

Protocol for Care and Management For Emergency Care and AED

6300 Alderson Street
Weston WI 54476

Management of Emergency Care and AED

Purpose and Rationale Statement for Protocol:

Public and school based AED unit access provides all emergent care means to increase the percentage of survival for victims of a cardiac arrest. Research documents that early defibrillation enhances survival rates and reduces the risk of brain damage due to oxygen deprivation. The AED unit is a restricted medical device. District staff using the AED unit are required to be certified in Professional Rescuer CPR and AED, as well as comply with the provisions in Wisconsin Act 7.

Definitions:

AED – Automated External Defibrillator: AED is a portable defibrillator that analyzes the heart's rhythm, and, if necessary, shocks the heart back into normal rhythm

SCD – Sudden Cardiac Death: SCD happens when there is a cessation of the heartbeat, often as a result of ventricular fibrillation, which can result from a lack of oxygen to the heart muscle or from a primary electrical disorder. The Ventricular fibrillation leads to an ineffective “quivering of the heart” and death as a result of the ineffective circulation.

Causes:

- Cardiac arrest
- Blunt trauma to the chest converting normal heart rhythm into ventricular fibrillation.

Cardiac Arrest – sudden cessation of cardiac function and disappearance of arterial blood pressure that characterize ventricular fibrillation.

Location of the AED unit:

One AED unit will be maintained at D.C. Everest. The unit is located by the concession stand in the lobby of the Greenheck Field house.

Management Plan to Ensure Compliance with Legal Requirements

Role of Medical Director:

- Write the prescription for purchase of the AED unit.
- Assist in the development of policy, protocol, and procedure for AED use.
- Verify and authorize changes in the protocols, procedures, and training programs based on current state, national and manufacturer recommendations.
- Authorize, approve and evaluate educational training courses for staff certification.
- Evaluate data recorded on an AED unit.
- Participate in debriefing sessions with AED coordinator and staff.

Role of the AED District Coordinator:

- Coordinate Professional Rescuer CPR and AED training for district staff.
- Coordinate equipment and accessory maintenance.

- Revise policy, procedure, and protocol as directed by the AED medical director and according to current American Red Cross guidelines.
- Monitor the effectiveness of the CPR/AED – Emergent Care Program.
- Communicate with the medical director on issues related to the emergency response program, including post event reviews.

Training requirements:

- **Initial training certification:** Completion of the American Red Cross Professional Rescuer CPR and AED training; and Blood Borne Pathogens. Courses are held on-site in the district at no cost to the employee. Books, course, laredol pocket mask, and certificate are provided to the employee by the district at no cost. It is the understanding of the certified staff that the use of the AED is a medical act. Non-physicians can only use the AED unit if they are trained to the level required by the state law and if they are under the authority of the a designated Medical Director.
- **Re-certification requirement:** Annual Professional Rescuer CPR re-certification. Re-certification in AED use every two (2) years. Annual review of the Blood Borne Pathogen procedure and policy. Employees will complete a review of AED and Professional Rescuer skills every 6 months at open skills lab.

Role of CPR/AED district staff certified rescuer:

- Recognize an emergency exists.
- Activate the internal emergency response system and 911. Initiate prompt basic life support as victim's condition warrants including first aide, CPR or AED according to the level of certification.
- Continue to provide care until EMT's arrive and assume care for the victim.

Notification of EMS service:

In accordance with the state assembly bill 239

Section 1- 146.50(8g) the district AED coordinator will provide annual written notification to the Weston Fire Dept, Wausau Hospital Center Emergency Room EMS coordinator and district medical advisor stating:

- The type of AED unit – Medtronic lifepac 500.
- The location of the AED unit – Greenheck Field house.
- The intended usage area for the AED unit. – Greenheck and Senior High.
- The owner of the AED – D.C. Everest Area Schools.
- Maintenance plan of the AED.
- Description of the staff-training course.

Equipment maintenance program for AED unit:

Maintenance and testing is conducted as required by the AED manufacturer. All AED equipment and associated supplies will be maintained in a state of readiness.

- The AED unit will complete a self-check daily at 3AM. Designated staff will visually check the AED unit daily to ensure readiness as identified by a green "ok" on the handle of the unit.
 - If a *red wrench* is on the handle the unit will be referred for maintenance by the Wausau Hospital Center technicians.
 - If a *green battery* is on the handle the battery will be replaced in the unit.
- The AED unit will be removed from the cabinet monthly by designated staff for a safety and readiness check.
- Wausau Hospital Center technicians will complete an annual maintenance check of the AED to ensure effective functioning.

- Documentation of the daily and monthly maintenance checks for the AED unit will be filed in the Community Service Office at Greenheck. The completed, original documentation forms will be sent to the district AED coordinator at the end of the month to be filed in the district health office.
- Information collated on the daily and monthly documentation form includes:
 - Date of check.
 - Signature of designated staff member completing check
 - Data collected and type of check.

Management plan for victim in cardiac arrest:

Refer to procedure for AED use

Management plan post event review:

Documentation of event:

- Any use of the AED will be documented by the rescuer and recorded by the AED internal software for review by the attending physician and medical director.
- The AED internal software record will be downloaded on the EMT's MEDTRONIC lifepak 1200 for review by the emergency room physicians.
- Medical emergencies involving the use of an AED require special documentation. Any and all patient/victim information generated during the use of the AED or CPR rescue must be collected and placed in the person's confidential medical file.
- The rescuer will complete the emergency information sheet and send a copy of the sheet to the hospital with EMS.

Notification of medical staff and district AED coordinator after use of the AED:

- The district AED coordinator must be notified by phone whenever the AED unit is used. The district AED coordinator will notify the district and AED medical director(s).
- The medical director and AED coordinator must review copies of the documentation from the incident.

Debriefing of staff:

- Critical debriefing of involved rescuers will be scheduled within 72 hours of use
- The medical director will review the response and any corrective action with the rescuer and district AED coordinator at that time.

Return the AED unit to readiness state:

- Restock needed equipments and supplies.
- Clean the AED unit as needed according to manufacturer recommendations.
- Document unit readiness on the district log.

Resources:

State of Wisconsin EMS Defibrillation Protocol
 Maugham, Somerset. Chapter 5 Understanding Medical Direction.
 1999 Wisconsin Act 7 – Assembly Bill 239
 Medtronic Sample Procedure, Policy and Protocol Statements

Exhibit Adopted: 2/26/02
 Exhibit Revised:
 RWD:ems

BOARD OF EDUCATION
 D.C. Everest Area School District
 6300 Alderson Street
 Weston, Wisconsin 54476