

SPECIALTY TRAINING IN CLINICAL GENETICS PROGRAMME IN HEALTH EDUCATION ENGLAND - WESSEX

This is a **4** year training programme in **Clinical Genetics** at **ST3** aimed at doctors who can demonstrate the essential competences to enter this level of training. The programme is designed to support training for a CCT in **Clinical Genetics**. Details of essential competences and qualifications are detailed in the national person specification for **Clinical Genetics** at **ST3** which is available from <https://specialtytraining.hee.nhs.uk/Recruitment/Person-specifications>

It is anticipated that completion of this training programme, subject to satisfactory progression at the ARCP, will lead to a CCT or CESR (CP) in Clinical Genetics.

The programme is based in hospitals in Health Education England – Wessex including:

<u>HOSPITAL</u>	<u>LOCATION</u>
North Hampshire Hospital	Basingstoke
Dorset County Hospital	Dorchester
St Mary's Hospital	Isle of Wight
Poole Hospital	Poole
Queen Alexandra Hospital	Portsmouth
Salisbury District Hospital	Salisbury
Southampton General Hospital	Southampton
Princess Anne Hospital	Southampton
Christchurch Hospital	Bournemouth
Royal Hampshire County Hospital	Winchester

Health Education England – Wessex is responsible for the planning, development, education and training of the healthcare and public health workforce across

Hampshire, Dorset, Isle of Wight and Salisbury. We also provide medical training for the States of Jersey and GP appraisal services for Jersey and Guernsey. We believe that the key to improving the health and healthcare of the 2.8 million people living in Wessex is investment in the skills and values of the 52,000 people working in the NHS and in primary care.

Within the field of postgraduate medical education and training, we manage across primary and secondary care for these health communities – totalling around 2,400 doctors in training at any one time across 12 Trusts and 160 GP practices. In addition, we support the workforce development for GP Practice Nurses and Public Health practitioners as well managing a bespoke GP appraisal service for established GP Practitioners to meet the requirements for revalidation in accordance with the statutory requirements set by the General Medical Council.

We manage training programmes for postgraduate medical training according to the statutory standards set by the General Medical Council (GMC) and have responsibility for establishing and maintaining quality management systems for all posts and programmes as required by the GMC.

The work of the Deanery is guided by the principles embedded within the NHS constitution.

Rotation Information

Departmental Example Timetable for Clinical Genetics

	Monday	Tuesday	Wednesday	Thursday	Friday
First am	Cancer meeting Poole paediatric clinic	SGH cancer Victoria House mixed cardiac/adult clinic	Teaching Clinical Meeting Photo reviews	Portsmouth paediatric clinic Salisbury paediatric clinic	Neurogenetics clinic VHL Clinic Feb, Jun, Nov Prenatal meeting
pm	Ward Round	SGH paediatric Poole cancer	Salisbury lab meeting Cardiac	Portsmouth Adult clinic Victoria House	

			Genetics Clinical Meeting	adult clinic Victoria House cancer	
Second am	Cancer Meeting Poole Paediatric Clinic	Winchester Cancer Clinic Winchester Paediatric Clinic	Teaching Clinical Meeting Photo reviews	Portsmouth Paediatric Clinic Winchester Paediatric Clinic	Prenatal meeting
pm	Ward round SGH Adult Congenital Cardiac Clinic Soton Cancer Clinic	SGH clinic	Salisbury lab meeting Cardiac Genetics Clinical Meeting	Portsmouth Cancer Clinic	Victoria House Cancer Clinic
Third am	Cancer Meeting Poole Paediatric Clinic	Basingstoke Paediatric Clinic	Teaching Clinical Meeting Photo reviews	Portsmouth Paediatric Clinic Basingstoke Cancer Clinic	Prenatal meeting
pm	Ward round	SGH clinic (NF)	Salisbury lab meeting	<i>Victoria House general (VH)</i>	

		Poole cancer (MA)	Cardiac Genetics Clinical Meeting		
Fourth am	Cancer meeting Poole Paediatric Clinic	Dorchester Cancer Clinic	Teaching Clinical Meeting Photo reviews	Portsmouth Paediatric Clinic Ophth/genetics Bournemouth Cardiac Clinic	Prenatal meeting Dorchester Clinic SGH Paediatric Cancer clinic
pm	Ward round Cancer Clinic SGH Cancer clinic	SGH Paediatric Clinic (NF)	Teaching Clinical Meeting Photo reviews		SGH Adult clinic
			Salisbury lab meeting Cardiac Genetics Clinical Meeting		

Additional clinics Endoc/gen Mon am 4/yr Soton, 3/yr Portsmouth often on a Monday including a Russell Silver clinic twice a year

Orth/genetics Mon pm

Disorders of Sexual Dev, Wed 3/yr

Metabolic Bone MDT 3-4/yr Mon am

Meetings

Cardiogenetics meeting Monday 3.00-4.00 weekly
Neurogenetics 1st Fri lunchtime, Genetics Dept.
Metabolic meeting 3rd Mon 11.00 Genetics Dept
Human Molecular Genetics seminar, Thurs lunchtime, UoS.
Neonatal meeting 1.00pm Mon lunchtime weekly.
WANDA meetings monthly Southampton, x4/year
Child health seminars, Thurs 8.30 SGH G level
Neuro X-ray meeting Fri 8.45am.
Registrar teaching 8.30am most Wednesdays
Renal/genetics meeting 3/yr Tuesdays
Bone Xray – before Ortho clinic
Community Child health – 2 a year (varies re timing)

Trainees are expected to attend all non-clinic entries possible on the general timetable, and in addition will be allocated 8 half day clinics per month from those listed, depending on their training needs. In general trainees clinic timetables will be rotated on a six monthly basis.

Study and Training

The primary aim of all posts is the training programme developed and there is a nationwide curriculum and minimum standards of education agreed by all Trusts within the rotation.

Health Education England – Wessex is committed to developing postgraduate training programmes as laid down by GMC, Colleges and Faculties and by COPMED - the Postgraduate Deans Network. At local level college/specialty tutors work with the Programme Director and Directors of Medical Education in supervising these

programmes. Trainees will be expected to take part in these programmes (including audit) and to attend meetings with their nominated educational supervisor.

All posts within the training programme are recognised for postgraduate training by the General Medical Council (GMC) in accordance with their standards for training.

Study leave is granted in accordance with Deanery/Trust policy and are subject to the maintenance of the service.

All posts have a service element and the following covers the majority of duties. There will be minor variations in different hospitals but the list is aimed at covering the majority of duties:

1. Liaise between Counsellors, family history coordinators, genetics consultants, professionals from other medical disciplines and patients and relatives Attend and participate in ward rounds as timetabled
2. Attend outpatient clinics.
3. Take part in rostered emergency work.
4. Dictate clinic letters and follow-up correspondence.
5. Study for higher examination and maintain continued professional development.
6. Attend weekly educational and multidisciplinary sessions.
7. Undertake audit at various times throughout the rotations.
8. Teach medical students as directed.
9. Co-operate with members of the personnel department when monitoring hours of work and other personnel issues.
10. Attend induction in each hospital or new department
11. Comply with all local policies including dress code, annual and study leave

Specialty Information

The Wessex Regional Genetics Service is a Clinical Service covering a population of 2.8 million across Hampshire, Dorset and Wiltshire. The service is coordinated from the Princess Anne Hospital in Southampton. The Laboratory arm of the service is provided by the West Midlands, Oxford and Wessex Genomic Laboratory Hub while the clinical service is part of one of the seven Genomic Medicine Service Alliances, which covers the same geography as the GLH. Southampton University runs one of the National Genomics MSc's, part or all of which can be attended by trainees. The

trainee will join the established Wessex Specialist Training Programme in Clinical Genetics, which is co-ordinated through the Deanery and has been running for over 15 years. Experience offered will cover the training needs of future consultants in all aspects of Clinical Genetics, as well as academic career development. The post will lead to accreditation (CCT) in Clinical Genetics. The four years will be spent in a clinical post based at Hospitals in Wessex, rotating through general, cancer and specialist genetic placements. Some very specialised areas can be covered by including short attachments at national centres of excellence where this is appropriate for a given trainee.

The clinical arm of the service currently has twelve senior medical staff; eight of whom are NHS consultants in Clinical genetics, and four have joint University/ NHS contracts. There are four established Specialist Registrar training posts, ten specialist genetic nurse counsellors, four family history coordinators and eight clerical officers. One consultant and one specialist nurse act as joint administrative heads of the service. Routine clinical work in Wessex includes outpatient clinics in 10 district hospitals covering all referrals to the service. In addition existing specialist clinics include neurogenetics, ophthalmic genetics, cardiac-genetics, endocrine-genetics, neuro-oncology clinics, developmental child health-genetics clinics, fetal medicine clinics, disorders of sexual development-genetic clinics and orthopaedic-genetic clinics. The clinical training will thus provide ample exposure to a number of sub-specialty fields.

Laboratory experience is gained via short attachments to the laboratories within the Genomic Laboratory Hub. This laboratory provides the largest and one of the most comprehensive molecular and cytogenetic services in the country.

Programmes of specialist training in Clinical Genetics in Wessex have been approved by JRCPTB/GMC and are regularly reviewed.

Curriculum

Applicants are referred to the JRCPTB website for details of the specialist curriculum, but by the end of the educational programme must have the requisite knowledge and skills to diagnose and manage genetic aspects of a wide range disorders in the following categories, including but not restricted to the conditions below.

Cancers - common familial cancers – breast, ovary, bowel

Cancers - rare genetic cancer syndromes – adenomatous polyposis coli, multiple endocrine neoplasia, NF2, von Hippel Lindau disease.

Cardiac disorders – hereditary cardiomyopathies, conduction defects, familial aortopathies and investigation of sudden adult death

Congenital abnormalities – single and multiple; malformations, deformations and disruptions; fetal and neonatal presentations

Connective tissue disorders – Marfan syndrome, Ehlers Danlos syndrome

Cystic fibrosis

Chromosomal disorders – sporadic and familial; numerical and structural abnormalities

Deafness – isolated and syndromic deafness

Dysmorphic syndromes – common syndromes as well as some experience with rare disorders

Fragile X syndrome – and other X-linked mental retardation syndromes

Haematological disorders – haemoglobinopathies, haemophilia, thrombophilia, Haemochromatosis

Huntington disease – and other adult onset hereditary neurodegenerative disorders

Inborn errors of metabolism

Learning disability – familial and syndromic causes

Mitochondrial cytopathies – mitochondrial myopathies/encephalomyopathies and Leber's optic atrophy

Multifactorial disorders – neural tube defects, epilepsies and common adult onset disorders

Neurogenetic disorders – Spinal muscular atrophy, spinocerebellar ataxias, hereditary neuropathies, hereditary spastic paraplegia

Neuromuscular disorders – myotonic dystrophy, Duchenne, Becker, limb girdle, FSH and Emery Dreifuss muscular dystrophies

Neurocutaneous syndromes – neurofibromatosis 1 and tuberous sclerosis

Ophthalmic genetic disorders – retinitis pigmentosa

Pharmacogenetic disorders – malignant hyperthermia and glucose 6 phosphate dehydrogenase deficiency

Renal disorders – adult and infantile polycystic kidney disease

Skeletal dysplasias – achondroplasia, osteogenesis imperfecta, spondyloepiphyseal dysplasias

Teratogens – alcohol and anticonvulsants

By the end of training, specialist registrars must be able to:

- Record and analyse family history data
- Obtain the medical history and carry out clinical examination as it relates to genetic diseases.
- Diagnose genetic disease using clinical evaluation and genetic testing
- Choose appropriate investigations and interpret results
- Provide accurate information and effective genetic counselling to individuals and families
- Write clear summaries of genetic clinic consultations in post-clinic letters to colleagues and patients
- Formulate management plans for genetic aspects of genetic/hereditary disorders
- Perform risk calculation, including Bayes theorem
- Carry out phlebotomy, skin biopsy, and photography
- Conduct literature searches and use medical genetic databases
- Store and retrieve genetic data in single-disease genetic registers
- Work effectively in a team with other colleagues providing genetic services
- Liaise appropriately with colleagues from other specialists.
- Make use of lay organisations to support patients and families with genetic diseases
- Communicate and explain genetic issues to colleagues and the lay public
- Work effectively with colleagues in other disciplines

Teaching

There are many learning opportunities, some of which are listed below and are currently available: -

- Weekly clinic meeting
- Weekly cancer genetics meeting
- Weekly ward round
- Weekly journal club/audit
- Weekly photograph review meetings.
- Weekly clinical/laboratory MDT
- Weekly Human Genetics seminar
- Weekly hospital grand round
- Weekly paediatric meeting
- WANDA monthly meeting
- Neurogenetics monthly meeting
- Eye genetics meeting -approximately 3 year
- Skin genetics meeting -approximately 1 year
- West of Britain audit and training days -4/year
- National Dismorphology meeting -4/year
- Attendance on national Interpretation and Clinical Application of Genomic Data PGCert

Main Conditions of Service

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

- The Terms and Conditions of Service for NHS Doctors and Dentists in Training (England).
- Satisfactory registration with the General Medical Council.
- Right to work in the UK.
- Criminal Records Check/POCA check carried out by the Trust Medical HR department.
- Pre-employment checks carried out by the Trust Medical HR department - <http://www.nhsemployers.org/your-workforce/recruit/employment-checks>

Educational supervisor

The employer will confirm your supervisor on commencement.

General information

Salary Scale / Basic Pay

<http://www.nhsemployers.org/your-workforce/pay-and-reward>

National Terms & Conditions

<http://www.nhsemployers.org/your-workforce/pay-and-reward/agenda-for-change>

Travel and relocation

http://www.wessexdeanery.nhs.uk/policies_procedures/relocation_guidelines.aspx

Other Policies & Guidance

http://www.wessexdeanery.nhs.uk/guidance_recourses/guidelines_procedures/guidelines_procedures_v20.aspx