



STEMI

Critical Care System Plan 2021 Annual Update

Prepared By:

Sacramento County

Department of Health Services

Emergency Medical Services Agency

**SACRAMENTO COUNTY
STEMI CRITICAL CARE SYSTEM PLAN
2021 ANNUAL UPDATE
March 15, 2022**

In accordance with 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 that 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 delivery of care.

2021 Overview

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

Sacramento County providers transported 132,715 patients in 2021, of which, 754 were documented in prehospital patient care records as requiring a “STEMI Alert” to a Sacramento County designated STEMI-receiving Center. Of these alerts, over 82% were accompanied by a prehospital ECG indicated the presence of an ST-elevation MI (Figure 1). Furthermore, only 85% of patients with an ECG positive for STEMI had a documented primary impression of chest pain, reinforcing the need for 12-lead assessment in patients with non-classic symptom presentation (Figure 2).

Ultimately, early identification of STEMI as confirmed by 12-lead ECG continues to be the gold-standard when directing patients to facilities capable of interventional cardiac catheterization, facilitating the rapid delivery of cardiac specialty care.

**SACRAMENTO COUNTY
STEMI CRITICAL CARE SYSTEM PLAN
2021 ANNUAL UPDATE
March 15, 2022**

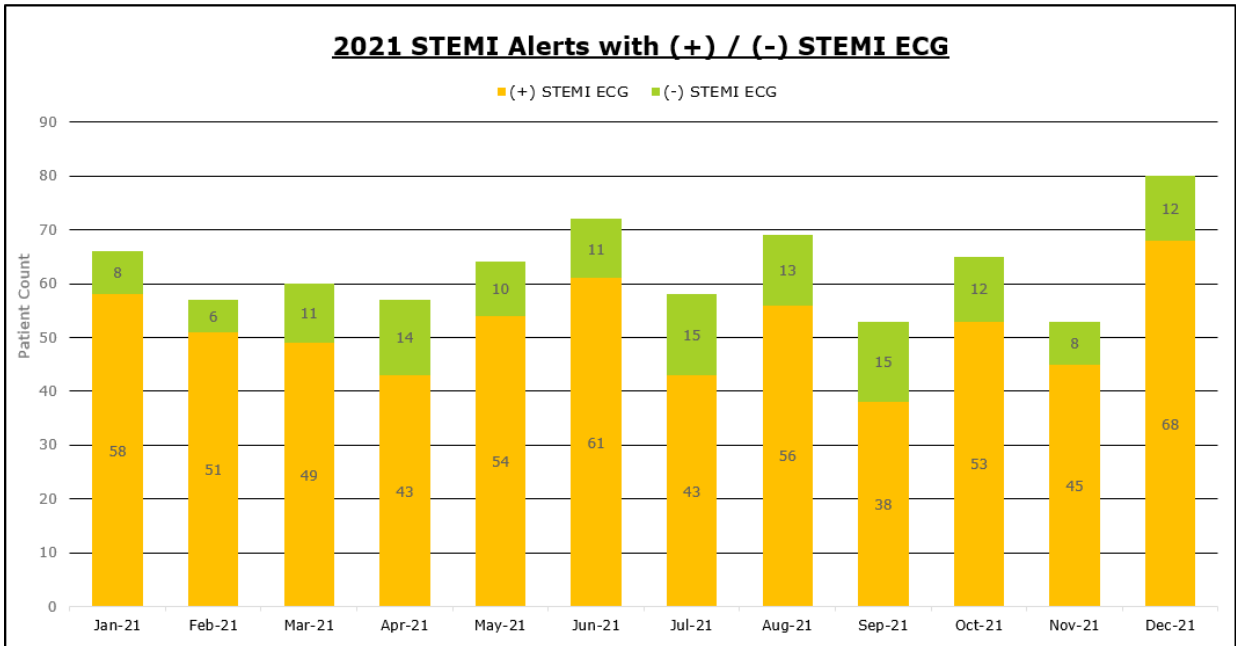


Figure 1

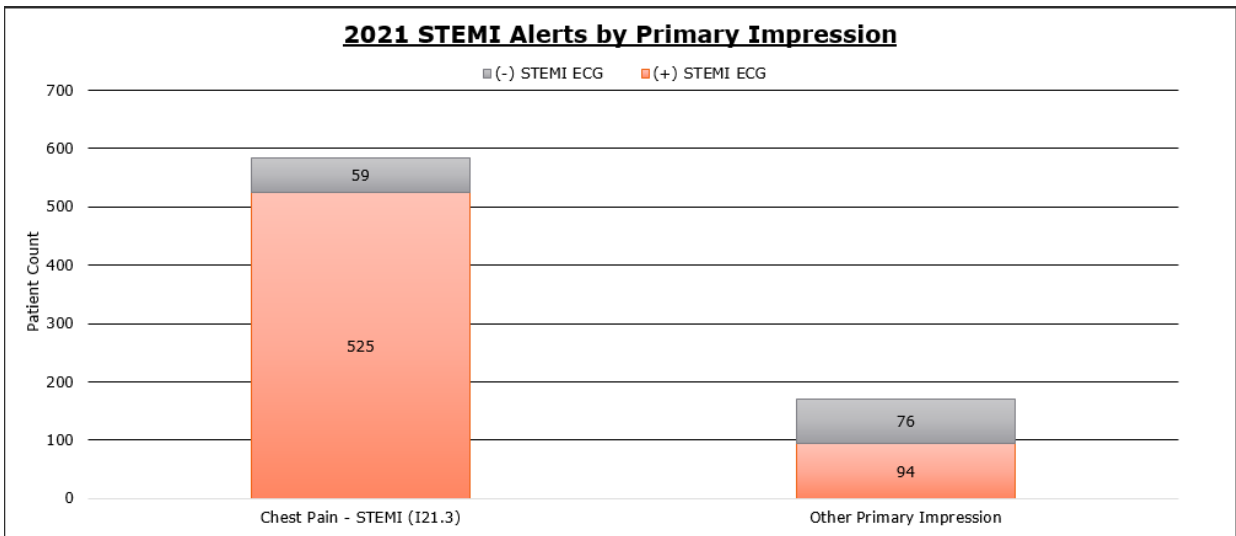


Figure 2

2021 Update

The STEMI Care Committee is the multi-stakeholder group which advises the SCEMSA Medical Director and Medical/Operational Advisory Committees to improve communication, review performance data and identify areas in need of improvement. It provides active feedback and offers potential quality improvement initiatives within our STEMI critical care system.

SCEMSA operates an established STEMI Critical Care System through executed contracts with seven (7) hospitals, five (5) within Sacramento County, and two

**SACRAMENTO COUNTY
STEMI CRITICAL CARE SYSTEM PLAN
2021 ANNUAL UPDATE
March 15, 2022**

(2) within the City of Roseville.

In March 2021, based on input received from the STEMI Care Committee, SCEMSA revised Policy Document (PD) 2526.03 "STEMI Center Designation" by modifying the existing policy language to, (a) more closely align with standard terminology used by the Joint Commission and, (b) incorporate the American Heart Association's "Get With the Guidelines - Coronary Artery Disease" platform as the County's approved STEMI data registry. Additionally, the committee reviewed and approved SCEMSA PD 6001.02 "STEMI Critical Care System General Provisions" without changes.

SCEMSA continues expanding its collaboration with EMS providers and STEMI-receiving hospitals through review and analysis of patient care data to effect system changes which improve patient care and stroke incident outcomes in Sacramento. This includes expanding SCEMSA access to hospital data via the American Heart Association "Get With the Guidelines" data registry. This data integration was completed in early 2022, and more robust reporting is expected on this topic in the next plan reporting cycle.

SCEMSA continues expanding its collaboration with EMS providers and STEMI receiving hospitals through review and analysis of patient care data to effect system changes which improve patient care and cardiac incident outcomes in Sacramento. More robust reporting is expected on this topic in 2022.

Annex 1

**2020 STEMI
CRITICAL CARE
SYSTEM PLAN
UPDATE:
APPROVAL LETTER**

EMERGENCY MEDICAL SERVICES AUTHORITY

10901 GOLD CENTER DR., SUITE 400
RANCHO CORDOVA, CA 95670
(916) 322-4336 FAX (916) 322-1441



September 15, 2021

Mr. Dave Magnino, EMS Administrator
Sacramento County Emergency Medical Services Agency
9616 Micron Avenue, Suite 960
Sacramento, CA 95827

Dear Mr. Magnino:

This letter is in response to Sacramento County's 2020 emergency medical services (EMS) plan, and the St-Elevation Myocardial Infarction (STEMI), Stroke, Trauma, and Quality Improvement (QI) plan submissions to the EMS Authority on July 2, 2021.

The EMS Authority has reviewed the EMS plan, based on compliance with statutes, regulations, and case law. It has been determined the plan meets all EMS system components identified in Health and Safety Code (HSC) § 1797.103 and is approved for implementation pursuant to HSC § 1797.105(b). Based on transportation documentation provided, the EMS Authority has noted your Emergency Ambulance Zone as Non-Exclusive and has enclosed for reference.

The EMS Authority has also reviewed the STEMI, Stroke, Trauma, and QI plans, based on compliance with Chapters 7, 7.1, 7.2, and 12 of California Code of Regulations, Title 22, Division 9, and has approved for implementation.

In accordance with HSC § 1797.254, please submit an annual EMS plan to the EMS Authority on or before September 14, 2022. Please also submit an annual STEMI, Stroke, Trauma, and QI plan concurrently with the EMS plan. If you have any questions regarding the EMS Plan review, please contact Ms. Lisa Galindo, EMS Plans Coordinator, at (916) 431-3688.

Sincerely,

Tom McGinnis, EMT-P
Chief, EMS Systems Division

Enclosure

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