

**JOB DESCRIPTION**

AfC Number: PTB0298c

<b>JOB TITLE:</b>	<b>Specialist Cardiac Physiologist – Arrhythmia (CRM, Ambulatory, Tilt and ILR) and Interventional Cardiology (Cath Lab)</b>
<b>BASE:</b>	<b>Cardiology Department, City Hospital</b>
<b>DIVISION:</b>	<b>Medicine</b>
<b>CONTRACTED HOURS:</b>	<b>37.5 hours</b>
<b>GRADE:</b>	<b>AFC Band 6</b>
<b>RESPONSIBLE TO:</b>	<b>Cardiology Diagnostics Service Manager</b>
<b>ACCOUNTABLE TO:</b>	<b>Divisional Manager, Medicine</b>

**JOB SUMMARY:**

The Cardiology Diagnostics Department offers a wide range of invasive and non-invasive cardiac diagnostic investigations and interventional procedures to the patients in the Sandwell and West Birmingham areas. The postholder will work in a multidisciplinary team including consultants, cardiographers, radiographers, nurses, managerial, clerical, and portering staff on a regular basis.

The postholder will perform a range of routine and specialist diagnostic investigations and interventional procedures on patients with a range of clinical situations as a competent independent practitioner. All work will be to a high standard in line with the SCST, BHRS and RCCP code of registration (Professional cardiac bodies).

**MAIN RESPONSIBILITIES:****Arrhythmia – Ambulatory and Exercise Tolerance Tests**

- 1.1 To perform efficiently and accurately electrocardiograms (ECG's) with full interpretation as part of GP clinics, outpatient clinics and ward cover.
- 1.2 To accurately apply 24-hour ambulatory ECG and blood pressure monitors to in and out patients.
- 1.3 To provide a detailed analysis of the ambulatory recordings, and produce a clinical report, of normal and abnormal findings, to aid consultant decision in clinical diagnosis.
- 1.4 To recognise when to refer significantly abnormal results to a doctor immediately.
- 1.5 To be fully conversant with the full range of event and loop recorders / monitors available to patients, including the download, analysis and provision of a clinical report to aid consultant decision in clinical diagnosis.
- 1.6 To be responsible when performing physiologist and medical led exercise tolerance tests, duties include;
  - to obtain up-to-date relevant clinical history of patient,
  - to monitor patients' haemodynamics (ECG and BP),
  - assess patient and modify test protocol if needed,
  - technical responsibility for ending the test according to the patients' haemodynamics and symptoms, or protocol (e.g. DVLA),
  - administration of GTN and/or oxygen if necessary,

- responsibility for defibrillation and immediate life support delivery in emergency situations,
- referral to a doctor when further medical attention is required,
- provision of a factual report

### **Interventional Cardiology (Cath Lab):**

- 1.7 To be responsible for performing the technical role during diagnostic and interventional cardiac catheterisation in the cardiology catheter laboratory (theatre environment) to Include;
- set up and calibration of the pressure monitoring equipment,
  - communication and documentation of detailed measurements, events and consumables during the procedure,
  - Close monitoring of the patients' haemodynamics (ECG, SP02 and invasive BP).
  - Recognition and interpretation of electrographic signals and pressure waveforms, with subsequent advice to the operator of optimal catheter sites and intraoperative complications
  - recording of all equipment and medication used during procedures
- 1.7 Set up and operation of equipment used during procedures:
- LUCAS device
  - Defibrillator
  - Intra aortic balloon pump
  - Temporary pacing devices in an emergency situation
  - Intravascular ultrasound (IVUS)
  - OCT
  - Rotablation
  - Orbital atherectomy
  - Coroventis FFR/RFR (CMR/IMR)
  - Volcano IFR
  - Shockwave
- 1.8 Setup and operation of the McKesson system
- 1.9 Monitoring and recording of data during PTMC procedures and operation of the radiofrequency generator
- 1.10 To participate in the 24/7 out of hours "on call" service for cardiac emergencies.

### **Arrhythmia – Cardiac Rhythm Management:**

- 1.11 To perform device implantation procedures (in the cardiology catheter laboratory); to include permanent pacemakers, cardiac resynchronisation devices, implantable cardioverter defibrillators and implantable loop recorder systems by;
- close monitoring of the patients' ECG at all times,
  - selection of appropriate device and leads for the patients' individual needs,
  - the ability to recognise normal / abnormal pacing signals,
  - Communication and documentation of detailed electrical measurements at lead implantation.
- 1.13 To perform single and dual chamber pacemaker post implant follow up checks to include;
- completion of legal documentation,
  - completion of electronic patient device record,
  - clear instructions, guidance and advice on living with a pacemaker and subsequent complications to patient,
  - interrogation of devices using a range of programmers to review data and obtain lead and device measurements
- 1.14 Knowledge of when to refer to an advanced cardiac physiologist / doctor when abnormal results present. E.g. lead displacement.
- 1.15 To carry out physiologist led single and dual chamber pacemaker follow up clinics (face to face and remote clinics) to include where applicable;
- verbal and visual assessment of patients' physical state with reference to the function of the pacemaker, basic wound care and observation of the healing process,

- interrogation of devices using a range of programmers to review data and obtain lead and device measurements,
  - adaptation of settings and parameters specific to patients' individual needs under direct supervision,
  - prescription of simple therapy settings,
  - alteration of parameters with a good understanding of potential consequences,
  - discussion of outcomes with patients at a suitable level of understanding,
  - follow up appointments made for each patient appropriate to their individual needs,
  - Knowledge of when to refer to an advanced/principal cardiac physiologist / doctor for more expert advice when abnormal results / findings / clinical symptoms present.
  - Completion of clinical documentation including details of the outcome of device follow up
- 1.16 To assist in implantable device clinics, i.e. cardiac resynchronisation therapy, implantable cardioverter defibrillator under direct supervision of an advanced/principal cardiac physiologist

### **Arrhythmia – ILR and Tilt Tests:**

- 1.17 To carry out Implantable loop recorder follow up checks both via remote monitoring and hospital checks
- 1.18 To perform tilt table tests under the supervision of a Lead Physiologist or Doctor
- 1.19 To provide support to the Lead Physiologist during implantable loop recorder implant procedures and provide aftercare information to the patient
- 1.20 Carry out quality assurance checking in both ILR service and tilt table service
- 1.21 Support the training of other staff

### **Communication**

- 2.1 To communicate within the multidisciplinary team, and develop relationships to allow effective working.
- 2.2 To produce written accurate clinical reports appropriate to the tests, and articulate them to the medical staff in a professional manner.
- 2.3 Liaise closely with patients, and with their carers if necessary, with whom it may be difficult to communicate, explaining procedures as appropriate.
- 2.4 Acknowledge personal preferences, rights and choice of patients, including their cultural and religious beliefs.
- 2.5 Deal with patients who are acutely unwell and distressed.
- 2.6 Ensure all patients are dealt with courteously and promptly, whilst maintaining their privacy, dignity and comfort as much as possible.
- 2.7 Answer the telephone in a correct manner and direct calls to the correct person/department when required.

### **Education and Training**

- 3.1 To undertake any further training deemed necessary to perform the duties of the post and keep abreast of advances and developments in the field of cardiology.
- 3.2 To work towards gaining British Heart Rhythm Society accreditation
- 3.3 To maintain own professional portfolio in accordance with CPD.
- 3.4 To be responsible for development of own professional practice and professional registration.
- 3.5 Participate in creating a learning environment in the department by supervising students, nurses, and junior doctors in routine tests.
- 3.6 Attend all mandatory training courses to include ILS.
- 3.7 Attend any meetings that are appropriate.

## **Research and Governance**

- 4.1 Participate in audit by way of data collection into patient management systems within the department / hospital.
- 4.2 Contribute to the development of practice with the cardiology department.
- 4.3 Utilise research to inform best practice.
- 4.4 Occasionally participate in any research study being undertaken by the department as necessary

## **Other Responsibilities**

- 5.1 Use own initiative appropriate to grade where complications arise within the daily workload, to decide what best action to take/whom to call upon for help if necessary.
- 5.2 Prioritise tasks on a daily basis eg urgent in-patient work during an outpatient clinic list.
- 5.3 Undertake duties according to departmental and corporate protocols, policies, and guidelines.
- 5.4 Prepare, monitor and maintain materials and equipment for clinical procedures. If found to be faulty, recognise and briefly assess equipment failures, and rectify or report to relevant supervisor.
- 5.5 Be responsible for the safe use of equipment used eg echocardiography machine £100,000
- 5.6 Ensure adequate stock levels of consumables, informing appropriate staff of any requirements in a timely manner.
- 5.7 Carry out any other duties, appropriate to the grade, at the request of the cardiology service manager.
- 5.8 Develop and maintain knowledge of departmental computer systems.

## **CONFIDENTIALITY:**

The post holder must maintain confidentiality of information relating to patients, staff and other Health Service business.

## **HEALTH AND SAFETY:**

Employees must be aware of the responsibilities placed on them under the Health & Safety at Work Act (1974) and the Manual Handling Operations Regulations (1992). This ensures that the agreed safety procedures are carried out to maintain a safe environment for employees, patients and visitors to the Trust.

If you are a manager you will be responsible for the Trust's policy on Health and Safety and for taking all reasonable steps to maintain and where necessary to improve health and safety standards. This will include training to ensure that all employees are able to carry out their health and safety responsibilities effectively.

## **RISK MANAGEMENT:**

All staff have a responsibility to report all clinical and non-clinical accidents or incidents promptly and, when requested, to co-operate with any investigation undertaken.

## **EQUAL OPPORTUNITIES:**

The trust has a clear commitment to its equal opportunities policy and it is the duty of every employee to comply with the detail and spirit of the policy.

## **CONFLICT OF INTEREST:**

The Trust is responsible for ensuring that the service provided for patients in its care meets the highest standard. Equally it is responsible for ensuring that staff do not abuse their official position for personal gain or to benefit their family or friends. The Trust's Standing Orders require any officer to declare any interest, direct or indirect with contracts involving the Trust. Staff are not allowed to further their private interests in the course of their NHS duties.

**USE OF INFORMATION TECHNOLOGY:**

To undertake duties and development related to computerised information management to meet the changing needs and priorities of the Trust, as determined by your manager and in accordance with the grade of the post

**SMOKING:**

This Trust acknowledges its responsibility to provide a safe, smoke free environment, for its employees, service users and visitors. Smoking is therefore not permitted except in designated areas and in accordance with the guidelines set down within the Trust Smoking Policy.

The above duties and responsibilities are intended to represent current priorities and are not meant to be a conclusive list. The post holder may from time to time be asked to undertake other reasonable duties. Any changes will be made in discussion with the post holder in the light of service needs and will be commensurate with the grade and competencies of the post.

*I agree that this Job Description is an accurate reflection of my current role and responsibilities.*

Name: .....

Signature: .....

Date: .....