SPECIALTY TRAINING PROGRAMME IN INFECTIOUS DISEASES AND MEDICAL MICROBIOLOGY/VIROLOGY IN WESSEX DEANERY

Training Programme Overview
The Wessex Deanery Joint Training Programme in Infectious Diseases and Medical Microbiology/Virology aims to train infection specialists with appropriate experience and competencies to manage the full spectrum of community and hospital acquired infections leading to the award of a Certificate of Completion of Training (CCT) in Infectious Diseases (ID) and Medical Microbiology/Virology (MMV). Training will be in accordance with the requirements laid down by the JRCPTB/RCPath programme on joint training in Infectious Diseases and Medical Microbiology/Virology.

The training programme will provide modular training in order to facilitate training in the essential areas of infection management but also to allow the flexibility to construct bespoke individualised training in selected sub-speciality areas. This will help facilitate individualised career path development according to particular personal interests. Based on the existing curricula for joint training in Infectious Diseases and Medical Microbiology/Virology, the programme will provide six years training in infection and will incorporate active engagement and liaison between laboratory and clinical infection services throughout. Significant opportunities for academic research exist within the designated training locations, and trainees will have the opportunity, subject to relevant prospective agreement, to undertake a period of research and which may count towards one of the six years of training in the programme.

The posts on this rotation have been approved for Specialty Training by the Royal College of Physicians and the Royal College of Pathologists. The Postgraduate Dean has confirmed that the posts comprising this joint training programme have the necessary educational and staffing approvals. The programme will be jointly directed by Dr Tim Battcock, Head of the School of Medicine and Dr Fatima El-Bakri, Training Programme Director for Medical Microbiology/Virology.

Applicants to the joint ID/MMV Infection Training Programme will have completed foundation year training (FY1 and FY2), a minimum of two years core training in either a Core Medical Training (CMT) or Acute Care Common Stem (ACSS) programme, and have obtained MRCP (UK) or (I) or be able to demonstrate they have the equivalent relevant competencies. On entry to the programme trainees will be assigned a Wessex Deanery National Training Number (NTN) in Infectious Diseases and Medical Microbiology/Virology. This document provides details of the structure and content of training that will be provided to trainees on the Infectious Diseases and Medical Microbiology/Virology training programme. (All training posts on the rotation are currently accredited to train in Medical Microbiology/Virology and details of the existing monospecialty Medical Microbiology/Virology training currently provided at the three Trusts in the rotation are set out in the Wessex Deanery ‘Medical Microbiology Programme’).
The programme is based in the following Trusts within the Wessex Deanery. Trainees will rotate through attachments in the following hospitals:

<table>
<thead>
<tr>
<th>Trust</th>
<th>Hospitals and Locations</th>
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<tbody>
<tr>
<td>Hampshire Hospitals NHS Foundation Trust (HHFT)</td>
<td>Basingstoke and North Hampshire Hospitals. The Royal Hampshire County Hospital, Winchester</td>
</tr>
<tr>
<td>Portsmouth Hospitals NHS Trust (PHT)</td>
<td>Queen Alexandra Hospital, Portsmouth</td>
</tr>
<tr>
<td>University Hospital Southampton NHS Foundation Trust (UHSFT)*</td>
<td>Southampton General Hospital, Princess Anne Hospital, Southampton Children’s Hospital.</td>
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*In addition, whilst based at University Hospital Southampton NHS Foundation Trust (UHSFT), trainees will receive training in outpatient HIV/Genitourinary Medicine (GUM) and outpatient management of Tuberculosis at Royal South Hants Hospital, Southampton, which is part of Solent NHS Trust.

During the six year training programme, a trainee will typically undertake 3 years in Infectious Diseases posts and 3 years in Medical Microbiology/Virology posts; hence, it is envisaged that a trainee will receive training in Infectious Diseases at UHSFT and the majority of Medical Microbiology/Virology training at HHNT and PHT.

Overall, the programme will comprise at least two years of posts providing direct care for Infectious Diseases inpatients, and a minimum of 3 years of infection outpatient experience, both in general Infectious Diseases, and in related clinical disciplines including dedicated HIV/GUM, Hepatology/hepatitis and Tuberculosis clinics.

The figure below provides an illustration of a typical 6 year training programme. The modular nature of training allows flexibility in tailoring the programme to the requirements of the particular trainee and the order in which posts in Microbiology/Virology and Infectious Diseases are rotated through, may differ from the illustrative scheme shown below.
Wessex Joint Training Programme in Infectious Diseases and Medical Microbiology/Virology

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Microbiology (HHFT or PHT)</th>
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<tbody>
<tr>
<td></td>
<td>Laboratory introduction with basic Microbiology and Virology to include bench rotation and modules in microbiology, virology and infection prevention</td>
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<tr>
<td></td>
<td>Clinical infection consults (telephone and ward based), including bacteraemia</td>
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<table>
<thead>
<tr>
<th>YEAR 2</th>
<th>Infectious Diseases (UHSFT)</th>
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<tr>
<td></td>
<td>Clinical infectious diseases with direct care of ID inpatients</td>
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<tr>
<td></td>
<td>Clinical infection ward consults</td>
</tr>
<tr>
<td></td>
<td>Two outpatient Infection clinics per week (including General Infectious Diseases, HIV, Hepatitis, TB clinic, OPAT clinic).</td>
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<table>
<thead>
<tr>
<th>YEAR 3</th>
<th>Microbiology (HHFT or PHT)</th>
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<tbody>
<tr>
<td></td>
<td>Laboratory Microbiology and Virology, including bench work as appropriate, and infection prevention and control</td>
</tr>
<tr>
<td></td>
<td>Clinical infection consults (telephone and ward based), including bacteraemia and complex infection cases</td>
</tr>
<tr>
<td></td>
<td>Weekly outpatient Infection clinic (e.g. OPAT clinic)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 4</th>
<th>Microbiology (HHFT, and/or PHT and/or UHSFT)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Laboratory Microbiology and Virology and infection prevention and control; where appropriate, bench rotation in preparation for FRCP Path Part 2</td>
</tr>
<tr>
<td></td>
<td>Clinical infection consults including bacteraemia and complex infection cases</td>
</tr>
<tr>
<td></td>
<td>Weekly outpatient Infection clinic (e.g. OPAT clinic)</td>
</tr>
<tr>
<td></td>
<td>Opportunity for elective attachment(s)</td>
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<table>
<thead>
<tr>
<th>YEAR 5</th>
<th>Infectious Diseases (UHSFT)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Clinical infectious diseases with direct care of ID inpatients</td>
</tr>
<tr>
<td></td>
<td>Clinical infection ward consults</td>
</tr>
<tr>
<td></td>
<td>Two outpatient Infection clinics per week (including General Infectious Diseases, HIV, Hepatitis, TB clinic, OPAT clinic)</td>
</tr>
<tr>
<td></td>
<td>Opportunity for elective attachment(s) and/or a designated period of research</td>
</tr>
</tbody>
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It is expected that the Specialty Trainee will take summative assessments during the programme typically as follows.

- During year 1 (earliest May): RCPath, Year 1 (OSPE) assessment.
- After 12-24 months training: MRCPath Part 1
- During years 4 to 5:
  - MRCPath Part 2
  - ID speciality certificate examination (Royal College of Physicians)

In addition, workplace based assessments (WPBAs) will be completed as specified by the relevant curricula and monitored via the ARCP panel in Infectious Diseases and Medical Microbiology/Virology.

**Years 1 – 4:**
At least two years will be spent training in laboratory-based diagnostic techniques, microbiology consults (telephone and ward based), dealing with important microbiology/virology results including significant blood cultures, antimicrobial stewardship ward rounds, infection prevention and control, and public health microbiology.

Overall, the programme will also comprise at least two years of posts providing direct care for Infectious Diseases inpatients, and a minimum of 3 years of infection outpatient experience, both in general Infectious Diseases, and in related clinical disciplines including dedicated HIV/GUM, Hepatology/hepatitis and Tuberculosis clinics.

**Opportunities for research**
Up to one year of research may count towards training. Post-holders will be encouraged to develop research interests and will be supported in making applications for fellowships to extend their research experience. There is a wide range of research opportunities at all the training locations on the rotation.

**Management experience**
During the rotation, typically in years 4, 5 or 6, the specialty registrar will have the opportunity to attend an appropriate management course or courses usually within the region.

**Elective attachments**
During the six year training programme (typically, during years 4, 5 or 6), trainees will have the opportunity for elective attachments (of between 3 and 6 months) to other centres of excellence in infection diagnosis, management and surveillance. These elective attachments will be
subject to appropriate TPD and Education Supervisor (ES) prospective approvals and will be tailored to a particular trainee’s interests, their training requirements, and planned career progression. As the programme develops, elective attachments at other centres, subject to relevant approvals, may become available. The current elective attachments available are as follows:

**Elective attachment opportunities**

<table>
<thead>
<tr>
<th>Trust/Organisation and Location</th>
<th>Infection Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Protection Agency (HPA)* Microbiology Services, Porton Down, Salisbury</td>
<td>Rare and imported pathogens department: specialist and reference microbiology services for high containment pathogens and host for the UK ‘fever service’</td>
</tr>
<tr>
<td>HPA Microbiology Services and Health Protection Services, Colindale, London</td>
<td>Specialist reference and microbiology services and infectious disease surveillance, outbreak management and response to national and international health alerts</td>
</tr>
<tr>
<td>HPA Hampshire and Isle of Wight Health Protection Unit (HPU), Whiteley, Hampshire</td>
<td>Regional public health microbiology including surveillance, and outbreak management</td>
</tr>
<tr>
<td>Oxford University Hospitals NHS Trust (OUHT), Oxford</td>
<td>Medical Microbiology/Virology and/or clinical Infectious Diseases</td>
</tr>
<tr>
<td>Oxford University Hospitals NHS Trust, Nuffield Orthopaedic Centre NHS, Oxford</td>
<td>Bone Infection Service including regional and supra-regional referrals</td>
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</table>

* In April 2013, the Health Protection Agency (HPA) will become an executive agency of a new organisation with responsibility for public health in England, namely Public Health England (PHE).

**Public Health Microbiology**

A number of the above elective attachments will allow trainees to receive training and develop expertise in public health microbiology, and where appropriate, this will be encouraged. Furthermore, HPA/PHE ID/MMV trainees will be given the opportunity to undertake 12 months of training in public health microbiology and public health, within the 6 year programme. Modular public health/public health microbiology attachments may take place during either MMV or ID posts during the rotation.

**Educational Supervision**

Close clinical supervision will be provided by all consultants, in all the placements on the training programme. All are trained in supervision through the deanery programme and will be
accredited according to the anticipated GMC scheme for clinical and educational supervisors when it is rolled out.

On appointment, each trainee will be assigned an educational supervisor on appointment and will have regular appraisals with them (minimum three formal appraisals per annum) and will have a formal review prior to their ARCP. The educational supervision arrangements will be overseen by the training programme directors and if a trainee has any concerns about their training or supervision they are expected to raise that directly with the training programme director.

Wessex currently runs an educational supervision system that is based on hospital placement rather than trainees i.e. each trainee will have a designated educational supervisor per placement rather than for the duration of their training. This is to allow easy access and direct interaction with the educational supervisor.

On commencing the post, trainees will be provided with a comprehensive induction incorporating all relevant aspects of the particular Trust’s and Department’s services and relevant administration processes. Documentation of a trainee’s training requirements and their responsibilities and expectations, reflecting their individual competencies and experience, will be provided in the form of a mutually agreed (trainer-trainee) Training Agreement and appraisal forms. Supervisors will highlight and actively encourage opportunities for learning and reflective practice respectively. Self-directed learning will be encouraged and supported, based on the relevant curricula and trainee’s individual needs.

Trainees are encouraged to feedback their views on the quality of training provided at appraisal and ARCP, both formally and informally, to ensure continuous improvements and a healthy and supportive training environment.
POST-SPECIFIC INFORMATION

Portsmouth Hospitals NHS Trust (PHT)

Portsmouth Hospitals NHS Trust provides acute health care services to a population of approximately 600,000 within the Portsmouth and South East Hampshire area. These services are provided from 1 site – Queen Alexandra Hospital in Cosham. PHT has approximately 1400 beds and provides a wide range of medical and surgical services including General Medicine including Critical Care, General Surgery including SHCU, Obstetrics, Gynaecology, Trauma and Orthopaedics, Ophthalmology, ENT, Maxillofacial surgery, Paediatrics including NICU, Cancer Services and Renal Medicine and Transplant Surgery.

The laboratory currently offers a wide range of bacteriological, virological, mycological and parasitological investigations. The laboratory undertakes a wide range of molecular diagnostic tests, including HIV and Hepatitis C viral loads, Chlamydia and respiratory viruses. The current annual workload is approximately 510,000 tests of which acute hospital diagnostic work accounts for about 60%, work for General Practitioners about 30% and work for other trusts about 10%.

As a former Public Health Laboratory, the department is a Health Protection Agency Collaborating Laboratory. The Consultant Virologist is HPA employed and lead for HPA activities, though all the medical microbiologists are expected to support this role. The laboratory also provides some of the more complex investigations to other local laboratories including Basingstoke, Winchester, Chichester and the Isle of Wight.

There are plans to accommodate all laboratory microbiology services in Portsmouth to cover Portsmouth, Southampton and Isle of Wight.

The department maintains a library of up-to-date textbooks and subscribes to a number of leading journals. It participates in all relevant external quality assessment schemes and has active internal quality assurance and audit programmes. There is a close relationship with PHT’s Infection Control Department and with HPA staff. The laboratory is fully CPA accredited for its clinical work.

There are currently two full time and two part time Consultant medical microbiologists and a full time consultant virologist.

Portsmouth offers the trainee a broad experience in clinical, laboratory, management and infection control issues. Trainees will be expected to become familiar with all aspects of routine clinical microbiology including bench work (3 month induction period) and clinical liaison. Day to day work will include dealing with positive blood cultures and other important isolates, advising clinical colleagues, including GPs, on all aspects of infection management, and authorising of laboratory results. There is ample opportunity for trainees to attend multidisciplinary antibiotic ward rounds with consultant supervision, and time is allocated for training in virology and Infection Control. There are opportunities for teaching and audit both of which are encouraged. Trainees are expected to participate in local tutorials and the monthly Wessex training programme. Study leave for attendance at external courses is supported. There is an active Postgraduate Centre at QAH and weekly Grand rounds.
Hampshire Hospitals NHS Foundation Trust

1. Royal Hampshire County Hospital, Winchester (RHCH)

RHCH has about 400 acute beds including community and elderly care beds at the Andover War Memorial Hospital. RHCH services include general medicine, general surgery, accident and emergency, obstetrics, gynaecology, paediatrics (including a SCBU), orthopaedics, ophthalmology, ENT, vascular surgery, urology, limited oncology (outpatient chemotherapy unit) and intensive care. The RHCH is an extended site of the University of Southampton Medical School.

The microbiology department is sited at the RHCH and serves the Winchester and Eastleigh Health Care Trust (RHCH, Andover Hospital) the mid Hampshire PCT (GPs in Andover, Winchester), GP’s in Eastleigh and rural areas, and two Local Authorities. The department serves a population of about 230,000 and offers the following services:-

- **Diagnostic:** Full range of bacteriology, mycology and virology. The laboratory process 219,000 tests annually. Trainees will be able to gain knowledge of specialist areas for medical microbiology – infection control, virology, mycology, parasitology and public health in a District General Hospital.

- **Infection Control:** three full time infection control nurses undertaking all aspects of infection prevention and control including surveillance, audit, training and environmental microbiology. Trainees are able and encouraged to attend weekly Infection Control Team, Infection Control Committee and outbreak meetings, and to get involved with root cause analyses meetings as part of clinical governance and patient safety.

- **Clinical:** There is a daily ward round of patients with infectious diseases. All patients with positive blood cultures are reviewed. ITU is visited daily. Other patients are referred by other specialty teams. There is a weekly antibiotic ward round with microbiology consultants and antimicrobial pharmacist. A small outpatient clinic sees patients with a variety of infections, such as soft tissue infection, Lyme disease and travel-associated infection.

- **Training opportunities for trainees in microbiology at RHCH include general practice, general medicine, surgical infections, infections in pregnancy, genitourinary tract infection, infection prevention/control and infection in travellers.**

There is an on call rota for trainees at 1:9 frequency.

Trainees will be encouraged to develop their presentation and communication skills and there are opportunities for trainees to become a part of the teaching team which teaches medical students. The trainees will also be involved in supervising and training of Foundation year 2 doctors in microbiology. There are opportunities for trainee involvement in pathology and NHS management.

Trainees are encouraged to develop a life-long habits of reading, literature searches, consultation with colleagues, reflective practice, attendance at scientific meetings and the
presentation of scientific work are promoted as essential for continuing professional development (CPD). The department participates in the weekly medical education unit meetings and microbiology trainees are encouraged to present case reports and audits. RHCH has a very active postgraduate centre and library. A clinical skills room has been been opened as part of the medical school.

2. Basingstoke & North Hampshire Hospital

Basingstoke & North Hampshire Hospital has 500 beds in total for acute medical, surgical, orthopaedic, maternity, gynaecology and child health patients. It has a very busy accident and emergency department and a treatment and diagnostic centre attached to the main building. The treatment centre is fully equipped to provide day surgery and endoscopy and has a short stay ward. The surgical unit includes tertiary referral centres for pseudomyxoma and liver resection surgery. There is also a large haemophilia centre. There are two community hospitals in Basingstoke and an inpatient psychiatric unit. The laboratory covers all three centres.

Department of Microbiology

The laboratory at Basingstoke is CPA accredited and is equipped to a high standard with BACT/ALERT 3D system including automated TB culture, a VIDAS and T4 for automated serology, a COBAS Amplicor for chlamydia screening and Vitek for identification and antibiotic sensitivity testing. The Department currently receives approximately 300,000 requests per year covering a full range of investigations in bacteriology, mycology, serology, parasitology, virology and PCR based testing through its in-house facilities and links to referral centres. Approximately half of these samples are from primary care. There are three consultant microbiologists in the department, a senior biomedical scientist (BMS) who is also the lab manager, 10 BMS, 4 medical laboratory assistance and 4 office/clerical staff.

The microbiology consultants provide a full clinical service for primary care and hospital staff. There are daily ward rounds to ITU and Acute admissions unit, weekly orthopaedic and elderly care rounds and twice weekly antibiotic rounds. Consultants participate in MDTs including Haematology and TB and are actively involved in all aspects of antibiotic prescribing and infection control with nominated leads. The department is actively involved in audits and service improvement projects and currently undertaking trials of procalcitonin use in guiding antibiotic therapy, MSSA eradication in elective orthopaedics, hospital acquired pneumonia prevention interventions, as well as active surveillance of specific infections in the community and on admission to hospital. There are designated leads for each project and the department is looking to expand the recently set up Outpatient Parenteral Antimicrobial Therapy (OPAT) clinics and orthopaedic infection outpatients’ clinics. The hospital is a tertiary referral centre for pseudomyxoma and liver resection surgery providing a unique experience for trainees.

Infection prevention and control

The infection control team is linked to the microbiology department and has daily meetings with the microbiologists. The team consists of two nurses, surveillance officer, senior IV nurse specialist, the antibiotic pharmacist and two HCAs. They have formal meetings every two weeks and there are quarterly infection control committee meetings. Trainees will have access to these meetings as well active involvement in day-to-day work and outbreak and incident investigations and control. The team provides a ward based service with daily ward rounds and open access
Training opportunities
In the laboratory there is an opportunity for wide exposure to a full range of microbiology samples as well as access to training resources that enable trainees to gain bench work experience as well as prepare for RCPPath examinations. There is also a wide range of clinical microbiology experience gained through activities described above. This placement provides a good training opportunity for bench microbiology, clinical microbiology and all aspects of infection prevention and control. There is also good exposure to virology especially from primary care and good exposure to community infections treated in the community through direct two-way access with general practitioners. There is an on call rota for trainees at 1:9 frequency.

University Hospital Southampton NHS Foundation Trust (UHSFT)

UHSFT clinical services
University Hospital Southampton NHS Foundation Trust (UHSFT) is one of the largest acute trusts and teaching hospitals in the UK and is the only acute inpatient medical unit in Southampton. The Trust has approximately 1,400 beds and serves a local population of 640,000 and also provides a portfolio of highly specialist tertiary services for the local population and for a wider catchment of 3 million across central southern England and the Channel Islands. UHSFT is a designated Cancer Centre and in 2011 the Trust was designated a Major Trauma Centre and has facilities to receive critically ill patients via air ambulance. UHSFT Paediatric services will shortly be located in the newly built on-site Southampton Children’s Hospital. Obstetric and Gynaecology services are provided by the on-site Princess Anne Hospital and UHSFT is a tertiary referral centre for foetal and neonatal medicine and surgery. UHSFT has three adult (general, cardiothoracic and neurosurgical) intensive care units (ICUs) and two Paediatric (neonatal and general paediatric) ICUs.

Approximately 15,000 adult patients per annum are admitted via the acute medicine service into 250 beds and around 20% of patients admitted through acute medicine have infections. Consequently, UHSFT continually provides care to a large number of challenging and complex infection cases, across an extremely wide spectrum of clinical specialties, both in inpatient and outpatient settings.

Trainees undertaking this post in Infectious Diseases will be provided with a wealth of excellent training and learning opportunities, enabling them to gain valuable experience in managing all aspects of community and hospital acquired infection and to gain all appropriate competencies specified by the national curriculum for Infectious Diseases. The Trust is committed to further developing its clinical infection services and the trainee will play an active and closely supervised role in this process and the ongoing development of the UHSFT Department of Infection.

All consultants and trainees in infection at UHSFT maintain close working links with the Health Protection Agency (HPA) microbiology laboratory sited within UHSFT. The laboratory processes in excess of 600,000 specimens per annum. The laboratory provides a comprehensive diagnostic service in bacteriology, mycobacteriology, mycology, virology and
parasitology and has a well-equipped molecular facility providing diagnostics for a wide range of viral and bacterial pathogens.

The joint training provided in Infectious Diseases and Medical Microbiology/Virology at UHSFT is based in the integrated Department of Infection, incorporating Infectious Diseases, Medical Microbiology, Medical Virology and Infection Prevention and Control.

**Inpatient ID service**
The Infectious Diseases Firm is one of the medical specialty firms within the Division of Emergency and Specialist Medicine. Patients are triaged by acute medical admission services, and those with community acquired infections or imported infections are then managed by three ID Physicians (a fourth is to be appointed by April 2013). Each morning, there is a daily consultant-led ID ward round, to include pick up of new cases of community acquired or imported infection on the acute medicine unit (AMU). Whilst inpatients are admitted initially to AMU, those whose length of stay is anticipated to exceed 72 hours are usually transferred to other inpatient medical beds. Side rooms are utilised where necessary but patients requiring isolation, including some with respiratory infections, are managed in the 15 bed Infectious Disease Unit.

This ID Firm is supported by 2 Foundation trainees/SHOs, and Infectious Diseases specialty registrars will provide middle grade care of these patients who will be managed by the ID team from admission-to-discharge, including outpatient follow-up where necessary. The Infectious Diseases Firm has close links with respiratory physicians (Drs Ben Marshall, Anindo Banerjee, Rachel Limbrey and Paul Elkington) who care for inpatients with TB and inpatients with complications of HIV. In the future it is envisaged that the ID Firm will have an increasing involvement in the management of inpatients with opportunistic infections and complications of HIV.

**Infection consult service**
UHSFT Consultants in Medical Microbiology, Medical Virology and Infectious Disease provide a comprehensive infection consult service for inpatients. Specialty trainees in ID will receive training from, and contribute to this service, and will be supervised in providing ward based consults across all major medical and surgical specialties. UHSFT provides specialist tertiary clinical infection services in Bone Marrow Transplant (autologous and allogeneic), Cardiothoracic Surgery, Neurosurgery and Paediatrics including Paediatric Infectious Diseases/Immunology and Foetal Medicine. Specialty trainees will be provided with excellent opportunities to attain all relevant competencies during modular attachments to the Infection services in these areas, typically during modules in either years 5 and/or 6. The spectrum of patients will also include respiratory, (including cystic fibrosis), cardiology, hepatology, gastroenterology, rheumatology, HIV/GUM, and orthopaedic, gastrointestinal and vascular surgery, ENT and Urology. There is a dedicated Paediatric Microbiology and ID service and trainees will have the opportunity to gain experience in Paediatric Infectious Diseases if required. Overall Infectious Diseases trainees will be exposed to abundant learning opportunities across this spectrum including the opportunity to provide infection advice in complex infections and in a variety of immunocompromised patients.

Trainees will have the opportunity to incorporate particular aspects of the Infection consult service into their weekly timetabled ward consult time (see specimen weekly timetable below).
These modules will typically be undertaken for a period of 3-6 months each, in addition to providing care for the ID Firm inpatients and twice weekly clinic attendance.

Modules providing ward-based consult advice include:

- Cancer care (Haematology and Oncology, incorporating experience in bone marrow transplant patients)
- Paediatric Infectious Diseases, Allergy and Immunology
- Cardiothoracics and Cardiology (incorporating experience in native and prosthetic valve endocarditis and sternal wound infections)
- Neurosciences (incorporating experience in the management of cerebral abscess and neurosurgical infection such as intra-ventricular shunt infections)
- Trauma and Orthopaedic surgery (incorporating experience in managing septic arthritis, osteomyelitis and prosthetic joint infection)
- Obstetrics and Gynaecology
- Surgery including upper gastrointestinal surgery, Vascular surgery, ENT and Urology (incorporating experience in complex patients including those with intestinal failure, intra-abdominal collections and infections associated with prosthetic material or implants)
- General Medicine and Elderly Care

Additional modules include but are not limited to:
- Infection prevention and control
- ICU medicine
- Adult Immunology

### Infection Clinics

During the post in Infectious Diseases specialty trainees will attend two infection outpatient clinics per week. The following specialist infection clinics are available:

<table>
<thead>
<tr>
<th>Infection Clinic</th>
<th>Supervising Consultants</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Infectious Diseases</td>
<td>Professor Rob Read and Drs Sarah Glover and Julian Sutton</td>
</tr>
<tr>
<td>Viral hepatitis</td>
<td>Professor Salim Khakoo, Drs Katherine Nash, Nick Sherron and Mark Wright</td>
</tr>
<tr>
<td>Tuberculosis *</td>
<td>Drs Ben Marshall, Anindo Banerjee and Paul Elkington</td>
</tr>
<tr>
<td>HIV &amp; Genitourinary medicine *</td>
<td>Drs David Rowen, Elizabeth Foley and Sam Samraj</td>
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</tbody>
</table>
* The Tuberculosis and HIV/GUM clinics are based at the Royal South Hants Hospital (RSH). During the six year programme trainees will typically undertake posts at UHSFT for 3 years; trainees will typically spend at least 24 months attending the weekly General Infectious Diseases clinic and typically at least 6 months attending each of the other weekly specialty infection clinics listed.

In addition, UHSFT has an active outpatient parenteral intravenous antimicrobial therapy (OPAT) service, provided for patients with a variety of bacterial infections who are treated either as daily hospital attenders, or alternatively in their own homes. Specialty trainees in ID will usually spend 3-6 months attending the weekly OPAT clinic, during the overall training programme.

**Clinical Supervision in post**

A team of ten Consultants in Infection (three accredited in Infectious Diseases, seven accredited either singularly or jointly in Medical Microbiology and two accredited in Medical Virology) will provide close clinical supervision for Infectious Diseases specialty trainees on a daily basis. The Consultant supervisors accredited in Infectious Diseases with direct responsibility for ID inpatient care are Professor Rob Read, Dr Sarah Glover and Dr Julian Sutton. A further ID-accredited consultant trainer will be appointed in 2013.

Close daily consultant supervision will include daily Consultant-led ward rounds of ID inpatients and ID consults, twice weekly Consultant-led ID clinics and Consultant attendance and participation in teaching sessions and MDTs (e.g. educational seminars and Infection radiology meetings).

**Teaching sessions**

The following regular training sessions are provided and trainees will be expected to attend:

- Weekly formal education seminar (internal and external speakers)
  These cover a wide spectrum of subjects relevant to Clinical Microbiology and Virology, Infection Control, Infectious Diseases and Health Protection. Infectious Disease sessions will be tailored to prepare trainees for the RCP ID specialty exam.

- Weekly case-based (‘grey case’) meeting

- Weekly Infection X-ray conference. This is a service-oriented session; trainees will attend and present relevant cases

- Weekly Medical Grand Round

- Monthly Wessex regional Infection training days

- Monthly Infection Forum meetings (UHSFT/UoS/HPA multidisciplinary clinical-academic presentations, including Adult Infectious Diseases, Medical Microbiology, Medical Virology, Paediatric Infectious Diseases, Immunology, HIV medicine, Respiratory Hepatology etc.)
In addition, numerous opportunities exist to attend specialty educational meetings (such as those provided in paediatrics, ICU medicine, medical and surgical specialties). Weekly University of Southampton (UoS) Clinical Experimental Sciences open seminars are also available.

**Opportunities to gain teaching experience**
Trainees will be encouraged and given the opportunity to participate in undergraduate and postgraduate teaching and to develop their presentation and teaching skills. Opportunities include lectures/seminars, bedside teaching and participation in Departmental and Trust meetings listed above.

**Research at UHSFT**
The UHSFT Department of Infection has strong links with a number of research groups in the University of Southampton (UoS). In particular, UoS academics in collaboration with UHSFT colleagues have a national and international reputation in respiratory disease including respiratory infections, nutrition and gastrointestinal disease and there are strong clinical research outputs in cardiology, orthopaedics and neurosciences. Research projects with an epidemiological flavour (e.g. molecular epidemiology) in collaboration with the HPA, or in infectious disease vaccinology/pathogenesis in collaboration with UoS academics will be actively encouraged.

**IT, office and library facilities and secretarial support**
Appropriate office space for trainees and IT facilities including dedicated terminals for internet access and access to relevant UHSFT information services will be provided to all specialty trainees. Meeting rooms for presentations, educational and training meetings will be provided as will access to the large, well-stocked medical library which subscribes to national and international e-journals and databases. There is a secretary/administrator attached to the ID Firm for clinical letters, outpatient appointments and discharge summaries.

Each ward has appropriate computer facilities, including electronic access to laboratory results and medical literature searching. Laboratory results and the electronic patient record can be accessed by secure Wi-Fi from both Department of Infection offices and remotely on the wards.

**Summary of trainee’s overall role and principal responsibilities in Infectious Diseases**
The main duties and responsibilities of the post are for the day-to-day supervision of infectious diseases inpatients on AMU, the ID unit and the inpatient medical unit, review of consults across the UHSFT site and participation in two outpatient clinics per week, one of which will usually be the General Infectious Diseases clinic. The specialty registrar will also be involved in assessing referrals from other hospitals in Wessex and potentially supra-regional referrals. Daily commitments will be roughly as outlined in the timetable below.
### Illustration of weekly timetable for Specialty Registrar in Infectious Diseases:

<table>
<thead>
<tr>
<th>Day</th>
<th>AM</th>
<th>PM</th>
</tr>
</thead>
</table>
| Monday | Clinical handover meeting
Consultant ward round | Inpatient ward work
Ward consults
Hepatitis clinic |
| Tuesday| Consultant ward round                   | Case presentation meeting
Ward consults
OPAT clinic |
| Wednesday | Consultant ward round
TB clinic | Infection radiology MDT
Inpatient ward work
Ward consults |
| Thursday| Consultant ward round                   | Medical Grand Round
General ID clinic
Ward consults |
| Friday | Consultant ward round
HIV clinic | Education seminar
Inpatient ward work
Ward consults |

Trainees will normally participate in the weekly general Infectious Diseases clinic and one other specialty infection clinic per week. (*All available clinics are shown purely for illustration*). When not attending an outpatient clinic, Consultant ward round or other meeting as specified, the major duties of the specialty registrar will be in inpatient ward work and ward consults. When a trainee is undertaking a specific additional ‘module’, for example inpatient ward work for patients with cardiothoracic infection, this clinical liaison work will be accommodated within ‘ward consults’ in the above illustrative timetable.

**On call at UHSFT**
The post holder will participate in the UHSFT Infection (Medical Microbiology/Virology and ID) on-call rota (approximately 1 in 7).

**Selected UHSFT Trainers and selected external trainers and colleagues**

**Consultants in Infectious Diseases and/or General Internal Medicine**
- Professor Robert Read, Drs Ben Marshall and Patrick Sharp;
- Senior Lecturer in Infectious Diseases (to be appointed)

**Consultants in Infectious Diseases and Medical Microbiology**
- Drs Sarah Glover and Julian Sutton
- Drs Adriana Basarab, Graeme Jones, Ann Pallett, Helmut Schuster and Tatshing Yam

**Consultants in Medical Microbiology/Virology**
- Drs Emanuela Pelosi and Gill Underhill

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Chair: Dr Geoffrey Harris

Chief Executive: Sir Ian Carruthers OBE
Consultants in Medical Virology
Drs Saul Faust and Sanjay Patel

Consultants in Paediatric Infectious Diseases, Allergy and Immunology
Drs Efrem Eren and Tony Williams

Consultants in Clinical Immunology

Specialty trainees
There are two infection specialty trainees (in Medical Microbiology/Virology) currently based at UHSFT. These posts will evolve to NTNs in ID/MMV from August 2013 onwards, with plans to expand the total number of Infection trainees based at UHSFT. From August 2013 there will be an additional trainee in ID/General Internal Medicine (GIM) based at UHSFT.

Hampshire and Isle of Wight HPU CCDCs
Drs Linda Booth, Anand Fernandes and Girija Dabke.

PROGRAMME DIRECTORS
Dr Tim Battcock (ID) and Dr Fatima El-Bakri (MMV)

EDUCATIONAL SUPERVISOR
To be assigned on entry to the training programme

Main Conditions of Service

The posts are whole-time and the appointments are subject to:

1. The Terms and Conditions of Service (TCS) for Hospital Medical and Dental Staff (England and Wales)
2. Satisfactory registration with the General Medical Council
3. Medical Fitness – You may be required to undergo a medical examination and chest x-ray. Potential applicants should be aware of the Department of Health and GMC/GDC requirements with regards to HIV/AIDS and Hepatitis viruses. Candidates must be immune to Hepatitis B. You will be required to provide, in advance of appointment, evidence of immunity or have a local blood test (as deemed necessary by the Occupational Health Department)
4. Right to work in the UK
5. Criminal Records Check/POCA check carried out by the Trust Medical HR department.
6. Pre-employment checks carried out by the Trust Medical HR department.
Hours

The working hours for junior doctors in training are now 48-hours (or 52-hours if working on a derogated rota) averaged over 26 weeks (six months). Doctors in training also have an individual right to opt-out if they choose to do so, but they cannot opt-out of rest break or leave requirements. However, the contracts for doctors in training make clear that overall hours must not exceed 56 hours in a week (New Deal Contract requirements) across all their employments and any locum work they do.

Pay

You should be paid monthly at the rates set out in the national terms and conditions of service for hospital medical and dental staff and doctors in public health medicine and the community health service (England and Wales), “the TCS”, as amended from time to time. The payscales are reviewed annually. Current rates of pay may be viewed at

http://www.nhsemployers.org/PayAndContracts/Pay%20Circulars/Pages/PayCircularsMedicalandDental.aspx

Part-time posts will be paid pro-rata.

Pay supplement

Depending upon the working pattern and hours of duty you are contracted to undertake by the employer you should be paid a monthly additional pay supplement at the rates set out in paragraph 22 of the TCS. The current payscales may be viewed at xx. The pay supplement is not reckonable for NHS pension purposes. The pay supplement will be determined by the employer and should be made clear in their offer of employment and subject to monitoring.

Pension

You will be entitled to join or continue as a member of the NHS Pension Scheme, subject to its terms and rules, which may be amended from time to time.

Annual leave

Your entitlement to annual leave will be five or six weeks per annum depending upon your previous service/incremental point, as set out in paragraphs 205 – 206 of the TCS.

The TCS may be viewed at

http://www.nhsemployers.org/PayAndContracts/MedicalandDentalContracts/JuniorDoctorsDentistsGPRreg/Pages/DoctorsInTraining-JuniorDoctorsTermsAndConditions150908.aspx

Sick pay

Entitlements are outlined in paragraphs 225-240 of the TCS.
Notice

You will be required to give your employer and entitled to receive from them notice in accordance with paragraphs 195 – 196 of the TCS.

**Study leave**

The employer is expected to offer study leave in accordance with paragraphs 250 – 254 of the TCS. Local policy and procedure will be explained at your induction.

**Travel expenses**

The employer is expected to offer travel expenses in accordance with paragraphs 277 – 308 of the TCS for journeys incurred in performing your duties. Local policy and procedure will be explained at induction.

**Subsistence expenses**

The employer is expected to offer subsistence expenses in accordance with paragraph 311 of the TCS. Local policy and procedure will be explained at induction.

**Relocation expenses**

The employer will have a local policy for relocation expenses based on paragraphs 314 – 315 of the TCS and national guidance at [http://www.nhsemployers.org/PayAndContracts/MedicalandDentalContracts/JuniorDoctorsDentistsGPReg/Pages/DoctorsInTraining-JuniorDoctorsTermsAndConditions150908.aspx](http://www.nhsemployers.org/PayAndContracts/MedicalandDentalContracts/JuniorDoctorsDentistsGPReg/Pages/DoctorsInTraining-JuniorDoctorsTermsAndConditions150908.aspx)

You are advised to check eligibility and confirm any entitlement with the employer before incurring any expenditure. In addition to local policy there is Deanery guidance which can be viewed on [www.wessexdeanery.nhs.uk](http://www.wessexdeanery.nhs.uk)

**Pre-employment checks**

All NHS employers are required to undertake pre-employment checks. The employer will confirm their local arrangements expected to be in line with national guidance at [http://www.nhsemployers.org/RecruitmentAndRetention/Employment-checks/Pages/Employment-checks.aspx](http://www.nhsemployers.org/RecruitmentAndRetention/Employment-checks/Pages/Employment-checks.aspx)

**Professional registration**

It will be a requirement of employment that you have professional registration with the GMC for the duration of your employment.

**Health and safety**

All employers have a duty to protect their workers from harm. You will be advised by the employer of local policies and procedures intended to protect your health and safety and to comply with these.
Disciplinary and grievance procedures

The employer will have local policies and procedures for dealing with any disciplinary concerns or grievances you may have. They will advise you how to access these, not later than eight weeks after commencement of employment.

Educational supervisor

The employer will confirm your supervisor on commencement.

General information

The Deanery’s management of Specialty Training programmes, including issues such as taking time out of programme and dealing with concerns or complaints, is available at www.wessexdeanery.nhs.uk and in the national ‘Gold guide’ to Specialty Training at http://www.mmc.nhs.uk/specialty_training_2010/gold_guide.aspx