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**SUDDEN CARDIAC EMERGENCY RESPONSE PLAN
SPORTS COMPLEX SITE**
(A separate plan must be created for each site)

Purpose

- 1) This document provides direction and detailed guidance for responding to a sudden cardiac arrest (SCA) through a Cardiac Emergency Response Plan (CERP). This plan outlines Cardiac Emergency Response Teams (CERTs), AED maintenance and locations, and related staff training/certification. This document does not replace any district policies or local, state, or national regulations.
- 2) In the United States, it is estimated that annually 356,000 adults experience out-of-hospital cardiac arrest as well as 23,000 pediatric cardiac arrests (Mozaffarian, D, 2015; Okubo, M et al, 2020). Although approximately 90% of those people will not survive the event, the likelihood of survival increases with prompt intervention. According to the American Heart Association (AHA), early intervention that includes CPR and restoration of normal heart rhythm with the use of an AED increases the chance of survival.

Developing a Cardiac Emergency Response Team (CERT)

- 1) Designate one person as the Cardiac Emergency Response Team Coordinator who oversees CPR-AED program activities, training, education, and evaluation.
- 2) All individuals on CERT should have current CPR/AED training from a nationally recognized organization.
- 3) Designate one person to call 9-1-1 and direct EMS to the location of the sudden cardiac arrest (SCA).

Best Practice Considerations:

- a) Consider having the Cardiac Emergency Response Team comprise of at least 5 people or 10% of staff.
 - a. In recognition of periodic absences and overall staff turnover, a robust team of individuals trained to be part of the CERT is essential to ensure uninterrupted response activities.
- b) CERT members should be able to step away from their tasks to assist when CERP is activated or have coverage for their classrooms.
- c) A list of these individuals and their CPR certifications should be maintained on-site in a readily accessible area.
- d) Consider medical coverage continues to be provided at the athletic event if continued after the event.

Automated External Defibrillators (AEDs) – Placement, Installation and Maintenance

- 1) Minimum recommended number of AEDs for Caney Valley Elementary include inside the building and outside the building:

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- a) *Inside the building* – The number of AEDs shall be sufficient to enable a person to retrieve an AED and deliver it to any location within the building, ideally within 3 minutes of being notified of a possible cardiac emergency. AED should be clearly marked in a backpack or hard case.

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- b) *Outside the building* (e.g., on school grounds, venues, or athletic fields) – The number of AEDs, either stationary or in the possession of an on-site athletic trainer, coach, or other qualified person, shall be sufficient to enable the delivery of an AED to any location outside of the building including any venue, athletic field, or school grounds, ideally within 3 minutes of being notified of a possible cardiac emergency. AED should be clearly marked in a backpack or hard case.
- 2) Regularly check and maintain each AED in accordance with the AED's operating manual and maintain a log of the maintenance activity including summer months when school is not in session.
 - 3) CERT coordinator should be responsible for verifying equipment readiness and for maintaining maintenance activity.
 - 4) Additional Resuscitation Equipment: A resuscitation kit shall be connected to the AED carry case. The kit shall contain latex-free gloves, razor, scissors, towel, antiseptic wipes, a CPR barrier mask, and consider an extra set of AED pads.
 - 5) AEDs should not be locked in an office or stored in a location that is not easily and quickly accessible at all times.
 - 6) AEDs shall be accessible for responding to a cardiac emergency, during day and night sports activities, after-school, or work activities, in accordance with this CERP.
 - 7) Each AED should have one set of AED pads connected to the device and one spare set.
 - 8) Signage: All AEDs should have clear AED signage to be easily identified. These should be visible from the normal path of travel. A projecting (three-dimensional) universal AED sign shall be installed above cabinet or bracket/wall rack clearly marking the location of AED(s).
 - 9) Recommend removing warning "for professional use only" on AED cabinets as AEDs provide instructions for use.
 - 10) Locations of the AEDs are to be listed in the "Protocol for Cardiac Emergency Response Team" and Building Location Information, AED locations, and School Maps.

Best Practice Considerations:

- a) Back-up AEDs – One or more AEDs shall be held in reserve for use as a replacement for any AED which may be out-of-service for maintenance or other issues. The back-up AED(s) should also be available for use when traveling to offsite locations. If unable to have a back-up AED, have a plan on what AED you will use if an AED is out of service.

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- b) AEDs to be installed using a cabinet or bracket/wall rack approved for such purpose and be surface mount or wall recessed.
 - i. Regardless of which mount is chosen, AEDs shall be placed so that the AED's readiness indicator faces outward.

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- ii. During installation, it is important to make sure that screws, bolts and wall anchors will not penetrate electrical wires or pipes inside wall.
 - iii. Installation Height: Placed at an unobstructed height of forty-eight (48) inches from the floor (it may be lower) to provide optimum accessibility in compliance with American Disabilities Act (ADA). ADA Accessibility Guidelines (ADAAG) specify that objects such as automated external defibrillator wall cabinets shall not protrude more than 4 inches from the wall into walks, corridors, passageways, or aisles.
- c) Keep copies of event documentation with AED and first responder kits.
- d) CERT coordinator should register their AED with the manufacturer and supplier to receive notifications of potential recalls or alerts.
- e) Best practice is for all schools, regardless of grade levels served, to have both pediatric and adult pads available. Apply pads based on manufacture recommendations. Make sure pads do not touch.
- f) If only adult pads are available: adult AEDs may be used on children. If the pads are too large for standard positioning without touching, Pads can be placed with one pad on the center of the chest between the nipples and the other pad on the back of the child between their shoulder blades.
- g) If pediatric pads are available: the small pads or child key/switch will deliver a shock with a lower energy dose than the larger pads will. If a child is very small, you may need to put one pad on the child's chest and the other on the child's back.
- h) Consider having an AED readily available on the sidelines of sporting events and practices.
- i) Consider posting AHA Simplified Adult BLS diagram from the AHA near AED cabinet (see appendix).

Communication of CERP

- 1) The Cardiac Emergency Response Plan (CERP) should be posted broadly in places such as (but not limited to):
 - a) In each classroom, cafeteria, restroom, health room, break room and in all offices.
 - b) Adjacent to each AED.

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- c) In the gym and in all other indoor locations where athletic activities take place.
 - d) At other strategic locations on school campus, including outdoor physical education and athletic venues and facilities.
 - e) Attached to all portable AEDs.
- 2) The Cardiac Emergency Response Plan should be distributed to:

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- a) All staff and administrators at the start of each school year, with updates distributed as made. In workplace and recreation centers, the CERP should be made available annually and when updates are made.
- b) All staff should be educated on the Cardiac Emergency Response Plan in their school yearly.
- c) New staff members should receive CERP in their orientation materials.

Best Practice Considerations:

- a) A copy of the Cardiac Emergency Response Protocol should be provided to any organization using the school. The organization using the facility should then adapt the CERP to the needs of their group/organization.
- b) Consider having a plan in place for after-hour events or off-site field trips.
- c) Consider a modified Cardiac Emergency Response Protocol which takes into consideration the nature and extent of the use and shall meet the spirit and intent of this Protocol to ensure that preparations are made to enable a quick and effective response to a cardiac emergency on-site after standard business hours.
- d) A facility user or renter should have their own plan, especially those using facility after school hours. A template letter is available for schools to provide to facility users and renters:
<https://parentheartwatch.egnyte.com/dl/Ead1QYTXCc>

Training in Cardiopulmonary Resuscitation (CPR) and AED Use

- 1) Staff training
 - a) A sufficient number of staff (in addition to the school nurse or safety coordinator) should be trained in cardiopulmonary resuscitation (CPR) and in the use of an AED. (It is recommended that at a minimum, at least 10% of staff, 50% of coaches, and 50% of physical education staff in schools should have

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current CPR/AED certification.) Training shall be renewed at least every two years. Absolute minimum number is 3 to ensure CPR is initiated, AED is retrieved, and 911 is notified.

- b) The school should designate the person responsible for coordinating staff training and the medical contact for AEDs, if available.
- c) Training may be traditional classroom, on-line or blended instruction but should include cognitive learning, hands-on practice, and testing.
 - i) Consult local regulations to ensure your plan meets any additional local requirements.
- d) All staff, regardless of if they are a CERT member, should receive annual training on SCA and understand how to recognize a cardiac arrest, how to initiate the response team, and where the AEDs in the building are located.

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2) Cardiac Emergency Response Drills:

- a) Cardiac Emergency Response Drills are an essential component of this Plan. The site should perform at least 2 successful Cardiac Emergency Response Drills each year with the participation of staff, safety officials and other targeted responders. A successful Cardiac Emergency Response Drill is defined as full and successful completion of the Drill in 5 minutes or less. One drill may include a tabletop exercise with all the staff and CERP members present.
- b) Include as many other people as possible (staff, faculty, coaches, students, parents, etc.) who can receive additional CPR/AED education and awareness of the plan.

Best Practice Considerations:

- a) Consider utilizing a checklist outlining response steps to ensure all actions are being completed. An observer can time the event and check off steps as they occur.
- b) Save time after the drill to debrief with staff about how the response can be improved, if the CERP needs to be edited, and that the team feels confident in a real response.

Local Emergency Medical Services (EMS) Integration with the School Plan

- 1) Provide a copy of this Plan to local emergency response and dispatch agencies (e.g., the 9-1-1 response system), which may include local police and fire departments and local Emergency Medical Services (EMS).
- 2) The development and implementation of the Cardiac Emergency Response Plan shall be coordinated with the local EMS Agency, campus safety officials, on-site first responders, administrators, athletic trainers, school nurses, and other members of the school and/or community medical team.

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- 3) Work with local emergency response agencies to 1) coordinate this Plan with the local emergency response system and 2) to inform local emergency response system of the number and location of on-site AEDs.

Best Practice Considerations:

- a) When possible, invite local EMS and first responders to the Cardiac Emergency Response Drills. They can give meaningful feedback and provide information about realistic situations.
- b) Speak with your local EMS team to see if training supplies are available for education and to use for the CERP drill.

Conduct Practice Drills

- 1) Please refer to the CERP Drill section on the [American Heart Association page](#) for more information.

Annual Review and Evaluation of the Plan

- 1) Conduct an annual internal review of the Cardiac Emergency Response Plan (CERP) for schools. The annual review should focus on ways to improve the response process, to include:

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- a) A *post-event review* following an event. This includes review of existing documentation for any identified cardiac emergency that occurred at the location or at any sanctioned function. There should be a designated person responsible for establishing the documentation process.
- 2) Post-event documentation and action shall include the following:
- a) A contact list of individuals to be notified in case of a cardiac emergency.
 - b) Determine the procedures for the release of information regarding the cardiac emergency.
 - c) Date, time, and location of the cardiac emergency and the steps taken to respond to the cardiac emergency.
 - d) The identification of the person(s) who responded to the emergency.
 - e) The outcome of the cardiac emergency. This shall include but not be limited to a summary of the presumed medical condition of the person who experienced the cardiac emergency to the extent that the information is publicly available. Personal identifiers should not be collected unless the information is publicly available.
 - f) An evaluation of whether the CERP was sufficient to enable an appropriate response to the specific cardiac emergency. The review shall include recommendations for improvements to the Plan and in its implementation if the plan was not optimally suited for the specific incident. The post-event review may

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include discussions with medical personnel (ideally through the school's medical counsel) to help in the debriefing process and to address any concerns regarding on-site medical management and coordination.

- g) An evaluation of the debriefing process for responders and post-event support. This shall include the identification of aftercare services including aftercare services and crisis counselors.
- h) A review of the documentation for all Cardiac Emergency Response Drills performed during the year. Consider pre-established Drill report forms to be completed by all responders.
- i) A determination, at least annually, as to whether additions, changes or modifications to the Plan are needed. Reasons for a change in the Plan may result from a change in established guidelines, an internal review following an actual cardiac emergency, or from changes in facilities, equipment, processes, technology, administration, or personnel.

Best Practice Considerations:

- a) Consider before/after school events.

Activation of Cardiac Emergency Response Team During an Identified Cardiac Emergency

1. Activate the Cardiac Emergency Response Team immediately when a cardiac emergency is suspected.

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2. The Protocol for responding to a cardiac emergency should be posted and readily accessible to anyone.

Best Practice Considerations:

- a) All Cardiac Emergency Response Team members should be able to step away from their tasks without risking harm to other students.
- b) All members should be alerted uniformly via overhead page, radio, text, or phone.

Sudden cardiac arrest events can vary greatly. All staff and Cardiac Emergency Response Team (CERT) members must be prepared to perform the duties outlined below. Immediate action is crucial in order to successfully respond to a cardiac emergency. Consideration should be given to obtaining on-site ambulance coverage for high-risk athletic events. One should also identify the closest appropriate medical facility that is equipped in advanced cardiac care.

Follow these steps in responding to a suspected cardiac emergency:

- 1) Recognize the following signs of sudden cardiac arrest and act quickly in the event of one or more of the following:
 - a. The person is not moving, unresponsive, or unconscious.

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- b. The person is not breathing normally (has irregular breaths, gasping or gurgling, or is not breathing at all).
 - c. The person appears to be having a seizure or is experiencing convulsion-like activity. Cardiac arrest victims commonly appear to be having convulsions. If it's a true seizure, the AED will not deliver a shock.
 - d. If the person received a blunt blow to the chest, this can cause cardiac arrest, a condition called commotio cordis. The person may have the signs of cardiac arrest described above and is treated the same.
- 2) Facilitate immediate access to professional medical help:
 - a. Call 9-1-1 as soon as you suspect a sudden cardiac arrest. Provide the school address, cross streets, and patient's condition. Remain on the phone with 9-1-1. (Bring your mobile phone to the patient's side and put on speaker, if possible.) Give the exact location and provide the recommended route for ambulances to enter and exit and escort to the victim.
 - b. Immediately contact the members of the Cardiac Emergency Response Team (CERT) using your school's designated communication system (i.e. walkie talkies, overhead page).
 - c. Give the exact location of the emergency. ("Mr. /Ms. ____ Classroom, Room # ____, gym, football field, cafeteria, etc."). Be sure to let EMS know which door to enter. Assign someone to go to that door to wait for and flag down EMS responders and escort them to the exact location of the patient.
 - d. If you are a CERT member, proceed immediately to the scene of the cardiac emergency.

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- e. The closest team member should retrieve the automated external defibrillator (AED) en route to the scene and leave the AED cabinet door open as a signal that the AED was retrieved.
- 3) Start CPR
 - a. Begin continuous chest compressions and have someone retrieve the AED if not at the scene. Referred to simplified adult BLS graphic below.
 - i. Press hard and fast in the center of the chest, at 100-120 compressions per minute. (Faster than once per second, but slower than twice per second.) Use 2 hands: The heel of one hand and the other hand on top (or one hand for children under 8 years old), pushing to a depth at least 2 inches (or 1/3rd the depth of the chest for children under 8 years old). Follow the 9-1-1 telecommunicator's instructions, if provided. ii. If you are able and comfortable giving rescue breaths, please use a barrier and provide 2 rescue breaths after 30 compressions.
- 4) Use the nearest AED:

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- a. When the AED is brought to the patient's side, press the power-on button, and attach the pads to the patient as shown in the diagram on the pads. Then follow the AED's audio and visual instructions. If the person needs to be shocked to restore a normal heart rhythm, the AED will deliver one or more shocks. Be familiar with your school's AED and if you will need to press the shock button or if it will deliver automatically.
 - i. *Note:* The AED will only deliver shocks if needed; if no shock is needed, no shock will be delivered.
 - b. Minimize interruptions of compressions when placing AED pads to patient's bare chest.
 - c. Continue CPR until the patient is responsive or a professional responder arrives and takes over. Make sure to rotate persons doing compression to avoid fatigue.
- 5) Transition care to EMS.
 - a. Once EMS arrives, there should be a clear transition of care from the CERT to EMS.
 - b. Team focus should now be on assisting EMS safely out of the building/parking lot.
 - c. Provide EMS a copy of the patient's emergency information sheet.
- 6) Action to be taken by Office / Administrative Staff:
 - a. Confirm the exact location and the condition of the patient.
 - b. Activate the Cardiac Emergency Response Team and give the exact location.
 - c. Confirm that the Cardiac Emergency Response Team has responded.
 - d. Confirm that 9-1-1 was called. If not, call 9-1-1 immediately.

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- e. Assign a staff member to direct EMS to the scene.
- f. Perform "Crowd Control" – directing others away from the scene.
- g. Notify other staff: school nurse, athletic trainer, athletic director, safety director, safety manager, and or sports facilities manager, etc.
- h. Consider medical coverage to continue to be provided at the athletic event if continued after the event.
- i. Consider having the students stay in place (i.e. delaying class changes or hallway traffic, dismissal, recess, or other changes) to facilitate CPR and EMS functions.

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- j. Designate people to cover the duties of the CPR responders.
 - k. Copy the patient's emergency information for EMS.
 - l. Notify the patient's emergency contact (parent/guardian, spouse, etc.).
 - m. Notify faculty and students, staff, employees, and sports attendees when to return to the normal schedule.
 - n. Contact school district administration, human resources and/or sports facility management.
- 7) Debrief
- a. Discuss the outcome of the cardiac emergency. This shall include but not be limited to a summary of the presumed medical condition of the person who experienced the cardiac emergency to the extent that the information is publicly available. Personal identifiers should not be collected unless the information is publicly available.
 - b. An evaluation of whether the CERP was sufficient to enable an appropriate response to the specific cardiac emergency. The review shall include recommendations for improvements to the Plan and in its implementation if the plan was not optimally suited for the specific incident. The post-event review may include discussions with medical personnel (ideally through the school's medical counsel) to help in the debriefing process and to address any concerns regarding on-site medical management and coordination.
 - c. An evaluation of the debriefing process for responders and post-event support. This shall include the identification of aftercare services including aftercare services and crisis counselors.

IMPORTANT: This is a resource document intended for use in formulating a plan for adoption by a school/school district. Medical and legal counsel for the school/school district should review this Plan before implementation. It is the responsibility of the school/school district to ensure that the Cardiac Emergency Response Plan as adopted is consistent with local, state, and federal law.

LEGAL REFERENCE: 70 O.S. § 24-156