



**BOARD OF SUPERVISORS  
AGENDA LETTER**

**Agenda Number:**

**Clerk of the Board of Supervisors**  
105 E. Anapamu Street, Suite 407  
Santa Barbara, CA 93101  
(805) 568-2240

**Department Name:** Public Health  
**Department No.:** 041  
**For Agenda Of:** May 21, 2019  
**Placement:** Administrative  
**Estimated Time:**  
**Continued Item:** No  
**If Yes, date from:**  
**Vote Required:** Majority

**TO:** Board of Supervisors

**FROM:** Department Van Do-Reynoso, MPH, PhD, Director  
Director(s) Public Health Department  
Contact Info: Nicholas Clay, Emergency Medical Services Director  
805-681-5394

**SUBJECT: EMS STEMI Revenue Agreements for Marian Regional Medical Center and Santa Barbara Cottage Hospital**

**County Counsel Concurrence**

As to form: Yes

Other Concurrence: Risk Management

As to form: Yes

**Auditor-Controller Concurrence**

As to form: Yes

**Recommended Actions:**

That the Board of Supervisors consider the following:

- a) Approve and authorize the Chair to execute a Fourth Amendment (Attachment A) to the Agreement between Santa Barbara County and Marian Regional Medical Center for designation as a Santa Barbara County STEMI Receiving Center to add \$14,557 and to extend the term six months through December 31, 2019.
- b) Approve and authorize the Chair to execute a Fourth Amendment (Attachment F) to the Agreement between Santa Barbara County and Santa Barbara Cottage Hospital for designation as a Santa Barbara County STEMI Receiving Center to add \$14,557 and to extend the term six months through December 31, 2019.
- c) Determine that the recommended actions are not a "Project" within the meaning of California Environmental Quality Act (CEQA), pursuant to CEQA Guideline Section 15378(b)(4), since the recommended actions are a government fiscal activity which does not involve commitment to any specific project which may result in a potentially significant physical impact on the environment.

**Summary Text:**

This item is on the Agenda to execute Fourth Amendments to Agreements for specialized cardiac care and treatment with Marian Regional Medical Center and Santa Barbara Cottage Hospital as STEMI

Receiving Centers. The Fourth Amendments will extend the term of the Agreements and increase Agreement amounts to allow the County to continue recovering costs that the EMS Agency incurs to oversee the program at the local STEMI Receiving Centers. This system of care enables to efficient movement of cardiac patients within the County in both emergency and non-emergency settings. The County EMS Agency is responsible for ensuring these patients receive appropriate and timely care.

**Background:**

The Comprehensive Cardiac Care System was created in 2010 and the STEMI program is part of this system. The program was established to provide an organized response to STEMI patients which includes oversight of the STEMI Receiving Center in Santa Barbara County. The term “STEMI” refers to a type of heart attack called “ST Elevated Myocardial Infarction”. STEMI Receiving Centers have established protocols and procedures to ensure care is provided quickly to those experiencing STEMI-type heart attacks in order to improve outcomes.

Acute myocardial infarction (heart attack) remains the leading cause of death of adults in the United States. A heart attack results when the flow of blood to the heart is cut off, causing permanent damage to the heart muscle. ST-elevated myocardial infarction (known as “STEMI”) comprises 25-40% of all heart attacks nationwide, according to the American Heart Association. National mortality rates from STEMI vary between 7 and 18%, and are dependent upon access to timely and proficient care. Existence of an efficient Comprehensive Cardiac Care Program using defined medical therapies, such as those adhered to in our local STEMI Receiving Centers, is felt to be the single most significant factor in the determination of favorable outcomes.

The most effective method of re-opening clogged coronary arteries for most STEMI patients is cardiac catheterization, known as Percutaneous Coronary Intervention which uses a catheter threaded into the coronary artery to open the blockage. According to the Journal of the American College of Cardiology’s *2013 Guideline for the Management of ST Elevation Myocardial Infarction*, “all communities should create and maintain a regional system of STEMI care that includes assessment and continuous quality improvement of emergency medical services and hospital-based activities”. This includes access and facilitated transfer (within specific time windows) to an STEMI Receiving Center where Percutaneous Coronary Intervention can be performed.

**Performance Measure:**

**System Performance**

Since the Comprehensive Cardiac Care Program was initiated in 2010, 1330 STEMI patients have been treated. In all categories of patients, our STEMI system has exceeded the 2013 published goals of the American College of Cardiology (ACC) and American Heart Association (AHA). Since 2015, the Santa Barbara County EMS System has received the AHA’s Mission Lifeline Gold Award, most recently winning the Gold Plus award for the 2018 calendar year.

- 681 patients were identified by paramedics as having a STEMI and were transported directly to an SRC. The median time to reopen the artery (“Door-to-Balloon Time”) in 2018 was 52 minutes. The ACC/AHA goal for this interval is 90 minutes.
- 649 patients arrived to an SRC by means other than ambulance. The Door-to-Balloon Time in 2018 for these patients was 77 minutes. The ACC/AHA goal is 90 minutes.

- 290 patients first presented to one of 3 STEMI Referral Hospitals in the County (Lompoc Valley Medical Center, Santa Ynez Valley Cottage Hospital or Goleta Valley Cottage Hospital) and were transferred by ambulance to an STEMI Receiving Center. The median Door-to-Balloon Time in 2018 was 102 minutes. The ACC/AHA goal is 120 minutes.

Santa Barbara Cottage Hospital and Marian Regional Medical Center continue to function under STEMI Receiving Center Designation Agreements. Both centers have agreed to provide funding annually to the EMS Agency to provide for the administration and regulatory oversight of the STEMI program. Each of the centers currently meets all necessary requirements to maintain designation as STEMI Receiving Centers. These Amendments will extend the term dates through December 31, 2019, and increase the Agreement amount by \$14,557 for the additional six month term to cover the costs of the EMS program oversight.

**Fiscal and Facilities Impacts:**

Budgeted: Yes

**Fiscal Analysis:**

Under the proposed amendments, Santa Barbara Cottage Hospital and Marian Regional Medical Center agree to pay the County \$14,557 each for a total of \$29,114, for the additional six month term through FY 2019-20 for covering the costs of maintaining the STEMI program. This amount was included in the Public Health Department FY 2019-20 Recommended budget. There is no increase in the use of the County's General Fund resources as a result of executing these two Amendments.

**Key Contract Risks:**

N/A

**Staffing Impacts:**

**Legal Positions:**

0

**FTEs:**

0

This will not result in any additional need for facilities.

**Special Instructions:**

Please execute two (2) original Amendments with Marian Regional Medical Center and two (2) original Amendments with Santa Barbara Cottage Hospital and retain one (1) original Agreement and one (1) Minute Order for pick up by the department. Please email the PHD Contracts Unit at [phdcu@sbcphd.org](mailto:phdcu@sbcphd.org) when available for pick up.

**Attachments:**

- A. EMS STEMI Fourth Amendment with Marian Regional Medical Center
- B. EMS STEMI Third Amendment with Marian Regional Medical Center
- C. EMS STEMI Second Amendment with Marian Regional Medical Center
- D. EMS STEMI First Amendment with Marian Regional Medical Center
- E. EMS STEMI Agreement with Marian Regional Medical Center
- F. EMS STEMI Fourth Amendment with Santa Barbara Cottage Hospital
- G. EMS STEMI Third Amendment with Santa Barbara Cottage Hospital
- H. EMS STEMI Second Amendment with Santa Barbara Cottage Hospital
- I. EMS STEMI First Amendment with Santa Barbara Cottage Hospital

J. EMS STEMI Agreement with Santa Barbara Cottage Hospital

**Authored by:**

Nicholas Clay, Emergency Medical Services Director