

Specialised Foundation Programme (SFP)

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2-YEAR Specialised Foundation Programmes (SFP) at Queen Mary, University of London

Introduction

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

Details of Training Programmes

A spread sheet summarising all of the available programmes is available to download from <http://www.stfs.kss.hee.nhs.uk/tfs-academic-foundation-programme-recruitment>.

Programme Reference	Programme Theme	Based at
2627/QMUL/01	Academic Public Health	Barts and the Royal London Hospitals
2627/QMUL/02	Academic Public Health	Barts and the Royal London Hospitals
2627/QMUL/03	Academic Public Health	Barts and the Royal London Hospitals
2627/QMUL/04	Academic Clinical Pharmacology AND/OR Critical Care	Barts and the Royal London Hospitals
2627/QMUL/05	Academic Clinical Pharmacology AND/OR Critical Care	Barts and the Royal London Hospitals
2627/QMUL/06	Academic Clinical Pharmacology AND/OR Critical Care	Barts and the Royal London Hospitals
2627/QMUL/07	Academic Endocrinology AND/OR Diabetes	Barts and the Royal London Hospitals
2627/QMUL/08	Academic Endocrinology AND/OR Diabetes	Barts and the Royal London Hospitals
2627/QMUL/09	Academic Endocrinology AND/OR Diabetes	Barts and the Royal London Hospitals
2627/QMUL/10	Academic Hepatology	Barts and the Royal London Hospitals
2627/QMUL/11	Academic Hepatology	Barts and the Royal London Hospitals
2627/QMUL/12	Academic Hepatology	Barts and the Royal London Hospitals
2627/QMUL/13	Academic Nuclear Medicine AND/OR Medical Oncology	Barts and the Royal London Hospitals
2627/QMUL/14	Academic Nuclear Medicine AND/OR Medical Oncology	Barts and the Royal London Hospitals
2627/QMUL/15	Academic Nuclear Medicine AND/OR Medical Oncology	Barts and the Royal London Hospitals
2627/QMUL/16	Academic Neurology	Barts and the Royal London Hospitals
2627/QMUL/17	Academic Neurology	Barts and the Royal London Hospitals

2627/QMUL/18	Academic Neurology	Barts and the Royal London Hospitals
2627/QMUL/19	Academic Orthopaedics	Barts and the Royal London Hospitals
2627/QMUL/20	Academic Orthopaedics	Barts and the Royal London Hospitals
2627/QMUL/21	Academic Orthopaedics	Barts and the Royal London Hospitals
2627/QMUL/22	Academic General Practice	Barts and the Royal London Hospitals
2627/QMUL/23	Academic General Practice	Barts and the Royal London Hospitals
2627/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.

1. PLACEMENTS

Successful applicants are recruited to a specific 4-month academic 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.

Programme 1 – Academic Public Health

Reference: 2627/QMUL/01

Reference: 2627/QMUL/02

Reference: 2627/QMUL/03

Type of programme – Academic Public Health	
Employing trust: Barts Health NHS Trust	Academic placement based at: Whitechapel Campus
Brief outline of department: Trainees will work within the Wolfson Institute of Population Health's Centre for Public Health & Policy, led by Prof Oyinola 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. The Centre is organised into four Units: (i) Global Public Health Unit, (ii) Health and Lifestyle Unit, (iii) Women's Health Research Unit and (iv) Research and Action on Salt and Obesity. We collaborate with other Centres across the Institute (and beyond) on other Population Health themes.	
Structure of academic project/what expected: A choice of research project will be provided, where possible based on the trainee's interests and experience. Research projects will comprise evidence collection, data analysis and presentation, and networking with stakeholders. It is expected that a written report will be produced with a view to subsequent publication. Trainees will also be taught management skills including presenting data and evidence, handling meetings, and persuading and motivating colleagues. Trainees are also welcome to collaborate on additional projects ongoing in the Centre during their placement.	
Clinical experience available during academic placement: None	
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 Lead: Prof Oyinola Oyebode Professor of Public Health and Lead, Centre for Public Health and Policy, Wolfson Institute of Population Health. o.oyebode@qmul.ac.uk	

Programme 2 – Academic Clinical Pharmacology AND/OR Critical Care

Reference: 2627/QMUL/04

Reference: 2627/QMUL/05

Reference: 2627/QMUL/06

Type of programme- Successful applicants will be able to <u>choose</u> between the following two Academic specialties depending on their interests and following discussions with Academic Programme Leads: • Academic Clinical Pharmacology AND/OR • Academic Critical Care	
Employing Trust: Barts Health NHS Trust	Academic placement based at: Barts and the Royal London Hospitals
Brief outline of department: <u>Academic Clinical Pharmacology</u> This post is based at the Department of Clinical Pharmacology at Barts and The London, Charterhouse Square campus, London EC1M. 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 this 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 encouraged to contribute to departmental teaching activities and work towards 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. <u>Academic Critical Care</u> The critical care unit at the Royal London currently comprises 20 consultants and 44 beds. The ICU the Critical Care & Perioperative Medicine Research Group https://www.qmul.ac.uk/ccpmg/ is led by two professors, a Clinical Reader and 2 Clinical 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.	
Structure of academic project/what expected: <u>Academic Critical Care</u> 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 as well as an understand or research methodologies and their application to patient population during and after critical illness and major surgery.	

<u>Academic Clinical Pharmacology</u> The trainee has opportunities to 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 are not mandatory.	
<i>Clinical opportunities available during academic placement:</i> <u>Academic Clinical Pharmacology</u> These 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. <u>Academic Critical Care</u> The placement is primarily based on the critical care unit at the Royal London Hospital. 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. Clinical experience of 1-2 weeks clinical work joining the team in critical care is available in addition to provide a taster of clinical critical care in addition to the academic experience within the research group.	
<i>Departmental academic teaching programme:</i> <u>Academic Clinical Pharmacology</u> 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 can 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. <u>Academic Critical Care</u> 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.	
<i>Academic Leads:</i> <u>Academic Clinical Pharmacology</u> Dr Ajay Gupta – Consultant Clinical Pharmacology Ajay.gupta@qmul.ac.uk	<u>Academic Critical Care</u> Dr John Prowle Clinical Reader in Critical Care Nephrology Honorary Consultant in Intensive Care & Renal Medicine j.prowle@qmul.ac.uk

Programme 3 – Academic Endocrinology AND/OR Diabetes

Reference: 2627/QMUL/07

Reference: 2627/QMUL/08

Reference: 2627/QMUL/09

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**

Employing trust:

Barts Health NHS Trust

Academic placement based at:

Barts and the Royal London Hospitals

Brief outline of department:

Endocrinology

The William Harvey Research Institute (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. SFP trainees may pursue projects in a wide range of subjects including adrenal disease, pituitary/peri-pituitary tumours, including craniopharyngioma, puberty disorders, obesity /metabolism and growth. These areas of research complement the clinical interests of the endocrine department at St Bartholomew's and paediatric endocrine department at the Royal London Hospital, the former which was recently awarded 5* Centre of Excellence status by the European Network for the Study of Adrenal Tumours (ENSAT) and the Pheo Para Alliance. Principle investigators within the WHRI include Professors Morris Brown and William Drake (primary aldosteronism); Professor Paul Chapple and Dr Scott Akker (phaeochromocytoma and paraganglioma); Dr Leo Guasti (adrenal cancer); Professor Márta Korbonits (pituitary tumorigenesis); Professor Lou Metherell (adrenal genetics and biology), Dr Carles Gaston-Massuet (craniopharyngioma), Dr Sasha Howard (puberty and reproduction), Prof Li Chan (adrenal, obesity and metabolism and Dr Rathil Prasad (adrenal).

Diabetes

The Wolfson Institute of Population Health is an interdisciplinary institute within Barts and The London School of Medicine and Dentistry, Queen Mary University of London. WIPH delivers 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 Professor Sarah Finan's interdisciplinary research group working on diabetes and multimorbidity, with a major focus on diverse populations and health inequalities. Her work attracts funding from NIHR, MRC and Wellcome Trust. Professor Finan is co-lead of the Genes & Health 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. She also is the QMUL lead for a Wellcome Discovery Award investigating factors such as genetic ancestry, age and sex that affect the accuracy of HbA1c, to develop precision medicine approaches to its use.

<i>Structure of academic project/what expected:</i> 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 his/her 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) systematic review of management of infants with central hypogonadism, (e) defining the diagnostic accuracy and safety of saline infusion and captopril testing in the investigation of primary aldosteronism, (f) clinical cohort data analysis project of diagnosis in adolescents with delayed puberty, (g) analysing quality of life data in a large prospective dataset of patients with primary aldosteronism undergoing adrenalectomy.	
<i>Clinical opportunities available during academic placement:</i> 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.	
<i>Departmental academic teaching programme:</i> 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 Endocrinology Professor Will Drake - Consultant Endocrinologist w.m.drake@qmul.ac.uk	Diabetes Professor Sarah Finer – Professor of Clinical Diabetes and Honorary Consultant Diabetologist s.finer@qmul.ac.uk

Programme 4 – Academic Hepatology

Reference: 2627/QMUL/10

Reference: 2627/QMUL/11

Reference: 2627/QMUL/12

Type of programme- Academic Hepatology	
Employing trust: Barts Health NHS Trust	Academic placement based at: The Royal London Hospitals
Brief outline of department: Barts Liver Centre is part of QMUL's Blizard Institute and consists of over 40 basic and clinical scientists, doctors and nurses. Group leaders, Professors Alazawi and Kennedy and Dr Gill, 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. 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. 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. The Centre collaborates with clinical departments of Diabetes and Obesity, Bariatric Surgery, Paediatrics and Virology and has strong 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. 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.	
Structure of academic project/what expected: 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.	
Clinical opportunities available during academic placement: The placement is 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 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 Lead: Dr Upkar Gill u.gill@qmul.ac.uk Clinical Senior Lecturer and Honorary Consultant Hepatologist	

Programme 5 – Academic Nuclear Medicine AND/OR Medical Oncology

Reference: 2627/QMUL/13

Reference: 2627/QMUL/14

Reference: 2627/QMUL/15

Type of programme-

Academic Nuclear Medicine AND/OR Medical Oncology

Employing trust:

Barts Health NHS Trust

Academic placement based at:

St Bartholomew's Hospital

Brief outline of department:

This SFP rotation comprises experience of nuclear medicine, located primarily at St Bartholomew's Hospital, and medical oncology clinical practice and research. Both oncology and nuclear medicine showcase a range of clinical and research expertise with several consultants, clinical research fellows, postgraduate students and clinical trial practitioners. There are also links with the Barts Cancer Institute (BCI), part of QMUL with a portfolio of basic, translational and clinical research related to cancer.

1. Nuclear medicine department – St Bartholomew's Hospital
2. Medical Oncology Department – St Bartholomew's Hospital /Barts Cancer Institute at Charterhouse Square (www.bci.qmul.ac.uk)

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 Tahir Hussain 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).

Medical Oncology

The Oncology Department at St Bartholomew's Hospital has an international reputation for delivering high quality care. There is a large clinical trial network within the department, supported by the Barts Cancer Institute (BCI) and Experimental Cancer Medicine Centre (ECMC). The department includes world-leading clinicians, who have led and published practice changing clinical trials within their field. Thus, successful applicants will have exposure to academic and commercial studies that will further their academic understanding and collaborations within a clinical setting.

Barts Cancer Institute is a CRUK Centre of Excellence (£12.5M over 5 years for research infrastructure and training), and a partner in the CRUK City of London Major

Centre (£14M over four years for the UCL/Barts/Kings/Crick consortium developing novel, targeted biotherapies for cancer). The Institute employs over 400 researchers, including 52 Principal Investigators and 107 PhD students of whom 40 are clinical research fellows. The completion rate within four years is the highest in the University. The Institute comprises six Centres; Genomics & Computational Biology, Cancer Cell & Molecular Biology, Cancer Biomarkers & Biotherapeutics, Tumour Biology, Tumour Microenvironment and Haemato-Oncology.

Barts Experimental Cancer Medicine Centre is an immunotherapy Centre of Research Excellence (imCORE centre) and part of a global network of basic and clinical scientists from 26 leading academic research institutions in cancer immunotherapy who work together to accelerate the characterisation of complex biology and drive novel immunotherapy combination strategies to identify ways for more patients to benefit from immunotherapy. Prof P. Schmid (and Prof T. Powles are the scientific leads of the Barts imCORE centre. At any one time, the Centre is running over 130 clinical trials (including around 40 early phase studies) of novel biological and immune therapies, new combinations of chemotherapy drugs and radiotherapy studies. After training in Good Clinical Practice, trainees are routinely included as sub-PI's on the delegation log and gain first-hand experience of screening, recruiting and managing patients on clinical trials.

Numerous clinical academics in medical oncology split their time across these three centres, and the BCI also boasts a plethora of high-profile basic and clinical research leaders.

Structure of academic project/what expected:

The trainees will be based within the nuclear medicine team, with opportunities to spend time with medical oncology teams during their placement. The SFP fellow should discuss with their clinical supervisor how they wish to split their time depending on their interests and future ambitions, to make the best use of their time, which can also include experience in Radiology

Clinical opportunities available during academic placement:

Working Day: Monday – Friday 9am – 5pm

The SFP fellow can discuss with their educational supervisor how their week will be structured depending on academic goals and interests.

Training in Nuclear Medicine Department would include the understanding of clinical, physiological and pathophysiological aspects of the specialty with particular focus on oncological imaging and therapies. The candidate will gain understanding of the use of radiopharmaceuticals, along with exposure to the planar, SPECT-CT and PET-CT imaging. The candidate gain an understanding of various PET tracers used for both oncological and non oncological indications, including their normal and abnormal patterns of distribution, in both functional and anatomical imaging . In addition, there will be an opportunity to report available scans under supervision and participate in radionuclide therapy.

Outpatient and inpatient oncology and or radiology experience can be arranged depending on individual interest.

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 be encouraged and supported to present at both internal and external scientific meetings/

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:

Medical Oncology

Dr Alison May Berner

Academic Clinical Lecturer in Medical
Oncology

Barts Cancer Institute

a.m.berner@gmul.ac.uk

Nuclear medicine

Dr Tahir Hussain

Consultant Nuclear Medicine

tahir.hussain1@nhs.net

Programme 6 – Academic Neurology

Reference: 2627/QMUL/16

Reference: 2627/QMUL/17

Reference: 2627/QMUL/18

Type of programme- Academic Neurology	
Employing trust: Barts Health NHS Trust	Academic placement based at: Royal London Hospital/QMUL
Brief outline of department: There are 16 consultant neurologists of which 3 are based primarily at Whipps Cross Hospital and 2 at Newham General Hospital. 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. Sub-specialisation within the department includes epilepsy, stroke, movement disorders, cognitive neurology, multiple sclerosis, neuro-rehabilitation and neuro-muscular/peripheral nerve/MND.	
Structure of academic project/what expected: There are two academic neurology Centres at QMUL: The Centre for Preventive Neurology is based within the Wolfson Institute of Population Health on the Charterhouse Square Campus. The CPN has particular focus on Parkinson's disease, multiple sclerosis and dementia led by three clinical professors (Alastair Noyce, Ruth Dobson and Charles Marshall). Research in these diseases at the CPN encompasses: • Early detection and diagnosis of neurological diseases • Risk factors and determinants including genetic and molecular epidemiology • Fluid, digital and imaging biomarkers • Participatory research and social science • Social determinants of brain health Gavin Giovannoni and Klaus Schmierer are the clinical professors in the internationally recognised Centre for Neuroscience and Trauma, which is based within the Blizzard institute on the Whitechapel campus. The CNT has approximately 85 research active staff and PhD students. The Centre's strategic research is focused on five broad themes: • trauma and surgical sciences, including neurosurgery • neurotrauma and neurodegenerative disorders, • neuroimmunology, • stem cells, regeneration and cancer and • genomics and cancer. Trainees will have the opportunity to select a project and supervisor according to their interests.	

Clinical opportunities available during academic placement:

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 and the neurology grandround at 9.15am

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 Lead:

Professor Charles Marshall
charles.marshall@qmul.ac.uk

Service Lead:

Dr Afraim Salek-Haddadi –
a.salek-haddadi@nhs.net

Programme 7 – Academic Orthopaedics

Reference: 2627/QMUL/19

Reference: 2627/QMUL/20

Reference: 2627/QMUL/21

Type of programme- Academic Orthopaedics	
Employing trust: Barts Health NHS Trust	Academic placement based at: The Royal London Hospital
Brief outline of department: Barts Bone & Joint Health, led by Professor Xavier Griffin, is collaboration between QMUL Blizard Institute and Barts Health NHS Trust. Our mission is to improve the health and wellbeing of people with bone & joint disorders and injuries. Orthopaedics benefits from a collaborative relationship with the <u>trauma research group</u> 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 <u>widespread expertise</u> in the conduct of pragmatic trials testing clinical effectiveness. The associated NHS hospitals of Barts Health are the busiest major trauma and <u>emergency centres in the UK</u>. Orthopaedics and wider musculoskeletal health are key priorities for the NIHR. Our research is cross cutting and spans the translational spectrum; experimental medicine in osteoarthritis and fracture healing, classical randomised clinical trials, systematic reviews, data enabled randomised controlled trials and health data informatics and device epidemiology. 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 <u>cluster and step-wedge</u>. The group has specific expertise in conducting hip fracture platform trials, now including <u>42 hospitals and 28,000 participants</u>. Coupled with this we have local expertise in perioperative multimodal interventions and their <u>testing within the NHS</u>. We work closely with the local population through established relationships with <u>local charities</u>, <u>local health organisations</u> and through established University <u>infrastructure</u>. This forms a key component of our work in <u>increasing the representation of underserved</u> populations in research design and delivery. We collaborate with other groups within QMUL including the <u>clinical effectiveness group</u> and the new formed <u>digital environment research institute</u>. In addition we collaborate with units <u>nationwide</u> 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.	

<i>Structure of academic project/what expected:</i> 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.
<i>Clinical opportunities available during academic placement:</i> 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.
<i>Departmental academic teaching programme:</i> 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.
<i>Academic Lead:</i> Dr Jerry Tsang j.tsang@qmul.ac.uk

Programme 8 – Academic General Practice

Reference: 2627/QMUL/22

Reference: 2627/QMUL/23

Reference: 2627/QMUL/24

Type of programme- Academic General Practice

Employing trust:
Barts Health NHS Trust

Academic placement based at:
Wolfson Institute of Population Health

Brief outline of department:

The Wolfson Institute of Population Health (WIPH) is an 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. Our Institute provides a friendly, stimulating, interdisciplinary research environment with an excellent track record in research income and high-impact publications.

WIPH is a member of the prestigious NIHR School for Primary Care Research. Expertise in the Institute cover a broad range of clinical areas, including cancer, asthma, COPD, diabetes, mental health, women's health, multimorbidity. Our disciplinary expertise is broad and includes: primary care; public health and global health; translational genomics and health data science. The WIPH is firmly embedded in the east London community and the Clinical Effectiveness Group has strong partnerships with the North-East London (NEL) integrated Health & Care Partnership (ICP), as well as the innovative Barts Life Sciences Institute. Queen Mary hosts the Centre of the Cell, an award-winning Wellcome-Trust funded science education centre, the Translational Research Unit of the MRC Asthma UK Centre in Allergic Mechanisms of Asthma, and the WHO Collaborating Centre for Social and Community Psychiatry.

We have particular strengths in community-based research, focused on the health needs of our diverse local population who are from groups traditionally underrepresented in research. For example, we co-host Genes & Health, an internationally renowned community-based research programme of health in British Bangladeshis and Pakistanis. We have an extensive programme of public engagement work including strong representation at Queen Mary's annual Festival of Communities.

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 opportunities available 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 Lead:

Dr Yin Zhou yin.zhou@qmul.ac.uk

Dr Sarah Finer s.finer@qmul.ac.uk

The Medical School And Partner Trusts

Barts and the London Faculty 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 Faculty's research and teaching is informed by an exceptionally wide ranging and stimulating clinical environment.

At the heart of the Faculty'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 Faculty 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 Faculty is organised into the following 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 Preventive Medicine

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/>