

Early Defibrillation Program



POLICIES AND PROCEDURES



Disclaimer

This policies and procedures was created because Arnold Machinery Company has invested money in the installation of the Philips AED's for each of Arnold Machinery Company Branch in conjunction with Philips Medical Systems Heartstream Early Defibrillation Clinical Implementation Team as a guide to assist companies and their Medical Directors in the development of early defibrillation program policies and procedures. The team has extensive experience implementing early defibrillation programs in a variety of environments following industry standards and guidelines. Philips Medical Systems cannot guarantee specific results. It is the organization's responsibility, in conjunction with its Medical Director and legal adviser, to determine the appropriate policies and procedures for its facilities.

Most states have specific "Good Samaritan" legislation and requirements for public access defibrillation (PAD) programs. Philips Medical Systems recommends that organizations consult with their legal and medical advisers regarding early defibrillation program design and implementation.



Arnold Machinery Company

The following document describes the policies and procedures, including medical protocols, to be used in governing the Early Defibrillation program of Arnold Machinery Company. It is the goal of this program to provide a rapid response to sudden cardiac arrest for Associates and guests for each of our branch. It is the intent of this document to give the Early Defibrillation Response Team members general guidance in response to an incident of sudden cardiac arrest (SCA). The document is not intended to cover all circumstances involved in such emergencies. Each Branch will receive training on how to operate/use an AED. The policies and procedures described in this document will be in effect from the signed date until [date] or until further review and changes are made by Corporate Management and/or the early defibrillation program administrators.

Branch Manager

Date

Early Defibrillation Program Coordinator

Date

Other

Date

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1. Scope

This document describes the policies and procedures of Arnold Machinery Co. relating to its early defibrillation program utilizing employees who serve as trained responders in CPR and defibrillation therapy in the event of a medical emergency.

2. Purpose

The purpose of this document is to establish a consistent guideline for application, location, maintenance, and various other components described herein involving the Arnold Machinery Company early defibrillation program. It is the intent of each Arnold Machinery to provide the appropriate defibrillator coverage for this entity in accordance with established guidelines. A response time of three (3) minutes from time of incident to first shock is the intended goal, in order to increase the likelihood of survival in the event of SCA. This workbook is intended to serve as a guide and checklist for the basic elements of implementing an early defibrillation program utilizing HeartStart automated external defibrillators (defibrillators, or AEDs). It is part of the Philips Medical Systems total solution approach to early defibrillation program implementation. In addition to this information, Philips Medical Systems and its affiliates offer and can assist you in obtaining a variety of solutions for implementing your early defibrillation program. Implementation products and services include:

3. Definitions

Early Defibrillation Response Team Member. An individual who is trained in AED use to respond to SCA medical emergencies and may also be a member of the Emergency Response Team.

Automated external defibrillator (AED or defibrillator). An automated computerized medical device programmed to analyze heart rhythm, recognize rhythms that require defibrillation, and provide visual and voice instructions for the device operator, including, if indicated, to push the button to deliver an electric shock.

Bystander first aid/CPR. Initial first aid/CPR provided by a trained individual who is not part of an organized medical response system such as ERT or EMS.

Cardiopulmonary resuscitation (CPR). Rescue breathing and external cardiac compression applied to a victim in respiratory and/or sudden cardiac arrest.

Emergency Medical System (EMS). Professional community responder agency for emergency events, who provide medical assistance and/or ambulance transport.

Emergency Response Team (ERT), or Medical Emergency Response Team (MERT). A group of medical responders who train on a regular basis to respond to medical emergencies.

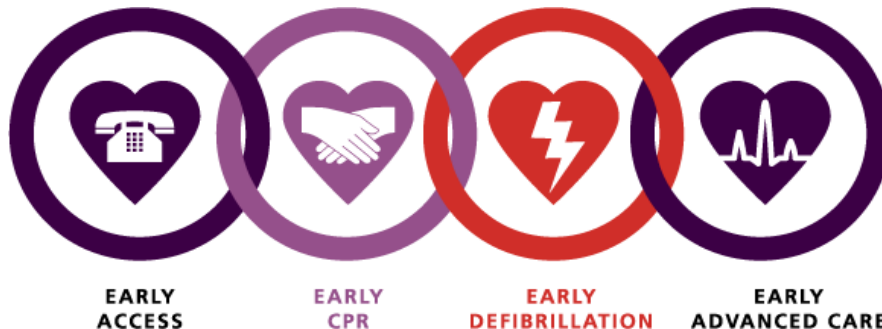
Rescue breathing. Artificial ventilation of a victim in respiratory and/or sudden cardiac arrest.

Sudden cardiac arrest (SCA). A significant life-threatening event when a person's heart stops or fails to produce a pulse.

4. Early Defibrillation Program Overview

[User Facility] provides a medical emergency response that includes basic and advanced first aid, cardiopulmonary resuscitation (CPR), and emergency defibrillation as described in the [User Facility] Health and Safety Manual. The goal of the early defibrillation program is to participate actively in the Chain of Survival, illustrated below, by providing early defibrillation to any victim of sudden cardiac arrest (SCA) on our campus, within three minutes of witnessed collapse or discovery of the victim.

Figure 1. Chain of Survival



5. Early Defibrillation Response Team Roles and Responsibilities

See Appendix A for the Roster of Early Defibrillation Response Team Members.

5.1 **Environmental Health and Safety Manager or Field Manager.** It is the responsibility of the Environment Health and Safety (EHS) Director or Manager to:

- (1) Communicate to site management the costs and benefits of expanding the existing medical emergency response by including defibrillator use.

- (2) Ensure adequate resources are allocated to achieve Early Defibrillation Program goals.
- (3) Designate an Early Defibrillation Program Coordinator who understands early defibrillation and the use of defibrillators, and demonstrates the ability to manage employee teams.
- (4) Review the program annually to evaluate effectiveness.

5.2 **Medical Director: Though Arnold Machinery does not have a designated Medical Director, Arnold Machinery Company relies on our Medical Providers, American Red Cross, Concentra Clinics, etc. for consultation.** It is the responsibility of the Medical Director – typically an emergency physician, cardiologist, occupational health physician, EMS physician or staff physician – to:

- (1) Provide medical consultation and expertise.
- (2) Develop and/or approve protocols for the use of the defibrillator and other medical equipment.
- (3) Act as a liaison between the early defibrillation program site and EMS.
- (4) Approve the early defibrillation training program and ensure rescuers are properly trained.
- (5) Review all incidents involving the use of the defibrillator.
- (6) Provide post-incident debriefing support.
- (7) Assure program compliance with Arnold Machinery Company early defibrillation response protocols, policies and procedures, and training.

5.3 **Early Defibrillation Program Coordinator and Site Coordinators.** It is the responsibility of the Early Defibrillation Program Coordinator and Site Coordinators for each site – typically health and safety professionals, HR representatives, occupational health nurses, security managers or other designated company employees, or qualified designees – to:

- (1) Communicate with the physician providing oversight, Early Defibrillation Response Team Members, management and EMS regarding the early defibrillation program.

- (2) Participate in case reviews, responder training and retraining, data collection and other quality assurance activities.
- (3) Assure maintenance of the defibrillators and related response equipment.
- (4) Develop and maintain the emergency response plan and company policies and procedures.
- (5) Maintain a list of trained early defibrillation responders.
- (6) Ensure compliance with the company policies and procedures of the Early Defibrillation Program.
- (7) Assure compliance with state and local regulations regarding defibrillator use.

5.4 **Early Defibrillation Response Team Members.** It is the responsibility of the Early Defibrillation Response Team members to:

- (1) Successfully complete all required training and skills evaluations, as defined by each Arnold Machinery Branch and/or the requirements of this document.
- (2) Respond to emergency calls according to the site's early defibrillation response protocol.
- (3) Follow the guidelines of the early defibrillation program and remain current on all certifications required by Arnold Machinery.

6. Defibrillator Equipment

See Appendix B for the *Defibrillator Location and Equipment Sheet*.

6.1 **Description.** The equipment provided in support of the early defibrillation program is to be used in the event of an SCA at each Arnold Machinery Branch. This equipment shall not be used outside the parameters of the AED program except as approved by the Early Defibrillation Program Coordinator and Site Coordinators. Each device will be maintained according to each Branch or Facilities policy and following manufacturer's guidelines. Arnold Machinery has elected to use the HeartStart Defibrillator for its early defibrillation response program.

6.2 **Location.** Each defibrillator location shall include the following items:

Item Description	Quantity
HeartStart Defibrillator with battery installed	1
Carry Case with Quick Reference	1
Spare Battery	0
Defibrillation Pads	2 sets
Data card (if appropriate to model)	1
Accessories (scissors, towel, razor, pocket mask, gloves)	1 set

- 6.3 **Accessories.** All accessory equipment must remain with the defibrillator and must be inspected on a regular basis, as stipulated by Arnold Machinery Company policy, for readiness for use and integrity of the device.

7. Defibrillator Maintenance

See Appendix C for the *Periodic Maintenance Checklist*.

- 7.1 **Reports of Damage.** Follow the manufacturer's recommendations for all scheduled defibrillator maintenance checks. Report any performance discrepancies, device defects, or missing, expired, and/or damaged accessories to the Early Defibrillation Program Coordinator immediately.
- 7.2 **Calibration.** The HeartStart Defibrillator requires no calibration or verification of energy delivery. The HeartStart Defibrillator has no user-serviceable parts. The defibrillator performs regular self-tests to assure that it is ready for use. While the maintenance required for the HeartStart Defibrillator is minimal, it is important that a regular check of the defibrillator be performed to assure readiness, as described in the HeartStart Defibrillator *Instructions for Use*.
- 7.3 **Suggested Maintenance Schedule.** Refer to the suggested maintenance schedule in the HeartStart *Defibrillator Instructions for Use*, which also provides detailed instructions for responding to each maintenance task.
- 7.4 **Cleaning.** When necessary, clean the defibrillator using recommended cleaning agents, per the HeartStart Defibrillator *Instructions for Use*.

8. Early Defibrillation Response Plan Overview

- 8.1 **Initiation of Emergency Response.** Any employee who recognizes a medical emergency initiates the Emergency Response Plan immediately, by first Calling 911 and administer First-Aid/CPR by a trained and qualified associate and provides the following information:
- Reporting the associate's name
 - Type of emergency
 - Location of emergency
 - Brief description of the patient
- 8.2 **911 Notification.** The Branch communication center contacts 911 and, using established emergency procedures, dispatches the ERT or Early Defibrillation Response Team to the location of the emergency with the appropriate equipment.
- 8.3 **Early Defibrillation Team Response.** At the scene, the ERT or AED team verifies scene safety before assessing the patient, then renders appropriate care based upon the patient's condition.
- 8.4 **EMS Contact and Lead-In.** When possible, the ERT or Early Defibrillation Response Team contacts EMS and provides lead-in instructions (directions for reaching the patient on site) to the responding EMS unit, while continuing to provide appropriate patient care until a higher medical authority arrives or the patient refuses care.
- 8.5 **Transfer of Patient Care.** Once EMS arrives, the ERT or Early Defibrillation Response Team transfers patient care to the EMS agency for appropriate advanced medical treatment and provides a report including:
- The initial time of the event.
 - Any care given prior to the team's arrival
 - Patient's condition upon the team arrival
 - All treatment rendered to the patient by the team
 - Any available medical information about the patient
- 8.6. **Post-Event Procedures.** After transferring patient care to EMS responders, the ERT or Early Defibrillation Response Team conducts the following post-

event procedures in accordance with the protocol as provided in Appendix D, ***Early Defibrillation Response Protocol and Flow Chart***.

- Post-use equipment check
- Removal of data card for data collection
- Replacement of necessary supplies used
- Return of the AED to its designated location

8.7 **Debriefing Procedures.** As soon as possible, a debriefing is conducted to evaluate the ERT or Early Defibrillation Response Team's response and the potential need for emotional support of the responders involved. This debriefing can be conducted on an informal basis with the team or with the assistance of professional counselors. The Early Defibrillation Program Coordinator conducts an evaluation of all aspects of the emergency response and the strengths and deficiencies of the response plan as revealed by the incident. Modifications made to the plan must be approved by the Medical Director and discussed with the ERT or Early Defibrillation Response Team prior to any changes to the response plan.

9. AED Response Protocol Authorization

- 9.1 **Protocol Approval.** The Early Defibrillation Program Medical Director devises or reviews the branch early defibrillation response protocols and approves them by signing. The signed protocols are for use only by members of the branch ERT or Early Defibrillation Response Team under the Medical Director's guidance.
- 9.2 **Protocol Revisions.** The Early Defibrillation Program Coordinator, Corporate Safety Director or, and program Medical Director are the only individuals authorized to revise the Branch's AED response protocols. Revisions may be based on an annual or more frequent review of the content and the early defibrillation program's performance data.
- 9.3 **Operational Guidelines.** The ERT or Early Defibrillation Response Team members are to perform only to the level of their training and the guidance provided in the AED training protocols. Medical liability coverage is granted to responding team members only under these conditions. Arnold Machinery does not certify or provide medical liability coverage for any ERT or Early

Defibrillation Response Team member operating under these protocols outside of an Arnold Machinery Company property or function.

9.4 **Protocol Qualifications.** All ERT or Early Defibrillation Response Team members are authorized to use the early defibrillation response protocols based upon:

- successful completion of the AED Training program, approved defibrillator instructional program, and
- appointment to the ERT or Early Defibrillation Response Team.

10. Protocol Guidelines

See Appendix D for the *Early Defibrillation Response Protocol and Flow Chart*.

10.1 **Defibrillator Application Guidelines.** Once the defibrillator is turned on and the pads applied to the patient, the ERT or Early Defibrillation Response Team member shall not remove the pads or turn off the device unless prompted by the device itself or directed by a higher medical authority. In all cases, the Team member shall continue to assess the patient's airway, breathing, and circulation and provide CPR as indicated.

10.2 **AED Application Criteria.** The defibrillator shall be applied only to patients who are unresponsive and not breathing.

10.3 **Defibrillation Procedure.** Defibrillation shocks are to be delivered only in accordance with the Branch early defibrillation response protocol. If the device advises no shocks, the ERT or Early Defibrillation Response Team responder follows the approved protocols for patient care and CPR.

10.4 **Wet Environments and Metal Surfaces.** The HeartStart Defibrillator can be used in fresh and saltwater environments and on metal surfaces that are wet or dry. Always follow all HeartStart Defibrillator recommended safety precautions.

10.5 **Excessive Chest Hair.** If required for proper defibrillation pad adhesion, any excess hair on the patient's chest is shaved with a prep razor supplied in the accessory kit. A smooth shave is not required.

- 10.6 **Medication Patches.** Using a gloved hand, remove any medication patches, if present, from the patient's chest prior to pad placement and wipe the skin clean with a cloth.
- 10.7 **Implantable Pacemakers and Defibrillators.** If the patient has an implantable pacemaker or internal defibrillator, do not place the defibrillation pads directly over the implanted device. If the presence of an implanted device affects pad placement, place the defibrillation pad as close to the recommended pad placement as possible.
- 10.8 **AED Abuse or Vandalism.** No abuse or vandalism of the defibrillator is to be tolerated. If abuse or vandalism is suspected, it is to be reported to the Early Defibrillation Program Coordinator immediately so that the defibrillator can be evaluated for proper operation.

11. **Early Defibrillation Response Protocol***

- 11.1 *Initial Assessment.* The first ERT or Early Defibrillation Response Team member responding conducts an initial assessment to determine the level of response required from the team and outside responding agencies. This initial assessment includes:

- Assessment of the scene for safety of self and other responders.
- Use of gloves and other universal precautions prior to patient contact.
- Assessment of the patient for absence of responsiveness, respiration, and signs of circulation.
- Assessment for additional information about the patient or scene.

Information gathered at the scene should be relayed to Emergency Response Technicians responding to the scene for dissemination to responding parties.

- 11.2 *Early Defibrillation Response Plan and 911.* The initial ERT or Early Defibrillation Response Team responder verifies that the AED response plan has been activated and that 911 has been notified. If the defibrillator is not present at the scene, the responder verifies that it is being brought immediately.

- 11.3 *CPR Procedures.* In the absence of the defibrillator, the ERT or Early Defibrillation Response Team member initiates the ABCs of CPR – establishing an airway, ventilating the patient, and beginning chest compressions – until the defibrillator arrives.
- 11.4 *Defibrillator Application.* Turn on the defibrillator as soon as it arrives at the scene and follow its prompts. If more than one ERT or Early Defibrillation Response Team member is present, one can apply the defibrillation pads and operate the defibrillator while the other continues CPR until told to stop. Perform any special procedures required (removal of medication patches, shaving of excessive chest hair, etc.) as outlined in the early defibrillation response protocol guidelines (section 10) prior to placing the pads on the patient's bare chest.
- 11.5 *Defibrillator Heart Rhythm Analysis.* When the pads are properly attached to the patient and connected to the defibrillator, the device will automatically analyze the patient for a shockable rhythm – such as ventricular fibrillation (VF). Ensure that no one touches the patient during rhythm analysis. On completion of rhythm analysis, the defibrillator will prompt the rescuers as to the appropriate course of action. Follow the device prompts in treating the patient.
- 11.6 *Defibrillation Safety Precautions.* If the defibrillator gives a “Shock Advised” prompt, first ensure that no one is touching by examining the patient area and loudly stating “I’m clear, you’re clear, everyone clear!” Then press the shock button to deliver a shock to the patient as prompted. Shock delivery will be followed by re-analysis of the patient’s heart rhythm by the defibrillator. If additional shocks are advised by the defibrillator, follow the above sequence until the defibrillator prompts otherwise or EMS arrives.
- 11.7 *Defibrillation Shock Sequence.* Based upon the Philips AED device early defibrillation response protocols and in accordance with defibrillator prompts, administer a shock sequence of up to three (3) consecutive shocks to the patient, followed by one (1) minute of CPR if signs of circulation are absent.
- 11.8 *No Shock Advised Procedure.* If the defibrillator gives a “No Shock Advised” or “Shock Not Advised” prompt and the patient is not breathing and has no

signs of circulation, administer CPR until the patient regains signs of circulation, the defibrillator advises to stop CPR for analysis, or EMS arrives and assumes care of the patient. If the patient is not breathing but does have signs of circulation, perform rescue breathing until the patient regains adequate respiration, the defibrillator advises to not touch the patient for analysis, or EMS arrives and assumes patient care. Conduct continuous monitoring of the patient's condition and evaluation of rescue in accordance with ERT or Early Defibrillation Response Team training.

- 11.9 *Patient Monitoring.* Once the defibrillator has been applied to the patient, do not turn off the defibrillator or remove the defibrillation pads unless prompted by the device (e.g., "Replace battery" or "Replace pads"). The defibrillator will continue background monitoring of the patient's heart rhythm and alert the rescuers if additional shocks are required. Continue to assess the patient's airway, breathing, and circulation and provide CPR as indicated.

12. Transfer of Patient Care to EMS

- 12.1 *EMS Arrival.* Upon arrival of EMS, transfer patient care to the EMS team. If requested by EMS, assist in patient care; otherwise, initiate post-incident procedures (see section 13).
- 12.2 *Oral Report.* Give the EMS agency a complete oral report of the event and any significant findings. Unless requested to remain at the scene to assist, complete the a first report of Early Defibrillation Incident Report.
- 12.3 *Early Defibrillation Incident Report.* The Early Defibrillation Incident Report may be copied and given to the EMS agency as part of the patient care document, either while EMS is on-scene or after the ambulance has left with the patient. If the report is to be given later, it is the responsibility of the Early Defibrillation Program Coordinator to oversee this data transfer and delegate responsibility if necessary.
- 12.4 *Defibrillator Data Retrieval.* An ERT or Early Defibrillation Response Team member who responded to the incident is responsible for retrieval of the defibrillator data.

13. Post-Incident Procedures

See Appendices E and F for the *Early Defibrillation Incident Report* and the *Post-Incident Critique Form*.

- 13.1 *Early Defibrillation Incident Report.* The team member who provided care to the patient must document all accounts of the medical event and any patient care given on the Early Defibrillation Incident Report form. The team member will then provide the completed Early Defibrillation Incident Report to the Early Defibrillation Program Coordinator for data collection and quality review.
- 13.2 *Early Defibrillation Report Confidentiality.* The Early Defibrillation Incident Report is a part of the patient care record and is confidential to both the patient and Arnold Machinery Company. This report is not to be copied or altered once it is completed. Discussion of all aspects of the event is to be limited to team members, in debriefing or training sessions. To prevent violation of patient confidentiality, ERT or Early Defibrillation Response Team members are to refrain from open discussion about any aspects of the medical event. Patient confidentiality must be maintained in accordance with all state and federal regulations.
- 13.3 *Response Protocol Irregularities.* Any protocol or equipment irregularities that occurred during the SCA event are to be reported to the Early Defibrillation Program Coordinator immediately for appropriate action. The Program Coordinator is to ensure that the device manufacturer is notified of any equipment irregularities.
- 13.4 *Defibrillation Debriefing Procedures.* A debriefing, headed by the Early Defibrillation Program Coordinator, is to be conducted with all team members who responded to the event, as well as any bystanders and co-workers who witnessed the event, the Medical Director if necessary, and professional counselors if deemed appropriate by the Early Defibrillation Program Coordinator or the Medical Director.
- 13.5 *Post-Event Defibrillator Check Procedures.* Before returning the defibrillator to service, perform the following post-event procedures:
 - Check the defibrillator visually for damage or missing parts.
 - Replace all supplies used during the event.

- If the device is a ForeRunner/FR2/FR2+ defibrillator, remove the data card for data collection and install a replacement data card or, after incident data has been downloaded, reinstall the original data card in the defibrillator.
- If the device is a HeartStart OnSite defibrillator, download the data from internal memory to a PC running HeartStart Event Review data management software, version 3.0 or higher. (Event Review software was previously sold as CodeRunner.) Using Event Review, erase the defibrillator's memory to ensure adequate capacity for recording data upon its next use.
- Run a battery insertion test and replace the battery if indicated.
- Return the defibrillator to its designated area for future use.

13.6 *Post-Incident Critique.* A Post-Incident Critique form shall be completed at the conclusion of each drill and each real SCA event to evaluate the response model and debrief the ERT or Early Defibrillation Response Team. The completed form shall be discussed in the debriefing meeting following the drill or event. Further discussion shall be conducted as necessary. In either event, written copies of the form shall be distributed to all necessary parties within the Branch organization for administrative review.

14. Data Collection

- 14.1 *Early Defibrillation Incident Report and Incident Data.* Data collection begins with the Early Defibrillation Incident Report and data from the defibrillator. These two components are to be provided to the Early Defibrillation Program Coordinator as soon as possible.
- 14.2 *Data Gathering.* If the defibrillator used is a ForeRunner/FR2/FR2+, remove the data card. Conduct the data retrieval according to the instructions from the AED FR2 manual. After removing the data card from the defibrillator, either install a replacement card in the defibrillator prior to returning the device to service, or reinstall the original data card after all data from the incident has been downloaded. If the defibrillator used is a HeartStart OnSite Defibrillator, transfer the defibrillator itself to the Early Defibrillation Program Coordinator for data download.

- 14.3 *Data Transfer.* The incident data is to be provided to the Early Defibrillation Program Coordinator according to the manufactures guidelines. The data will be reviewed by both the Corporate Safety Director and or Medical Director in order to assess responder performance and for quality assurance.
- 14.4 *Data Download Procedure.* Data gathered from the event may be downloaded to a computer running HeartStart Event Review data management software to render the data into a readable format for analysis. Data download can be conducted by the Early Defibrillation Program Coordinator or delegated to other personnel under the supervision of the Early Defibrillation Program Coordinator. Once the data is downloaded, it can be transferred via file format or printed in a hardcopy format.
- 14.5 *Data Storage.* Downloaded data and post-incident critique forms are to be stored in a secure location under the direct supervision of the Early Defibrillation Program Coordinator or Medical Director.

15. Training and Drill Procedures

See Appendix F for the *Post-Incident Critique Form*.

- 15.1 *Defibrillation Training Requirements.* The ERT or Early Defibrillation Response Team members shall be responsible for maintaining all required training. The Early Defibrillation Program Coordinator shall track training requirements and notify each team member of any deficiencies.
- 15.2 *AED Response Plan Drills.* Periodic drills of the early defibrillation response plan and protocols shall be conducted to evaluate the effectiveness of the early defibrillation program. These drills may comprise a live re-enactment of an SCA event or classroom discussion of the overall response plan and protocols. Additional critique discussions with the ERT or Early Defibrillation Response Team may also follow any actual defibrillation events.

APPENDICES

The following appendices are provided in a format suitable for copying and posting as appropriate:

- A. Early Defibrillation Response Team Roster**
- B. Defibrillator Location and Equipment Sheet**
- C. Periodic Maintenance Checklist**
- D. Early Defibrillation Response Protocol and Flow Chart**
- E. Defibrillation Incident Report**
- F. Post-Incident Critique Form**

APPENDIX A
Early Defibrillation response Team Roster

Early Defibrillation Response Team Roster for the Branch
 (Complete for each site.)

Medical Director		AED Coordinator	
Name		Name	
Phone #		Phone #	
Pager #		Pager #	
Radio #		Radio #	
Address		Location	

Team Members

Name		Name	
Phone #		Phone #	
Pager #		Pager #	
Radio #		Radio #	
Location		Location	
Name		Name	
Phone #		Phone #	
Pager #		Pager #	
Radio #		Radio #	
Location		Location	
Name		Name	
Phone #		Phone #	
Pager #		Pager #	
Radio #		Radio #	
Location		Location	
Name		Name	
Phone #		Phone #	

Pager #		Pager #	
Radio #		Radio #	
Location		Location	

APPENDIX B
Defibrillator Location and Equipment Sheet

Defibrillator and Equipment Sheet

Defibrillator Model # Defibrillator Serial #	Location	Accessories

APPENDIX C
Periodic Maintenance Checklist

Periodic Maintenance Checklist

Defibrillator Location:							
Defibrillator Model Number:				Defibrillator Serial Number:			
Date							
Scheduled Frequency							
Defibrillator Condition No dirt/damage/contamination							
Status Indicator Flashing black hourglass or blinking green Ready light; self-test passed.							
Supplies 2 sets adult pads, sealed, undamaged, unexpired							
1 set infant/child pads, sealed, undamaged, unexpired*							
Ancillary supplies (hand towel, scissors, razor, pocket mask)							
Spare battery, within "Install Before" date							
Data cards, undamaged, and spare data card tray							
Other: _____							
Other: _____							
Other: _____							
Inspected by (initials)							
Remarks, Problems, Corrective Actions							

* If defibrillation of infants or children under 8 years or 55 pounds may be required.

APPENDIX D
Early Defibrillation Response Protocol and Flow Chart

Early Defibrillation Response Protocol

The following early defibrillation response protocol is provided as a sample. Once your organization's early defibrillation response protocol is approved by the Medical Director, it is required that your facility's trained responders follow the steps established by that protocol when responding to a victim of sudden cardiac arrest with the HeartStart Defibrillator. The protocol should be reviewed on an annual basis, and revisions to the protocol made as necessary.

Conduct an initial assessment:

- ❑ Assess for scene safety; use universal precautions.
- ❑ Assess patient for unresponsiveness.
- ❑ If unresponsive, activate EMS and in-house emergency plan. Call 911 or designated number: _____. **Call for defibrillator.**

Assess breathing

- ❑ Open airway
- ❑ Look, listen and feel for breathing
- ❑ If breathing is absent, deliver two rescue breaths

Assess circulation

- ❑ If signs of circulation are absent, provide CPR. Continue CPR until defibrillator arrives.

Begin defibrillation treatment

- ❑ As soon as the defibrillator is available, turn it on and follow the prompts. If the patient is an infant or child that is less than 8 years old or 55 pounds, use Infant/Child defibrillator pads if available.
- ❑ Shave chest with disposable razor if indicated. Discard razor in a safe manner. Wipe chest if it is wet.
- ❑ Apply defibrillation pads. Look at the icons on the self-adhesive defibrillation pads, peel one pad at a time and place it as shown in its illustration. Ensure pads are making good contact with the patient's chest. Do not place the pads over the nipple, medication patches, or visible implanted devices.
- ❑ Deliver a shock to the patient when advised by the defibrillator, after first clearing the patient area. Administer additional shocks as prompted by the defibrillator, until it advises no shock or has delivered a series of three consecutive shocks and prompts the responder to check the patient.

- ❑ When advised by the defibrillator, check the patient's airway, breathing, and signs of circulation and initiate CPR if circulation is absent.
- ❑ Continue to perform CPR until otherwise prompted by the defibrillator or EMS personnel.
- ❑ Continue to follow the HeartStart Defibrillator prompts until EMS arrives.

When EMS arrives

Responders working on the victim should document and communicate important information to the EMS provider, such as:

- ❑ Victim's name
- ❑ Known medical problems, allergies or medical history
- ❑ Time the victim was found
- ❑ Initial and current condition of the victim
- ❑ Information from the ForeRunner/FR2/FR2+ Defibrillator's screen or by pushing the blue i-button on the HeartStart OnSite Defibrillator:
 - ❑ Number of shocks delivered
 - ❑ Length of time defibrillator has been on
- ❑ Assist as requested by EMS providers

Post-Use Procedure

- ❑ If using the FR2, remove the data card while transferring care of patient to EMS. Give the data card and the Defibrillation Incident Report to the Early Defibrillation Program Coordinator within 24 hours post-event for evaluation. [If using the OnSite, take the defibrillator and the Defibrillation Incident Report to the Early Defibrillation Program Coordinator within 24 hours post-event for downloading data from internal memory.](#)
- ❑ Early Defibrillation Program Coordinator: notify early defibrillation program Medical Director.
- ❑ Check the defibrillator and replace any used supplies as soon as possible following the event so that the defibrillator may be returned to service. Perform the after-patient-use maintenance on the defibrillator.
- ❑ Early Defibrillation Program Coordinator: conduct employee incident debriefing, as needed.
- ❑ Early Defibrillation Program Coordinator: complete the incident follow-up report and forward to Medical Director.

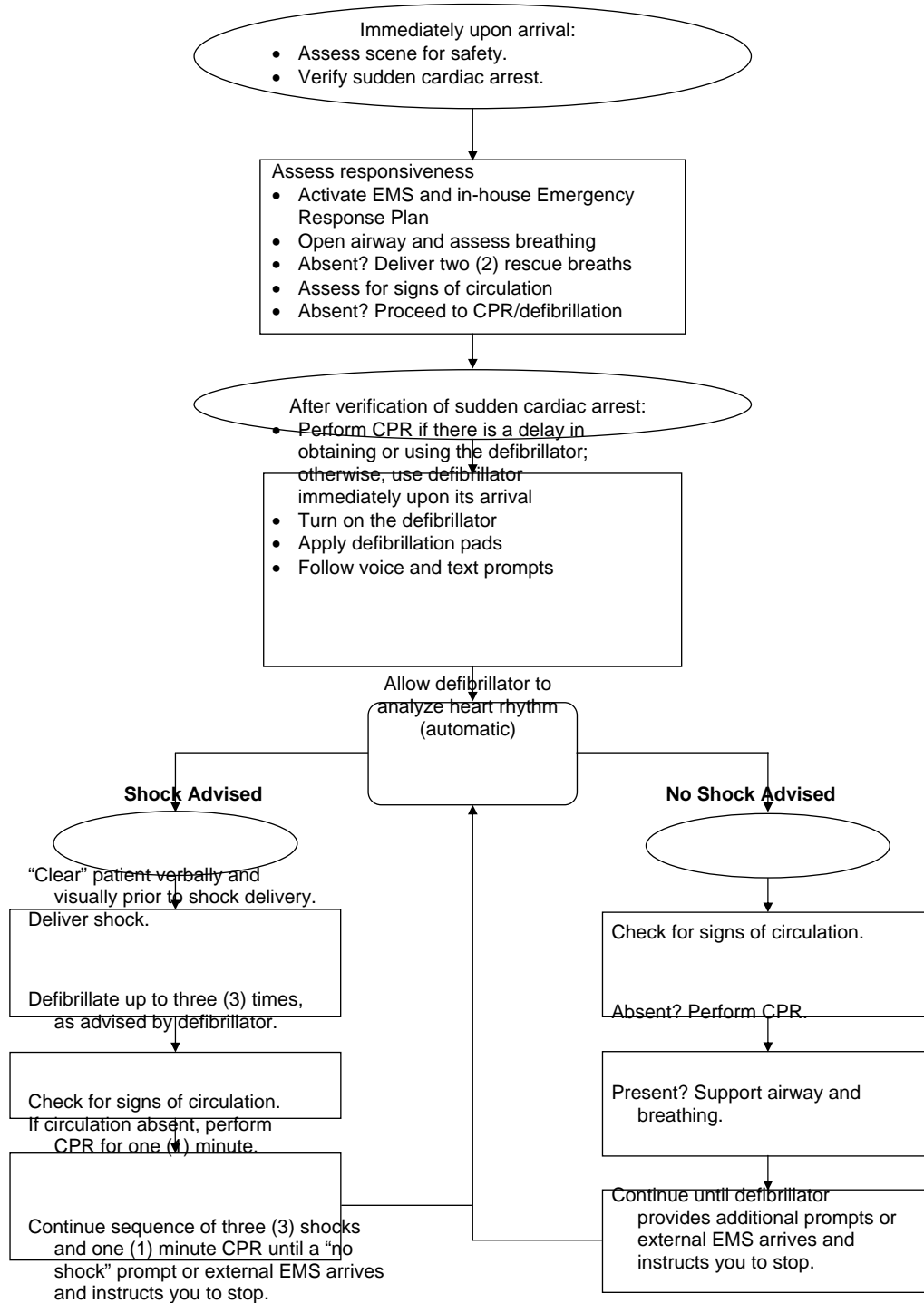
Defibrillator Maintenance after Each Patient Use

- ❑ Inspect the exterior, pads connector port or pads cartridge well for dirt or contamination.

- ❑ Check supplies, accessories and spares for expiration dates and damage.
- ❑ Check operation of the HeartStart Defibrillator by removing and reinstalling the battery and running a battery insertion test.
- ❑ If using a ForeRunner/FR2/FR2+ Defibrillator, remove data card and replace it with a spare. Apply a patient ID label to the used data card and deliver to the appropriate personnel. If using a HeartStart OnSite Defibrillator, download data from defibrillator to a PC running HeartStart Event Review data management software then erase the defibrillator memory to ensure adequate capacity for recording data when next used.

_____	_____
Medical Director	Date
_____	_____
Corporate Safety Director	Date
_____	_____
Other	Date

Early Defibrillation Response Protocol Flow Chart



APPENDIX E
Early Defibrillation Incident Report

Early Defibrillation Incident Report

Incident Details

Incident ID: _____ Incident Date: _____

Incident Time: _____

Shocks Delivered: _____ Device ID: _____

Device Type: _____

Patient Detail

Last Name: _____ First Name: _____ Middle Initial: _____

DOB: _____ Age: _____

Gender: _____ Race: _____

Patient ID: _____

Additional Information

Defibrillator Operator: _____

Comments: _____

Report Completed by: _____ Date: _____

NOTE: Use back of this sheet for additional comments.

Routing:

AED Coordinator

Medical Director

Other

APPENDIX F
Post-Incident Critique Form

Post-Incident Critique Form

Patient Data

Patient Name: Incident Date: _____
Employee Number: DOB: Age: _____ Sex: _____
.....

Call Notification (include hour : minute : second for times recorded)

How was Team alerted? Time alerted: _____ : _____ : _____
How was Team dispatched? Dispatch time: _____ : _____ : _____
Who initiated 9-1-1 call? Time called: _____ : _____ : _____
ERT or AED Team arrival time: _____ : _____ : _____ AED arrival time: _____ : _____ : _____

SCA Event Report

Collapse/recognition: ___ : ___ : _____ Bystander CPR started:
..... ___ : ___ : ___

9-1-1 called: ___ : ___ : _____ EMS dispatched:
..... ___ : ___ : ___

ERT Team arrival:..... ___ : ___ : _____ AED arrival:
..... ___ : ___ : ___

Patient unresponsive:..... Yes No _____ Documented time:
..... ___ : ___ : ___

Rescue breathing started:..... Yes No _____ Documented time:
..... ___ : ___ : ___

CPR started:..... Yes No _____ Documented time:
..... ___ : ___ : ___

AED applied:..... Yes No _____ Documented time:
..... ___ : ___ : ___

First shock advised:..... Yes No _____ Documented time:
..... ___ : ___ : ___

Additional shocks: Yes No _____ Total # of shocks delivered:
.....

Return of circulation (pulse):..... Yes No _____ Documented time:
..... ___ : ___ : ___

Return of respiration:..... Yes No _____ Documented time:
..... ___ : ___ : ___

EMS scene arrival: ___ : ___ : _____ EMS arrival at patient:
..... ___ : ___ : ___

Patient condition at EMS hand-off:

Care Given by EMS: ALS BLS _____ Patient transported:
..... ___ : ___ : ___

Transported to:

Patient condition at hospital:

Report Completed by: Date:

