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

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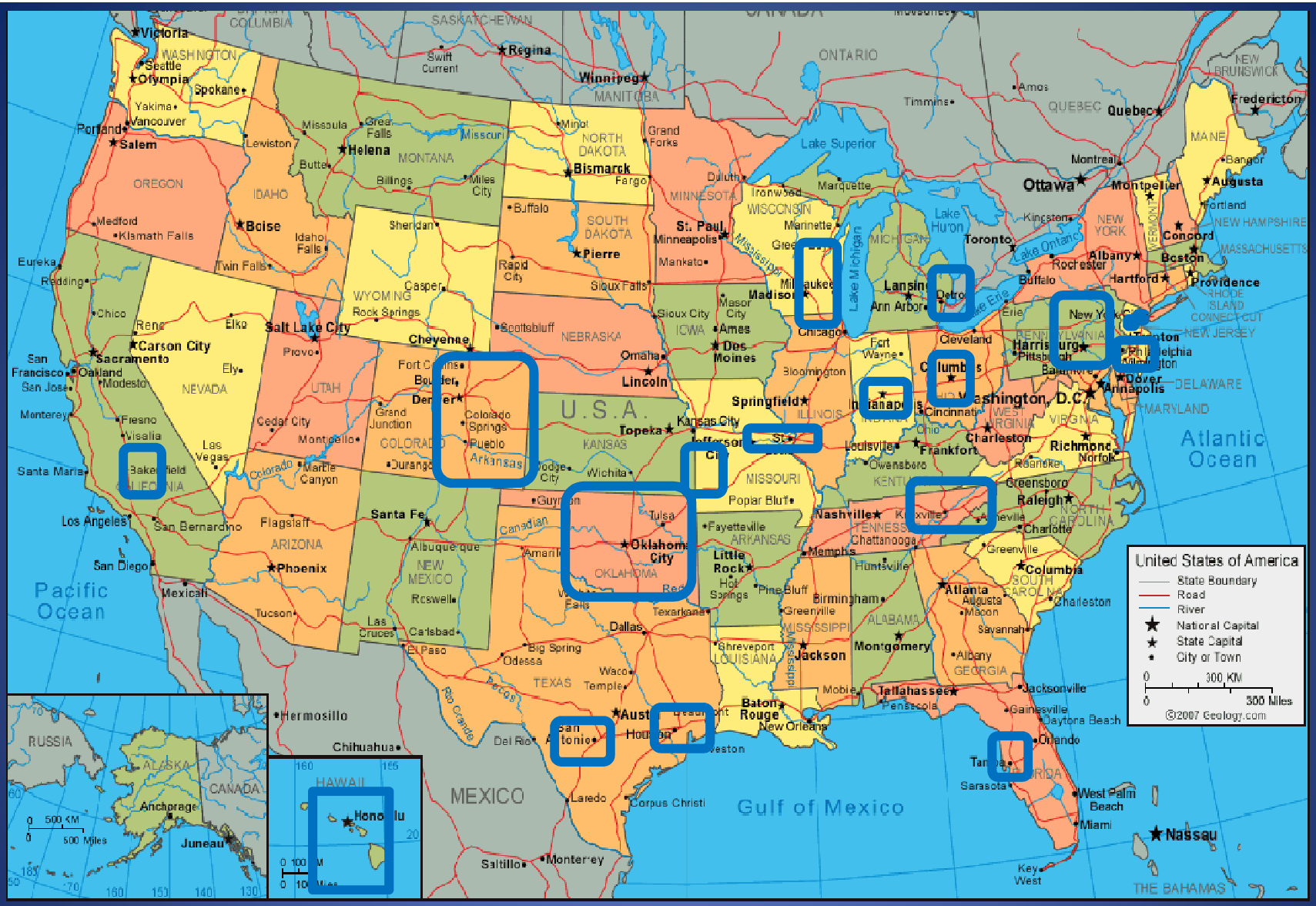

STEMI ACCELELERATOR Sites

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MISSION: LIFELINE®

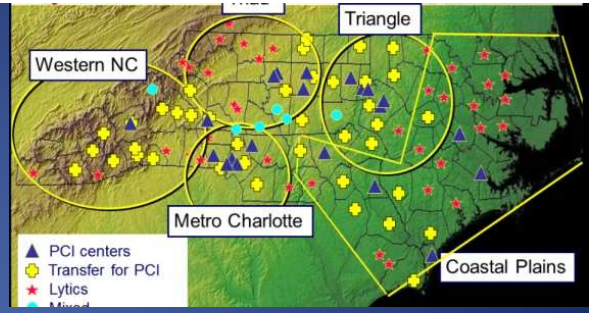
STEMI SYSTEMS ACCELERATOR Project

- 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 charg**e 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

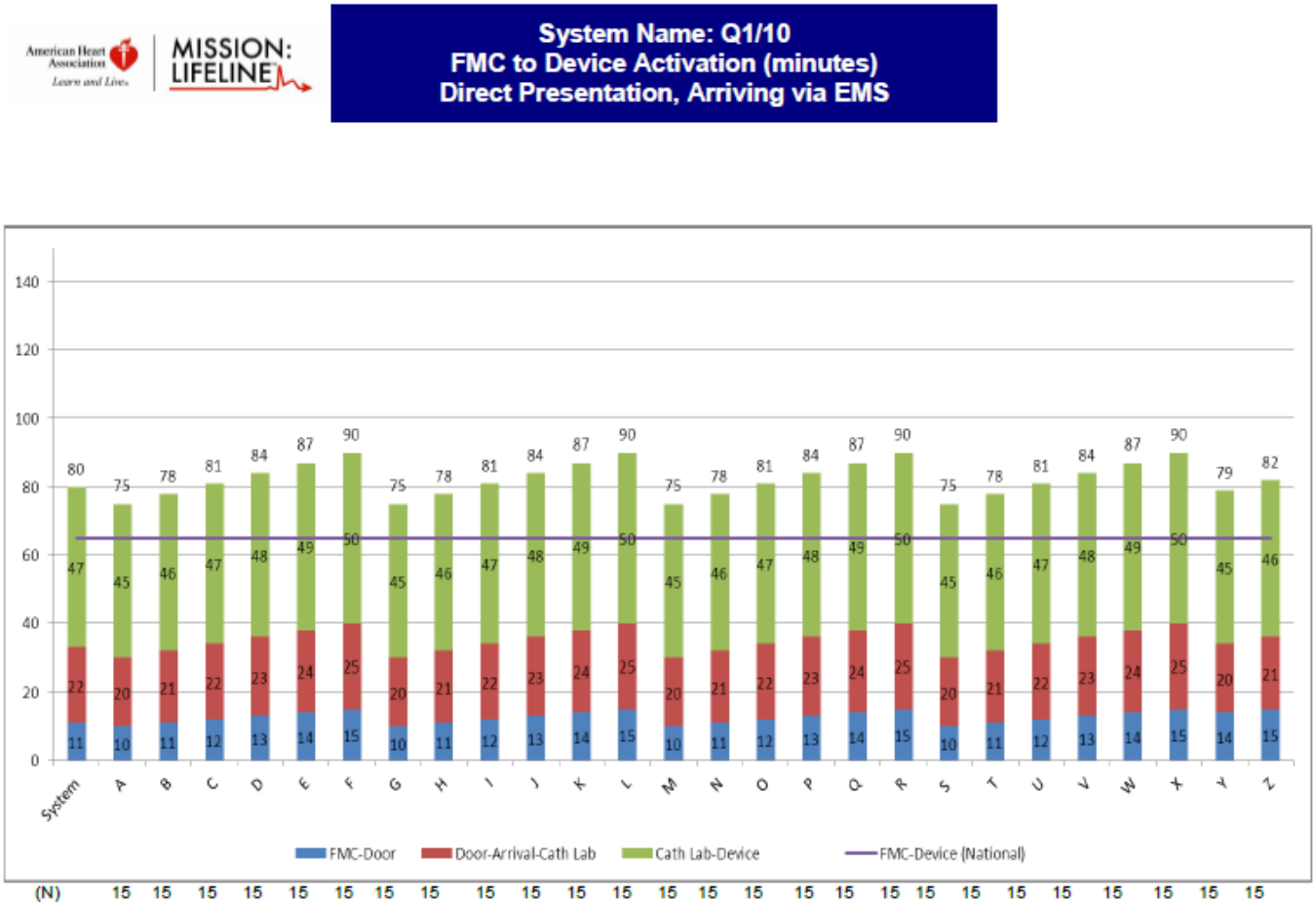
Data Solutions

Data

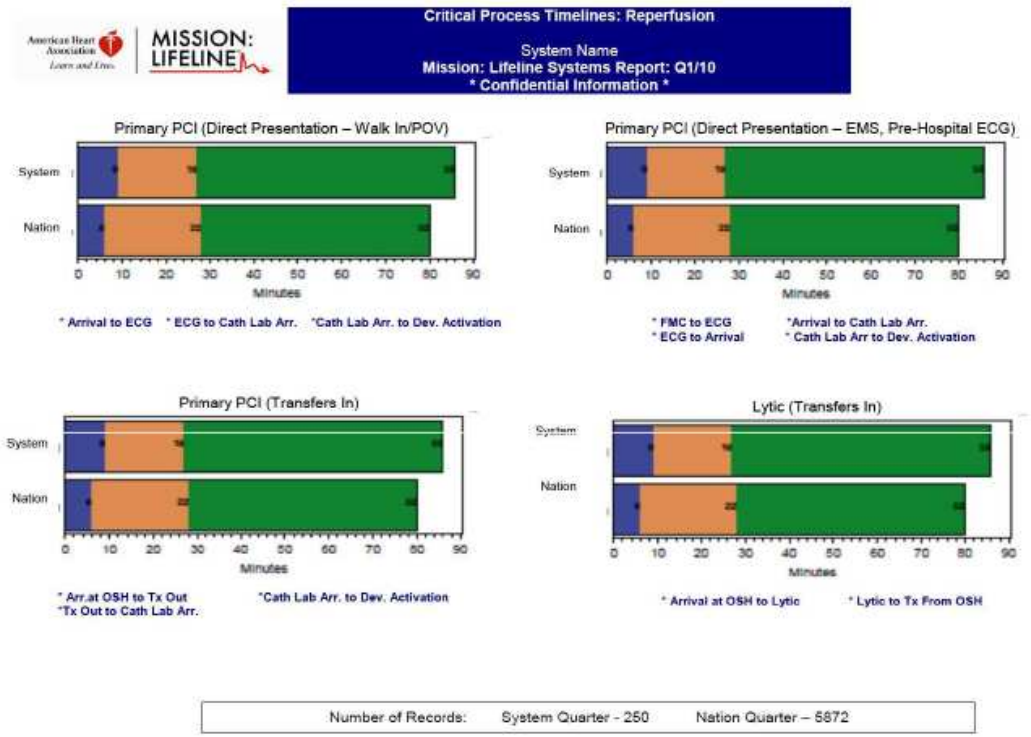
Participation in Regional STEMI Reports

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



Sample Page From Mission: Lifeline SYSTEM Report- Draft Only



Sample Page From Mission: Lifeline SYSTEM Report- Draft Only

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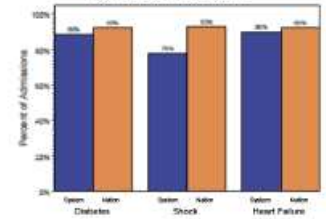
System Name
Mission: Lifeline Systems Report: Q1/10

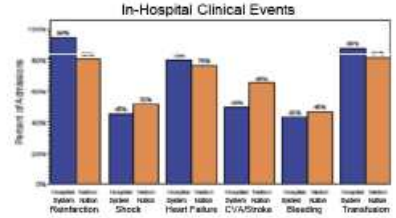
Clinical Characteristics and In-Hospital Patient Outcomes
*** Confidential Information ***

	System		State[1]	Nation[2]
	Prev Qrt	Prev 12 Mn		
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 Mortality[3]				
Overall	-	7%	9%	-
Lower 95% confidence limit	-	4%	2%	-
Upper 95% confidence limit	-	10%	10%	-
In-hospital Clinical Events[3]				
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



In-Hospital Clinical Events



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.

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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

American Heart Association | MISSION: LIFELINE

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

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Duke University

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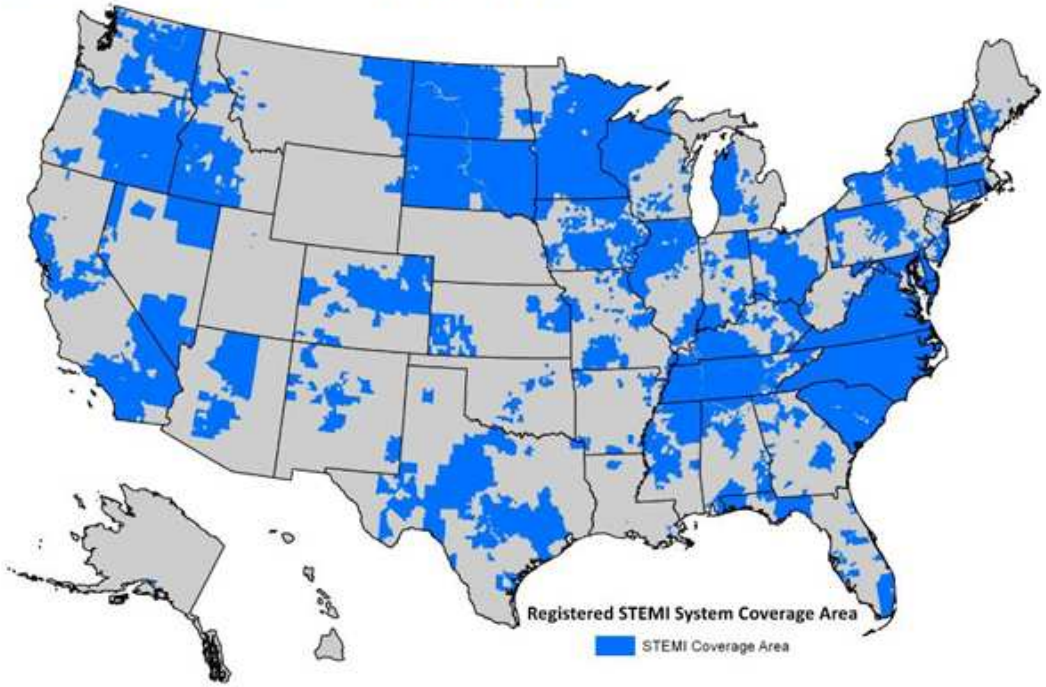
STEMI System of Care Map

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):



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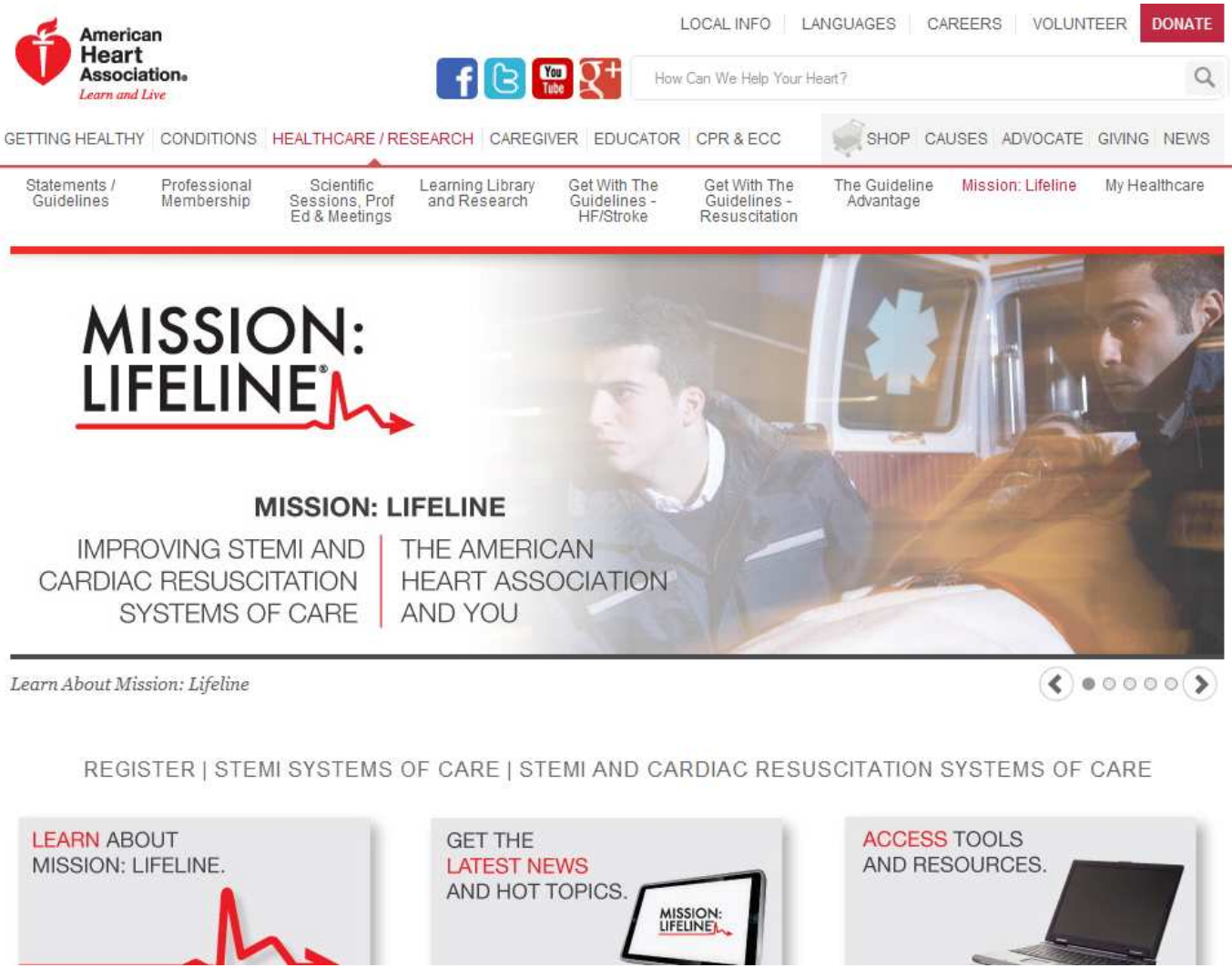
AHA Mission: Lifeline Homepage

americanheart.org/missionlifeline



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.**

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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 <u>with PCI capability</u>

within 90 minutes of first medical contact

as a systems goal.

Primary PCI should be performed in patients with STEMI presenting to a hospital <u>without PCI capability</u>

within 120 minutes of first medical contact

as a systems goal.

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