Northwest Community EMS System POLICY MANUAL					
Policy Title: USE OF AUTOMATED EXTERNAL DEFIBRILLATORS No. A - 4					
Board approval: 8/1/19	Effective: 8/1/19	Supersedes: 9/1/07	Page:	1 of 4	

Reference: Automated External Defibrillator Act. (Source: P.A. 91-524, eff. 1-1-00.)

I. Importance of early defibrillation

- A. Successful resuscitation of out-of-hospital cardiac arrest victims depends on a series of critical interventions known as the chain of survival: early access; early CPR; early defibrillation; and early ACLS.
- B. Many Emergency Medical Services (EMS) Systems have demonstrated increased survival rates in cardiac arrest patients experiencing ventricular fibrillation after early <u>public access</u> defibrillation (PAD) programs were implemented and when all of the links in the chain of survival were present.

II. Definitions

- A. An **Automated External Defibrillator** (AED) is a medical device heart monitor and defibrillator that:
 - 1. has received approval of its premarket notification, filed pursuant to 21 U.S.C. Section 360(k) from the United States Food and Drug Administration;
 - 2. is capable of recognizing the presence or absence of ventricular fibrillation and rapid ventricular tachycardia, and is capable of determining, without intervention by an operator, whether defibrillation should be performed;
 - 3. upon determining that defibrillation should be performed, either automatically charges and delivers an electrical impulse to an individual, or changes and delivers an electrical impulse at the command of the operator; and
 - 4. in the case of a defibrillator that may be operated in either an automatic or manual mode, is set to operate in the automatic mode (Section 10 of the Act).
- B. **Person**: An individual, partnership, association, corporation, limited liability company, or organized group of persons (whether incorporated or not).
- C. **Trained AED user**: A person who has successfully completed a course of instruction in accordance with the standards of a nationally recognized organization such as the American Red Cross or the American Heart Association or a course of instruction in accordance with the EMS Rules to use an automated external defibrillator, or who is licensed to practice medicine in all its branches in Illinois (Section 10 of the Act).

III. Approval of AED training programs for lay AED users

- A. Training programs for lay AED users (including police officers who are not Emergency Medical Responders (EMRs) must be approved by the Illinois Department of Public Health (IDPH).
- B. IDPH shall approve programs offered in accordance with the following:
 - 1. The curriculum shall include complete training in CPR prepared according to nationally recognized guidelines.
 - 2. The instructor(s) shall have successfully completed the American Red Cross Automated External Defibrillation Training Instructor Course or the American Heart Association (AHA) Heartsaver AED Instructor Orientation.
 - 3. Instructors shall renew their qualification every two years and shall meet the following criteria:
 - a. Maintain provider status,
 - b. Teach two separate courses per year,
 - c. Complete an update on new information regarding course content, and
 - d. Provide documentation that teaching ability was monitored.

Northwest Community EMS System POLICY MANUAL					
Policy Title: USE OF AUTOMATED EXTERNAL DEFIBRILLATORS			No.	A - 4	
Board approval: 8/1/19	Effective: 8/1/19	Supersedes: 9/1/07	Page:	2 of 4	

4. The course shall meet the objectives of the AHA Heartsaver AED for the Lay Rescuer and First Responder course or the American Red Cross Automated External Defibrillation course and shall require at least the same number of hours for completion (generally four).

IV. Recognition of trained AED users in the NWC EMSS

- A. To be recognized as a trained AED user in the NWC EMSS, an individual must meet **one** of the following eligibility criteria:
 - 1. Have successfully completed an AED/CPR course of instruction in accordance with the standards of a nationally recognized organization such as the American Red Cross or the American Heart Association (see above); **or**
 - 2. be an <u>EMR</u>, EMT, <u>Paramedic</u>, or PHRN with practice privileges in the NWC EMSS who has completed an AED curriculum based on <u>the National EMS Education</u> <u>Standards</u>. The System will include AED operation as part of an initial <u>EMS</u> training programs in keeping with the National Scope of Practice Model, an individual may only perform a skill or role for which that person is:
 - a. EDUCATED (has been trained to perform the skill or role), AND
 - b. CERTIFIED (has demonstrated competence in the skill or role), AND
 - c. <u>LICENSED (has legal authority issued by the State to perform the skill or</u> role), AND
 - d. <u>CREDENTIALED (has been authorized by medical director to perform the skill or role).</u>
- B. Recognition of training, credentialing, and ongoing validation of competency for EMS AED users must comply with requirements specified by the EMS MD.

V. Use of AEDs in the NWC EMSS

- A. The System encourages lay AED users to store an AED equipment kit with the unit to include the following:
 - 1. Gloves (latex-free and powder-free preferred)
 - 2. Pocket mask (optional with compression only CPR)
 - 3. Hand-held suction (i.e., V-vac)
 - 4. Scissors or clippers, and towel
 - 5. Adult <u>& Peds</u> defib pads <u>sealed in packaging and within expiration dates</u>
- B. For an AED program to provide optimal outcomes, an AED user should respond within six minutes of a person's collapse and/or be reasonably expected to respond prior to the arrival of EMS. Police officer AED users are encouraged to bring the AED to calls of a person down, chest pain, seizure, or difficulty breathing which may actually be a cardiac arrest.

C. **Procedure for use:**

- 1. <u>Assess scene safety. Volunteer rescuers are not expected to place themselves</u> <u>at risk in order to provide aid to others, instead, the scene or environment around</u> <u>a victim must be made safe prior to attempts to assist.</u>
- 2. <u>Confirm unresponsiveness; no pulse; no visible respirations or cough.</u>
- 3. Call for help; ask someone to activate the EMS System ASAP
- 4. If an AED is not immediately available, perform compression-only CPR until an AED is brought to the patient.
- 5. If only 1 rescuer is present and an AED is immediately available, apply pads and use the AED first, analyze the rhythm and begin CPR after delivering a shock if advised. Or, if no shock is advised, then begin CPR

Northwest Community EMS System POLICY MANUAL				
Policy Title: USE OF AU	ITOMATED EXTERNAL DEFI	BRILLATORS	No.	A - 4
Board approval: 8/1/19	Effective: 8/1/19	Supersedes: 9/1/07	Page:	3 of 4
coi chi coi	there are two trained reso mpression only CPR while the arge of the AED will apply the mpressions. Do not stop CPR Il prompt you to stop CPR whe	e other prepares the AED pads around the hands of while the AED is being re	for use. the pers adied for	The rescuer in son giving chest r use. The AED
us Pla you	ower on the AED. An AED can se of an AED in children belo ace the AED near the victim's u to push a button to turn it o e lid.	w. Follow the AED visua head and power on the un	l and/or it. Some	audio prompts. models require
pe rer acc jus NC Co De de de Ch the se ma	pply the AED pads. Expose the parson is wearing any medical move the patches before wiping cording to instructions on the patches below the collarbone. Place DTE: If victim is under eight annected adult defibrillation electrodes to the patermine precise age or weight effortillation electrodes. The parately. In infants <1 year anual defibrillator is not availa HA, 2018).	tion patches, use a glove ing the person's chest. App bads. Place one pad on the the other pad on the lower years old or under 25kg ctrodes, connect the Infan AED and proceed. Do of child. If in doubt, defibring the with a standard AED. rediatric attenuated pads of age a manual defibri	d (if pos ly the pa e right side left side g (55 lbs t/Child R not de llate with For chills s that a llator is	ssible) hand to ads to the chest, de of the chest, of the chest. s), remove pre- educed Energy lay therapy to pre-connected dren ages 1–8, are purchased preferred. If a
10. <u>Bri</u> fro	onnect the pads to the AED if the iefly pause compressions and on using portable radios or c	push the "analyze" buttor	n (if nece	
11. <u>If s</u> pre <u>bu</u> an:	aluating the heart rhythm. shock is advised, the AED wess the button that will delive atton. It is critical that no one alyzes or delivers a shock. shock is NOT advised, imme	the shock. Clear the vict touches the victim or his	<u>im and p</u> clothing	oush the shock while the AED
Re 2 r EM pu rec	inimize interruptions in ches esume CPR beginning with co minutes (about 5 cycles) of Cl MS arrives. If you notice obviou Ilse resumes, patients wakes covery position (on their side) id any changes in the patient's	npressions immediately af PR and continue to follow us signs of life (spontaneou up), discontinue CPR, p and leave the AED attac	ter each the AED is moven lace_the	shock. Perform 's prompts until nent, breathing, patient in the
Public Acce for return to	nt care is turned over to EM <u>ess Defibrillation (PAD) progra</u> o service <u>(consumable supplie</u> oversight of AEDs by lay us	a <u>m AEDs)</u> shall ensure tha s are restocked).		

VI. Maintenance and oversight of AEDs by lay users

- A. A person acquiring an AED shall take reasonable measures to ensure that:
 - 1. the AED is maintained and tested according to the manufacturer's guidelines;

Northwest Community EMS System POLICY MANUAL					
Policy Title: USE OF AUTOMATED EXTERNAL DEFIBRILLATORS			No.	A - 4	
Board approval: 8/1/19	Effective: 8/1/19	Supersedes: 9/1/07	Page:	4 of 4	

- 2. any person considered to be an anticipated rescuer or user will have successfully completed a course of instruction in accordance with the standards of a nationally recognized organization, such as the American Red Cross or the American Heart Association, or a course of instruction in accordance with existing rules under this Act to use an automated external defibrillator and to perform cardiovascular resuscitation (CPR).
- 3. A person in possession of an automated external defibrillator shall notify an agent of the local emergency communications or vehicle dispatch center of the existence, location, and type of the automated external defibrillator. (Source: P.A. 95-447, eff. 8-27-07.)

VII. Liability protection

- A. Members of the lay public who in good faith and without fee or compensation renders emergency medical care involving the use of an automated external defibrillator in accordance with his or her training is not liable for any civil damages as a result of any act or omission, except for willful and wanton misconduct, by that person in rendering that care (PA 90-746, eff. 8-14-98). It further exempts the following if the requirements of the Act are met: individuals or entities providing training in the use of AEDs so they are not liable for civil damages as a result of any act or omission involving the use of an AED; a person owning, occupying, or managing the premises where an AED is located; and trained AED users who are not liable for civil damages as a result of any act or omission involving the use of an AED in an emergency situation, except for willful or wanton misconduct [Section 30 (a)(b)(c)(d)].
- B. No local agency, entity of State or local government, or other public or private organization, nor any officer, director, trustee, consultant or agent of any such entity, which sponsors, authorizes, supports, finances, or supervises the training of persons in the use of cardiopulmonary resuscitation, automated external defibrillators, or first aid in a course which complies with generally recognized standards, shall be liable for damages in any civil action based on the training of such persons unless an act or omission during the course of instruction constitutes willful and wanton misconduct (210 ILCS 50/3.150(d)).
- C. No person who is certified to teach the use of cardiopulmonary resuscitation, automated external defibrillators, or first aid and who teaches a course of instruction which complies with generally recognized standards for the use of cardiopulmonary resuscitation, automated external defibrillators, or first aid shall be liable for damages in any civil action based on the acts or omissions of a person who received such instruction, unless an act or omission during the course of such instruction constitutes willful and wanton misconduct(210 ILCS 50/3.150(e)).

Ref. PA 095-0447: Amends the EMS Act to remove requirement to register an AED with the Resource Hospital.

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