

Regional Systems of Care Demonstration Project: Mission: Lifeline STEMI Accelerator

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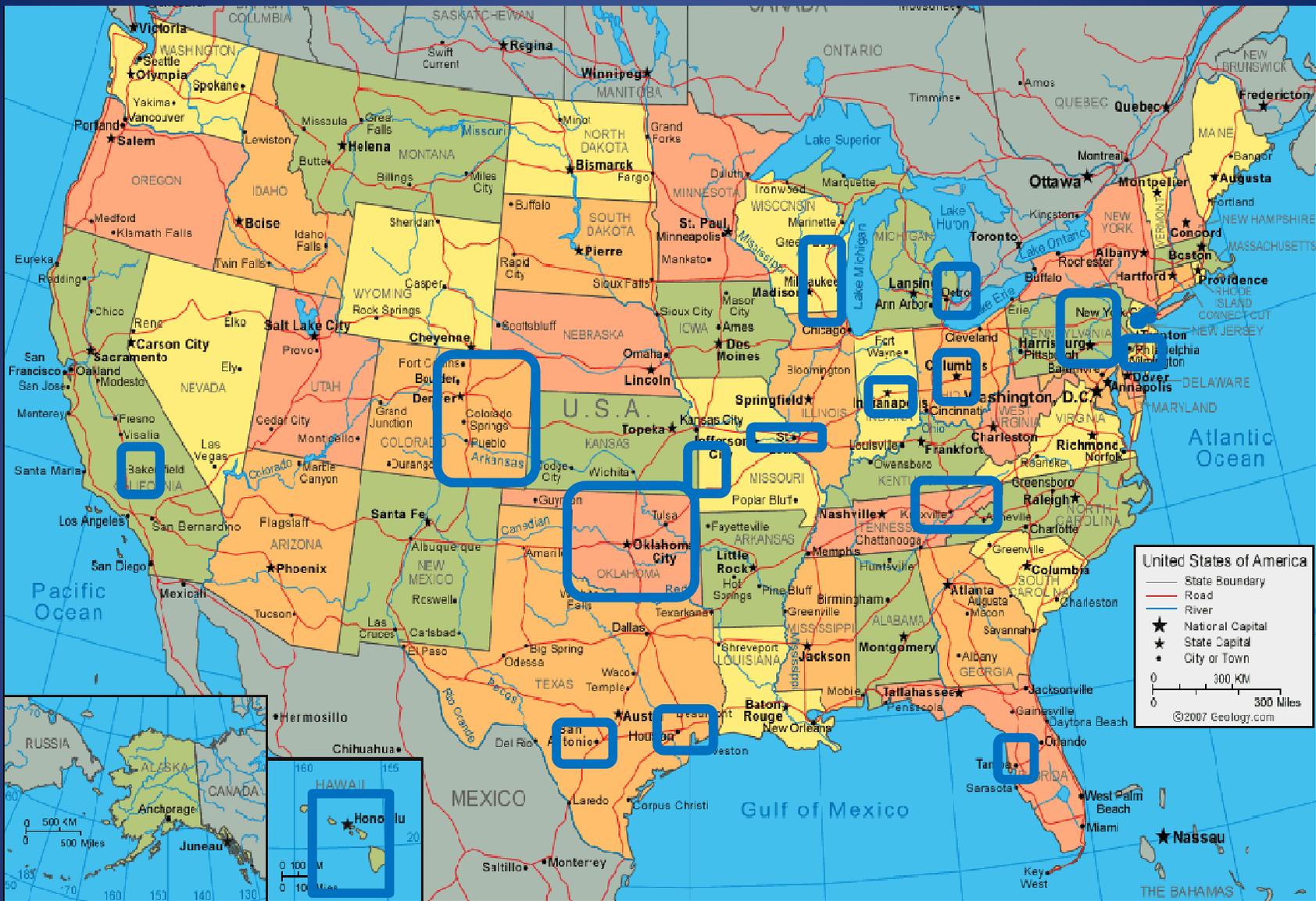
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STEMI ACCELERATOR Sites

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STEMI SYSTEMS ACCELERATOR Project

- Using national level system faculty and local AHA staff to broker competitive entities to regionalize STEMI care for a community.
- Regional Educational Event Day
 - CME/CNE event
 - Fall 2012
- Faculty follow up visit ~ December 2012/January 2013
- Centralized database- Recruit all hospitals to join NCDR Action Registry GWTG to facilitate baseline data collection (hospital discharges July 1- Sept. 30, 2012, quarterly for 1 year and then post program data collection (hospital discharged fourth quarter 2013).

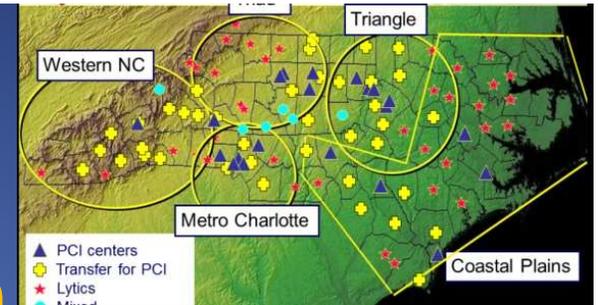


STEMI SYSTEMS ACCELERATOR Project

- Presentation of findings at regional and national meetings and in publication -Spring 2014.
- Voluntary.
- Quarterly meetings to share best practices, data review across the region and identify strategies to improve process
- Project does not change referral lines.
- Augments existing systems – success based on regional local leadership owning the program and entirely in charge of system.



Regional System



A system that includes all hospitals within a region, establishes common hospital and EMS protocols, and shares common data



Elements of an Ideal System

- Leadership
- Funding
- Neutral Coordinator/Coordination
- **DATA, DATA, DATA**
- Feedback
- Single common plan



Data Solutions

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Data

Participation in Regional STEMI Reports

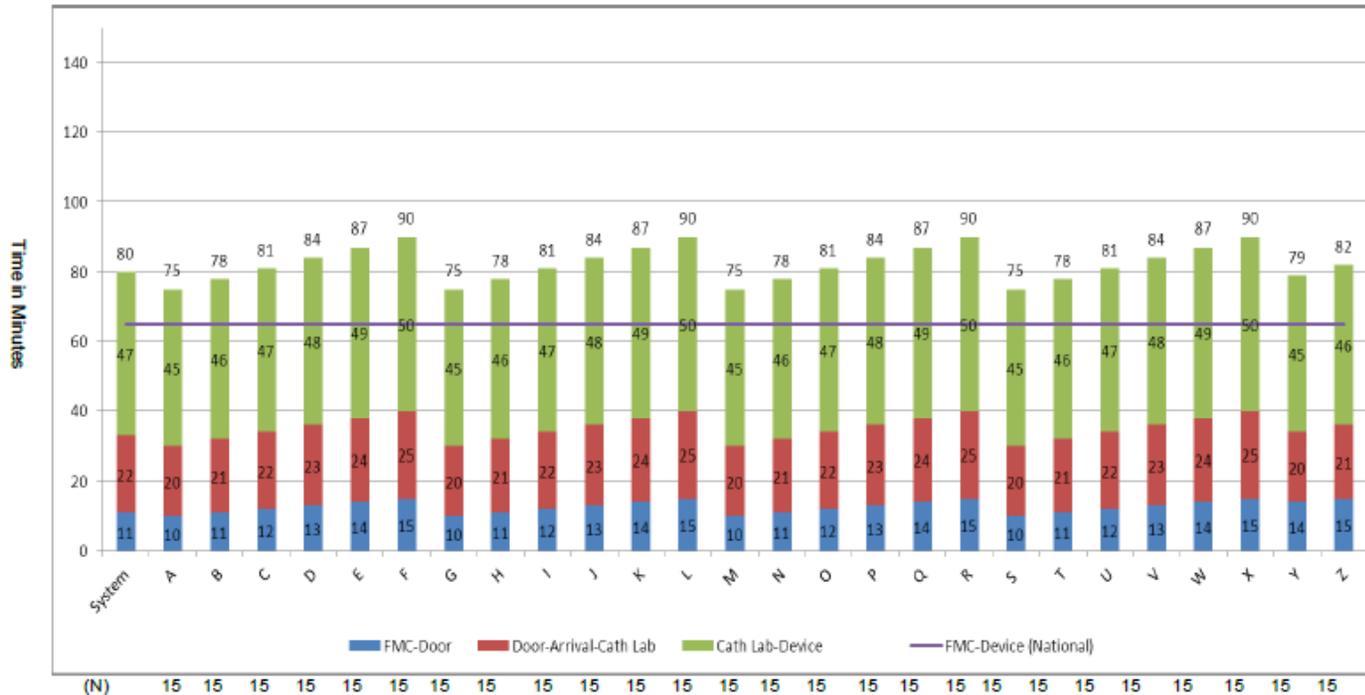
1. Regional PCI hospitals enroll in NCDR ACTION-GWTG Registry
2. PCI hospitals sign up with Mission: Lifeline
3. PCI hospitals complete
 - ML System DCRF
 - Accelerator Project DCRF



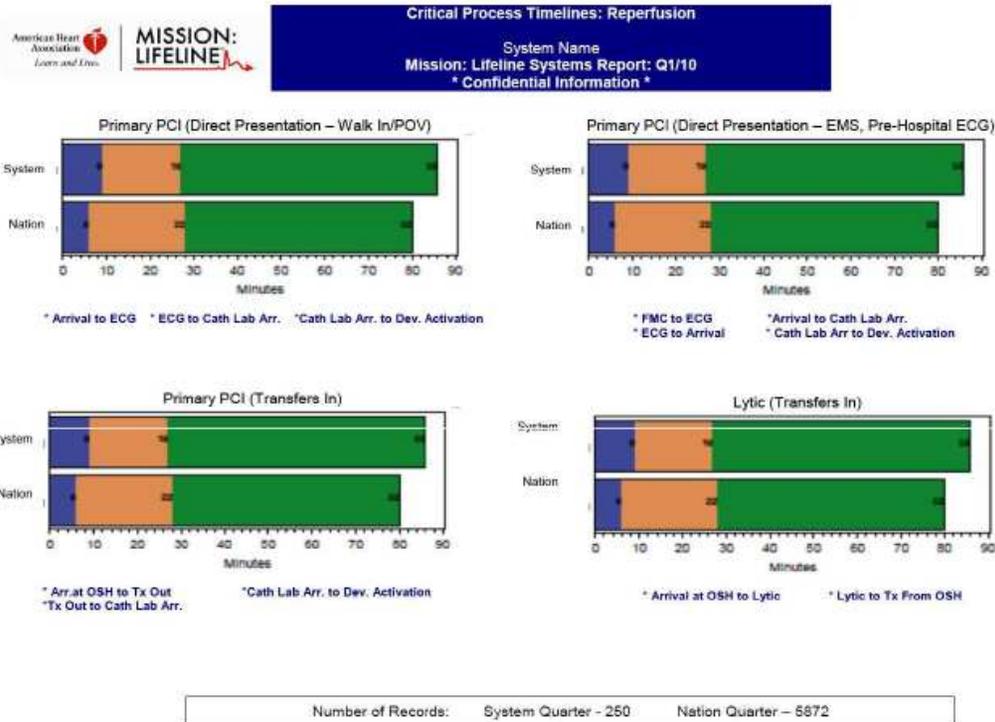
Sample Page From Mission: Lifeline SYSTEM Report- Draft Only



System Name: Q1/10
FMC to Device Activation (minutes)
Direct Presentation, Arriving via EMS



Sample Page From Mission: Lifeline SYSTEM Report- Draft Only



Sample Page From Mission: Lifeline SYSTEM Report- Draft Only

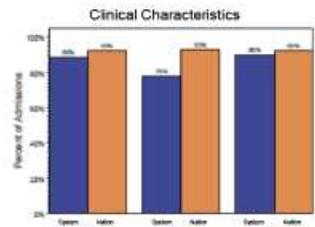


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System Name
Mission: Lifeline Systems Report: Q1/10

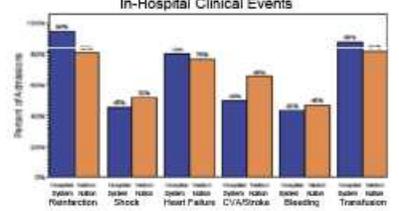
Clinical Characteristics and In-Hospital Patient Outcomes
* Confidential Information *

	System		State ¹	Nation ²
	Prev Qrt	Prev 12 Mo		
Clinical Characteristics				
History of Diabetes	32%	31%	31%	30%
Cardiogenic Shock on Presentation	44%	39%	44%	49%
Heart Failure on Presentation	44%	39%	44%	49%
Risk-adjusted In-hospital Mortality³				
Overall	-	7%	9%	-
Lower 95% confidence limit	-	4%	2%	-
Upper 95% confidence limit	-	10%	10%	-
In-hospital Clinical Events⁴				
Reinfarction	24%	25%	16%	27%
Cardiogenic Shock	24%	25%	16%	27%
Heart Failure	32%	31%	31%	30%
CVA/Stroke	24%	25%	16%	27%
Hemorrhagic Stroke	10%	10%	10%	9%
Suspected Bleeding Event	24%	25%	16%	27%
RBC/Whole Blood Cell Transfusion	24%	25%	16%	27%
Any of above events	24%	25%	16%	27%
Median Length of Stay (days)⁴	3.0	3.0	3.0	3.0



Clinical Characteristics

Bar chart showing the percentage of admissions for Diabetes, Shock, and Heart Failure, comparing System, State, and Nation data.



In-Hospital Clinical Events

Bar chart showing the percentage of admissions for Reinfarction, Shock, Heart Failure, CVA/Stroke, Bleeding, and RBC/Whole Blood Cell Transfusion, comparing System, State, and Nation data.

FOOTNOTES:

¹ Among all hospitals in system's state. Eligible states must have at least 6 hospitals

² Among all hospitals in ACTION Registry-GWTG.

³ Excluding transfers out.

⁴ Excluding transfers in and transfers out.

Objectives

- Establish a regional standard of emergency cardiovascular care that includes every hospital and EMS agency.
- Lower cardiovascular mortality by broadly improving the timely treatment of ST elevation myocardial infarction (STEMI) patients.
- Create a sustainable system for treating cardiovascular emergencies including STEMI, cardiac arrest, stroke and aortic dissection.



Regional Systems of Care Resource Manual

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REGIONAL SYSTEMS OF CARE DEMONSTRATION PROJECT: MISSION: LIFELINE™ STEMI SYSTEMS ACCELERATOR

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Duke University

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STEMI System of Care Map

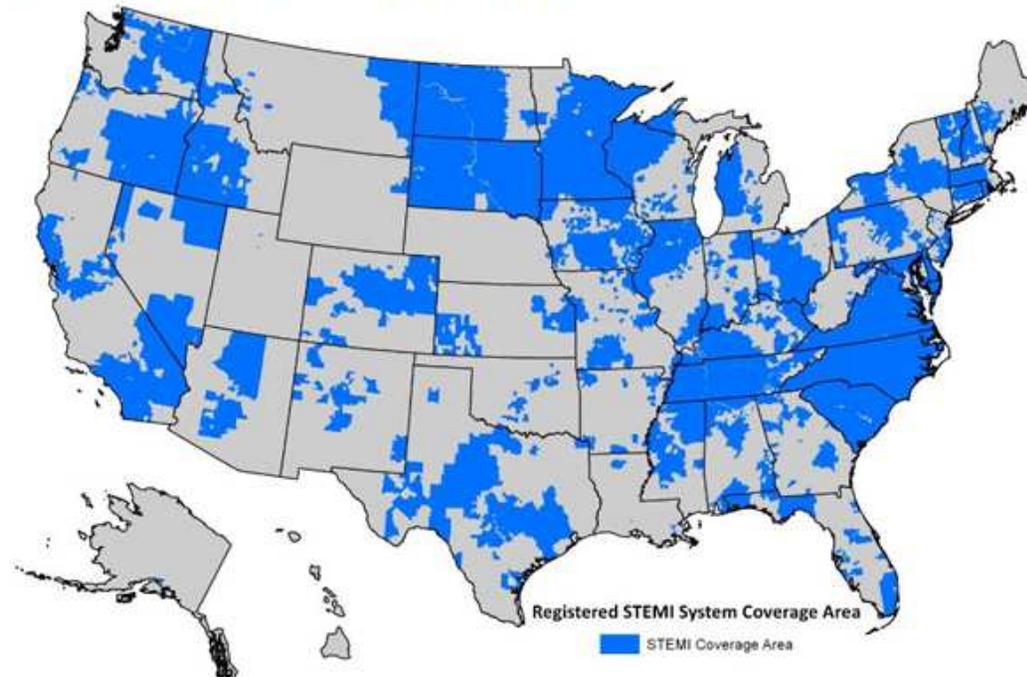


Locate Mission: Lifeline[®] systems of care.

The interactive mapping tool linked below shows the areas of the United States currently served by STEMI and cardiac systems registered with Mission: Lifeline[®]. To view a specific system of care, click on the appropriate state from the drop-down list below. Your search can be further refined by county. Then choose from the list of systems for that area.

[Mission: Lifeline systems of care mapping tool](#)

Current Mission: Lifeline STEMI systems of care coverage area (4/15/2012):



AHA Mission: Lifeline Homepage

americanheart.org/missionlifeline



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Regional STEMI System of Care Challenges and Best Practices



- **HOTRAC STEMI System of Care** scheduled to present at the November **GETAC Cardiac Care Committee** meeting.

2011 ACCF/AHA/SCAI Guideline for Percutaneous Coronary Intervention

A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines and the Society for Cardiovascular Angiography and Interventions

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PCI in Specific Clinical Situations: STEMI– Primary PCI of the Infarct Artery



Primary PCI should be performed in patients with STEMI presenting to a hospital with PCI capability ***within 90 minutes of first medical contact*** as a systems goal.



Primary PCI should be performed in patients with STEMI presenting to a hospital without PCI capability ***within 120 minutes of first medical contact*** as a systems goal.