STANDARDIZED PROCEDURE
CORONARY ARTERY ANASTOMOSIS

These procedures are intended to describe procedures performed by Nurse Practitioners and/or Certified Nurse Midwives (depending on the clinical privileges granted to the individual practitioner) at UC San Diego Health.

I. Policy
a. Function: To assist the Surgeon in coronary artery anastomosis during Coronary Artery Bypass Grafting (CABG)
b. Circumstances:
   i. Setting: See Cardiothoracic Surgery Nurse Practitioner General Policy for Operative Procedures Standardized Procedure
   ii. Supervision: See Cardiothoracic Surgery Nurse Practitioner General Policy for Operative Procedures Standardized Procedure
   iii. Patient Conditions/Indications for Coronary Artery Anastomosis:
       1. Patients undergoing CABG as determined by Surgeon

II. Protocol
a. Definition: Coronary Artery Anastomosis for CABG
b. Objective: To assist the Surgeon in performing coronary artery anastomosis during CABG
c. Assessment: Patient which meets coronary artery anastomosis as outlined in section I-b-iii above as determined by the Surgeon
d. Plan:
   i. Equipment Necessary includes but is not limited to:
      1. Sterile Environment (Scrubbed into the sterile OR environment)
      2. Proper instrumentation as determined by the Surgeon for anastomosis (based on size/type of graft)
      3. Suture as per Surgeon
      4. Pump Sucker (from Cardio-Pulmonary Bypass machine if on bypass) Wall Sucker with Cell-Saver device if performed off bypass
      5. Sodium Chloride Solution for irrigation
      6. Vein/Artery Graft of choice per Surgeon
   ii. Pre-Procedure
      1. Education provided during Pre-Operative period (see Pre-Operative Evaluation Standardized Procedure)
      2. Consent signed Pre-Operatively for procedures performed in the Operating Room
   iii. Patient Position
      1. As per Surgeon
   iv. Coronary Artery Anastomosis Procedure
      1. Select the proper instruments for the anastomosis as directed by the Surgeon
2. Retract the coronary artery, as directed by the Surgeon
3. Maintain proper tension on the suture while following stitch as directed by Surgeon
4. Tie knots to avoid slippage
5. Maintain a field free of blood by suctioning, irrigating area, or blowing air on the anastomosis

v. Patient conditions requiring Immediate Physician Attention (Complications) including but not limited to:
   1. Hemorrhage
   2. Technical-Slipped stitches, loosening of knots
   3. Cardiac Arrest-Emergency Protocols and ACLS will be instituted

vi. Follow-Up:
   1. Continued evaluation and treatment throughout peri-operative course

e. Record Keeping: See Cardiothoracic Surgery Nurse Practitioner General Policy for Operative Procedures Standardized Procedures

III. Requirements for the Nurse Practitioner

VII. RESPONSIBILITY
Please contact the Advanced Practice Council if you need help. The administrative assistant for the Chief Nursing Officer can direct you. Call: 619-543-3438.

VIII. HISTORY OF PROCEDURE
Revised by the Committee of Interdisciplinary Practices: 2/26/2014, 9/28/2016
Reviewed by the Medical Staff Credentials Committee: 3/5/2014, 10/6/2016
Approved by the Medical Staff Executive Committee: 3/20/2014, 10/7/2016