list-style-type: none"><li>- Low-level carbon monoxide exposure</li><li>- Early diagnostic testing in neutropenic sepsis</li><li>- Palliative care in the emergency department</li><li>- Polypharmacy and medicines management in older patients</li></ul> It is the intention that skills are learnt in: <ul style="list-style-type: none"><li>- Literature searching, appraisal and review</li><li>- Practical data collection and analysis skills (both quantitative and qualitative approaches)</li><li>- Knowledge of statistical approaches including use of software</li><li>- Good research practice, including data handling and consent</li><li>- Laboratory processing and storage of blood samples</li><li>- Academic writing and publication</li></ul> The learning resources that we will provide will include: <ul style="list-style-type: none"><li>- Access to good clinical practice training</li></ul>	

- Access to laboratory skills training
- Face-to-face mentorship and supervision
- There is the opportunity to register for the St George's, University of London Postgraduate Certificate in Research.

We anticipate that the trainee will produce a 1<sup>st</sup> author publication and conference presentation on their project. There is opportunity to present at the Royal College of Emergency Medicine annual scientific conference and at the SGUL research day

#### **Clinical commitments during academic placement**

There will be no routine service commitment but there will be involvement in patient care through clinical studies.

#### **Departmental academic teaching programme (if applicable)**

Weekly academic meeting

Weekly emergency medicine foundation year and registrar teaching

Monthly academic peer support and review meetings

#### **Academic Lead:**

Professor Heather Jarman, Emergency Department Clinical Academic Lead

[Heather.jarman@stgeorges.nhs.uk](mailto:Heather.jarman@stgeorges.nhs.uk)

### **Programme – Vascular Surgery – based at St George's Hospital**

Reference: 2425/SGUL/09

<i>Type of programme</i> Vascular Research	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George's, University of London
<p><i>Brief outline of department</i></p> <p>St Georges Vascular Institute, based in St George's Hospital and St George's University of London, is the hub of the network which provides emergency and elective services to people living across southwest London and Surrey. Set up in 1999, one of the first in the country, it has developed to be one of the biggest in the UK. The team includes 11 Consultant Surgeons in addition to physicians, interventional radiologists, and clinical nurse specialists. The institute has an international reputation for clinical outcomes and research and provides sub-specialist vascular care for patients across the country.</p> <p>The department's medical team includes a dedicated geriatric physician, up to 18 junior/speciality doctors, 2 physician assistants and 5 Nurse Specialists. Research and clinical staff are integrated and work as one team. There are currently 2 NIHR Clinical lecturers, 1 NIHR Academic Clinical Fellow, 2 MD/PhD Students and Academic Foundation Doctors undertaking research with the senior research team.</p> <p>Academically the department has a strong reputation of clinical outcome research and data science research which has often gone on to lead to service change and translation into clinical practice.</p>	

*Structure of academic project/what expected*

Academic F2 trainees in Vascular spend 4 months working with Mr Mital Desai and Mr Iain Roy and one of the NIHR Clinical Lecturers. The project will be decided with them during their F1 year and influenced by their experience, interests, and future aspirations.

Previous projects have been based on clinical outcomes of novel interventions, analysis of large datasets including Hospital Episode statistics, systematic reviews and the department is increasingly undertaking machine learning and image analysis.

We expect academic F2s, with guidance and training, to learn the fundamentals of clinical research methodology including ethics, statistics and writing an application. Abstracts, posters, podium presentations, and manuscripts of work are the expected level of academic output.

All trainees (clinical & research) are expected to be involved with recruiting patients to and conducting elements of large national and international clinical trials. There will be the opportunity to see sub-specialist and general vascular surgery, endovascular therapy and clinical practice during the 4 months to better understand the patient population and clinical challenges.

The academic F2 trainee has their own desk in the Vascular university office, along with the other academic trainees, and therefore gets a broad sense of the different career stages clinical academia and different projects.

The Institute has a strong track record of academic F2 trainees achieving national / international presentations as well as often completing a series of connected quality improvement projects. 2 of the 2021/22 cohort produced first author publications in high IF journals, all 3 of the 2022/23 have manuscripts for submission/under consideration and one has been successful in obtaining an NIHR Academic Clinical Fellowship for next year.

*Clinical commitments during academic placement*

No routine clinical service commitment but patient recruitment to ongoing trials is expected.

*Departmental academic teaching programme (if applicable)*

Weekly research meeting

Monthly Academic Meeting with opportunity to present research data

*Academic Lead:*

Department lead Prof Peter Holt, Project leads Mr Iain Roy & Mr Mital Desai.

## Programme – Cardiology – based at St George’s Hospital

Reference: 2425/SGUL/10

Type of programme	
Research	
Employing trust:	Academic placement based at:
St George's University Hospital NHS Foundation Trust	St. George’s, University of London
<i>Brief outline of department</i>	
<p>The Cardiology Unit provides tertiary service at St. George’s including interventional cardiology, cardiac electrophysiology and devices, advanced cardiac imaging and heart failure, and a quaternary inherited cardiac conditions and sports cardiology service. Cardiac Risk in The Young (CRY) is a charity promoting the screening of young individuals for cardiac disease and the prevention of sudden cardiac death. The CRY Centre for Cardiac Pathology is a world-renowned specialist cardiac pathology service led by Professor Mary Sheppard providing expert assessment for cardiac autopsy post sudden unexplained death.</p> <p>All clinicians and clinical academics at St George's NHS Trust, together with cardiovascular basic scientists based at St George’s University of London, form part of the Cardiovascular Clinical Academic Group, led by Professor Elijah Behr. This is a collaboration providing a fertile environment for the development of research strategies by the sharing of knowledge and ideas openly within the group.</p>	
<i>Structure of academic project/what expected</i>	
<p>The academic foundation year 2 trainee in cardiology will have a choice of projects within themes including, but not exhaustive of:</p> <ul style="list-style-type: none"><li>- Cardiac screening and prevention in the young</li><li>- Sports Cardiology</li><li>- Mechanisms of arrhythmia and the application of new ablation technologies</li><li>- Risk stratification in Inherited Arrhythmia Syndromes and Sudden Arrhythmic Death Syndrome (SADS)</li><li>- Bioinformatics (genomics, transcriptomics, proteomics) in Inherited Cardiac Conditions</li><li>- Cardiac cellular electrophysiological investigation of arrhythmia and inherited cardiac diseases</li><li>- Molecular biological investigation of inherited cardiac diseases</li><li>- Cardiac imaging</li><li>- Interventional cardiology</li><li>- Cardiac pathology</li></ul>	

Skills to be learnt include (project dependent):

- Data analysis skills
- Knowledge of advanced statistical approaches including machine learning
- Good research practice, including data handling and consent
- Appraisal of research papers
- Bioinformatics
- Molecular biological techniques such as RNA/DNA extraction, sequencing and RT-qPCR
- Histopathological techniques
- Cardiac cellular electrophysiological techniques
- Echocardiography

The project will be catered and tailored for the program lasting 4 months with the aim of producing data that can form the basis of a first author publication for the trainee.

We have a large team of highly experienced world-renowned experts in their field with a wealth of supervisory experience for academics at all stages of their careers. Dependent on the choice of project the academic foundation year 2 will have the supervisory attention of both the direct specialist cardiologist or scientist for that project type, as well as the leads for this program in cardiology: Dr Mark Specterman, Senior Lecturer and Honorary Consultant Cardiologist & Electrophysiologist and Professor Elijah Behr, Professor of Cardiovascular Medicine and Honorary Consultant Cardiologist & Electrophysiologist.

Our hope is that the experience the trainee garners will foster an interest in the area they are studying that will prompt them to consider pursuing more research in this field in the future. We are very keen to develop such a relationship with the trainee to then aid them and advise them with future research posts and opportunities for their career to come, and we hope this will directly involve the St George's Cardiovascular Clinical Academic Group in their career to come.

*Clinical commitments during academic placement*

There will be no routine service commitment but there will be involvement in patient care through clinical studies.

*Departmental academic teaching programme (if applicable)*

Weekly Academic Meeting with opportunity to present research data.

*Academic Lead:*

Professor Elijah Behr, Professor of Cardiovascular Medicine and Honorary Consultant Cardiologist & Electrophysiologist  
ebehr@sgul.ac.uk

## Programme – Infectious Diseases – based at St George’s Hospital

Reference: 2425/SGUL/11

<i>Type of programme</i> Research	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George’s University of London (SGUL)
<p><i>Brief outline of department</i></p> <p>The Adult Infection Service (Infectious Diseases, Microbiology and HIV) is provided by 14 consultants and encompasses inpatient investigation and management of community, hospital-acquired or travel-associated/ tropical infection. Laboratory diagnosis of Infection is at our on-site South West London Pathology NHS Microbiology laboratory. The Paediatric Infectious Diseases and Immunology Service includes 9 consultants looking after inpatients with complex and atypical infections or immune-related problems. Outpatient clinics include general (adult or paediatric) Infection, immunology, OPAT (adult, paediatric, neonatal), HIV and TB. Both departments provide tertiary services for London and the South of England in infection and immunity and run active specialist training programmes in Infection within the London deanery.</p> <p>A large proportion (14) of our Consultants are clinical academics based at the Institute for Infection and Immunity, one of 3 research institutes at SGUL located within the same building as the hospital, providing ideal opportunities for translational and clinical research. Research focuses on the host response to infection and the cellular and molecular biology of microorganisms (e.g. <i>M. tuberculosis</i>, <i>Group B streptococcus</i>, <i>sexually transmitted infections</i>, <i>HIV</i>, <i>P falciparum</i>, <i>S aureus</i>, <i>fungi including Cryptococcus and Candida</i>, <i>viruses including Hepatitis C, CMV, influenza, SARS CoV-2</i>), with a view to the development of novel diagnostic, preventative, and therapeutic strategies (genome-based diagnostics, vaccines, novel drug targets, antibody-based therapy, phase II and III multinational trials to optimise use of existing compounds and prevent emergence of AMR). The Institute has a global perspective, with many overseas collaborations, particularly in Sub-Saharan Africa: for example, Ghana, South Africa, Uganda, Tanzania, Gabon, Malawi, Zambia, Botswana, and Guinea, as part of research programmes on tuberculosis, cryptococcal meningitis, Group B strep vaccination, and malaria. The centre for neonatal and paediatric infection are global leaders in the field of paediatric infectious diseases with a research portfolio focussed on pregnant women and children, including maternal and infant infections, epidemiology and treatment of vaccine-preventable diseases and global antibiotic resistance and prescribing.</p> <p>Our strong track record in translational research in Infection and Immunity provides opportunities for the Foundation clinical fellow to gain experience in laboratory as well as clinically based research. Groups within the Institute of I&amp;I are active in applied genomics (Butcher, Witney, Lindsay, Bicanic), diagnostics (Sadiq, Planche,</p>	



Butcher, Krishna), vaccines and immunotherapeutics (Heath, Cosgrove, Le Doare, Ma, Reljic), antimicrobial chemotherapy (Krishna, Jindani, Bicanic, Harrison, Sharland, Heath, Strang, Wasserman) and resistance (Bicanic, Sharland, Moore), human immune responses to viral (hepatitis, HIV) bacterial (Group B streptococcus, mycobacteria), fungal and parasitic infection (Le Doare, Goodbourne, Reljic, Bicanic, Harrison, Krishna, Macallan, Wasserman). More details of our research can be found at <https://www.sgul.ac.uk/about/our-institutes/infection-and-immunity>; [cnpi.org.uk](http://cnpi.org.uk) – [The Centre for Neonatal & Paediatric Infection](http://www.sgul.ac.uk/about/our-institutes/infection-and-immunity)

*Structure of academic project/what expected*

Dependent on the candidate's background, interests and career intentions, the academic foundation year 2 trainee in Infectious Diseases will have the opportunity to meet a wide range of Principal Investigators (PIs) to discuss a choice of projects within Infection & Immunity (adult or paediatric) led by one of 14 Principal Investigators/ Clinical Academics: Derek Macallan, Tom Harrison, Tim Planche, Kirsty LeDoare, Paul Heath, Kostas Karampatsas, Simon Drysdale, Shamez Ladhani, Cath Cosgrove, Mike Sharland, Julia Bielicki, Tihana Bicanic, Sean Wasserman. Multi-disciplinary projects co-supervised by basic science PIs within the Centre are encouraged. The post-holder will be expected to develop clinical, epidemiological, and laboratory research skills and start to master statistical analysis tools. Each PI has own research team who will support the research fellow, ranging from academic clinical lecturers and research fellows, research assistants, lab technicians; data and trial managers.

We would anticipate that an academic F2 would be able to generate a first author peer reviewed paper of original research data. In addition, there will be opportunities to present their research in oral/ poster form at national and international meetings, lead reviews, and contribute as a co-author to other research within the department. There is the opportunity to register for the St George's, University of London Postgraduate Certificate in Research.

*Clinical commitments during academic placement*

No routine service commitment but there may be opportunities to attend paediatric or adult infectious diseases ward rounds and/or outpatient clinics in general ID, specialist HIV or TB

*Departmental academic teaching programme (if applicable)*

Regular research group meetings  
Weekly Infection & Immunity institute academic meetings  
Weekly clinical educational meetings (adult and paediatric)  
[ResearchAware Skills and Methods Series \(sgul.ac.uk\)](http://www.sgul.ac.uk/research-aware-skills-and-methods-series)

*Academic Leads:*

Tihana Bicanic (Adult ID), Reader and Consultant in Infectious Diseases  
[tbicanic@sgul.ac.uk](mailto:tbicanic@sgul.ac.uk)

Kirsty Le Doare (Paediatric ID) Professor of Vaccinology and Immunology  
[kiledoar@sgul.ac.uk](mailto:kiledoar@sgul.ac.uk)

## Programme – Clinical Pharmacology – based at St George’s Hospital

Reference: 2425/SGUL/12

<i>Type of programme</i> Research	
<i>Employing trust:</i> St George's University Hospital NHS Foundation Trust	<i>Academic placement based at:</i> St. George's, University of London
<i>Brief outline of department</i> St George's Clinical Pharmacology department is one of the largest of its type in the country. There are seven academic consultants – Professor Baker and Drs Burrage, Hitchings, Khong, Lonsdale, Mayahi and Ng – who have a range of research interests. Clinically the team works in a diverse range of disciplines, including acute, maternal and critical care medicine, pharmacogenomics and polypharmacy and make major contributions to medicines management in the region.	
<i>Structure of academic project/what expected</i> It is our anticipation that the specialised foundation trainee will work with clinical academics in the department during foundation year one to design a bespoke research experience that will suit their research interests and learning needs. This may involve joining ongoing research activity or participating in the design of their own work. Potential research projects within the department include: <ul style="list-style-type: none"><li>- Understanding the effect of critical illness on drug pharmacokinetics (in-vivo and in-vitro)</li><li>- Describing the clearance of drugs during extra-corporeal support (renal replacement therapy and ECMO)</li><li>- Modelling and simulation of drug dosing strategies for a range of clinical conditions</li><li>- Medical Education research</li><li>- Environmental sustainability and impact of medicines</li><li>- Drivers for polypharmacy, barriers, and clinical impact of deprescribing</li><li>- Pharmacogenetics in polypharmacy</li></ul> Learning and development opportunities: Again, these are expected to be tailored to the individual trainee. However, opportunities include: <ul style="list-style-type: none"><li>- Data analytical skills, including coding in R (or preferred language)</li><li>- Good clinical practice, including research governance, consent and data handling and security.</li><li>- Access to the NIHR associate principal investigator scheme for one of our ongoing portfolio studies</li><li>- Laboratory or clinical research skills as determined by the research project</li><li>- Formal training opportunities such as post-graduate certificate in research methods and/or statistics are available and encouraged</li></ul> We have a team of academics who will support the appointee, including consultant clinical-academics, academic clinical fellows and allied health professionals in	

<p>research training. We have strong collaborations with a number of research groups, in particular vascular pharmacology (Professor Iain Greenwood), infection and critical care.</p> <p>We would anticipate that a motivated candidate would be in a position to produce a first author peer reviewed paper of original research, alongside presenting work at national and international meetings. There would also be opportunities to contribute to other work within the department and/or lead on ongoing systematic review and quality improvement projects.</p>
<p><i>Clinical commitments during academic placement</i></p> <p>No routine service commitment but there may be involvement in patient recruitment to clinical studies.</p>
<p><i>Departmental academic teaching programme (if applicable)</i></p> <ul style="list-style-type: none"> <li>- Weekly journal club</li> <li>- Weekly supervision meetings (more frequently at start of specialised foundation programme placement)</li> <li>- Lab meetings for in-vitro projects</li> </ul>
<p><i>Academic leads:</i></p> <p>Professor Emma Baker, professor of clinical pharmacology and consultant physician</p> <p>Dr Daniel Burrage, senior lecturer in clinical pharmacology and consultant physician</p> <p>Dr Fu Liang Ng, senior lecturer in clinical pharmacology and consultant physician</p> <p>Dr Dagan Lonsdale, senior lecturer in clinical pharmacology and consultant intensivist</p>

#### 4.THE MEDICAL SCHOOL AND PARTNER TRUSTS

##### **St George's University Hospitals NHS Foundation Trust**

St George's University Hospitals NHS Foundation Trust is one of the country's leading teaching hospitals with an international reputation for education and research. The Trust provides general, specialist and tertiary services both locally and nationally. Located in South-West London, St George's is within easy reach of Central London and all the attractions that it has to offer.

##### **About St George's University Hospitals NHS Foundation Trust and St George's, University of London**

With nearly 8,000 dedicated staff caring for patients around the clock, St George's Healthcare is the largest healthcare provider in southwest London.

Our main site, St George's Hospital in Tooting – one of the country's principal teaching hospitals – is shared with [St George's, University of London](https://www.stgeorges.ac.uk/), which trains medical students and carries out advanced medical research. St George's Hospital also hosts the St George's, University of London and Kingston University Faculty of Health and Social Care Sciences, which is responsible for training a wide range of healthcare professionals from across the region.

As well as acute hospital services, we provide a wide variety of specialist care and a full range of community services to patients of all ages. These services are provided

from Queen Mary's Hospital, Roehampton, 11 health centres and clinics, schools and nurseries, patients' homes, and Wandsworth Prison.

St George's Hospital serves a population of 1.3 million across southwest London. Many services, such as cardiothoracic medicine and surgery, neurosciences and renal transplantation, also cover significant populations from Surrey and Sussex, totalling around 3.5 million people. The trust also provides care for patients from a larger catchment area in southeast England, for specialties such as complex pelvic trauma. Other services treat patients from all over the country, such as family HIV care and bone marrow transplantation for non-cancer diseases. The trust also provides a nationwide state-of-the-art endoscopy training centre.

A number of our services are members of established clinical networks and bring together doctors, nurses and other clinicians from a range of healthcare providers working to improve the quality of services for patients. These include the South London Cardiac and Stroke Network and the South West London and Surrey Trauma Network, for which St George's Hospital is the designated heart attack centre, hyper-acute stroke unit and major trauma centre.

The National Institute for Health Research (NIHR) Applied Research Collaboration (ARC South London pools the clinical and research expertise of both the NHS and universities in south London. It brings together King's Health Partners (a partnership between King's College London and Guy's and St Thomas,' King's College Hospital and South London and Maudsley NHS Foundation Trusts), with St George's Healthcare NHS Trust and St George's, University of London as joint leaders of the ARC. The ARC will work to make sure that patients benefit from innovative new treatments and techniques that could revolutionise future health care. Researchers will work together to investigate new methods to prevent and treat chronic diseases such as stroke and tackle public health issues including reducing alcohol-related harm. In south London up to 30 per cent of acute medical admissions and 50 per cent of mental health admissions are alcohol related. The ARC will also establish education programmes, and a new Centre for Implementation Science will be set up as a central resource to support research and test innovations in these nine areas: alcohol; diabetes; infection; palliative and end of life care; psychosis; public health; stroke; women's health; and patient and public involvement.

### **About St George's, University of London**

St George's, University of London, is distinctive as the UK's only independently governed medical and health sciences higher education institution. A college of the University of London, we have been providing medical and healthcare training for over 250 years.

With approximately 6,000 students and 850 members of staff, our Mission is to advance, promote and share knowledge of health through excellence in teaching, clinical practice and research into the prevention and treatment of illness.

The school is organised into the following Institutes:

- **Molecular and Clinical Sciences**
- **Infection and Immunity**

- **Population Health**
- **Institute of Medical and Biomedical Education (IMBE)**

In research, we are innovative and driven by high standards of excellence to advance healthcare. Our Centres undertake research in areas focused on infection and immunity, cardiology, epidemiology and cell signalling.

St George's prides itself on providing the highest standard of learning through the latest in teaching and learning resources, exceptional research, innovative course development, enterprise and innovation, and strategic partnerships.

We were the first to introduce a four-year medical degree open to graduates from all disciplines and, more recently, became one of only four universities in the country to pioneer training for physician's assistants – a new breed of healthcare professionals brought over from the United States.

St George's success has been aided by our strategic partnerships with other institutions. Our life-long partnership and shared site with St George's Hospital has created a unique learning and research environment.

In recent years, we have also established an Enterprise and Innovation Centre to encourage the transfer of knowledge and skills to business and the wider community.

All Foundation Year trainees are offered the Postgraduate Certificate in Research Skills and Methods or Education at a discounted rate during their academic training with us.

## B6. 2-YEAR SPECIALISED FOUNDATION PROGRAMMES AT UNIVERSITY COLLEGE LONDON MEDICAL SCHOOL (UCL)

### 1. INTRODUCTION

The North London Foundation School is a foundation school linked to **UCL Medical School**. North London/UCL offers **21** specialised Foundation Programme (SFP) posts comprising different speciality-based academic placements. The two-year programmes will deliver the full range of competences required of the Foundation Programme Curriculum. The F2 posts will each include a placement in a centre of academic and research excellence.

The F1 posts are based at Barnet Hospital (Royal Free London NHS Foundation Trust) or North Middlesex University Hospital NHS Trust. The F2 posts are based in central London, either at University College London Hospitals NHS Foundation Trust, the Royal Free Hospital (Royal Free London NHS Foundation Trust), or the Whittington Health.

All trainees accepted for the two-year specialised Foundation Programme will have:

- A four-month academic placement as one element of their 12-month F2 post
- A mentor throughout the F2 year (Academic Supervisor)
- Teaching sessions aimed at developing academic skills
- Visitor status within the appropriate Division to enable access to UCL online library facilities

### 2. DETAILS OF TRAINING PROGRAMMES

Programme Reference	Programme Theme	Based at
2425/UCL/01	Medical Virology (1)	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/02	Surgery	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/03	Medical Virology (2) <b>PROVISIONAL</b>	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/04	Rheumatology	University College London Hospitals NHS Foundation Trust
2425/UCL/05	Neurology and Neuroscience (1)	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/06	Neurology and Neuroscience (2)	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/07	Cellular Pathology (1)	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/08	Medical Education	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/09	Cellular Pathology (2)	Royal Free London NHS Foundation Trust (Royal Free Hospital)

2425/UCL/10	Nuclear Medicine (1)	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/11	Nuclear Medicine (2)	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/12	Radiology	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/13	Primary Care and Population Health (1)	Whittington Health
2425/UCL/14	Primary Care and Population Health (2)	Whittington Health
2425/UCL/15	Primary Care and Population Health (3)	Whittington Health
2425/UCL/16	Hepatology	Royal Free London NHS Foundation Trust (Royal Free Hospital)
2425/UCL/17	Paediatrics	University College London Hospitals NHS Foundation Trust and Great Ormond Street Institute of Child Health
2425/UCL/18	Psychiatry	Camden and Islington Foundation Trust (linked to University College London Hospitals NHS Foundation Trust)
2425/UCL/19	Women's Health	University College London Hospitals NHS Foundation Trust
2425/UCL/20	Clinical Pharmacology/ Cardiovascular Medicine	University College London Hospitals NHS Foundation Trust
2425/UCL/21	Anaesthetics	University College London Hospitals NHS Foundation Trust

### 3. POSTS

**Information regarding specific programmes is provisional and may be subject to change. Precise details of rotations are subject to service delivery requirements of the NHS and subsequent confirmation by employing Trusts.**

**Programmes 1 – Medical Virology – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/01  
2425/UCL/03 - **PROVISIONAL**

*Type of programme*

Clinical and research training in Virology

<p><i>Employing trust:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>	<p><i>Academic placement based at:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>
<p><i>Brief outline of department</i></p> <p>Virology is an exciting and rapidly moving subject which integrates laboratory work with clinical needs. Trained specialists need both a good working knowledge of applied molecular biology and a clear understanding of viral pathogenesis.</p> <p>Virologists reach out from their laboratory base to interact with clinical colleagues in a wide variety of areas (e.g. solid organ transplantations, dialysis, HIV, viral hepatitis, antenatal, infectious diseases including high consequence infections, occupational health, infection prevention &amp; control etc.). This placement will give trainees an experience of working in a clinical diagnostic Virology department and understand the role and importance of interaction between laboratory and clinical medicine in patient management. They will acquire knowledge and gain experience of common clinical scenarios, range of differential diagnoses, evidence-based diagnostic approach, rational use of investigations, appropriate interpretation of results, and clinical liaisons including giving management advice.</p> <p><i>Recent publications/submissions from SFP Trainees:</i></p> <p>Zeng J, Macdonald D, Durkin R, Irish D, Hart J, Haque T. Opt-out testing for hepatitis B and C infections in adults attending the emergency department of a large London Teaching Hospital. <i>Submitted to Journal of Clinical Virology.</i> (2023)</p> <p>Lumley S, Green C, Rafferty H, Zuhair M, Haque T, Griffiths P et al. Cytomegalovirus viral load parameters associated with earlier initiation of preemptive therapy after solid organ transplantation. <i>PLoS One.</i> (2019)</p> <p>Zuhair M, Smit GSA, Wallis G, Jabbar F, Smith C, Devleeschauwer B, Griffiths PD. Estimation of the worldwide seroprevalence of cytomegalovirus: A systematic review and meta-analysis. <i>Reviews in Medical Virology</i> (2019)</p> <p>Snell LB, Smith C, Chaytor S, McRae K, Patel M, Griffiths P. Screening for potential susceptibility to rubella in an antenatal population: A multivariate analysis. <i>Journal of Medical Virology.</i> (2017)</p>	



*Structure of academic project/what expected*

- Gain experience of the application of scientific methods through hypothesis generation and through collection, interpretation, analysis, and presentation of data for the chosen research project.
- Undertake and complete quality improvement and audit projects.
- Develop and improve presentation skills by presenting audit and research findings to local and where appropriate national & international meetings.
- Write up the findings of the audit/research projects for publication under the supervision of a designated supervisor.

*Clinical commitments during academic placement*

The trainee will assist the specialty registrar in providing clinical liaison to the major users served by the diagnostic laboratory. This will provide excellent experience of how to get the most out of a laboratory which will stand the trainee in good stead when he/she returns to the wards. Usually, 60% of the time will be spent on clinical work and 40% on research. A timetable will be drawn at the start of the training to combining both the clinical and academic components. This timetable will be reviewed regularly by the trainee and the clinical supervisor.

*Departmental academic teaching programme (if applicable)*

There is a tutorial programme delivered by the Virology consultants at the start of the placement. In addition, the trainee will attend and participate in research seminars, journals clubs and other educational events that take place in the Virology/Infection department and attend the core FY2 teaching programme. The weekly handover meetings attended by the Virology Medical Team where clinical cases are discussed.

*Academic Lead:*

Dr Tanzina Haque  
Consultant Virologist, Royal Free London NHS Foundation Trust  
Honorary Associate Professor, UCL  
Based at: Royal Free Hospital  
E-mail address: [thaque@nhs.net](mailto:thaque@nhs.net)

**Programme 2 – HPB and Liver Transplant Surgery – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference:  
2425/UCL/02

*Type of programme*

Research

<p><i>Employing trust:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>	<p><i>Academic placement based at:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>
<p><i>Brief outline of department</i></p> <p>HPB and Liver Transplant surgery is one of the lead clinical services at RFHL providing a regional HPB service and a supra-regional service in Liver Transplant Surgery.</p> <p>The HPB and Liver Transplant research group is based in the University Dept of Surgery, Hampstead Campus, UCL and have major research programmes involving:</p> <ul style="list-style-type: none"> <li>• evidence based healthcare,</li> <li>• new technologies and image guidance in liver and pancreas disease.</li> <li>• optimisation of peri-operative care</li> <li>• liver tissue engineering</li> <li>• organ preservation and treatment of ischaemia-reperfusion injury in liver transplantation.</li> </ul>	
<p><i>Structure of academic project/what expected</i></p> <p>Trainees will be allocated an academic and clinical supervisor at the outset of the attachment who will ensure the aims of the attachment and of the Foundation Programme are met.</p> <p>The trainee will be allocated a research supervisor within the academic HPB and Liver Transplant research group who will discuss the ongoing research projects and identify a specific task and objectives for the research attachment based on the trainee's interests and research background.</p>	
<p><i>Clinical commitments during academic placement</i></p> <p>The trainee will have no specific clinical commitments but will attend the clinical meetings and depending on their interests can be involved in clinical assessment and post-operative management of patients undergoing major HPB and Liver Transplant Surgery or can assist with selected major surgical procedures.</p>	

*Departmental academic teaching programme (if applicable)*

The University Department of Surgery has very active postgraduate research programmes and the trainee will have an opportunity to attend basic research training sessions and a weekly programme of invited guest lecturers.

*Academic Lead:*

Prof Brian Davidson  
Consultant HPB and Liver Transplant Surgeon  
Lead for HPB and Liver Transplant Surgery Research, Royal Free Campus, UCL  
Based at: Royal Free London NHS Foundation Trust  
E-mail address: [b.davidson@ucl.ac.uk](mailto:b.davidson@ucl.ac.uk)

**Programme 4 – Rheumatology – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/04

*Type of programme*

Introduction to Rheumatology research

<i>Employing trust:</i>	<i>Academic placement based at:</i>
Royal Free London NHS Foundation Trust (Royal Free Hospital)	University College London Hospitals NHS Foundation Trust
<i>Brief outline of department</i>	
<p>Rheumatology involves the management of the huge array of musculoskeletal disorders ranging from painful, but essentially degenerative, conditions such as osteoarthritis, to those such as rheumatoid arthritis and vasculitis which cause serious, long term major inflammation and disability. Its importance is emphasized by the fact that 20% of all GP consultations are for musculoskeletal complaints and the UK pays £30,000,000 per week in disability benefits to patients with these problems.</p> <p>UCL Medical School has a strong tradition of emphasising the importance of rheumatology. Several dynamic 'musculoskeletal' firms cover the topic comprehensively stressing the importance of clinical observation and capturing the current excitement about the introduction of biological agents designed to block individual key molecules known to be intimately involved in the development of inflammatory arthritis. The Rheumatology units are very interested in pastoral care ensuring that their trainees are given the best chance to develop a wide range of management and research skills.</p>	

It is noteworthy that the current (Professor Jane Dacre) as well as a past (Professor Dame Carol Black) President of The Royal College, both from our own medical school; the Government Chief Scientific Advisor and former Head of the Wellcome Trust, Professor Mark Walport; a former winner of Doctor of the Year, Dr John Halsey, and the knighted, co-developer of TNF alpha blockade, Professor 'Tiny' Maini are all rheumatologists.

*Structure of academic project/what expected*

Options exist to undertake either a laboratory-based project examining mechanisms of disease and/or response to therapy or clinical data review project.

*Clinical commitments during academic placement*

At UCLH there will be the opportunity to attend specialist rheumatology clinics once a week.

*Departmental academic teaching programme (if applicable)*

*Academic Lead:*

Dr Richard Stratton  
 Centre for Rheumatology  
 Based at: Royal Free London NHS Foundation Trust (Royal Free Hospital)  
 E-mail address: [r.stratton@ucl.ac.uk](mailto:r.stratton@ucl.ac.uk)

**Programmes 5 & 6 – Neurology and Neuroscience – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/05

Reference: 2425/UCL/06

*Type of programme*

Clinical and research training in neurology/neuroscience

<i>Employing trust:</i>	<i>Academic placement based at:</i>
Royal Free London NHS Foundation Trust (Royal Free Hospital)	Royal Free London NHS Foundation Trust (Royal Free Hospital)

*Brief outline of department*

The trainee is primarily based in the Department of Clinical and Movement Neurosciences at the Royal Free Hospital, based at the clinical Neurology department, which acts as a tertiary centre for several different hospitals with over 20 consultant neurologists, and the academic department, which is part of the UCL Institute of

Neurology (<http://www.ucl.ac.uk/ion/departments/clinical>). There is a very active research programme, focusing mostly on Parkinson's disease.

*Structure of academic project/what expected*

The trainees will work in a large regional referral centre for neurological disease and will gain experience in a broad spectrum of acute and chronic neurological conditions. They will be exposed to particular sub-speciality aspects of neurology, including Parkinson's disease, neuromuscular disease, and epilepsy, and the combined clinical and laboratory investigations of neurological diseases. This placement is ideally suited to provide a solid clinical and academic foundation to those considering a career in neurology, but the experience will also be invaluable for other specialties. The department has a very active research programme, with Parkinson's disease a particular strength, including clinical and epidemiological research and clinical trials of new pharmacological approaches as well as basic molecular and genetic investigation of the underlying aetiology and biomarker research of disease. The trainees will be expected to participate in a clinical or lab-based research project within the department, and, if no suitable project is identified, appropriate projects across the entire UCL Institute of Neurology can be considered.

*Clinical commitments during academic placement*

2.5 days per week spent in the clinical neurology team, including a supervised outpatient clinic which provides an excellent early introduction to general neurology outpatient care.

*Departmental academic teaching programme (if applicable)*

Minimum of one-hour consultant teaching for neurology trainees per week. Weekly neurology clinical grand round with live case presentation and discussion, followed by lecture by internal or external speaker on various aspects of neurology and neuroscience. Weekly laboratory research meeting / journal club.

*Academic Lead:*

Prof Anette Schrag PhD FRCP  
Professor of Clinical Neurosciences  
Based at: Royal Free London NHS Foundation Trust (Royal Free Hospital)  
E-mail address: [a.schrag@ucl.ac.uk](mailto:a.schrag@ucl.ac.uk)

**Programmes 7 and 9 – Cellular Pathology – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/07

Reference: 2425/UCL/09

*Type of programme*

Research

<p><i>Employing trust:</i> Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>	<p><i>Academic placement based at:</i> Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>
<p><i>Brief outline of department</i></p> <p>Cellular Pathology is the basis of most medical theory, research, and practice. This specialty comprises histopathology, which gives the diagnosis and other relevant information on biopsies and surgical resections; cytopathology, which gives the diagnosis on aspirated and other specimens of lesions; and autopsy pathology, which is still of importance in modern medicine. Many specialties rely on pathologists both in everyday practice and in research. These include gastroenterology and gastrointestinal surgery; hepatology, hepatobiliary surgery, and liver transplantation; nephrology and renal transplantation; urology; neurology and neurosurgery; dermatology and plastic surgery; breast surgery; gynaecology and obstetrics; and haematological oncology.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>This rotation gives the opportunity for development of a wide range of skills practised in Cellular Pathology, for participation in the many tutorials given to pathologists in training, for helping to teach medical students, and for attendance at various clinicopathological meetings, which emphasise the role of the specialty in clinical management. There are also facilities for research on the great variety of material that is available, in collaboration with pathologists and others, and research will be encouraged and supported.</p>	
<p><i>Clinical commitments during academic placement</i> None</p>	
<p><i>Departmental academic teaching programme (if applicable)</i></p> <p><i>Academic Lead:</i></p> <p>Prof Alberto Quaglia Professor of Hepatopathology Based at: Royal Free London NHS Foundation Trust (Royal Free Hospital) E-mail address: <a href="mailto:alberto.quaglia@nhs.net">alberto.quaglia@nhs.net</a></p>	

**Programme 8 – Medical Education – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/08

*Type of programme*

FY2 Medical Education post

<p><i>Employing trust:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>	<p><i>Academic placement based at:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>
<p><i>Brief outline of department</i></p> <p>The PME department at RFH is well established and has an excellent track record. There are 630 trainees and 130 clinical fellows. The department is supported by a strong administrative team. The structure of the senior faculty and the governance of education and training are clear and strong. There is a vibrant Simulation department presenting a huge range of additional opportunities. The department has hosted two foundation education FY2s in the past and also has the benefit of several part-time education fellows. There are strong links with the undergraduate medical school and also with trust non-medical training. There is a tradition of multi-disciplinary learning.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>The FY2 trainee would be expected to participate in the life of the PME department. There would be twice weekly operation meetings with senior faculty. They would be expected to choose two to three specific education projects (from a large menu of possible projects or choose one of their own design) to develop, pilot, evaluate and present or publish during their time in the department. They will be mentored in Sim training and participate in several varied simulation activities. They will learn to use simulation equipment (Sim man, sim baby etc). They will be tutored and gain experience in feedback/de-brief and after-action reviews. They will participate in a monthly education journal club and be expected to present on more than one occasion. Their teaching sessions will be observed by a senior faculty member. Each teaching session will be evaluated by participants. The trainee will gain experience of multi-disciplinary teaching and will assist with the organization of the generic aspects of the FY1 mandatory teaching.</p>	
<p><i>Clinical commitments during academic placement</i></p> <p>The trainee will either gain some OPD experience in the institute of immunology and/or some evening/night A&amp;E or MAU experience.</p>	

<p><i>Departmental academic teaching programme (if applicable)</i></p> <p>Journal club (once per month)  FY1 didactic and generic programme  FY2 didactic and introduction to healthcare leadership (multi-disciplinary)</p>
<p><i>Academic Lead:</i></p> <p>Prof Aine Burns  Consultant nephrologist and Director of Post-Graduate Medical Education  Based at: Royal Free London NHS Foundation Trust (Royal Free Hospital)  E-mail address: <a href="mailto:aine.burns@nhs.net">aine.burns@nhs.net</a></p>

**Programmes 10 and 11 – Nuclear Medicine – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/10

Reference: 2425/UCL/11

*Type of programme*

Research

<p><i>Employing trust:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>	<p><i>Academic placement based at:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>
<p><i>Brief outline of department</i></p> <p>The department of nuclear medicine at the Royal Free hospital has the full range of diagnostic and therapeutic nuclear medicine facilities including radionuclide therapy and PET/CT.</p> <p>Previous academic projects are varied but include research into imaging and therapy of neuroendocrine tumours, musculoskeletal hybrid imaging, nuclear cardiology, and lung scanning. Nearly all FY2 projects are accepted as presentations at academic conferences or as original articles in international peer-reviewed journals.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>The Academic programme in Nuclear Medicine concentrates on functional imaging in the context of investigation of patients, and on research related to the techniques used and the evidence of clinical effectiveness. There will be particular links to endocrinology, oncology, and the Neuroendocrine Tumour Unit at the Royal Free Campus.</p>	



The trainee will thus gain an understanding of the requirements of research in Molecular Imaging. A wide range of diagnostic and therapeutic procedures (including radiological) are available. There will be access to specific teaching on the principles and practice of functional imaging and image analysis, and their application both in individual clinical cases and in research studies. The trainee will be expected to research issues of utility and selection of nuclear imaging techniques.

The goal is to give trainees the opportunity to experience and develop research techniques using the time and facilities in Nuclear Medicine, and to encourage consideration of a career in this field. Where possible, the individual interests of the trainee will be accommodated.

*Clinical commitments during academic placement*

Varied, however, approximately 30% of the time. Most clinical commitments relate to cardiac stressing done as part of myocardial perfusion studies.

*Departmental academic teaching programme (if applicable)*

Monthly departmental teaching plus regular audit meetings.

*Academic Lead:*

Dr Thomas Wagner  
 Consultant nuclear medicine physician  
 Based at: Royal Free London NHS Foundation Trust (Royal Free Hospital)  
 E-mail address: [thomas.wagner@nhs.net](mailto:thomas.wagner@nhs.net)

**Programme 12 – Radiology – Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/12

*Type of programme*

Research/audit/clinical liaison and Simulation lab

<i>Employing trust:</i>	<i>Academic placement based at:</i>
Royal Free London NHS Foundation Trust (Royal Free Hospital)	Royal Free London NHS Foundation Trust (Royal Free Hospital)

*Brief outline of department*

Radiology is a rapidly expanding specialty with Interventional Radiology a subspecialty in its own right. It incorporates all areas of applied medicine and demands intimate knowledge of anatomy. Trained interventional specialists require a

detailed knowledge of pre- and post-operative disease and an excellent understanding of anatomy and pathological processes and their imaging findings. Radiologists interact with all sub specialities, but the Interventional Radiologists at the Royal Free site specialise in Vascular and Hepatobiliary (HPB) intervention. The Royal Free Hospital is now the largest adult HPB centre in the UK and the regional hub for Vascular surgery.

All trainees are encouraged and supported in entering abstracts for national and international meetings.

Recent areas of research from our Interventional Radiology Department include:

Review of the use of Avitene collagen flour paste in embolisation of percutaneous access site in hepatobiliary and renal intervention

Use of transabdominal ultrasound-guided transjugular portal vein puncture on radiation dose in transjugular intrahepatic portosystemic shunt

*Structure of academic project/what expected*

The F2 doctor will be involved in the multicentre randomised trial NIHR Health Technology Assessment of resection vs ablation for high-risk patients with CRC liver metastases. Trial due to start Jan 2016. We would expect this to include the writing up and publication of the research. We would also hope to involve the trainee in continuing the research database.

*Clinical commitments during academic placement*

The trainee will assist the Radiology Specialist Registrars and gain insights into the whole of the Radiology Department. They will be expected to attend MDTs and all departmental teaching and be involved in the simulation lab.

*Departmental academic teaching programme (if applicable)*

Daily morning teaching and monthly departmental teaching meetings.

*Academic Lead:*

Dr Mohamed Khalifa  
Consultant Interventional Radiologist & Endovascular Surgeon  
Based at: Royal Free London NHS Foundation Trust (Royal Free Hospital)  
E-mail address: [mkhalifa@nhs.net](mailto:mkhalifa@nhs.net)

## Programmes 13, 14 & 15 – Primary Care and Population Health – based at Whittington Health

Reference: 2425/UCL/13

Reference: 2425/UCL/14

Reference: 2425/UCL/15

### *Type of programme*

Research

<p><i>Employing trust:</i></p> <p>Whittington Health</p>	<p><i>Academic placement based at:</i></p> <p>UCL Department of Primary Care &amp; Population Health, Royal Free Campus</p>
<p><i>Brief outline of department</i></p> <p>Three Academic F2 posts are hosted each year by <a href="#">UCL Department of Primary Care &amp; Population Health</a> (PCPH) working closely with other departments within the <a href="#">Institute of Epidemiology &amp; Health Care</a>.</p> <p>Our research focuses on health issues which are top priorities for patients and for health services.</p> <p>We research the entire life cycle of complex interventions, starting with understanding health problems from patients' perspectives, and using a range of research approaches (including qualitative, quantitative, modelling and health economic methods) to develop, evaluate and implement interventions within the following priority areas:</p> <ul style="list-style-type: none"> <li>• <a href="#">Ageing</a></li> <li>• <a href="#">eHealth</a></li> <li>• <a href="#">Mental Health</a></li> <li>• <a href="#">Sexual Health and Infection</a></li> <li>• <a href="#">Medical Education</a></li> </ul> <p>Our research teams involve many different disciplines, including doctors, nurses, physiotherapists, pharmacists, dentists, psychologists, epidemiologists, statisticians, sociologists, health economists, and patient and public representatives (Experts through Experience)</p> <p>The department also has a major programme of undergraduate teaching, delivering 15% of teaching across all 6 years of the UCL undergraduate medical curriculum, as well as active postgraduate taught and research degree programmes. The department has a successful history of hosting academic training integrated with clinical roles.</p>	

### *Structure of academic project/what expected*

During the PCPH Specialised Foundation attachment each trainee will be linked to an established research unit, according to interest and availability. They will participate as a member of the research group, attending project meetings and undertaking research related tasks, either on currently funded projects, or on projects under development. Trainees will be exposed to a variety of research methods and have the opportunity for individualised training related to the project. Training in research methods is also available in face-to-face short course or online module format. Opportunities for training are available in medical statistics, quantitative and qualitative research methods. Trainees will also be encouraged to take a broader view of their clinical work, consistent with their academic perspective with opportunities to participate in the wide range of educational programmes delivered by this flagship multidisciplinary department. Trainees will also be able to participate in a range of short teaching courses and will have opportunities to teach medical students.

#### **Academic options**

Two academic options are offered in this rotation:

- (1) Primary care
- (2) Clinical Epidemiology

#### **(1) Primary care**

The trainee will be based in PCPH attached to one of the Department's primary care research groups

#### **(2) Clinical Epidemiology**

The Institute of Epidemiology and Health Care hosts research teams across a broad range of interests including cardiovascular and genetic epidemiology, life course epidemiology, health services research and psychobiology.

#### **Aims of the post**

The aim of the specialised foundation curriculum is to combine clinical training with opportunities for trainees to develop skills and knowledge in research to equip them for future training for an academic career. Trainees will be expected to acquire all the core competencies of foundation training, but in addition will be offered a range of opportunities to gain knowledge and skills related to both research and teaching.

#### **Intended learning outcomes**

The precise academic knowledge and skills gained will vary to some extent depending on the interests of the individual trainee. However, it is intended that this attachment will enable all PCPH F2 trainees:

- To gain an overview of the scope of clinical, epidemiological and health services research
- To learn about research methods and their appropriate application
- To learn about sources of knowledge and knowledge management

- To learn how to form research questions
- To learn how to critically appraise research
- To undertake a systematic search, evaluation and synthesis of previous research related to a chosen question
- To understand basic statistics and their application to research
- To understand the sources of funding for research and financial management of research
- To understand the ethics of research, consent and confidentiality
- To understand how research is regulated and governed
- To write a research protocol
- To plan and if possible, undertake a pilot study
- To demonstrate ability to plan, deliver and evaluate a teaching session/academic presentation.

*Clinical commitments during academic placement*

There is no formal requirement for clinical activity in this post, but individuals will have the opportunity to undertake short shadowing attachments by arrangement in general practice or other clinical specialties of their choice.

*Departmental academic teaching programme (if applicable)*

In addition to the Foundation Programme's own academic seminars UCL offers a variety of research and teaching courses suitable for those pursuing academic careers. Specialised Foundation trainees will have the opportunity to attend these and should review, at the start of the rotation, with their academic mentor those that will be especially relevant.

*Academic Lead:*

Professor Joe Rosenthal  
 Clinical Professor of Primary Care Education  
 Based at: Department of Primary Care & Population Health, UCL Royal Free  
 E-mail address: [j.rosenthal@ucl.ac.uk](mailto:j.rosenthal@ucl.ac.uk)

**Programme 16 – Hepatology – based at Royal Free London NHS Foundation Trust (Royal Free Hospital)**

Reference: 2425/UCL/16

*Type of programme*

Research

<p><i>Employing trust:</i></p> <p>University College London Hospitals NHS Foundation Trust</p>	<p><i>Academic placement based at:</i></p> <p>Royal Free London NHS Foundation Trust (Royal Free Hospital)</p>
<p><i>Brief outline of department</i></p> <p>Hepatology is a major clinical speciality, and UCL has one of the largest academic departments of Hepatology in the UK and in Europe. The clinical practice is the investigation and treatment of all types of liver disease, from the investigation of abnormal liver function tests to liver transplantation. The associated clinical and laboratory science includes subjects as varied as chronic viral disease, hepatic fibrogenesis, liver regeneration and tissue bioengineering, the immunology of liver disease including transplant rejection, the pathophysiology of liver failure, cellular and molecular biology, hepatocyte transplantation, gene therapy, primary liver cancers, interventional radiology and biliary endoscopy.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>The academic attachment will include an attachment to a specific clinical scientist/investigator for training, with a defined achievable project intended to lead to a publication or presentation. Clinically orientated laboratories using physiological, biochemical, immunological and cellular and molecular biotechnologies are in current use in well-equipped laboratories. Clinical projects might involve biliary endoscopy, alcoholic liver disease, non-alcoholic fatty liver disease, immune-mediated liver disease, cirrhosis and complications of portal hypertension and clinical trials such as the use of anti-viral agents for chronic hepatitis, new approaches to immunosuppression, and improvements in the management of acute and acute on chronic liver failure.</p> <p>Trainees may also have some clinical training relevant to the understanding of and treatment of severely ill patients, applicable to many other specialities such as intensive care, nephrology and cardiology, and direct involvement will provide important training in the F2 competencies. Trainees will be allocated an academic and clinical supervisor who will ensure that the aims of the attachment and of the Foundation Programme are met.</p>	

<i>Clinical commitments during academic placement</i>
None
<i>Departmental academic teaching programme (if applicable)</i>
Journal club, regular research seminars/guest lectures, clinical meetings (weekly updates in Hepatology, radiological and histopathological conferences)
<i>Academic Lead:</i>
Prof Emmanouil Tsochatzis E-mail address: <a href="mailto:e.tsochatzis@ucl.ac.uk">e.tsochatzis@ucl.ac.uk</a>

**Programme 17 – Paediatrics – based at University College London Hospitals NHS Foundation Trust**

Reference: 2425/UCL/17

*Type of programme*

Research

<i>Employing trust:</i>	<i>Academic placement based at:</i>
University College London Hospitals NHS Foundation Trust	University College London Hospitals NHS Foundation Trust and Great Ormond Street Institute of Child Health

*Brief outline of department*

Paediatrics is a challenging and rewarding specialty with major innovations ongoing driven in part by clinician scientists under the auspices of the NIHR child health network and other funding bodies. Academic Paediatrics encompasses a vast area ranging from the genetics and molecular biology of congenital diseases, through improved understanding and management of prematurity and chronic childhood conditions to environmental, social and educational influences on the developing child. Our programme will integrate clinical training in Neonates and General Paediatrics at University College London Hospital with formal research training sessions at the Institute of Child Health and Great Ormond Street; opportunities for short projects will also be offered at these sites, which have an international reputation for excellence in clinical and basic academic research.

*Structure of academic project/what expected*

Our programme aims to nurture future Academic Paediatricians. Trainees will be fully integrated into our teaching and research programmes, with core training in basic Paediatrics suitable for the foundation stage and exposure to diverse research

areas that will enable them to make an informed decision on their future academic direction. At least one day per week will be spent on basic research training, with dedicated foundation programme sessions and a choice of additional 'taster' modules from higher degree courses. Each trainee will have an academic and clinical supervisor, and regular meetings will be arranged to optimise their experience of Academic Paediatrics within the framework of the general Foundation Programme requirements. Almost all of the talented individuals appointed to this post get in touch in advance (once formally appointed) and get opportunities before joining the placement. Almost all have moved on to ACF's and all have published during their placement. UCL GOS ICH is the second-best research cluster in the world for child health research and if you start with us, it will set you on a path to a successful career in Academic Paediatrics.

*Clinical commitments during academic placement*

Clinical commitments are small, this is in essence a research placement with exposure to branches of paediatrics arranged by the academic lead, in agreement with the appointee according to his/her interests.

*Departmental academic teaching programme (if applicable)*

Institute for Child Health has a huge postgraduate programme and is particularly strong in statistical courses.

*Academic Lead:*

Professor A G Sutcliffe MD PhD FRCPCH  
Professor of General Paediatrics ICH, UCL,  
Honorary Consultant Paediatrician at GOSH  
Based at: UCL GOS Institute of Child Health  
E-mail address: [a.sutcliffe@ucl.ac.uk](mailto:a.sutcliffe@ucl.ac.uk)



**Programme 18 – Psychiatry – based at Camden and Islington Foundation Trust** (linked to University College London Hospitals NHS Foundation Trust)

Reference: 2425/UCL/18

*Type of programme:* Research

<p><i>Employing trust:</i> University College London Hospitals NHS Foundation Trust</p>	<p><i>Academic placement based at:</i> UCL Division of Psychiatry/ Camden and Islington Foundation Trust</p>
<p><i>Brief outline of department</i> UCL is the top-ranked university in the UK for research power in Psychology, Psychiatry and Neuroscience (UK’s Research Excellence Framework 2021). The UCL Division of Psychiatry comprises the Epidemiology and Applied Clinical Research Department, the Marie Curie Palliative Care Research Department, Mental Health Neuroscience Department and Mental Health of Older People Department. Researchers in the division conducts internationally recognised research in psychiatric epidemiology, molecular genetics, dementia, psychosis, depression, palliative care, health services research and randomised trials of complex treatments in primary and mental health care. The Head of the Division is <a href="#">Professor Glyn Lewis</a>.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>The academic FY2 post will provide a mixture of research and clinical experience depending on individual needs of the trainee. The goal is to give trainees the opportunity to experience and develop research techniques and gain an understanding of the requirement of research They will learn skills such as formulating a research question, critically appraising a paper, undertaking a systematic literature review, undertaking a research project, and writing up for publication/presentation. There may be involvement in undergraduate teaching.</p>	
<p><i>Clinical commitments during academic placement</i></p> <p>Where appropriate, the trainee will learn how to take a history, mental state examination, produce a psychiatric formulation and initial management plan and undertake risk assessments.</p>	
<p><i>Departmental academic teaching programme (if applicable)</i></p> <p>There will be opportunities to participate in a range of educational programmes in the academic department and mental health trust.</p>	
<p><i>Academic Lead:</i></p> <p>Dr Sergi Costafreda Gonzalez Associate Professor, Dementia research and Consultant Based at: UCL and Camden and Islington Foundation Trust E-mail address: <a href="mailto:s.costafreda@ucl.ac.uk">s.costafreda@ucl.ac.uk</a></p>	

**Programme 19 – Women’s Health – based at University College London Hospitals NHS Foundation Trust**

Reference: 2425/UCL/19

*Type of programme*

This programme aims to provide the post holder with experience of research in a leading research group within Women’s Health. Training will be provided in relevant methodologies. The immediate goal will be to provide an opportunity to acquire novel research data for presentation/publication.

<i>Employing trust:</i>	<i>Academic placement based at:</i>
University College London Hospitals NHS Foundation Trust	Institute for Women’s Health, University College London

*Brief outline of department*

Obstetrics & Gynaecology (O&G) is the core of Women’s Health. It provides a unique combination of medical and surgical skills and the care of healthy people (e.g. normal pregnancy or for contraception) and ill patients (e.g. pregnancy complications, gynaecological cancers). It plays a major part in the prevention of disease (e.g. cancers, birth defects) and in promoting the health of future generations.

The Institute for Women’s Health (<http://www.ucl.ac.uk/womens-health>) links 4 internationally recognised research Departments in Maternal Fetal Medicine, Women’s Cancer, Reproductive Health and Neonatology, with corresponding clinical departments within UCLH. This unique pairing of clinical and research skills provides a fantastic setting for a junior clinical academic trainee to learn appropriate research skills. The Institute has hosted a regular throughput of academic trainees on the Integrated academic pathway since the scheme was started. As an example, past holders of academic FY2 posts have been involved in projects addressing the mechanism contributing to preterm labour, gene therapy for foetal growth restriction, the role of epigenetic regulation in determining fetal size at birth as well as a study into the global use of contraception.

*Structure of academic project/what expected*

The goal is to give trainees the opportunity to gain an understanding of research methodology, exposure to research techniques and undertake a research project. They will acquire skills such as formulating a research question, critically appraising a paper, undertaking a systematic literature review/project and writing it up for publication/presentation.

Trainees will meet and discuss potential projects with the senior investigators in all research departments in FY1, prior to finalising a research project of their choice which they will undertake during their academic block in FY2. They are encouraged

to liaise with their project leads and where possible complete GCP, Data Protection and other basic research courses prior to start of the project. They will be expected to participate in the research activities of the department.

*Clinical commitments during academic placement*

Owing to the relatively short period of time available in the academic block, research activity is the predominant component. The post holder will undertake limited clinical activity where it is relevant to the research being undertaken e.g. working in a specialist clinic and helping recruit patients.

*Departmental academic teaching programme (if applicable)*

Applicants will engage in the regular teaching programme available within the Institute as well as the NHS Trust.

*Academic Lead:*

Professor Dimitrios Siassakos  
 Professor in Obstetrics and Gynaecology  
 Based at: University College London Hospitals NHS Foundation Trust  
 Institute for Women’s Health, University College London  
 E-mail address: [d.siasakos@ucl.ac.uk](mailto:d.siasakos@ucl.ac.uk)

**Programme 20 – Clinical Pharmacology/Cardiovascular Medicine – based at University College London Hospitals NHS Foundation Trust**

Reference: 2425/UCL/20

*Type of programme*

Research-based attachment in basic or clinical laboratories

<i>Employing trust:</i>	<i>Academic placement based at:</i>
University College London Hospitals NHS Foundation Trust	University College London Hospitals NHS Foundation Trust

*Brief outline of department*

The attachment offers high-quality experience and training in clinical academic medicine in a unit with strengths in the delivery of evidence-based clinical care, as well as biomedical and translational research. The clinical firm cares for patients presenting to University College Hospitals (UCLH) with a broad range of general medical, multisystem and cardiovascular disorders, and there are close links with the specialist services Cardiology, Heart Failure, Renal and Endocrine services. Consultants and trainees are involved in evaluating new medicines for

inclusion in the hospital formulary and in the development of drug policy and use a rigorous evidence-based approach. Research activity is located in close proximity to the hospital at the Centres for Clinical Pharmacology and Cardiovascular Medicine, UCL Institute of Cardiovascular Science and the Farr Institute of Health Informatics Research at UCL, where research groups are engaged in genomic medicine, understanding the fundamental basis of cardiovascular disease, and key underlying processes including inflammation and atherogenesis supported by the British Heart Foundation, MRC, and Wellcome Trust.

There are well-equipped BHF-funded laboratories with core facilities for cell culture, patch-clamping, FACS analysis, genomics, organ bath pharmacology and clinical investigation. Interests range from the molecular electrophysiology of cardiac and vascular cells, through the regulation of endothelial function and the basic biology of endothelial mediators in health and disease, to genetic epidemiology, health informatics and systematic reviews of healthcare interventions.

*Structure of academic project/what expected*

Mentors will support trainees in their clinical and academic development during this attachment, preparing them for a career as academic physicians.

*Clinical commitments during academic placement*

None

*Departmental academic teaching programme (if applicable)*

Weekly Grand Round. Weekly seminar series. Weekly post clinic teaching meeting. Monthly firm meetings with invited speakers Regular research in progress meetings and departmental seminars.

*Academic Lead:*

Dr Andrew Scourfield

E-mail address: [andrew.scourfield@nhs.net](mailto:andrew.scourfield@nhs.net)

**Programme 21 – Anaesthetics – based at University College London Hospitals NHS Foundation Trust**

Reference: 2425/UCL/21

*Type of programme:* Quality improvement/research/audit/clinical liaison

<p><i>Employing trust:</i> University College London Hospitals NHS Foundation Trust</p>	<p><i>Academic placement based at:</i> University College London Hospitals NHS Foundation Trust</p>
<p><i>Brief outline of department</i></p> <p>Anaesthesia and Perioperative Medicine clinicians interact with almost all acute medical and surgical specialities across the spectrum of acute illness. Alongside our clinical care we are an exciting, dynamic, and welcoming group engaged in moving forward the care of patients having surgery.</p> <p>Our department of Anaesthesia and Perioperative Medicine has experts in perioperative medicine, clinical trials, quality improvement, preoperative risk assessment and exercise physiology. We run an innovative MSc in Perioperative Medicine and teach on many other of UCL's programmes such as cardiovascular and respiratory physiology. We teach MBBS students in years 1, 4 and 6.</p>	
<p><i>Structure of academic project/what expected</i></p> <p>Trainees will be directly involved in quality improvement, educational and perioperative medicine projects in a very supportive atmosphere. For current details please consult <a href="http://www.ucl.ac.uk/anaesthesia">www.ucl.ac.uk/anaesthesia</a> and/or contact Dr Robert Stephens (see below).</p>	
<p><i>Clinical commitments during academic placement</i></p> <p>Trainees will have some time in theatre, preoperative assessment, exercise testing and the post anaesthesia care unit all with dedicated teaching doctors. This is so the trainees understand the processes involved. Trainees can also do our unique online learning module in Perioperative Medicine.</p>	
<p><i>Departmental academic teaching programme (if applicable)</i></p> <p>Weekly QI Tuesday meeting- Dr Ramani Moonesinghe's Group. A rolling dynamic programme of external and internal presentations on quality improvement</p>	
<p><i>Academic Lead:</i></p> <p>Dr Robert CM Stephens Associate Professor in Anaesthesia &amp; Perioperative Medicine Based at: University College London Hospitals NHS Foundation Trust E-mail address: <a href="mailto:robcstephens@gmail.com">robcstephens@gmail.com</a></p>	

#### 4. THE MEDICAL SCHOOL AND PARTNER TRUSTS

##### **UCL Medical School**

UCL Medical School is committed to excellence in education and has a strong reputation for teaching informed by cutting-edge research. The School has a distinguished cadre of academic staff who are at the forefront of international research in medical sciences and clinical medicine.

Staff research activities, directed towards patient-centred outcomes, are supported by partnerships with NHS trusts. Several world famous clinical and research institutions are closely associated with the Medical School. The school is one of the largest in the country and is situated in the heart of London at three main campuses; the Bloomsbury campus, the Royal Free campus, and the Whittington campus; all with clinical facilities, teaching laboratories, lecture theatres and libraries.

UCL Medical School has a distinguished history; it emerged from the amalgamation of Middlesex Hospital, University College Hospital and the Royal Free Hospital. These organisations combine a rich past in the history of science and medicine with advanced clinical practice. Among past and present staff are Nobel Prize winners (Huxley, Hill and Katz) and numerous Fellows of the Royal Society and the Academy of Medical Sciences.

The North Central Foundation School has academic training programmes in the following Trusts:

##### **Royal Free Hospital (Royal Free London NHS Foundation Trust)**

The Royal Free Hospital has around 900 beds and sees about 700,000 patients a year from all over the world. The Trust employs around 4,600 people and has a turnover of about £450m. The services include a major accident and emergency service, all branches of surgery and medicine, a renal service serving the whole of north London, paediatrics, maternity services, care of elderly people, an adolescent psychiatric service and one of two high security infectious diseases units in the country.

Royal Free is renowned for their specialist services including liver, kidney and bone marrow transplantation, renal, AIDS/HIV, infectious diseases, plastic surgery, immunology, paediatric gastroenterology, ENT surgery and audiological medicine, amyloidosis and scleroderma. The Trust is a leading cancer centre with a range of specialist diagnostic and treatment services in oncology and haematology and a major neuroscience base with a network extending throughout north London and into the Home Counties. There are associated internationally recognised research and training programmes.

The hospitals and associated medical school conduct medical research, much of which is of international status, and constitute a leading site for the training of doctors, nurses, midwives, and professions allied to medicine.

### **The Whittington Health**

The Whittington Health is an acute general teaching hospital situated in Archway, in the north of Islington. The Trust primarily serves the communities of north Islington and west Haringey, a population of approximately 250,000 people. The hospital also treats a significant number of patients from Camden, Barnet and Hackney. There are 467 beds and over 2,000 staff. The Whittington is one of the teaching hospitals of the University of London. The Trust provides clinical placements for undergraduates and has a large post-graduate training centre. In addition, it provides training for a wide range of other health professionals including nurses, midwives, radiographers and dieticians.

### **University College London Hospitals NHS Foundation Trust**

University College London Hospitals NHS Foundation Trust (UCLH), situated in the heart of London, is one of the most complex NHS Trusts in the United Kingdom, serving a large and diverse population. UCLH provides academically led acute and specialist services, both locally and to patients from throughout the United Kingdom and abroad. UCLH balances the provision of highly rated specialist services with providing acute services to the local populations of Camden, Islington, Westminster and the City of London.

The Trust has a turnover of £632 million and contracts with more than 150 Primary Care Trusts to provide services. They treat over 500,000 outpatients' appointments and admit 100,000 patients each year. UCLH employs 6,000 staff and is a major teaching centre offering training for nurses, doctors, and other health care professionals.

The Trust has an international reputation and a tradition of innovation. Their excellence in research and development was recognised in December 2006 when in partnership with University College London they became one of the country's five comprehensive biomedical research centres. Operational from September 2008, UCL Partners was created, bringing together five of Britain's world-renowned medical research centres and hospitals: UCL (University College London); Great Ormond Street Hospital for Children NHS Trust (GOSH); Moorfields Eye Hospital NHS Foundation Trust; the Royal Free London NHS Foundation Trust; and University College London Hospitals NHS Foundation Trust.