SENIOR CLINICAL LECTURER IN GENERAL SURGERY

FURTHER INFORMATION ON CLINICAL AND ACADEMIC ACTIVITY

NHS Lothian

NHS Lothian is an integrated NHS Board in Scotland providing primary, community, mental health and hospital services. Mr Tim Davison is Chief Executive and Dr David Farquharson is Medical Director.

The NHS Board determines strategy, allocates resources and provides governance across the health system. Services are delivered by Lothian University hospitals division, the Royal Edinburgh hospital and Associated mental health services, 4 community health (and social care) partnerships (CH(C)Ps) in City of Edinburgh, West Lothian, East Lothian and Midlothian, and a Public Health directorate.

NHS Lothian serves a population of 850,000. Several of its services provide supraregional services to other parts of Scotland.

University Hospitals Division

The University Hospitals Division provides a full range of secondary and tertiary clinical services to the populations of Edinburgh, Midlothian, East Lothian and West Lothian. The Division is one of the major research and teaching centres in the United Kingdom.

Hospitals (with surgical services*) included in the Division are: Royal Infirmary of Edinburgh*, Western General Hospital*, The Royal Hospital for Sick Children*, St Johns Hospital* Royal Victoria Hospital, Liberton Hospital, The Princess Alexandra Eye Pavilion*.

The Royal Infirmary (RIE) is a major teaching hospital on a green field site in the South East of the city of Edinburgh built in 2003. It comprises 25 wards, 869 beds, and 24 operating theatres, and is equipped with modern theatre and critical care equipment and monitoring. Within the main building is a dedicated, multidisciplinary, 5 theatre day surgery complex. The hospital provides for most specialities and is the centre for:

- General surgery with a focus on the upper GI tract
- Vascular surgery
- Hepato-biliary and Transplant medicine and surgery
- Cardiac and Thoracic surgery
- Elective and trauma Orthopaedics surgery
- Neonatology
- Obstetrics & Gynaecology
- Cardiology
- Renal Medicine
- Sleep Medicine
- Regional major Accident and Emergency centre.

There is a Combined Assessment Unit which takes unselected GP or direct emergency referrals, and from A&E. CAU includes the Dept of Liaison Psychiatry and the Scottish Poisons Bureau and Treatment Centre. There are full supporting Laboratory and Diagnostic
Radiology Services (including CT, MR, Ultrasound and NM and PET scanning will be available in 2008). There is a full range of lecture theatres, a library and AV facilities.

The **Western General Hospital** (WGH) has 600 beds and 5 operating theatres and is equipped with modern theatre and critical care equipment and monitoring. The Anne Ferguson building was completed in 2001. The hospital provides for most specialties and is the centre for:

- Neurology, Neurosurgery and neuropathology
- UK CJD unit
- Colorectal Surgery
- Urology and Scottish Lithotriptor Centre
- Breast Surgery and Breast screening
- Gastro-Intestinal disease
- Rheumatology
- Infectious Diseases
- Haematology Oncology
- Medical Oncology
- Radiation Oncology (including 6 LINACs)
- Dermatology (Inpatient)
- Medicine of the Elderly/Stroke Medicine

There is an Acute Receiving Unit, which accepts GP referrals and 999 ambulance medical cases on a zoned basis within the city, and a nurse led Minor Injuries Unit. There is no trauma unit at this hospital. There are full supporting Laboratory and Diagnostic Radiology Services (including CT, MR, Ultrasound and NM). There is a full range of lecture theatres, a library and AV facilities.

**St John’s Hospital** opened in 1989 and is located in the centre of Livingston, a new town about 30 minutes drive west from Edinburgh. The hospital provides for most common specialties but does not have emergency general surgery or orthopaedic trauma operating. The hospital has a paediatric ward and is the centre for:

- General Medicine with specialists in Cardiology, Diabetes & Endocrinology, Gastroenterology, Respiratory Medicine and Care of the Elderly
- Obstetrics & Gynaecology
- Child Health including Paediatrics and community child health
- The supraregional Burns and Plastic Surgery unit.
- Oral and Maxillofacial Surgery
- ENT
- Critical Care (ITU, HDU and CCU)
- Accident and Emergency
- General Surgery
- Orthopaedics
- Anaesthetics
- Mental Health including ICCU and ICPU

Since 2005 general surgery and orthopaedics have been reconfigured in NHS Lothian with SJH being developed as a major elective centre for the region. Lothian’s ENT service was relocated to SJH to create an integrated head and neck unit with OMFS and Plastic Surgery.
Recent developments at SJH include a new endoscopy suite, an Intensive Psychiatric Care Unit, a digital mammography unit, an oncology (cancer care) day centre, a satellite renal dialysis unit and a £2.75m reprovision of A&E. There are full supporting Laboratory and Diagnostic Radiology Services (including CT, Ultrasound and NM).

The hospital has been accredited full teaching hospital status by the University of Edinburgh. There is a full range of lecture theatres, a library and AV facilities.

The Royal Hospital for Sick Children (RHSC) is a 141 bedded hospital providing general and specialist services for children. The hospital is situated in a residential area close to the centre of Edinburgh and is approximately 3 miles from the site of the New Royal Infirmary and the co-located University of Edinburgh Medical School and 3 miles from the Western General Hospital. The RHSC is a 151-bedded Hospital, and is the main paediatric teaching hospital for the South-East of Scotland providing general and specialised services on a local, regional and national basis. It acts as the local paediatric referral centre for the children of Edinburgh and surrounding areas, and as a tertiary referral centre for intensive care patients; gastroenterology, hepatology & nutrition; cardiology; nephrology; neurology; oncology; haematology; neonatal surgery; plastic surgery; orthopaedic surgery; urological surgery and aspects of general surgery.

Hospital accommodation encompasses five theatres, a critical care unit comprising a 6/8 bedded Paediatric Intensive Care Unit, 4/6 bedded High Dependency Unit and a 3 bedded Neonatal Intensive Care Unit. There is an excellent library facility and a modern lecture theatre with a full range of audio-visual equipment.

All services are supported by comprehensive radiology, neurophysiology, laboratory and therapy services. The local radiology department provides on site Magnetic Resonance Imaging, CT Scanning, nuclear scanning and ultrasound. On site laboratories provide biochemistry, haematology, pathology and neuropathology services.

General Surgery, Royal Infirmary Edinburgh

The Upper GI and HPB Surgical Units in Edinburgh are currently located on Wards 106/107 (72 beds) in the Royal Infirmary, Edinburgh. Theatre sessions are provided in a range of theatres including a high definition specially designed advanced laparoscopic theatre and a dedicated 23 hour suite. A CEPOD theatre is available 24 hours a day and is shared with Vascular surgery. Endoscopic services on site include EUS, ERCP and interventional therapeutic techniques. A weekly MDT is held with Borders and Fife to discuss staging and management of all Upper GI cancer cases while similar MDT discussions are held twice a week to discuss HPB cancer cases.

Consultant staff

- undertaking HPB (and transplant*) surgery
  - Prof O James Garden
  - Professor Rowan Parks
  - Professor Stephen Wigmore*
  - Mr Mark Duxbury
  - Ms Anya Adair*
  - Mr James Powell*
  - Mr Rajan Ravindran

- undertaking transplant surgery (endocrine^ or general surgery**) 
  - Professor John Forsythe^
- undertaking malignant UGI surgery:
  Mr Simon Paterson Brown
  Mr Andrew de Beaux (also bariatric work)
  Mr Graeme Couper
  Miss Anna Paisley
  Mr Peter Lamb
  Mr Christopher Deans

Consultant and other staff undertaking benign UGI work and general surgery:
Mr G Browning
Mr B Tulloh (also bariatric work)
Miss T Gillies (on secondment July 2012 for one year)
Mr S Kumar (Associate Specialist)

Hepatobiliary services and Transplant services (Liver, Pancreas, Kidney and Islet cell) are provided separately with three (RWP, MD, RR) of these consultants also contributing to the emergency General Surgery rota at RIE. There are separate on call rotas for HPB emergencies and transplant.

Emergency admissions average 140 per week. New referrals are seen at the most appropriate site and clinic but average 5000 per year to general surgery and Upper GI. A total of 150 and 100 resections for HPB and oesophagogastric malignancy were carried out in 2011 along with approximately 1000 laparoscopic cholecystectomies and a similar number of laparoscopic hernia repairs of all types.

**Clinical Activity**

Emergency general surgical services in Lothian are specialty based with colorectal disease admitted to the colorectal service at the Western General Hospital and Upper GI disease and trauma to the Royal Infirmary. The OG and HPB units provide regional services for the management of complex upper GI disease whereas the Transplant Unit provides a national service for liver and pancreas transplantation as well as a strong renal transplant programme which provides a service for the East of Scotland and Grampian region. There is a strong living related renal transplant programme with referrals coming from all parts of Scotland. The Unit is responsible for multiorgan retrieval within Scotland and has served as the lead for the establishment of a Scottish Organ Retrieval Team.

**Academic Surgery in Edinburgh**

The reorganisation of the departmental structure within the College of Medicine and Veterinary Medicine has resulted in Surgery at the Western General Hospital being integrated into Oncology within the School of Molecular and Clinical Medicine. Surgery (RIE) is integrated within Surgical Sciences, which covers the disciplines of General Surgery, Anaesthesia and Critical Care, Otolaryngology, Ophthalmology, Cardiac Surgery, Vascular Surgery and Transplantation Surgery. Internal Medicine and Locomotor Sciences form a part of the larger division of Clinical Sciences. These changes have increased opportunities for interdisciplinary research, which has been further consolidated by the establishment of
interdisciplinary research groups within the College. The Centre for Inflammation Research, the Centre for Reproductive Biology and Centre for Public Health and Primary Care Research are "hosted" by the School of Clinical Sciences.

Professor O J Garden serves as the Head of Clinical Surgery (RIE) and Professor P Hayes serves as Head of Clinical Sciences. It is expected that the new Senior Lecturer will hold an Honorary NHS Consultant contract with Lothian University Hospitals NHS Trust and undertake fixed sessional commitments as part of the general surgical teams based in the Royal Infirmary. These sessions will provide access to in-patient beds and specialist operating theatre and clinic sessions. Support of the team's commitment to day case surgery and the provision of specialist services in Lothian may require the appointee to undertake sessions in out-reach facilities on a rotational basis with consultant colleagues.

The distribution of academic staff within Surgery at the Royal Infirmary is shown in the Appendix and lists those individuals within the general surgical specialty involved in academic teaching and research at the Western General Hospital.

The clinical and research interests of the academic staff working in Clinical Surgery at the Royal Infirmary are hepatobiliary and pancreatic surgery (including hepatic, renal and pancreatic transplantation) and surgical oncology. The clinical and research interests of the staff working in Surgery at the Western General Hospital lie in colorectal cancer and breast disease. The Breast Unit has been based in the Western General Hospital since 1992 and with Oncology, is the site to which all patients with breast disease in Edinburgh are referred. There are important opportunities for research in areas that relate to some of the College's major initiatives including inflammation, epidemiology, human genetics and health services research.

The clinical activity of the academic units in the Royal Infirmary is based currently in the Upper GI and HPB Unit in Wards 106/107 and Ward 207 (Scottish Liver Transplant Unit, East of Scotland Renal Transplant Unit and Scottish Kidney and Pancreas Transplant Unit). The surgeons work as members of teams in oesophago-gastric surgery, hepatobiliary and pancreatic surgery, general/laparoscopic surgery, and transplant surgery. Consultant surgical staff have access to the High Dependency Unit beds and the Critical Care Unit. Vascular services are provided by five specialist vascular surgeons in the Vascular Unit based in Ward 105.

**Links with Other Research Groups**

Surgery in the Royal Infirmary has strong links with medical gastroenterology and renal medicine, links that were underpinned by the move of renal transplantation services from the Western General Hospital in 1995 to share the facilities occupied by the Scottish Liver Transplant Unit. Other collaborations within the Royal Infirmary include those with Respiratory Medicine and Pathology as part of the developing research centres for the study of inflammation, injury and repair.

**Clinical Surgery Research Facilities**

Well-found office, teaching and laboratory facilities are currently available on the Little France site.

**Undergraduate and Postgraduate Teaching**
Surgery continues to be a major element in the curriculum for medical undergraduates. There is major input from Surgery in all years of the curriculum with the greater part of general surgery being delivered in Year 3 as part of a seven-week gastroenterology module. Surgical teaching in Year 5 is delivered as part of a four-week module in both the main teaching and peripheral hospitals. Surgery contributes fully to the assessment of medical students by participating in, and organising, the Objective Structured Evaluation of Clinical Skills (Year 3), Special Study Modules (Year 4), and final MBChB examination (Year 5). Details of the assessment process in the final year are available at http://www.eemec.med.ed.ac.uk

Surgery plays a lead role in postgraduate training and education by offering facilities and supervision for research undertaken by medical and science graduates. There are 32 surgical trainees currently undertaking full time postgraduate research within Surgery, 2 of these in clinician scientist posts at the RIE, 7 as ECAT (Edinburgh Clinical Academic Track) posts and 23 in grant or other funded research posts. The University continues to organise a programme of research and audit activities on behalf of the surgical community in South-East Scotland, and participate fully in the postgraduate research and teaching activities of the Medical School and its affiliated hospitals.

Clinical Surgery has led the development and delivery of the Edinburgh Surgical Sciences Qualification (ESSQ - http://www.essq.rcsed.ac.uk) which is an innovative distance learning programme developed by the University of Edinburgh and the Royal College of Surgeons of Edinburgh. It is a part time, modular course that is delivered entirely online over three years and leads to the award of a Masters in Surgical Sciences (MSc). The course provides a strong grounding in basic sciences as applied to clinical surgery, and the level of learning is equivalent to the new intercollegiate membership of the Royal College of Surgeons syllabus (MRCS). The programme has run since 2007 and has some 250 enrolled students at any given time with an intake that exceeds 100 students each year. In September 2011, a two-year ChM in General Surgery programme (http://www.chm.rcsed.ac.uk) was launched with an annual recruitment target of 50 students. Similar programmes linked to the FRCS curriculum have been launched in Urology and Trauma & Orthopaedics in September 2012.

**SURGICAL STAFF**

Professor O J Garden  
(Regius Professor of Clinical Surgery)
Professor K C H Fearon  
(Professor in Surgical Oncology)
Prof R W Parks  
(Professor in Surgical Sciences)
Prof S J Wigmore  
(Professor of Transplantation)  
(Wellcome Fellowship)
Miss L P Marson  
(Clinical Senior Lectureship)
Prof J A Ross  
(Personal Chair in Liver Cell Biology)
Mr Stephen McNally  
(Clinical Lecturer)
Miss Janet Kung  
(Clinical Lecturer)
Mr Ewen Harrison
(Clinical Lecturer)
Mr Damian Mole  
(Clinical Lecturer)
Mr Luke Devey  
(Clinical Lecturer)
Mr G Stewart  
(Clinical Lecturer - Urology)
Prof J L R Forsythe  
(Honorary Professor)
Mr C Deans  
(part-time Clinical Senior Lecturer)