



# STEMI

## **Critical Care System Plan 2023 Annual Update**

*Prepared By:*

Sacramento County  
Department of Health Services  
Division of Public Health  
Emergency Medical Services Agency

**SACRAMENTO COUNTY  
STEMI CRITICAL CARE SYSTEM PLAN  
2023 ANNUAL UPDATE  
April 1, 2024**

In accordance with the State of California Code of Regulations, Title 22, Division 9, Chapter 7.1, Sacramento County submits this ST Elevation Myocardial Infarction (STEMI) Critical Care System Plan Update.

**STEMI Critical Care System Plan**

The STEMI Care Committee reviews and evaluates prehospital and hospital care reports of patients who suffered a life-threatening, acute heart attack. Committee participants include representatives in public and private Advanced Life Support (ALS) transportation, nurses, physicians, and other disciplines. The STEMI Care Committee identifies, through case and data review, areas needing improvement, implements process improvement and training/education, and recognizes excellence in performance and care delivery.

**2023 Overview**

Sacramento County Emergency Medical Services Agency (SCEMSA) continues to improve the quality and accuracy of data reporting to improve STEMI care provided at Sacramento County STEMI-receiving hospitals. SCEMSA also continues to monitor documentation compliance and trend improvements via quality improvement audits and documentation dashboards for overall system monitoring.

Sacramento County providers transported 128,454 patients to the emergency room in 2023, of which 579 were documented in prehospital patient care records as having a primary impression of STEMI. Of those 579, over 89% had a “STEMI Alert” to a Sacramento County designated STEMI-receiving Center. Furthermore, 56% of the STEMI-alerted patients were documented as having an Electrocardiogram (ECG) negative for STEMI, while only approximately 44% had an ECG positive for STEMI (Figure 2).

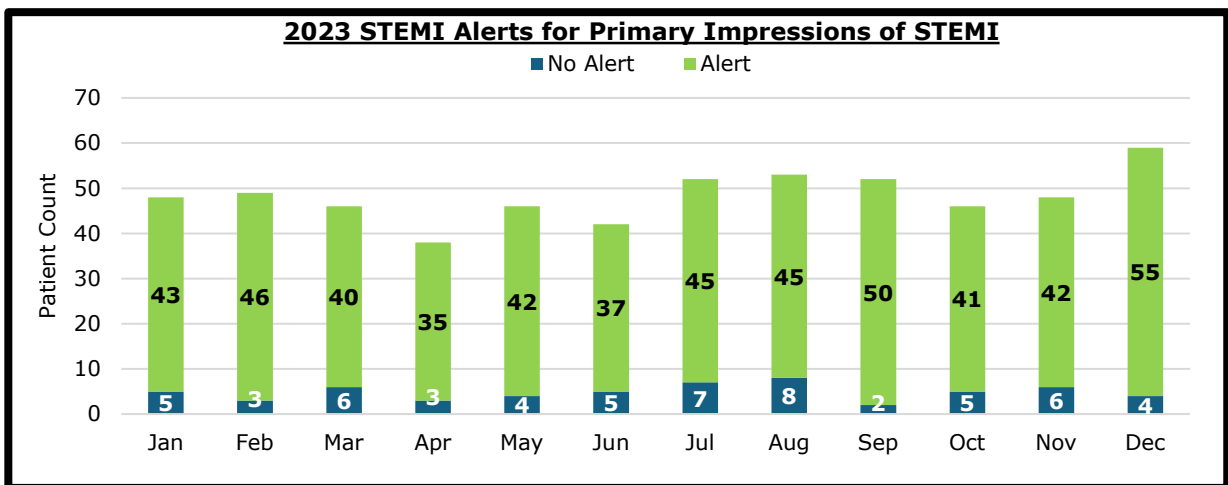


Figure 1

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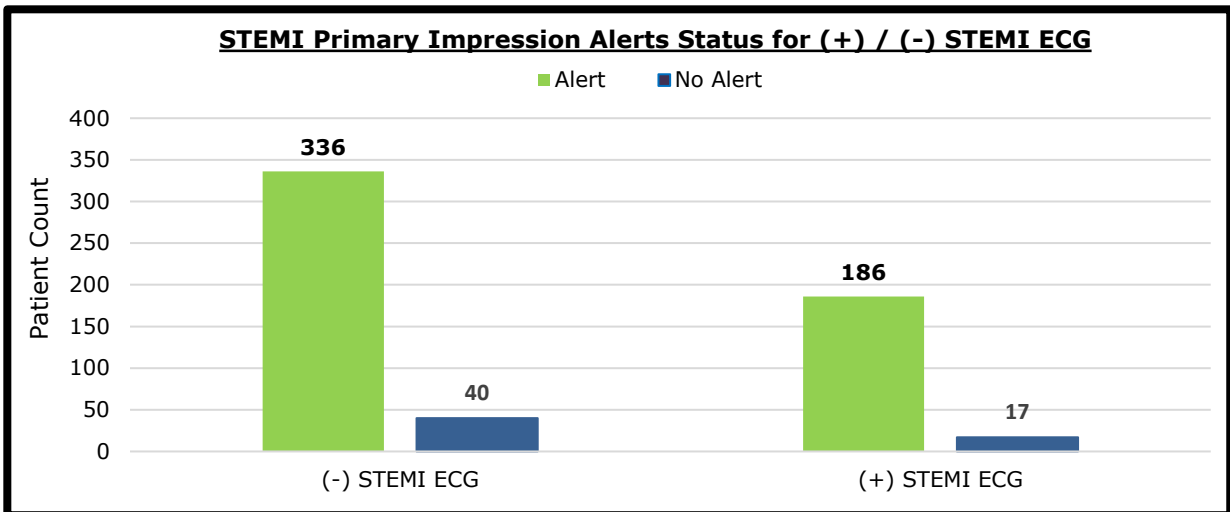


Figure 2

**2023 Update**

SCEMSA operates an established STEMI Critical Care System through executed contracts with seven (7) hospitals, five (5) within Sacramento County, and two (2) within the City of Roseville. The seven (7) hospitals are either designated by the Seirra-Sacramento Valley EMS Agency or are Joint Commission (TJC) accredited.

The STEMI Care Committee is a multi-stakeholder group that advises the SCEMSA Medical Director and Medical/Operational Advisory Committee to improve communication, review performance data, and identify areas for improvement. SCEMSA continues expanding its collaboration with emergency medical services (EMS) providers and STEMI-receiving hospitals by reviewing and analyzing patient care data to effect system changes that improve patient care and STEMI incident outcomes in Sacramento. In 2023, the committee focused on improving data reporting, specifically first medical contact to 12-lead, location of intravenous line (IV) starts, and standardizing hospital and EMS data.

Currently, STEMI Centers report data into American Heart Association (AHA) Get with the Guidelines - Coronary Artery Disease (GWTG-CAD) as per TJC requirements. During 2023, SCEMSA worked with the ImageTrend Patient Registry to utilize this as our data repository. Starting in 2024, STEMI Centers will be responsible for uploading data reports from GWTG into the ImageTrend Patient Registry for SCEMSA to access. While the upload process is currently being tested, we foresee hospitals successfully uploading all 2024 data into the ImageTrend Patient Registry. This data repository transition will allow SCEMSA to hold all hospital data (STEMI, Stroke, and Trauma) in one repository, ImageTrend Patient Registry, and all EMS data in a related repository, ImageTrend Elite. This will allow us to better connect patient records and look at patient care in its entirety.