



Procedure

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Haddonfield
Board of Education

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Use of Defibrillator(s)

5300 Use Of Automated External Defibrillator(s)

The Haddonfield Board of Education recognizes that more than 350,000 Americans die annually from out-of hospital sudden cardiac arrest. Many die needlessly because life saving defibrillators is not immediately available. The American Heart Association estimates that almost 100,000 deaths could be prevented each year if defibrillators were more widely available to designated responders.

The recommendation from the American Heart Association Chain of Survival includes early defibrillation as a critical link in the survival of sudden cardiac arrest. Brain death and permanent death start to occur in just four to six minutes after someone experiences cardiac arrest. Cardiac arrest can be reversed in most victims with defibrillation if administered within a few minutes. The victim's chances of survival are reduced by 7-10% with every minute that passes. Few attempts at resuscitation succeed after 10 minutes.

Automated external defibrillator (AED) or defibrillator means a medical device heart monitor and defibrillator that:

- A. Has received approval of its pre-market notification filed pursuant to 21 U.S.C. s.360 (k) from the United States Food and Drug Administration
- B. Is capable of recognizing the presence or absence of ventricular fibrillation or rapid ventricular tachycardia, and is capable of determining, without intervention by an operator, whether defibrillation should be performed; and
- C. Upon determining that defibrillation should be performed, automatically charges and requests delivery of an electrical impulse to an individual's heart.

The Haddonfield School District will maintain in a central location an automated external defibrillator (AED) on the premise of Haddonfield Memorial High School, Haddonfield Central/Middle School, Tatem School, Elizabeth Haddon School, the Football Stadium, Radnor Field and Scout Field. The automated external defibrillators will be maintained and tested in accordance with operational guidelines of the manufacturer. Defibrillators used for children ages 1 through 8 must have the appropriate modifications/equipment made to the automatic external defibrillator by the manufacturer.

The automated external defibrillator (AED) will be kept on school property and will not accompany EMS personnel to a hospital emergency room.

In accordance with P.L. Chapter 34 and under the direction of the school physician, a Haddonfield Board of Education employee may use the automated external defibrillator (AED) under the following circumstances:



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- A. The Haddonfield Board of Education employee has successfully completed and holds a current certification from the American Red Cross, American Heart Association or other training program recognized by the Department of Health and Senior Services in cardio-pulmonary resuscitation and use of a defibrillator.
- B. The victim is in cardiopulmonary arrest as determined by unconsciousness, absent pulse, and no spontaneous breathing.
- C. "911" is activated
- D. Cardiopulmonary Resuscitation (CPR) is performed until the automated external defibrillator (AED) is brought to the scene.
- E. An AED Incident Report is filled out by the employee once the victim has been transferred to the care of Emergency Medical Services (EMS).
- F. The school nurse notifies the school physician of the use of the automated external defibrillator (AED) after the victim has been transferred to the care of Emergency Medical Services (EMS)

The use of automated external defibrillators is contraindicated under the following circumstances:

- A. Consciousness of victim
- B. Presence of breathing in victim
- C. Presence of detectable pulse in victim
- D. Children under the age of "1." Defibrillators used on children ages 1 through 8 must have the appropriate modifications/equipment provided by the manufacturer.
- E. If victim is lying in water
- F. If victim is lying on a metal surface

Any person or entity who, in good faith, acquires or provides a defibrillator, renders emergency care or treatment by the use of a defibrillator or supervises such care or treatment and, who has complied with the requirements of P.L. Chapter 34, shall be immune from civil liability for any personal injury as a result of such care or treatment, or as a result of any acts or omissions by the person or entity in providing, rendering, or supervising the emergency care or treatment. The immunity provided shall include the prescribing licensed physician and the person or entity who provided the training in cardio-pulmonary resuscitation and use of the defibrillator.



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References:

- P.L. Chapter 34
- American Heart Association “2001 Heart and Stroke Statistical Update”
- American Heart Association Instructor’s Manual Heartsaver AED
- Wolkenheim, Becki Jo Hirschy, RNMS, Public Access Defibrillation in Schools Project Adam
©2000, Children’s Hospital of Wisconsin
- Medtronic Physio-Control Lifepak 500 Operating Instructions Manual

A. Location, Maintenance and Testing of AED

1. The Automated External Defibrillator (AED) and Emergency Care Kit will be located together in the High School, Central/Middle School, Tatem School, Elizabeth Haddon School, the Football Stadium, Radnor Field and Scout Field in a central location, accessible to all.
2. Maintenance and testing is conducted according to the manufacturer’s guidelines by the assigned personnel.
 - a. Documentation of the maintenance and testing is maintained by the Board Office.
 - b. Documentation shall record the date and type of maintenance/testing and the signature of the person performing the maintenance/testing/
 - c. Monthly maintenance/testing will be performed during the school year and documented on the AED System Checklist, (See attached)
 - d. Post use maintenance/testing will be performed after each use.

B. Use of A.E.D.

REMEMBER: Not For Use on Children Under 1 Year of Age

1. Determine unresponsiveness of victim and activate Emergency Medical Services (EMS) by calling “911”
2. Send for AED



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3. Assess scene for safety. Remove victim from water or metal surface
4. Assess the victim for
 - a. breathing
 - b. pulse
5. Initiate cardio-pulmonary resuscitation (CPR) based on assessment until AED arrives at scene
6. Place AED near head of victim close to AED operator
7. Bare and prepare the chest for AED use
 - a. Wipe moisture off chest with towel, if needed
 - b. Remove any transdermal medication patches and wipe chest clean
 - c. Check chest for pacemaker or implanted cardioverter-defibrillator (these devices create a hard lump beneath the skin of the upper chest or abdomen about the size of half of a deck of cards. Make sure you place the AED electrode pad at least one-inch to the side of any implanted device.
 - d. Shave the chest with the razor, if necessary.
8. Power on the AED
9. Stop CPR and attach AED electrode pads to the victim's chest positioning the pads as shown on the electrode package
10. Attach electrode cables to AED
11. Allow the AED to analyze the victim's heart rhythm. Voice prompt will instruct you to stand clear while analyzing. This takes about 9 to 13 seconds.
12. Follow the voice prompts, which will either say "shock advised" and tell you what to do or "no shock advised" and tell you what to do.
13. For "shock advised" make sure everyone is clear from the victim prior to delivering the shock to the victim.
14. Allow the AED to follow the shock sequence. If necessary, it will deliver three shocks before you can reassess the victim. CPR is then performed for one minute if the shocks were unsuccessful. Then push the analyze button and repeat the sequence.



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15. If “no shock advised” check victim for pulse and breathing. If no pulse and/or no breathing is detected resume CPR until voice prompt tells you to stop CPR to analyze the victim’s rhythm.
16. Remember to leave the electrodes and the AED on until EMS arrives and you transfer the care of the victim to EMS.
17. Following the transfer of the victim to EMS complete AED incident report and give to school nurse.



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HADDONFIELD SCHOOL DISTRICT AEI Incident Report

Complete all the information to the best of your ability and give to the school nurse who will forward it to the school physician.

Name of Victim: _____ Location: _____

Date of Incident: _____

Time of Incident: _____

Approximate Age of Victim: _____

Victim's Known Medical History: _____

Check One: Haddonfield Student
 Haddonfield Board of Education Employee
 Other

Circumstances of how victim was found: _____

Who called "911": _____

Who used AED and how many shocks were delivered: _____

Approximate time victim was placed in care of Emergency Medical Services: _____

Victim transported to which hospital: _____

Family notified: Yes No If so, by whom: _____

Other Information: _____

Signature of AED User: _____

Name (Please Print): _____

Date Form Completed: _____



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Corrective Actions Required/Completed:

Date	Details

Initial: _____ Signature: _____

Initial: _____ Signature: _____

Initial: _____ Signature: _____

Initial: _____ Signature: _____

BOE Approved Date: 06/12/08
BOE Revised Date: