Specialty: Respiratory Medicine

GMC: EOS/448

Deanery sponsoring programme: East of Scotland
Postgraduate Dean: Professor Philip Cachia
Responsible Associate Dean/GP Director: Dr Graham Leese

Programme Type -
- Deanery-based or National: Deanery
- Specialty or Sub-specialty: Specialty

Date of GMC recent approval: August 2010
Associated Royal College / Faculty: The Joint Royal Colleges of Physicians Training Board (JRCPTB)

Web address: www.jrcptb.org.uk

Recognised Programme Locations and Environments
This programme involves placements in some or all of these Health Boards and hospitals:

East of Scotland – Placements in Dundee, Perth, Fife and Stirling:
- Ninewells Hospital, Dundee
- Perth Royal Infirmary, Perth
- Royal Victoria Hospital, Kirkcaldy

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Programme Description

Why choose this programme

Training is provided in Tayside at Ninewells Hospital and Perth Royal Infirmary (PRI) and in Fife at the Victoria Hospital, Kirkcaldy (VHK). A trainee is likely to spend at least one year in PRI and/or VHK. NHS Tayside serves the population of Tayside and North East Fife. At present there are two hospitals in Tayside which admit acute general medical patients and provide in-patient respiratory services: Ninewells Hospital and Perth Royal Infirmary. Out patient services are provided at a number of additional community hospitals in the area. Because Tayside is the smallest respiratory training centre in Scotland the consultant staff have organised their service to ensure that trainees are truly supernumerary and able to undertake periods of training out with the respiratory unit and out with Tayside; trainees are regularly attached full time to other specialist units such as oncology, infectious diseases, cardiology and undertake training in sleep medicine and cardiothoracic surgery in Edinburgh as a matter of course, others have spent periods in UK transplant centres, pulmonary hypertension centres and in European institutions to become competent in interventional pulmonology. All of our trainees are expected to undertake a period of research and in recent years there has been no difficulty in identifying projects and funding for research.
Specialty: Respiratory Medicine

Tayside offers a trainee comprehensive experience in respiratory medicine with the opportunity to tailor an individual’s subspecialist training to their chosen clinical and research areas.

Specialty Information

NINEWELLS HOSPITAL
Ninewells Hospital houses all of the specialities and sub-specialities expected in a teaching hospital with the exception of cardiothoracic surgery.

The Respiratory Service comprises of four consultants (Drs France, Smith, Fardon and Schembri). It is hoped that funding for a fifth substantive post will become available in 2012. There is also one associate specialist (Dr Al-Dabbagh), five specialist registrars and one research registrar. The service is supported by a number of specialist nurses in lung cancer, asthma/COPD, cystic fibrosis, sleep apnoea and domiciliary non-invasive ventilation. The department liaises closely with a dynamic Tayside Respiratory Managed Clinical Network.

Academic respiratory medicine is centred on Ninewells Hospital where Professor Brian Lipworth is based in the Department of Clinical Pharmacology. He has an interest in airways disease, nasal disease and allergy. Professor Lipworth also organises undergraduate teaching in respiratory medicine. Recent research projects have been undertaken with colleagues in clinical pharmacology, Profs T Macdonald and A Struthers, and with population and laboratory based genetics, Prof C Palmer. In addition, molecular research into cystic fibrosis transmembrane conductance regulator is undertaken by Dr A Mehta.

PULMONARY FUNCTION
The pulmonary function laboratory is attached to the chest clinic and provides the following services:
- Static and dynamic lung volumes
- Transfer factor
- Lung plethysmography
- Oscillometry
- Cardio-pulmonary exercise testing
- Oxygen saturation monitoring
- Limited Polysomnography
- Skin testing
- Peak flow monitoring
- Inhaler technique education
- Fitness to fly testing

The laboratory has just been re-equipped with Sensor Medics equipment. There is a senior (MT03) pulmonary function technician and an MTO2 pulmonary function technician.

BRONCHOSCOPY AND THORACIC SURGERY
Bronchoscopy including endobronchial ultrasound is performed at Ninewells Hospital in the bronchoscopy unit using video bronoscopes. Lists are performed on a Monday afternoon and Wednesday and Friday mornings. Emergency bronchoscopy is performed in ENT theatre. There is experience in the placement of endobronchial stents and in photodynamic laser therapy for lung cancer. Thoracic surgery is generally referred to Edinburgh. There is a pathologist with an interest in lung pathology (Prof Frank Carey).

IMAGING
Radiology at the main clinic in East Block consists of plain films. Good relations are enjoyed with the radiological consultants. CT, MRI scanning and nuclear medicine scanning are available at Ninewells Hospital. Reserve slots are available for staging CT scans for patients with potentially operable lung cancer. PET-CT is now undertaken on site as part of lung cancer staging.
**LUNG CANCER**

Management of lung cancer is a key area which is the subject of a national audit. The lead clinician for lung cancer is Dr Peter Brown. There are approximately 400 new cases of lung cancer annually. It is thought that most patients in Tayside and North East Fife with suspected or diagnosed lung cancer are seen by a Respiratory Physician. General Practitioners have open access to Department of Radiology to obtain chest x-rays at King’s Cross Hospital and Perth Royal Infirmary and there is a direct referral process for a CT scan and to a respiratory outpatient clinic for patients whose chest x-rays suggest a diagnosis of lung cancer. Most of these patients are seen in clinic within two weeks. There are three bronchoscopy lists per week at Ninewells Hospital, and one in Perth Royal Infirmary where protected CT scanning time is available. If indicated, fine needle aspiration cytology is undertaken in the Department of Radiology (Drs Taylor and Cameron, Ninewells Hospital and Dr Murray, Perth Royal Infirmary). Specimen histology is available within two working days and there is a Pathologist with an interest in lung cancer (Prof Carey). Isotope bone scanning is not routinely undertaken but if indicated, is carried out in the Department of Nuclear Medicine at Ninewells and the delay between request and the scan being performed is typically two weeks. PET-CT scanning is performed in Aberdeen until the Dundee scanner comes on line.

There is a new cancer centre in Dundee where Professor E. Rankin and Dr Hannah Lord have an interest in the chemotherapy of lung cancer. Clinical oncology is provided by Dr Emma Brown. Lung cancer surgery is usually performed outwith Dundee, usually Edinburgh (Mr Walker/Mr Pessotto) but occasionally in Aberdeen and Glasgow.

**OBTURSIVE AIRWAYS DISEASE**

Asthma is largely managed in the community by general practitioners. Professor Lipworth holds a clinical to which problem asthmatics are referred. Dr Tom Fardon undertakes a transition clinic for adolescent patients with difficult asthma and cystic fibrosis.

COPD is seen in general respiratory clinics and in clinics conducted by the COPD liaison nurses. The majority of COPD is seen in the community where there is an active managed clinical network.

**CYSTIC FIBROSIS SERVICES**

There are approximately 40 adolescent and adult patients who are managed by the cystic fibrosis service. Drs Fardon and Rodgers, the CF liaison nurses, dietician and physiotherapist provide the service. Clinics are held weekly. The numbers of cystic fibrosis patients are projected to rise over 50 over the next five years.

**TUBERCULOSIS**

There are 30-40 new cases of tuberculosis in Tayside annually. A tuberculosis liaison nurse is funded by Tayside Health Board and she undertakes contact tracing for the region. TB contact clinics are offered in Perth and at Ninewells where tuberculin testing, BCG immunisation and chest x-rays are available. The physician in charge of tuberculosis services is Dr France.

**SLEEP DISORDERED BREATHING**

Facilities for investigation and treatment of sleep disordered breathing are managed by Dr Smith and two specialist nurses.

**INTERSTITIAL LUNG DISEASE**

An interstitial lung disease clinic is organised by Dr Smith. High quality HRCT scans can be obtained and video-thoracoscopic biopsies are performed in Edinburgh. Dundee contributes to an East of Scotland ILD network which holds a regular multi-disciplinary clinical meeting.
**PERTH ROYAL INFIRMARY**

Respiratory medicine services in Perth and Kinross are centred on Perth Royal Infirmary where there are two general physicians (Drs Peter Brown and Stuart Schembri) with an interest in respiratory medicine supported by a lung cancer specialist nurse (Gillian Sandeman), a respiratory specialist nurse (Maureen Blair), and junior doctors. The pulmonary function laboratory provides a similar range of tests to Ninewells Hospital and is integrated with cardiology investigation. There is a weekly bronchoscopy list.

Dr Brown is also a general physician and lead clinician for lung cancer. He is supported by a lung cancer specialist nurse (Nancy Rattray), a respiratory specialist nurse (Maureen Blair), and SHO + PRHO.

SPRs usually spend an early year of their training in Perth undergoing training in general internal medicine and respiratory medicine. There are 10 consultant physicians with interests in cardiology, respiratory, gastroenterology, endocrinology/diabetes, rheumatology and gerontology. Trainees are attached to several consultants during the year according to individual training needs.

**REGIONAL CLINICS**

At present, respiratory medicine in Angus is serviced on an outpatient basis by clinics in Arbroath Infirmary and Montrose Infirmary. General medical clinics in Perthshire are held in Crieff, Pitlochry, Blairgowrie and Auchterarder.

**Training and Research.**

Training in the management of all pulmonary problems including lung cancer, obstructive airways disease, asthma, cystic fibrosis, tuberculosis and occupational lung disease is provided. There is also an overlap with the infectious diseases service which provides training in problems associated with HIV infection. Training in intensive care is provided at Ninewells Hospital. Training in sleep medicine is provided in Dundee but often augmented by a period in the sleep laboratory in Edinburgh when exposure to cardiothoracic surgery is required.

There are research interests in photodynamic laser therapy of lung cancer, management of COPD in the community, genetics of COPD, respiratory infection, the interaction of sleep disordered breathing and cardiac failure and Professor Lipworth runs a large research organisation looking at allergy in the upper and lower respiratory tract.

The University of Dundee is noted for its basic science of cancer and molecular genetics. There are opportunities for development of collaborative research with many of the university departments.

**Local Respiratory Educational Events**

- **Tues 0830-0915**  Education in reading chest X-rays and CT and discussion of interesting images
- **Thurs 1400-1600**  Multidisciplinary lung cancer meeting – excellent education in CT scanning and cancer management
- **Fri 1300-1400**  Lunchtime meeting with presentations, discussion of interesting cases.

Two-monthly evening “Middle East” meeting where chest physicians from Dundee, Perth, Fife and Stirling meet to present interesting and challenging clinical cases.
Structured Training Programme

There is a didactic teaching syllabus for SpRs/StRs in respiratory medicine consisting of the following:

1. There are 6 annual national training days for Scottish respiratory trainees which should be attended by all trainees in order to accrue a minimum of 10 days training annually.
2. The Edinburgh and Glasgow RCPs each hold an annual day devoted to advances in respiratory medicine; the Scottish Thoracic Society meets twice yearly and offers both good education and an opportunity to present information in a friendly environment.

Teaching

The SpR/StR will be expected to contribute to undergraduate and postgraduate teaching.

The East of Scotland Deanery involves Tayside, which is a beautiful area to live and work within. It has varied geography and offers diverse interests for individuals and families, from a thriving city life in Dundee to outdoor activities in Angus, Perthshire and North Fife. It has good road and rail networks to the other areas of Scotland. The quality of life in Tayside is excellent with easy access to beautiful countryside for sport and leisure as well as world-renowned facilities for golf.

Training within the Deanery is trainee focused with attention to individual trainee needs and aspirations. Ninewells is a University teaching hospital with opportunities to become involved in research.

How to apply

http://www.scotmt.scot.nhs.uk/

Deanery Administrative Contacts

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Quality of Training

GMC Trainee Survey Information (2011) Link