

Whiteface CISD

AED PROGRAM PROTOCOL

FULLY AUTOMATIC AED

I. PURPOSE

To establish an action plan for responding to a medical emergency.

II. TRAINING REQUIREMENTS

Any employee that is expected to provide emergency care to a patient will be trained in CPR and AED use. This training will conform to the American Red Cross Association AED standards.

III. DESIGNATED EMERGENCY MEDICAL RESPONDERS

The following employees will be trained in the use of CPR/AED:

School Nurse
Physical Education Teachers
Coaching Staff
Choir Directors
Band Directors
Cheerleading Sponsors

IV. EMERGENCY MEDICAL RESPONSE PLAN ACTIVATION

Once an emergency has been identified, "911" will be called to initiate public safety agency responders.

The caller should give the "911" operators the following information:

1. Type of emergency
2. Address of facility
3. Location of emergency
4. Phone number they are calling from
5. Further information requested from "911" operator.

V. TYPE OF MEDICAL EMERGENCY

Sudden Cardiac Arrest – Follow "Indications for AED Use" in section VI of the plan.

Other Medical Emergencies – Responder should provide only the patient care that is consistent with his/her training.

VI. INDICATIONS FOR AED USE

Your AED is intended to be used by personnel who have been trained in its operation. The user should be qualified by training in basic life support or other physician-authorized emergency medical response. The device is indicated for emergency treatment of victims exhibiting symptoms of sudden cardiac arrest who are **unresponsive and not breathing**. Post-resuscitation, if the victim is breathing, the AED should be left attached to allow for acquisition and detection of the ECG rhythm. If a shockable ventricular tachyarrhythmia recurs, the device will charge automatically and advise the operator to deliver therapy.

Unresponsive



Not Breathing



***Apply the AED if: Unresponsive and Not Breathing**

VII. PROCEDURE

A. Assess scene safety.

Is the scene free of hazards?

Rescuer makes sure there are no hazards to them. Some examples are:

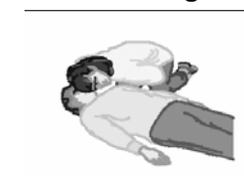
- Electrical dangers (downed power lines, electrical cords, etc.)
- Chemical (hazardous gases, liquids or solids, smoke)
- Harmful people (anyone that could potentially harm you)
- Traffic (make sure you are not in the path of traffic)
- Fire, flammable gases such medical oxygen, cooking gas, etc.

B. Determine if patient is:

Unresponsive



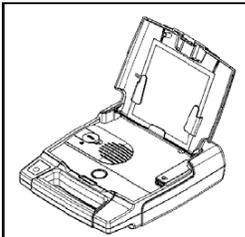
Not Breathing



***Apply the AED if: Unresponsive and Not Breathing**

Open Lid:

C. Opening lid “turns on” the AED.



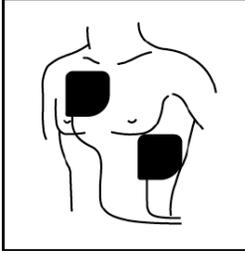
D. Follow Voice Prompts:

1. Place Electrodes:

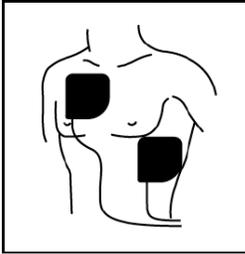
AED will prompt: “Tear open package and remove electrodes” followed by “Peel one electrode from plastic liner.”

2. Once electrode is peeled:

AED will prompt: "Place one electrode on bare upper chest" two times.
Rescuer should place electrode as shown on electrode diagram.



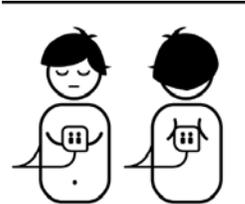
3. AED will prompt: "Place second electrode on bare lower chest as shown". Rescuer should place the second electrode as shown on electrode diagram.



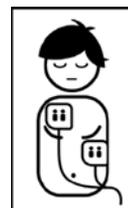
For patients under 8 years of age or weighs less than 55lbs (25kg):

Use Pediatric Attenuated Defibrillation Electrodes model #9730. Therapy should not be delayed to determine the patient's exact age or weight:

- Locate pediatric electrodes stored with AED.
- Open pediatric electrodes..
- Peel one electrode and place as shown on electrode diagram. (See diagram below)



Standard Pads Placement (Recommended)



Alternate Pads Placement

- Peel second electrode and place as shown on electrode diagram. (See diagram above)
- Connect electrodes to AED.

4. Analyze Rhythm

AED will prompt: "Do not touch patient. Analyzing rhythm."

5. Charges

AED will prompt: "Shock advised, charging"

6. Delivers Defibrillation Pulse

AED will prompt: "Stand clear. Shock will be delivered in 5 seconds, 4, 3 2 1. . "

Once the AED begins the "Stand clear . . ." prompt, the rescuer will state "clear" and make a visual head-to-toe check of the patient making sure that he/she and any other rescuers are "clear" of contact with the patient prior to the completion of the countdown.

7. Analyze/Charge/Pulse

After the first defibrillation shock, the AED will re-analyze the patient's heart rhythm.

AED will prompt: "Do not touch patient. Analyzing rhythm."

If a shockable rhythm is detected, the AED will charge and deliver another defibrillation pulse. Continue this cycle until delivery of 3 defibrillation pulses.

*If at any time during this cycle the AED detects a heart rhythm that does not require defibrillation, the voice prompt will say "Check for breathing. If not breathing give patient two breaths." The next voice prompt issued will be "Check for signs of circulation, if no signs of circulation start CPR."

**** Remember that the AED will not advise to defibrillate all pulse less patients. Some cardiac rhythms do not respond to defibrillation.**

***Call "911" at this time, if not already done.

8. Rescuer Gives CPR for One Minute

After the 3rd defibrillation shock:

AED will prompt: "Check for breathing. If not breathing give patient two breaths. Check for signs of circulation. If no circulation start CPR."

9. Repeat Analyze/Charge/Defibrillation Pulse

After one minute of CPR, the voice prompt will say: AED will prompt: "Do not touch patient. Analyzing rhythm."

If the cardiac rhythm is shockable, the AED will guide the rescuer through another 3- defibrillation pulse sequence, followed by one minute of CPR. This sequence should continue until:

- No shockable rhythm is detected or
- The electrodes are disconnected or
- Until ambulance personnel arrive on the scene.

10. Patient Converts to a Non-Shockable Rhythm

If at some point during the rescue the patient converts to a heart rhythm that does not require defibrillation:

AED will prompt: "Check for breathing. If not breathing give patient two breaths" followed by "Check for signs of circulation, if no signs of circulation, start CPR."

At this point, call "911" or the local emergency access phone number if not already done. If a pulse is found on the patient and the patient is not breathing, continue rescue breathing. Leave electrodes in place and follow voice prompts.

If the patient regains consciousness, leave AED electrodes in place and make patient as comfortable as possible until ambulance personnel arrive on scene.

VIII. POST INCIDENT PROCEDURE

The steps should be completed as soon after the incident as possible:

- Replace electrodes.
- Check expiration date on the electrode package
- Replace pocket mask and other supplies used
- Check the battery fuel gauge to assure sufficient battery life
- Close lid of AED and ensure the status indicator is GREEN (for Powerheart AED G3 series only)
- Retrieve rescue data and forward to Oversight Physician or AED Program Medical Director.

IX. PHYSICIAN OVERSIGHT

Physician Oversight for this department/business will be provided by Thomas Mattioni, MD.

Physician Oversight will include the following items:

- Development and review of policies and procedures defining the standards of patient care and utilization of the AED.
- Review of response documentation and rescue data for all uses of the AED.
- Oversee the initial and continuing AED training.
- Provide advice regarding the medical care of those in need of such care.

X. QUALITY ASSURANCE

A response documentation form should be completed for each use of the AED. The AED program coordinator and the Oversight Physician should review this form. Additionally, the rescue data should be reviewed for appropriate treatment.

XI. BASIC MAINTENANCE

Scheduled Maintenance

Daily Maintenance

For the Powerheart AED G3 series, check the **STATUS INDICATOR** to ensure that it is **GREEN**. When the indicator is **GREEN**, the Powerheart AED G3 is ready for a rescue. If the indicator is **RED**, refer to the Troubleshooting Table in the manual.

Monthly Maintenance

1. Open the AED lid.
2. Wait for the AED to indicate status:
For the Powerheart AED G3 series, observe the change of the **STATUS INDICATOR** to **RED**. After less than 5 seconds, verify that the **STATUS INDICATOR** returns to **GREEN**.
3. Observe the expiration date on the electrodes.
4. Listen for the voice prompts.
5. Close the lid and confirm that **STATUS INDICATOR** remains **GREEN**.

Annual Maintenance

Perform the following tests annually to confirm that the diagnostics are functioning properly and to verify the integrity of the case.

Check the Integrity of the Electrodes and Circuitry

1. Open the AED lid.
2. Remove the electrodes.
3. Close the lid.

4. Confirm that the STATUS INDICATOR turns red, (for Powerheart AED G3 series only).
5. Open the lid and confirm that the Electrode indicator is lit.
6. Reconnect the electrodes and close the lid.
7. Make sure the expiration date is visible through the clear window of the lid. For the Powerheart AED G3 series, check to make sure that the **STATUS INDICATOR** is **GREEN**.
8. Open the lid and confirm that no diagnostic indicators are lit.
9. Check the expiration date of the electrodes; if expired, replace them.
10. Check the electrode's packaging integrity.
11. Close the lid.

XII. AED USE REPORTING:

See Attached Form

