

CATH LAB TECHNICIAN

OCCUPATIONAL SUMMARY

Assists physicians in diagnosing and treating cardiac and peripheral vascular disease and cardiac arrhythmias in the Cath/EP Lab specializing in the care of patients undergoing PTCA, stent placement, IABP placement and EP devices and ablations. With increased experience provides resource and mentoring to new staff while exhibiting enhanced technical skills.

WORK PERFORMED

1. Uncertified: The Cardiac Catheterization and Electrophysiology Lab Tech assists physicians in diagnosing and treating cardiac and peripheral vascular disease and cardiac arrhythmias in an invasive procedure arena, specializing in the care of patients undergoing:
 - Basic diagnostic catheterization procedures on adult patients with known and suspected congenital and acquired cardiac and peripheral vascular disease.
 - Basic interventional procedures which may include any of the following: PTCA, stent prep and placement, IABP placement and operation
 - Basic EP procedure may include any of the following; EP studies, implantation of pacemaker, ICD, BIV ICD and ablations.
 - Operation of the physiologic and radiographic equipment in a safe and efficient manner.
 - Maintain high standards to achieve quality patient care.
 - Keep critical skills current.
 - Patient interaction:
 - Patient transportation, good communication and evaluation of patient status during the procedure, provide age and gender specific care, prep access site according to lab standard practice, and perform EKG lead placement, blood pressure and pulse oximetry setup for hemodynamic monitoring.
2. Procedural requirements: Room preparation and breakdown to include fluid preparation with accurate drug concentrations, stocking rooms, narcotic counts, daily QC checks, radiographic, hemodynamic and computer setup, and room cleanup
3. Prepare sterile procedure tray and patient sterile field appropriately for specified procedure type
 - Observe occupational and radiation safety regulations (wearing badges, lead aprons, goggles, gloves)
 - Acquire and accurately document pertinent patient data on encounter form and enter into hemodynamic and X-ray systems.
 - Function in all roles rotating during the day as defined:
 - Room circulator- Patient interaction, monitoring/vital signs and procedural documentation, setup equipment such as IABP, power injector, temporary pacer, biopsy, and sterile equipment/catheters/balloons/wires handoffs, running blood oximetry for cardiac output; Assist MD with EP Diagnostic and Mapping systems which includes Carto, EPMed and ESI.
 - Scrub- Maintain sterile procedure, infectious control, observe all fluid patency of catheters, balloons and manifolds, assist according to physician direction

- Monitor- Functions in the control room operating the X-ray Equipment and hemodynamic monitoring equipment, reporting EKG, blood pressure, heart rate, pulse ox changes, recording hemodynamic pressures accordingly, scan pertinent patient and procedural information into hemodynamic system, assist with X-ray equipment and transfer images to digital archive.

TEACHING/EDUCATION SKILLS

1. Ability to educate the patient of procedure expectations before, during and after the procedure. Instruct the patient of post-catheterization limitations and restrictions.
2. Certified: The Cardiac Catheterization /Electrophysiology Lab Tech assists physicians in diagnosing and treating cardiac and peripheral vascular disease and cardiac arrhythmias in an invasive procedure arena, specializing in the care of patients undergoing: Basic and complex diagnostic catheterization procedures on adult patients with known and suspected congenital and acquired cardiac and peripheral vascular disease.
3. Complex diagnostic procedures may include valvular, congenital defects, pulmonary involvement, radial, brachial and neck approaches, O.R. portable procedures, and any research protocols. Complex EP procedures include atrial fibrillation and ventricular tachycardia ablations and patients with low ejection fraction needing BiV ICDs.
 - Complex EP procedures which include ablations, BIV ICDs and laser extractions.
 - Basic and complex interventional procedures which may include PTCA, stents, IABP placement and operation, Rotoblator, Laser, thrombolysis procedures (Angiojet, Percusurge), valvuloplasties, pulmonary stents, coils, peripheral and congenital interventions.
 - Operation of the physiologic and radiographic equipment in a safe and efficient manner.
 - Maintain high standards to achieve quality patient care.
 - Keep critical skills current.
4. Crosstraining to all labs (Mobile, Pediatric and Fixed Cardiac Cath Labs and EP as applicable) is strongly encouraged.

TECHNICAL SKILLS

- Demonstrates knowledge of and performs all Cardiovascular Technologist Level uncertified skills (patient interaction and procedural requirements) in an effective and professional manner.

MEETS THREE OR MORE OF THE FOLLOWING:

- Performs patient care procedures that require additional skill and training with competency such as sheath removals and foley catheter insertions.
- Demonstrates knowledge regarding location, use, and troubleshooting of complex technical equipment/instruments such as Millar catheter, Rotoblator, Laser, Angiojet, portable x-ray, radial/brachial setup, coils, Nitric Oxide, peripheral interventions including carotid stenting and balloon valvuloplasty. EP procedure troubleshooting of complex equipment including Carto mapping, ESI mapping, and Acuson Intra-Cardiac Echo (ICE).



- Performs in the role of data entry, generating accurate cath reports from diagnostic or interventional procedures.
- Demonstrates knowledge of and calculates valvular areas on the hemodynamic monitoring system.
- Demonstrates knowledge of and technical skill to problem solve X-Ray and hemodynamic monitoring equipment (Mobile Lab Only)

TEACHING/EDUCATING SKILLS

- Ability to educate the patient of procedure expectations before, during and after the procedure in a professional manner. Instruct the patient of post-catheterization limitations and restrictions.

MEETS 2 OR MORE OF THE FOLLOWING:

- Assists in the orientation of employees and students as requested by management.
- Demonstrates ability to mentor new technologists while maintaining high standards of patient care, documentation, and professionalism.
- Participates as an instructor in the annual skills checkoff.
- BLS/ACLS instructor
- Participates in the process of setting up in-services at community hospitals and making follow-up phone calls. (Mobile Lab Only)

Signature_____

Date_____

(Please Print Your Name)

Concentric Representative _____

Date_____