American Heart Association- National Program
Updates and Resources

Topics

• Overview and intent of Mission: Lifeline
• Resources and tools for STEMI and Cardiac Arrest Systems
• Levels of participation
• EMS Recognition program
• Mission: Lifeline Accreditation
AHA’s 20/20 Impact Goal

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:

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 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
- ***North Dakota M:L Website

**AHA LOCAL QUALITY AND SYSTEMS IMPROVEMENT STAFF**
- Mindy Cook, 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
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
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
Locate Systems of Care

Mission: Lifeline systems of care mapping tool

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

Mission: Lifeline STEMI and Cardiac Resuscitation System Directory

State: North Dakota  County: Choose one...

To search and map STEMI and Cardiac Resuscitation systems in your area, please select your state above. You may further refine your search by selecting a county.

When you are satisfied with your entries, please click 'Begin'.

Important: Hospital and STEMI system data on this site is self-reported. This website should not be used to determine where patients in critical situations should be transported. In such cases, patients should call 9-1-1 immediately to be taken to the nearest available emergency medical center. Click on Disclaimer for important additional information.
Locate Systems of Care

Search Directory  Edit Map

Systems In: North Dakota

STEMI  Cardiac Resuscitation  Hospitals

System Status: All

Selected Locations

<table>
<thead>
<tr>
<th>System Name</th>
<th>City</th>
<th>ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS Alert</td>
<td>Fargo</td>
<td>ND</td>
</tr>
<tr>
<td>Altru STEMI CODE</td>
<td>Grand Forks</td>
<td>ND</td>
</tr>
<tr>
<td>Avera Heart Hospital of South</td>
<td>Sioux Falls</td>
<td>SD</td>
</tr>
<tr>
<td>Medcenter One Door 2 Ballool</td>
<td>Bismarck</td>
<td>ND</td>
</tr>
<tr>
<td>MeritCare Health System</td>
<td>Fargo</td>
<td>ND</td>
</tr>
<tr>
<td>MetroArea Ambulance</td>
<td>Mandan</td>
<td>ND</td>
</tr>
<tr>
<td>Minneapolis Heart Institute at</td>
<td>Minneapolis</td>
<td>MN</td>
</tr>
<tr>
<td>Prairie Lakes Healthcare Syst</td>
<td>Watertown</td>
<td>SD</td>
</tr>
</tbody>
</table>

View List

Note: Cardiac Resuscitation Coverage Areas listed are also indicative of a STEMI system in place. Mission: Lifeline does not recognize Cardiac Resuscitation Systems that are not also associated with an active STEMI System.

Cardiac Resuscitation Coverage Area
STEMI Coverage Area
Receiving (PCI Capable) Hospital
Referral (Non-PCI Capable Hospital)
Mission: Lifeline Recognized Hospital

Current Statistics Layer: None

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Mission: Lifeline Involvement

PARTICIPATION
ML Hospital Registration
ML System Registration
Memorandum of Understanding
Mission: Lifeline Social Community
Quality Improvement/Data Analysis
Mission: Lifeline Rep

RECOGNITION

ACREDITATION

ML 2014 2014 2014
Hospital Silver Gold
Registration Receiving Receiving Receiving

American Heart Association
2010 SCIENTIFIC SESSIONS QUALITY ACHIEVEMENT AWARDS

American Heart Association
Accreditation
Meets standards for STEMI Receiving Center

American Heart Association
Accreditation
Meets standards for STEMI Referral Center

©2014, American Heart Association
Mission: Lifeline Levels of Involvement

Mission: Lifeline Recognition
- Data Collection via ACTION Registry-GWTG
- Mission: Lifeline Data Review for Recognition

Mission: Lifeline Accreditation
- Purchase Mission: Lifeline Accreditation Manual
- Apply/Submit Mission: Lifeline Accreditation Application

MISSION: LIFELINE PARTICPATION

Improved STEMI Outcomes
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

M:L Reports

DCRI
- Analyze the AR-G data using logic specific to M:L
Mission: Lifeline Recognition Levels

Current year’s Mission: Lifeline award must be an improvement from the previous year’s Mission: Lifeline award achieved
### Mission: Lifeline Recognition History

- **77** Total Mission: Lifeline Recognized Hospitals 2010
- **131** Total Mission: Lifeline Recognized Hospitals 2011
- **226** Total Mission: Lifeline Recognized Hospitals 2012
- **309** Total Mission: Lifeline Recognized Hospitals 2013
- **344** Total Mission: Lifeline Recognized Hospitals 2014

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<tbody>
<tr>
<td>Receiving Bronze</td>
<td>73</td>
<td>92</td>
<td>147</td>
<td>148</td>
<td>128/50+</td>
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<tr>
<td>Receiving Silver</td>
<td>4</td>
<td>35</td>
<td>44</td>
<td>103</td>
<td>118/54+</td>
</tr>
<tr>
<td>Receiving Gold</td>
<td>0</td>
<td>2</td>
<td>25</td>
<td>50</td>
<td>85/51+</td>
</tr>
<tr>
<td>Referral Bronze</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td>7</td>
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<tr>
<td>Referral Silver</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Referral Gold</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>
2014 Recognition Highlights

344 Hospitals Achieved 2014 Mission: Lifeline Recognition

- Submit Data into ACTION Registry-GWTG
- Registered with M:L
- Meet M:L recognition Criteria
Mission: Lifeline Hospital Recognition Measures

**M:L RECEIVING CENTER MEASURES**
- Door to Device < 90 Minutes
- FMC to Device < 90 Minutes
- ASA within 24 hours of arrival
- ASA at discharge
- Beta blocker at discharge
- Statins or lipid lowering drugs for patients with LDL >100
- ACEI/ARB at discharge for patients with LVSD
- Smokers with smoking cessation counseling at discharge

**M:L REFERRAL CENTER MEASURES**
- Door to ECG < 10 Minutes
- Door In – Door out ≤45 Minutes (transfer for PCI)
- ASA before transfer or before ED discharge
- ASA on discharge
- Beta Blocker at discharge
- Statins or lipid lowering drugs for patients with LDL >100
- ACEI/ARB at discharge for patients with LVSD
- Smokers with smoking cessation counseling at discharge
Mission: Lifeline Receiving Center PLUS Measure

- Arrival at STEMI Referring Center to Device ≤ 120 Minutes
- Meet at least 75% Achievement
- Must achieve a base award (Bronze, Silver, Gold) to qualify
- Mission: Lifeline Reports – Q3 2013 is first quarterly report to show PLUS data
- NOTE – National achievement is <75%
Despite the recent gains, additional opportunities for improvement in D2B times remain. The most outstanding institutions are now regularly achieving times under 60 minutes through strategies including coordination with Emergency Medical Services and the collection and dissemination of a prehospital ECG. This level of performance may become the new standard.

http://circ.ahajournals.org/search?fulltext=Improvements+in+door+to+balloon+times&submit=yes&x=6&y=8
Challenges Specific to AHA EMS Recognition

- **Focus on Quality**
  - New Formal Process
  - Previously seen as low priority
  - QI processes are difficult for low resource agencies
  - Culture change

- **Data Collection**
  - Self Reporting Expectation

- **System Fragmentation**
  - Competition of Agencies
  - Continuum of Care
  - Patient Documentation
  - Protocol Diversity & Equipment Variability
MISSION: LIFELINE EMS RECOGNITION

~~No Cost~~

Application Opens January 1, 2015
What are the Achievement Measures?

- Non-Traumatic Chest Pain Patients Received ECG
  - ≥ 35yo
  - Transported
- FMC to PCI ≤ 90 Minutes
  - Non-Transfer
  - STEMI Identified Pre-Hospital on ECG
  - ≥ 18yo
- Arrival (to referral hospital) to Needle ≤ 30 Minutes
  - Fibrinolytics Administered
  - STEMI Identified Pre-Hospital ECG
  - ≥ 18yo
Must all 3 measures be reported?

Transport Destination Protocols determine achievement measures required to complete:

<table>
<thead>
<tr>
<th>Agencys with STEMI patients transported to STEMI Receiving Centers only</th>
<th>Reporting Measures #1 and #2 required</th>
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</thead>
<tbody>
<tr>
<td>Agencys with STEMI patients transported to STEMI Referring Centers only</td>
<td>Reporting Measures #1 and #3 required</td>
</tr>
<tr>
<td>Agencys with STEMI patients transported to both STEMI Receiving Centers and STEMI Referring Centers</td>
<td>Reporting Measures #1, #2, and #3 required</td>
</tr>
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</table>
What is the volume requirement for EMS Recognition?

- **BRONZE eligibility** = At least 2 STEMI patients in the reporting quarter with a minimum of 4 total for the year

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Eligibility Status</th>
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<tbody>
<tr>
<td>Q1</td>
<td>Eligible for Bronze</td>
</tr>
<tr>
<td>Q2</td>
<td>Not Eligible for Bronze</td>
</tr>
<tr>
<td>Q3</td>
<td>Not Eligible for Bronze</td>
</tr>
<tr>
<td>Q4</td>
<td>Not Eligible for Bronze</td>
</tr>
<tr>
<td>Annual</td>
<td>Q1 Bronze</td>
</tr>
</tbody>
</table>
What is the volume requirement for EMS Recognition?

- SILVER eligibility = At least 2 STEMI patients in EACH reporting quarter with a minimum of 8 total for the year. Each quarter must meet achievement criteria.

- **Q1** = Eligible for Bronze
- **Q2** = Eligible for Bronze
- **Q3** = Eligible for Bronze
- **Q4** = Eligible for Bronze

- Annual – Q1 Eligible for SILVER/GOLD or BRONZE
How will AHA collect the Pre-Hospital Data?

- Self reported summary
- Web based submission
Will the validity of the Data be verified?

- No

- Person submitting data is requested to be:
  - Qualified and Appropriately designated staff person of the EMS Agency
  - Training Officer
  - Administrative Leadership

- Update data submission process and include an audit process may be in future considerations of the recognition program
How will the EMS recognition program be structured?

- Achievement levels of
  - Bronze – 1 Calendar Quarter
  - Silver – 1 Calendar Year
  - Gold – 2 Calendar Years (Start in 2015)

- Submit recognition application annually for the previous calendar year of data using a web based self entry portal.

- Submitted data summary will be reviewed by National Center

- Awards issued in Spring
Mission: Lifeline Recognition
(for Receiving and Referral Centers)

**BRONZE**
1 calendar quarter - 90 consecutive days

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

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

8/6/2014

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2011 Combining Efforts

American Heart Association's Mission: Lifeline®
Accreditation and
Society of Cardiovascular Patient Care's Chest Pain Center Accreditation

GOALS:

- Develop a Comprehensive Approach ACS Care
- Purpose is to Guide Hospitals through PI initiatives
- Ultimately Leading to Improved Patient Outcomes
Collaboration

- In the best interest of patients by providing
  - Guidance and Resources to meet Healthcare Needs
  - Accountability to Improved Cardiac Outcomes

Hospitals should immediately begin organizing M:L Accreditation application and notebook for the 2014 cycle.

April 30th — M:L Accreditation Application Deadline for 2014 Award Recipients
Mission: Lifeline Accreditation

48 Heart Attack Receiving Centers

3 Heart Attack Referring Centers

As of 7/2014
AHA Staff’s Role

AHA Staff – Your Mission: Lifeline Implementation Resource/Specialist

- AHA Staff receives a weekly report of hospitals that purchase a manual
  - Triggers communication from AHA
- Email Missionlifeline@heart.org to send requests for any Mission: Lifeline guidance or support
  - All requests are triaged to appropriate affiliate staff team member
- AHA Staff are well trained and connected!
  - M:L Accreditation Manual specifics
  - Overall Mission: Lifeline accreditation process
  - Practice sharing/mentoring
    - Connect hospitals applying for Mission: Lifeline Accreditation with those that have successfully achieved accreditation
  - Regional task force development
AHA Staff’s Role

AHA Staff – Mission: Lifeline Implementation Resource/Specialist

• Regional Task Force Development – Win/Win
  – We are Switzerland
  – Working together to:
    • Build multidisciplinary STEMI teams
      – Internal and Interagency
    • Develop standardized regional STEMI protocols
    • Organize Mission: Lifeline regional reports data
    • Share common and ideal practices
    • Implement standardized outreach efforts; working with EMS/referring hospitals
    • Provide input for public awareness/educational campaigns
    • Ultimately drive hospitals to achieve and maintain national Mission: Lifeline recognition
    • And More – Region specific initiatives
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