CPR LifeLinks

911 and EMS united to save more lives.

The CPR LifeLinks Implementation Toolkit
A national initiative to unite EMS and 9-1-1 agencies to improve survival rates in their communities by implementing Telecommunicator CPR and High Performance CPR.
CARES
Cardiac Arrest Registry to Enhance Survival

CPRLifeLinks Coalition:
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CPR LIFELINKS PROJECT TEAM

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INCREASING OHCA SURVIVAL

2015 Institute of Medicine (IOM): EMS systems should take steps to enhance T-CPR and HP-CPR to improve patient outcomes in their communities.

In response to the report, the National Highway Traffic Safety Administration created convened experts and created CPRLifeLinks.
Recommendation 3: **Enhance the Capabilities and Performance of EMS Systems**

NHTSA should coordinate with other federal agencies and representatives from private industry, states, professional organizations, first responders, EMS systems, and non-profit organizations to convene interested stakeholders:

- To develop standardized **Telecommunicator-Assisted CPR protocols and national educational standards** for use by all PSAPs.
- To establish a **standardized definition and training curriculum** for **High-Performance CPR** to be used in basic emergency medical technician training and certification.
Examples of Telecommunicator-Assisted CPR Performance Metrics

- Percentage of cardiac arrests recognized when dispatchers have a chance to assess patient consciousness and breathing
- Time from call receipt to recognition of cardiac arrest
- Percentage of cases that receive chest compressions when dispatchers have a chance to assess patient status and CPR is not already in progress
- Time from call receipt to first chest compressions
Early recognition and call for help
- to prevent cardiac arrest

Early CPR
- to buy time

Early defibrillation
- to restart the heart

Post resuscitation care
- to restore quality of life
CPRLifeLinks Implementation Toolkit is a how-to guide for EMS and 911 agencies interested in implementing programs to improve cardiac arrest survival rates in communities across the nation.

A practical roadmap to help:

- 9-1-1 agencies implement Telecommunicator-CPR protocols, training and QI
- EMS agencies implement High-Performance CPR programs

Complete package of cognitive and hands-on training and assessment tools with audiovisual demonstrations and case studies.
DEVELOPING THE CPR LIFELINKS TOOLKIT

The NHTSA Office of EMS and National 911 Program convened a group of 20 public safety leaders to draft the CPRLifeLinks Implementation Toolkit.

16-Month Development Process

- Monthly meetings
- One in-person meeting
- Multiple Toolkit revisions
- Public comment solicitation
WHAT’S INSIDE:

Two “Linked” Training Chapters

PART 1: Telecommunicator CPR (T-CPR)
• Section 1: Overview
• Section 2: The Commitment to Act: Challenges and Perspectives
• Section 3: AHA T-CPR Program and Performance Recommendations
• Section 4: Protocols
• Section 5: Telecommunicator Training
• Section 6: Achieving a T-CPR Culture of Excellence

PART 2: High-Performance CPR (HP-CPR)
• Section 1: Overview
• Section 2: The Commitment to Act: Challenges and Perspectives
• Section 3: Performance Recommendations
• Section 4: Common CPR Quality Issues
• Section 5: Training
• Section 6: Achieving a HP-CPR Culture of Excellence
Culture of Excellence: An environment which requires a shared organizational vision by both 911 and EMS leaders

Leadership: Need to identify and empower EMS/911 leaders

Achieving a Culture of Excellence for Telecommunicator CPR:
- Build bridges between stakeholders across the Chain of Survival
- Recommend elements of T-CPR CQI/QA
- Fulfilling additional steps PSAPs can take toward a culture of excellence

Achieving a Culture of Excellence for High-Performance CPR:
- Build bridges between stakeholders across the Chain of Survival
- Recommend elements of EMS CQI/QA
- Fulfilling additional steps EMS agencies can take toward a culture of excellence
A THREE-STEP PROCESS WHERE TELECOMMUNICATORS:

1. Work together with 9-1-1 callers to identify potential OHCA patients
2. Provide callers with pre-arrival CPR instructions
3. Coach callers to perform continuous CPR until EMS assumes care

2017 American Heart Association Recommendations

- Percentage of total OHCA Cases Correctly Identified by Telecommunicators
- Percentage of Recognizable OHCA Cases Correctly Identified by Telecommunicators
- Percentage of Telecommunicator-Recognized OHCA Receiving T-CPR
- Median Time Interval Between 9-1-1 Call and OHCA Recommendation
- Median Time Interval Between 9-1-1 Call and First Telecommunicator-Directed Compression
T-CPR TRAINING

Circle of Telecommunicator-CPR

- Segment One: Know the Recommendations
- Segment Two: Practice T-CPR
- Segment Three: Learn from others
- Segment Four: Simulate T-CPR
- Segment Five: Deliver T-CPR
HIGH-PERFORMANCE CPR DEFINED

An expertly performed, choreographed and measured OHCA response consisting of individual and team performance that meets or exceeds current evidence-based performance recommendations.

Guideline Recommendations

- Chest compression fraction
- Compression depth
- Compression rate
- Compression release
- Compression pauses
- All should all be optimized for ALL adult and pediatric resuscitations
Recognition of CPR quality issues and causes is an essential step toward improving performance.

**COMMON CPR QUALITY ISSUES**

- Avoiding delays, pauses and interruptions in CPR
- Optimizing compressions technique
- Managing the effects of airway and ventilation techniques
- Managing chaos
HP-CPR TRAINING
Circle of High-Performance CPR

- Segment One: Cognitive
- Segment Two: Compression Skills
- Segment Three: Ventilation Skills
- Segment Four: Team Skills
- Segment Five: Clinical Practice
MEASURE
Continuous CPR Education and Quality Improvement

IMPROVE
Materials: Where to Find Them

- [https://www.911.gov/project_telecommunicator-assistedCPR.html](https://www.911.gov/project_telecommunicator-assistedCPR.html)
WHAT YOU CAN DO

• **Build a relationship** between your 911 center and EMS agency – start the CPR dialogue.

• **Download the CPR LifeLinks Toolkit** – available on ems.gov and 911.gov in Spring 2018.

• **Share the word** about CPRLifeLinks and the resources available. They can help any agency get started, regardless of size or location.
THANK YOU

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