

LAC+USC MEDICAL CENTER

CARDIAC CATHETERIZATION LABORATORY

SCOPE OF SERVICES

Department Purpose

The Cardiac Catheterization Laboratory (CCL) serves as an important component of the continuum of care in the LAC+USC Medical Center, providing diagnostic and therapeutic interventions to patients with various cardiac problems, coronary artery disease and vascular problems that require interventional procedures. Care is ongoing and encompasses pre and post procedure care and varying states of monitoring pre, intra, and post coronary catheter diagnostic and intervention procedures.

Scope of Services

The Cardiac Cath Lab is equipped to perform cardiac diagnostic procedures such as coronary angiogram, cardiac catheterization with angioplasty, electrophysiology studies; and various therapeutic interventions which may include percutaneous angioplasty, coronary stent placement, rotablation, ICD placement, pacemaker implant and TAVI (Transcatheter Aortic Valve Implantation, Cardiohelp/ ECMO, Impella device placement and intra-aortic balloon pump placement. The Service also provides peripheral vascular angiography, peripheral vascular angioplasty and stent placement. The Cardiac Cath Lab is an integral component of the LAC+USC facility designation as a STEMI Receiving Center collaborating with the Emergency Department and Coronary Care Unit to provide appropriate and timely care to patients with acute ST elevation myocardial infarction and non-STEMI patients requiring emergent cardiac interventions.

The care provided includes pre and post procedure Nursing care; monitoring patients during and after procedures under moderate sedation standards; supporting patients in varying states of recuperation from invasive coronary catheter procedures and therapeutic interventions; preventing complications and promoting healing; evaluating and treating acute and chronic cardiac problems; providing a therapeutic environment; educating patient/family to improve self-care abilities, health maintenance and rehabilitation; and facilitating discharge from the CCL recovery area to home or to the inpatient unit. Patients are continually assessed for their response to therapeutic interventions and for the attainment of desired goals. An interdisciplinary approach to patient care management is used to assist the patient in making an educated decision about his/her care. Nursing and cardiology house staff, under the direction of the Division Chief of Cardiology, act collaboratively with cardiothoracic surgeons to review cardiac cath results and develop an appropriate plan of care with the patient. Additional collaboration exists with social services, pastoral care, the department of radiology, food and nutrition services and epidemiology.

Quality Control Indicators

The indicators that are monitored are:

- Patient/Family Teaching Pre and Post Procedure
- Pre-op Preparation
- Plavix Follow up / Patient Teaching
- Post procedure note entered prior to patient leaving cath lab.

Performance Improvement Indicators

- Patient flow
- 24 hour Complication Assessment post procedure
- Door to Balloon Time less than 90 min.

Reviewed/Revised: March 2005; December 2012; August 2013; January 2016; June 2020

Approved: August 2020

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Recognized Standards

Care is provided consistent with applicable regulatory and professional standards inclusive of but not limited to the California Board of Registered Nursing, OSHA, Joint Commission, Title 22, the American Nurses Association, the FDA, the American Medical Association, and the American College of Cardiology and the College of American Pathologists.

Availability of Necessary Staff

The unit operates from 6:00 a.m. to 17:30 p.m., Monday through Friday. Emergency procedures are done after regular hours of operation including weekend and holidays. The nursing staff reports to a Nurse Manager (NM) who works collaboratively with the CCL Medical Director and the Division Chief of Cardiology. The NM is responsible for providing sufficient quantities of nursing staff to meet the acuity needs of the patients and complexity of procedure. S/he is responsible for the quality of the nursing care provided and the performance of assigned staff. Staff on the unit meet the standard DHS competencies for their categories as well as unit specific competencies for their professional level and/or job description. Registered Nurses, Cardiovascular Technicians and Nursing Attendant provide patient care in collaboration with the Medical staff and other disciplines.