Job Description

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| **1. JOB IDENTIFICATION** | **Job Title** | **Consultant Breast (Symptomatic and Screening) & General/Gynaecological Radiologist**  |
| **Department(s)/Location** | **Breast Imaging/General Radiology in Ninewells**  |
| **Number of Job Holders** | **1** |
| 1. **JOB PURPOSES**

**Breast** The post is based at Ninewells Hospital, Dundee, with sessions in Perth Royal Infirmary (PRI). The post holder will work alongside consultant breast radiographers, and will have close working relationships with consultant breast surgeons and a wide range of other staff, including consultants from related specialties, and specialist nurses and radiographers.The NHS Tayside breast unit is a combined screening and symptomatic unit. It is recognised that it is best practice for screening and symptomatic services to be co-located. Tayside is one of only two Boards in Scotland to have this model.The post holder will be part of the radiology and multidisciplinary teams within both the symptomatic breast service and the East of Scotland Breast Screening Service. The post holder will work within a cohesive and supportive breast multidisciplinary team, and will take part in both screening and symptomatic MDT meetings. **General/Gynaecology**Successful applicants will be expected to: * work flexibly with other members of the imaging teams;
* participate in the work of the departments as allocated on the duty roster
* participate in annual job plan reviews
* participate in the provision of the on call service;
* contribute to agreed undergraduate and postgraduate teaching, subject to agreed time allocated in job plan
* participate in agreed audit and research activity, subject to suitable agreed time allocation in job plan
* support clinical-radiological meetings;
* Undertake the administrative duties associated with the care of his/her patients and the running of his/her department. Secretarial support is shared. Office accommodation may be shared.
* be flexible in any future discussion re: allocation of duties.

The job plan, to be agreed with the post holder, will include 10 programmed activities (PA): 8 Direct Clinical care sessions (DCC) and two supporting professional activities (SPA). There will be one session for on call commitments with general radiology and one for MDT. The first SPA is for appraisal and revalidation. The second SPA is optional in place of DCC for agreed duties such as teaching, departmental audit, service improvement, appraiser, clinical governance or research activities.  |
| 1. **SCOPE AND RANGE**

**Breast**The post holder will be expected to be fully competent to accepted UK standards to perform and/or report upon the full range of breast imaging examinations. These include screening and symptomatic mammography, including arbitration, ultrasound scans, X-ray and ultrasound-guided biopsies (core and vacuum-assisted), and breast MRI scans. CT competencies will also be expected. Performance in all modalities will fulfil national guidance and standards, including those prescribed by the Royal College of Radiologists and the national breast screening authorities of Scotland and the wider UK as applicable. Breast Screening and Imaging in NHS Tayside consists of a modern service with high quality equipment including Hologic mammography units, of which one has digital breast tomosynthesis (DBT) and contrast-enhanced mammography installed, and another has DBT and DBT biopsy. Supersonic Imagine and Samsung ultrasound units with shear-wave elastography are in place. Breast MRI scans are performed on a Siemens Magnetom 3-Tesla unit. Screening mammography is performed both in the hospital facilities and on mobile units. Investigation requesting is electronic and the radiology information system for symptomatic work is CRIS, linked to Philips PACS and the Scottish National Archive. Dundee has an international reputation in breast imaging research with over 50 breast imaging peer reviewed original papers in the last 10 years. The research team is now led by Dr Sarah Savaridas. The post holder will be encouraged to be part of the research activities and will benefit from considerable research infrastructure and research management expertise. The Tayside breast service is also active in surgical and other treatment research.There are links with the University of Dundee School of Medicine. There is a Clinical Research Imaging Facility within the Ninewells Hospital campus developed in collaboration between the University of Dundee and NHS Tayside, having a 3T MRI, 128 slice CT and CT/PET. In addition to research, there is an expectation that consultant level staff all contribute to the education and training of medical students and a range of healthcare staff.Tayside is committed to training and in breast specifically provides excellent opportunities for experience of state-of-the art techniques and technologies. There is also a commitment to training and developing the radiographic workforce and there are advanced and consultant, as well as assistant, radiographic practitioners in post. Screening The Breast Screening Service is commissioned by National Services Division (NSD). The East of Scotland Breast Screening Programme invites a population of approximately 76,000 women for screening at either static or mobile screening units. Screening assessment (review) clinics all take place in Ninewells Hospital currently but this could change in the future. Symptomatic service modelThe Breast Service is a multidisciplinary service. In our “new patient” clinic model, patients have a clinical examination by either a consultant surgeon or breast clinician, along with one or more of:* Mammography carried out by a radiographer or assistant practitioner and reported by a consultant radiologist, consultant radiographer or advanced radiographer practitioner;
* Ultrasound scan carried out by either a consultant radiologist, consultant radiographer or advanced radiographer practitioner;
* Biopsy carried out by either a consultant radiologist, consultant radiographer or advanced radiographer practitioner.

In Ninewells Hospital, these clinics and imaging procedures take place within the Breast Screening & Imaging Unit. In PRI the imaging is carried out in the Radiology Department. Out with the one stop clinics, planned mammograms, ultrasound scans, biopsies and other procedures including localisation take place within the Breast Imaging Unit at Ninewells or the Radiology Dept at PRI. The breast radiology service provides percutaneous image-guided vacuum excision of some B3 lesions, in line with relevant UK guidance.**General/ Gynaecology**Clinical Radiology is part of the Diagnostics Clinical Care Group and has responsibility for the provision of radiological services throughout NHS Tayside with major departments in Ninewells Hospital, Perth Royal Infirmary, Stracathro Hospital and Arbroath Infirmary. There is a GP access plain film unit at Kings Cross hospital. In addition, radiographic services are provided on several other smaller sites.Full utilisation of HSS CRIS and Carestream PACS integrated with the Carestream Scottish National PACS allows the Tayside Consultant establishment to provide a flexible and efficient delivery of services to the populations of Tayside from bases in Ninewells, Perth and Stracathro by means of cross site working, remote supervision and protocol lists. The department uses electronic referral and vetting. A voice recognition system is integrated into the Radiology Information System for reporting. NHS Tayside management recognise the pivotal role of Clinical Radiology in the delivery of appropriately timed interventions in cancer, inpatient and outpatient patient pathways. NHS Tayside is committed to the development of radiology services to provide a high quality clinical service and to ensure that government waiting time targets are met. This is reflected in the resources allocated to staff and equipment at sites across Tayside and to the support of clinical radiology specialist registrar training.Skill mix is supported with radiographers trained to perform barium enemas, plain film reporting and IV injections in CT and MRI. A number of qualified sonographers are employed across the area. **Clinical Radiology in Tayside** **Consultant Radiologists Special Interests**Dr. Sade Akinlade (Locum) Head and neck/ NeuroradiologyDr. Noor Alhaib (Locum) Haematology Dr. Vilte Balcaityte Neuro/Nuclear MedicineDr. Stephen Docherty GIDr. Gillian Duncan GI/Nuclear MedicineDr. Chary Duraikannu Cardiac / Chest Dr. Robert Foster GI / General Dr. Avinash Kanodia Neuroradiology Dr. Susila Krishnan (Locum) Breast/UrologyDr. Brooke Lawson GynaecologyDr. Amy Leslie GI/Gynaecology Dr. Angela McKinnie Chest Dr. Neil McIntyre Paediatrics Dr. Barry Oliver MusculoskeletalDr. Robin Pearson Neuro/ GIProfessor Prasad Guntur Ramkumar Cardiac/Nuclear MedicineDr. Ahmad Raofi Urology//Nuclear MedicineDr. Ketan Rathod (Locum) UrologyDr. David Scott MusculoskeletalDr. Shaloo Shaloo (Locum) GI Dr. Belal Soliman (Locum) General Dr. Thiru Sudarshan Oncology/ head and neck Dr. Magdalena Szewczyk-Bieda Urology/GynaecologyDr. Tom Taylor (Locum) Chest / GIDr. Tharika Thirumurthi (Locum) Paediatrics Dr. Mohammed Jaushal Thouseef (Locum) Chest Dr. Janani Vaishnavi ENT/Nuclear Medicine Dr. Riccardo Zannoni Neuroradiology**Interventional Radiology (IR) Consultants based in Ninewells hospital** Dr. Taymoor Asghar Interventional RadiologistDr. Raj Bhat Interventional RadiologistProfessor. Iris Grunwald (Honorary) Neuro InterventionDr Shilpi Pal Interventional RadiologistDr Sanjay Pillai Interventional Radiologist Dr. Neil Young Interventional RadiologistDr. Ian Zealley Interventional Radiologist**Radiographic Rooms**There are 6 radiographic units in Ninewells hospital between the main department and A & E. There is also one in East block. There is one fluoroscopy unit which can be used for all screening studies and Digital Flat plate. Image Intensifier used in a room to provide flexible accommodation for ERCP etc.There are two Angiography units for interventional radiology. **Ultrasound**There is a 4 room ultrasound suite which is integral to the department containing four GE Logiq E10 units.**Computed Tomography**There are 2 G.E. 128 Slice and 1 G.E. 64-slice CT units based in the main department.The 64 slice scanner is due for replacement in the next 18months**Magnetic Resonance Imaging**There are 2 MRI scanners, a Siemens Magnatom Avanto-Fit 1.5 Tesla and a Siemens Aera 1.5 Tesla.**Clinical Radiology in Perth**The main radiological service is provided from Perth Royal Infirmary. There are limited plain film facilities at the community hospitals in Blairgowrie and Crieff. Radiology services are provided by consultants throughout Tayside.**Radiographic Rooms**1. Fluoroscopy – Siemens Axiom Luminos TF
2. General – Philips/Samsung
3. General/A&E – Philips/Samsung
4. Mammography – Siemens Mammomat unit

**Computed Tomography**1. A Canon CXL 64 multi-slice CT scanner
2. A Canon Aquilion PRIME SP – 128 slice CT scanner on a mobile unit (owned by NHS Tayside)

**Ultrasound*** 2 GE Logiq E10 scanners
* 1 GE Logiq E9 scanner
* 1 SuperSonic Ultrasound unit used for mammo ultrasound

**Magnetic Resonance Imaging**Siemens Avanto 1.5 T Class fully specified unit **Clinical Radiology in Angus** The main radiological services are delivered from Stracathro hospital and Arbroath Infirmary. Radiologist input in Angus is delivered by the consultant radiologists based in Ninewells Hospital in rotation based on their job plan. **Stracathro Hospital**Stracathro hospital has been developed as a regional treatment centre for outpatients. Day-case type surgical procedures are performed here. There is a care of the elderly unit that has inpatient facilities at the site. The equipment in Stracathro is as follows:1. A 64-slice GE CT scanner.
2. A 1.5 Tesla Siemens Avanto-Fit MRI Unit
3. A GE logiq E9 ultrasound unit.
4. Wolverson CR X-ray room

**Arbroath Infirmary**The radiology department in Arbroath infirmary has completed a refurbishment with a redeveloped ultrasound room. The examinations are predominantly from outpatient clinics and general practitioner referral along with a small number of inpatients from the geriatric unit at Arbroath.* General – Xograph
* A GE Logiq E9 ultrasound unit

**East of Scotland Postgraduate Clinical Radiology Specialist Registrar, Student Radiographer and Nurse Training Schemes** NHS Tayside is accredited by the Royal College of Radiologists for Higher Training in Clinical Radiology. There are currently 21 radiology SpR NTNs.  The specialist registrars are trained mainly at Ninewells site with sessions in Perth Royal Infirmary, Stracathro Hospital and Victoria Hospital, Kirkcaldy. Structured teaching for FRCR fellowship exams preparation is delivered jointly with South-East Training scheme in Edinburgh. Joint academic posts are available in collaboration with University of Dundee.Regional Postgraduate Education Adviser Dr Shilpi PalTraining Programme Director Dr Magdalena Szewczyk-BiedaNinewells and Angus College Tutor Dr David Scott Perth College Tutor Dr Robin PearsonIn the last GMC survey, the training scheme has been ranked in the top third of all in the UK schemes for trainee satisfaction.**Student radiographer training**The department is involved in the training of diagnostic radiography students as part of their Robert Gordon University BSc and Queen Margaret University MSc course. There are also Healthcare Academy students present within the department. **Academic Radiology****Research and Development**Clinical radiology has a key role in the Tayside research and development activity undertaken across a broad range of clinical specialities. Historically individuals within the radiology department have been involved in obtaining grants associated with multidisciplinary collaborative projects developed with other departments and centres. The department is actively involved in several ongoing national multi-centre trials in association with other university and NHS departments. The department has established links with non-radiological post graduate students who are researching aspects of imaging which inter-relate with areas of their specialist research interest, and there are students working in the department who are studying for MSc, MD and PhD degrees. **Undergraduate Teaching**Undergraduate Radiology Teaching Leads Dr. Neil YoungDundee University has a new medical curriculum and achieved the highest award of “excellent” in the SHEFC Assessment. Undergraduate teaching in radiology involves formal lectures, student attachments, special study modules and integrated teaching.**Academic developments**There are links with the University of Dundee. There is a Clinical Research Imaging Facility (CRIF) headed by Director Dr. Prasad Guntur Ramkumar within the Ninewells Hospital campus developed in collaboration between the University of Dundee and NHS Tayside, having a Siemens 3T MRI, 128 slice GE PETCT with cardiac capabilities, and a latest GE Digital PETCT scanner, with research capabilities. CRIF also has extensive links with the well known CAHID (Centre for Anatomy and Human Identification) and provides Research CT/MRI imaging for Thiel cadavers for them.The University has 2 professors of imaging. Professor Iris Grunwald, Chair of Neuro Imaging and Professor Prasad Guntur Ramkumar, Honorary Professor, Director, Clinical Research Imaging Facility. These positions are intended to link between the NHS clinical department and the university to facilitate academic and research activity throughout clinical radiology and continue to build expertise in the fields of imaging as an integral component of our cancer, cardiovascular and neurosciences research strategies. **Interventional Radiology Service**Interventional radiology service in Tayside is based in Ninewells hospital, Dundee. A wide range of vascular and non vascular interventional procedures including interventional oncology are performed in this 2 room unit (Siemens Artis Zee/Q). There are 5 interventional radiologists who provide a 1 in 7.5 rota for interventional radiology on call for vascular and non vascular cases. Currently we provide day-time interventional radiology service in Victoria Hospital, Kirkcaldy, 3 days a week. The ESVN is a Managed Clinical Network for the care of patients with vascular disease in the Tayside and Fife Health Board Areas covering a total population of 750,000. Out-patient services are delivered at multiple localities in Tayside and Fife. In-patient services are based at Ninewells Hospital and at Victoria Hospital. All emergency services are centralised at Ninewells Hospital. Fife-based surgeons rotate to Ninewells when on call, and during this time, their elective work is performed in Fife by rotating Tayside-based surgeons. One of the vascular surgeons is trained in endovascular techniques and performs 2 lists within the Radiology department at Ninewells. All vascular patients from Fife and Tayside undergoing radiological and surgical investigations and treatments are discussed at a weekly multidisciplinary meeting at Ninewells which is linked to rapid clinic review. There are regular surgical audit meetings and close links and regular vascular access meetings with nephrology services on both sites.  **Nuclear Medicine Service**The Nuclear Medicine Department in Ninewells is one of the busiest in Scotland and provides the full range of diagnostic imaging studies, laboratory based studies and therapies with unsealed sources.At present it has three gamma cameras which perform approximately 5000 imaging studies per year. All cameras are dual headed with SPECT CT capability. The imaging service supports virtually all of the clinical specialties across Ninewells, the Royal Victoria Hospital, PRI and Stracathro sites. We are supported and supplied by an on-site radiopharmacy.The Department has a total of 10 PA’s delivered by Consultant Radiologists - Drs. Gillian Duncan, Prasad Guntur Ramkumar, Janani Vaishnavi, Vilte Balcaityte,and Ahmad Raofi.Drs. Gillian Duncan, Thomas Taylor, Thiru Sudarshan, Prasad Guntur Ramkumar, Vilte Balcaityte and Ahmad Raofi provide the PET CT service based in the CRIF (Clinical Research Imaging Facility).The imaging service provides a comprehensive range of investigations including bone scans, V/Q lung scans, myocardial perfusion imaging, isotope renography, MUGA, labelled white cell scintigraphy, DaT scans, thyroid and parathyroid imaging, MIBG scans and Octreotide scans.The Department is actively and enthusiastically involved in teaching at both and undergraduate and postgraduate level. The Department is heavily committed to the training programme of Specialist Registrars in Radiology based in Ninewells. The Department also continues to have a number of research projects made up of NHS clinical projects and commercially funded studies. |