

SECTION: OPERATIONS

TITLE: AUTOMATED EXTERNAL DEFIBRILLATOR (AED)

ADOPTED: January 16, 2003

REVISED: January 11, 2007

# Palmyra Area School District

822. AUTOMATED EXTERNAL DEFIBRILLATOR (AED)	
<b>1. Purpose</b>	<p>The Board is committed to providing a healthful environment. The purpose of this policy is to be prepared to treat victims who experience sudden cardiac arrest (SCA).</p> <p>The automatic external defibrillator will enable trained responders in the school setting to deliver early defibrillation to victims in the first critical moments after a sudden cardiac arrest. Responder's use of the AED should not replace the care provided by emergency medical services (EMS) providers, but it is meant to provide a lifesaving bridge during the first few critical minutes it takes for EMS personnel to arrive. Upon arrival of the EMS providers, patient care should be transferred.</p>
<b>2. Definition</b>	<p>The <b>Automated External Defibrillator (AED)</b> system is a program that includes a medical emergency response team (MERT). The MERT team shall consist of staff and community members who volunteer to be part of the team. Each member must be currently certified in CPR and AED by participating successfully in a nationally recognized training program, to use the AED on a victim. Written guidelines for emergencies related to use of AED's and CPR are provided to all MERT members along with annual training and re-training for new and current members.</p>
<b>3. Guidelines</b>	<p>The AED system will be facilitated in accordance with approved District procedures. The AED units are owned by the District and will be available in secure and accessible locations.</p> <p>The medical advisor of the AED program is the school physician. The medical advisor of the AED program is responsible for writing a prescription required to purchase AED's and reviewing and approving guidelines for emergency.</p>
<b>4. Responsibility</b>	<p>The AED may be used by all members of the District's (MERT) who have successfully completed training or any trained volunteer responder who has successfully completed an approved CPR and AED training program and has a current successful course completion card. The following procedures should be followed:</p> <p>Immediately upon arrival, check the scene for safety, then verify sudden cardiac arrest:</p>

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1. Verify unconsciousness.
2. If no response, call, or have someone else call 911.
3. Open airway.
4. Verify no breathing.
5. Deliver two (2) rescue breaths.
6. Verify no carotid pulse.

### Contraindications

After verification of sudden cardiac arrest:

1. Perform CPR if there is a delay in obtaining or using the AED.
2. Move patient if laying on or near metal.
3. Turn on the AED.
4. Bare and prepare chest (cut or tear away clothing, if excessive chest hair, shave or clip; dry the chest if wet - **never use alcohol pads**).
5. Follow verbal and visual prompts.
6. Apply defibrillation pads as per diagram on machine.

Allow AED to analyze - if shock advised:

1. Clear patient verbally and visually prior to shock delivery.
2. Deliver a shock when prompted by pushing the "shock" button.
3. Defibrillate up to three (3) times.
4. Check pulse - if absent, perform CPR for 1 minute; continue sequence of 3 shocks and 1 minute or CPR until a "no shock" prompt or EMS arrives.

If no shock advised:

1. Check pulse - if no pulse, perform CPR until the AED reanalyzes, if pulse is present assess vital signs, support airway and breathing until EMS arrives.
2. Continue until AED prompts, "Do not touch the patient..." following instructions, or until EMS arrives.

Post-use procedure:

1. The AED Coordinator will do the following after any AED use:
  - a. Notify Medical Director.
  - b. Remove used PC data card and replace it with a spare. Label used PC data card with patient information and deliver to appropriate personnel.
  - c. Conduct employee incident debriefing, as needed.
  - d. Complete incident report.
  - e. Restock any used electrode pads, batteries, razors or gloves. Inspect unused supplies for any damage or old expiration dates.
  - f. Remove and replace battery in the AED and do a Battery Insertion Test prior to replacing the AED into service.
  - g. Clean the AED if needed.
  - h. Inspect the exterior and connector for dirt or contamination.