By 2020, **improve the cardiovascular health**
of all Americans by **20%** while reducing
deaths from cardiovascular diseases and
stroke by **20%**.
Examples of what AHA is doing to reach the 2020 Goal:

Health Behaviors
- Teaching Gardens
- Sodium Campaign

Health Factors
- THE GUIDELINE ADVANTAGE
- Heart360 Cardiovascular Wellness Center

Acute Event & Mortality
- GET WITH THE GUIDELINES
- MISSION: LIFELINE
- CPR & First Aid

By 2020,
Improve the cardiovascular health of all Americans by 20% while reducing deaths from cardiovascular diseases and stroke by 20%.
Mission: Lifeline’s Impact

Rationale

Lives will be saved if we improve cardiac systems of care to ensure patients are identified, triaged and treated appropriately, from calling 911 through hospital discharge.

Annual Goal

Increase percentage of population covered by STEMI and Cardiac Resuscitation system of care.

2014 Target

80% of population covered by a STEMI and Cardiac Resuscitation system of care.

Action Strategy

Enhance systems of care to better prevent and treat cardiovascular disease and stroke.

Action Goal

Increase percentage of people who survive an acute event or procedure and experience optimal treatment of acute events to minimize CVD/stroke damage, prevent subsequent events and minimize disability.
Mission: Lifeline is the American Heart Association’s national initiative to advance the systems of care for patients with ST-segment elevation myocardial infarction (STEMI) and those resuscitated after experiencing an Out-of-Hospital Cardiac Arrest. The overarching goal of the initiative is to reduce mortality and morbidity for STEMI and Out of Hospital Cardiac Arrest patients and to improve their overall quality of care.
STEMI SYSTEMS OF CARE
By working together, we can remove the barriers that stand between STEMI patients and prompt, appropriate care.

STEMI AND CARDIAC RESUSCITATION SYSTEMS OF CARE
The national survival rate for out-of-hospital cardiac arrest patients is only 11.4 percent. You can help change that.
Mission: Lifeline Cardiac Resuscitation Systems of Care

- 300,000 Out-of-Hospital cardiac arrests occur annually
- Less than 25% receive bystander CPR
- 50% of cardiac arrest victims have STEMI
- Out-of-Hospital cardiac arrest has a survival rate of 11.4%
- At least a 5 fold regional variation in the median survival to hospital discharge after OOHCA

- Systematic and Collaboration approach to Out-of-Hospital cardiac arrest patients
- Supported by AHA Science and in Circulations
- Community is a added and vital participant
- CPR instruction and administration are most important factors to system success

Two steps to save a life:

1. Call 911
2. Push hard and fast in the center of the chest.

Hands-Only™ CPR
The initiative values:

- Patient-centered care as the #1 priority
- High-quality care that is safe, effective and timely
- Stakeholder consensus
- Increased operational efficiencies
- Appropriate incentives for quality
- Measureable patient outcomes
- An evaluation mechanism
- A role for local community hospitals
- A reduction in disparities of healthcare delivery
M:L STEMI and Cardiac Resuscitation Tools

- Point of Entry Protocol
- Ideal Strategies
  - Community
  - Patient
  - EMS
  - Referral Center
  - Receiving Center
  - System
- Barriers And Solutions
- AHA Circulation Papers
- Mission: Lifeline Brochure
  - STEMI Systems of Care
  - Cardiac Resuscitation Systems of Care
- Mission: Lifeline Website
Mission: Lifeline Resources

**AHA MISSION: LIFELINE WEB SITE**
- Most current forms
- Historical Information
- M:L Online Registration
- Link to M:L Social Community
- M:L System of Care Tools – STEMI and Cardiac Resuscitation
- Access to Circulations

**AHA LOCAL QUALITY AND SYSTEMS IMPROVEMENT STAFF**
- Gary Myers, Mission: Lifeline Director
- Pam Moe, QSI Director for Get With The Guidelines and ACTION Registry®-GWTG™
- Kathleen O’Neill, RVP Quality and Systems Improvement

**OTHER WEB SITES**
- NCDR Website
- Sustain the Gain
- Society of Cardiovascular Patient Care
- Heart.org
- Facebook
- Twitter
Mission: Lifeline Involvement

**PARTICIPATION**
- ML Hospital Registration
- ML System Registration
- Memorandum of Understanding
- Mission: Lifeline Social Community
- Quality Improvement/Data Analysis
- Mission: Lifeline Rep...
Locate Systems of Care
Locate Systems of Care

Mission: Lifeline systems of care mapping tool

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

**PARTICIPATION**

Mission: Lifeline Hospital Registration
Mission: Lifeline System Registration
Memorandum of Understanding
Quality Improvement/Data Analysis
Mission: Lifeline Reports

Submit Data via ACTION Registry®-GWTG™
Mission: Lifeline Accreditation - a partnership with the Society of Cardiovascular Patient Care

STEMI Referral and Receiving Tracks

Seeking Mission: Lifeline Accreditation

Does facility routinely perform PCI?

NO

Apply for STEMI Referral Center Accreditation
TRACK #1

- STEMI Referral Center is a hospital that does not provide routine Primary PCI and generally transfers STEMI patients to a PCI capable facility
- Must participate in the ACTION Registry® - GWTG™
- Must be registered with Mission: Lifeline and have earned the Gold, Silver or Bronze designation
- Must meet the requirements under the Mission: Lifeline Accreditation Requirement Track titled, “STEMI Referral Center”

YES

Apply for STEMI Receiving Center Accreditation
TRACK #2

- STEMI Receiving Center is a hospital that provides routine Primary PCI 24/7
- Must participate in the ACTION Registry® - GWTG™
- Must be registered with Mission: Lifeline and have earned the Gold, Silver or Bronze designation
- Must meet the requirements under the Mission: Lifeline Accreditation Requirement Track titled, “STEMI Referral Center”
Mission: Lifeline Reports-3 Way Relationship

AHA
- Quality Improvement Specialists
- Mission: Lifeline Implementation
- Provide M:L Reports using AR-G data

ACC
- Keeper of AR-G Data
- Operational Support for data upload
- Executes Data Release Consent Forms
- Analyze the AR-G data using logic specific to ACTION reports
- Posts AR-G and M:L Reports

DCRI
- Analyze the AR-G data using logic specific to M:L

M:L Reports
# Overall Composite Adherence

**Site 999999**

**Mission:** Lifeline Receiving Center Report: Q1/11

*Confidential Information*

<table>
<thead>
<tr>
<th>Measure Metric</th>
<th>Care Opportunities</th>
<th>Adherence Score</th>
<th>State Adh. Score</th>
<th>Nation Adh. Score</th>
<th>Distribution of Site Composite Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Mission Lifeline Composite Score</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>94.7%</td>
</tr>
<tr>
<td>Time to Primary PCI &lt;= 90 min</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>93.0%</td>
</tr>
<tr>
<td>Mission: Lifeline First Medical Contact to Primary PCI &lt;= 90 min</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>61.1%</td>
</tr>
<tr>
<td>Reperfusion Therapy</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>92.3%</td>
</tr>
<tr>
<td>Aspirin at Arrival</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>98.7%</td>
</tr>
<tr>
<td>Aspirin at Discharge</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>98.6%</td>
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<tr>
<td>Beta Blocker at Discharge</td>
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<td>97.2%</td>
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<tr>
<td>Statin at Discharge</td>
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<td>-</td>
<td>98.8%</td>
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<tr>
<td>ACE-I or ARB for LVSD at Discharge</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>90.4%</td>
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<tr>
<td>Adult Smoking Cessation Advice</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>98.7%</td>
</tr>
</tbody>
</table>

1. **ACTION Registry-GWTG™** Mission: Lifeline receiving center patients have 9 Achievement Measures for which they may be eligible
2. Number of total guideline opportunities among eligible patients within the reporting timeframe: previous quarter
3. Number of times care matches guideline recommendations / Number of guideline opportunities
4. Among all admissions from receiving hospitals in site’s state. Eligible states must have at least 6 receiving hospitals in ACTION Registry-GWTG™

---

**First Medical Contact to Primary PCI <= 90 minutes**

**Number of Records: Nation QTR - 9577**
System Name: Q1/11
Critical Process Timelines: Time to Device

FMC to Device (Direct Presentation EMS Only) – Median Time

<table>
<thead>
<tr>
<th>Time in Minutes</th>
<th>Q3 2009</th>
<th>Q4 2009</th>
<th>Q1 2010</th>
<th>Q2 2010</th>
<th>Q3 2010</th>
<th>Q4 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMC-Device (Nation)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>FMC-Device</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Door-Arrival-Cath Lab</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>FMC-Door</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

1st Door to Device (Transfer for Primary PCI Only) – Median Time

<table>
<thead>
<tr>
<th>Time in Minutes</th>
<th>Q3 2009</th>
<th>Q4 2009</th>
<th>Q1 2010</th>
<th>Q2 2010</th>
<th>Q3 2010</th>
<th>Q4 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Door-Device (Nation)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>1st Door-Device</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>PCI Door-Device</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Door in-Door Out 1st Facility</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>
### System Name: Q1/11
#### Primary PCI

<table>
<thead>
<tr>
<th>System</th>
<th>State</th>
<th>Nation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Median Time from Arrival to Cath Lab</strong> (mins)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Presentation</td>
<td>76.5</td>
<td>73.4</td>
</tr>
<tr>
<td>Walk-in/POV</td>
<td>76.6</td>
<td>73.4</td>
</tr>
<tr>
<td>EMS</td>
<td>76.6</td>
<td>73.4</td>
</tr>
<tr>
<td>Transfers In</td>
<td>76.6</td>
<td>73.4</td>
</tr>
<tr>
<td>From Arrival at First Hospital</td>
<td>78.3</td>
<td>73.4</td>
</tr>
<tr>
<td>From Arrival at PCI Hospital</td>
<td>78.3</td>
<td>73.4</td>
</tr>
<tr>
<td><strong>Median Time from Arrival to Primary PCI (mins)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Presentation</td>
<td>76.5</td>
<td>73.4</td>
</tr>
<tr>
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<td>76.5</td>
<td>73.4</td>
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<tr>
<td>From Arrival at First Hospital</td>
<td>73.4</td>
<td>73.4</td>
</tr>
<tr>
<td>From Arrival at PCI Hospital</td>
<td>73.4</td>
<td>73.4</td>
</tr>
<tr>
<td><strong>Median Time from First Medical Contact to Primary PCI (mins)</strong></td>
<td>04.3</td>
<td>05.4</td>
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<tr>
<td><strong>Median Time from Cath Lab Arrival to First Device Activation (mins)</strong></td>
<td>7.3</td>
<td>7.4</td>
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<tr>
<td><strong>Reasons Reperfusion Not Indicated</strong></td>
<td></td>
<td></td>
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<tr>
<td>MI Diagnosis Unclear</td>
<td>76.5</td>
<td>73.4</td>
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<tr>
<td>MI Symptoms Onset &gt; 12 hrs</td>
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<td>73.4</td>
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<tr>
<td>Anatomy Not Suitable to Primary PCI</td>
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<td>73.4</td>
</tr>
<tr>
<td>Patient/Family Refusal</td>
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<td>73.4</td>
</tr>
<tr>
<td>DNR at Time of Treatment Decision</td>
<td>78.5</td>
<td>73.4</td>
</tr>
</tbody>
</table>

**Footnotes:**
1. Among direct presenters arriving via EMS.

**Graphs:**
- First Medical Contact to PCI ≤ 90 Minutes
- Arrival to PCI ≤ 90 Minutes
Mission: Lifeline Involvement: Recognition

**BRONZE**
- 1 calendar quarter - 90 consecutive days
- May receive up to 3 consecutive years

**SILVER**
- 4 calendar quarters - 12 consecutive months

**GOLD**
- 8 consecutive quarters - 24+ consecutive months

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## M:L Recognition History

- **77 Total M:L Recognized Hospitals 2010**

- **131 Total M:L Recognized Hospitals 2011**

- **225 Total M:L Recognized Hospitals 2012**

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving Bronze</td>
<td>73</td>
<td>92</td>
<td>147</td>
</tr>
<tr>
<td>Receiving Silver</td>
<td>4</td>
<td>35</td>
<td>43</td>
</tr>
<tr>
<td>Receiving Gold</td>
<td>0</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td>Referral Bronze</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Referral Silver</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Referral Gold</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
EMS Update

Next steps from a national perspective:
Mission: Lifeline In Summary

- Multi-Facited
  - M:L STEMI
  - M:L Cardiac Resuscitation
  - AR-G/ACC
  - SCPC
  - Data Interpretation/M:L Reports
  - System Development → Sustainability

- There is no one road map
- When you see one M:L System of Care, you’ve seen one M:L System of Care
- Everything needed to support Mission: Lifeline (SCIENCE) is in black and white
- Support is here
- Other Volunteers, Affiliate Staff, and National Center Staff
From the American Heart Association, Mission: Lifeline® Team:

- Thank you !!

MissionLifeline@heart.org