

## EMS STEMI RECEIVING CENTER DESIGNATION

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### I. PURPOSE

To define requirements for designation as a Contra Costa County STEMI Receiving Center (SRC) for patients transported via the 911 system with ST-elevation myocardial infarction (STEMI) who may benefit by rapid assessment and percutaneous coronary intervention (PCI).

### II. APPLICATION PROCESS

To apply for designation as an EMS STEMI Receiving Center (SRC) for Contra Costa County, and interested hospital shall:

- A. Submit a Contra Costa EMS designation application to the Contra Costa EMS Agency.
- B. Pay applicable initial application fee and annual designation fee to cover initial and ongoing County costs to support the STEMI program.

### III. DESIGNATION CRITERIA

- A. Current California licensure as an acute care facility providing Basic Emergency Medical Services.
- B. Ability to enter into a written agreement with Contra Costa County identifying SRC and County roles and responsibilities.
- C. Meets STEMI Receiving Center Designation Criteria as defined in the STEMI Designation Application. The criteria include:
  1. Hospital Services
    - a. Special permit for cardiac catheterization laboratory.
    - b. Intra-aortic balloon pump capability.
    - c. Special permit for cardiovascular surgery service.
      - 1) The Contra Costa EMS Medical Director may waive this requirement for patient or system needs.
      - 2) Conformance with the American College of Cardiology/American Heart Association/Society for Cardiovascular Angiography and Intervention (ACC/AHA/SCAI) guidelines for centers without backup cardiovascular surgery will be evaluated in consideration of the waiver.
    - d. Continuous availability of PCI resources (24-hours/7-days a week).
  2. Hospital-Personnel
    - a. STEMI Receiving Center Medical Director
    - b. STEMI Receiving Center Program Manager
    - c. Cardiac Catheterization Lab Manager/Coordinator
    - d. Intra-aortic balloon pump technician(s)
    - e. Appropriate Cardiac catheterization nursing and support personnel
    - f. Physician Consultants
      - 1) Cardiology interventionalist
      - 2) CV Surgeon
  3. Clinical Capabilities
    - a. ACC/AHA/SCAI guidelines for activity levels of facilities and practitioners for both primary PCI and total PCI events are optimal benchmarks.

- b. Performance (timeliness) and outcome measures will be assessed initially in the survey process, and will be monitored closely on an ongoing basis.
- D. Appropriate internal (hospital) policies including:
  1. Cardiac interventionalist activation
  2. Cardiac catheterization lab team activation
  3. STEMI contingency plans for personnel and equipment
  4. Coronary angiography
  5. PCI and use of fibrinolytic
  6. Interfacility transfer STEMI policies/protocols
- E. Performance Improvement Program
  1. Participation in Contra Costa EMS SRC QI Committee Core Membership
    - a. EMS Medical Director
    - b. EMS Quality Improvement Coordinator
    - c. Designated cardiologist from each SRC
    - d. Designated quality improvement representative from each SRC
  2. Meetings to be held on a quarterly basis initially. Meeting frequency to be reviewed following the first year.
  3. Written internal quality improvement plan/program description for STEMI patients shall include appropriate evidence of an internal review process that includes:
    - a. Death rate (within 30 days, related to procedure regardless of mechanism)
    - b. Emergency CABG rate (result of procedure failure or complication)
    - c. Vascular complications (access site, transfusion, or operative intervention required)
    - d. Cerebrovascular accident rate (peri-procedure)
    - e. Post-procedure nephrotoxicity (increase in serum creatinine of >0.5)
    - f. Sentinel event, system and organization issue review and resolution processes
  4. Participation in Prehospital STEMI related educational activities.
- F. Data Collection, Submission and Analysis
  1. Participation in National Cardiac Data Registry (NCDR)
  2. Participation in Contra Costa County EMS data collection as defined by Data Requirements for STEMI Centers document available at the Contra Costa EMS Agency.

#### **IV. DESIGNATION**

- A. SRC designation will be awarded to a hospital following satisfactory review of written documentation and an initial site survey by Contra Costa EMS staff.
- B. SRC designation period will coincide with the period covered in the written agreement between the SRC and the County.

#### **V. BASIS FOR LOSS OF DESIGNATION**

- A. Inability to meet and maintain STEMI Receiving Center Designation Criteria
- B. Failure to provide required data
- C. Failure to participate in STEMI system QI activities
- D. Other criteria as defined and reviewed by the SRC QI Committee