

Santa Barbara City Fire Department - Standard Operating Procedures Emergency Operations		Code: E-XII-7
Defibrillator Usage and Protocol		
Chpt: XII EMS	Revised: 7/22/03	Pages: 4

I. AUTHORITY

- A. Health and Safety Code Sections 1791.208, 1797.214, 1797.220, 1798.
- B. California Code of Regulations, Title 22.
- C. Santa Barbara County Emergency Medical Services Agency Policy Manual Section 400.09, 700.01A, 700.02, 700.02A.

II. WELSH ALLYN AED 10

- A. Each unit shall be checked for the following equipment prior to any use:
 - 1. Welch Allyn automatic defibrillator unit with battery
 - 2. Case
 - 3. Two sets of defibrillator pads
 - 4. Spare Battery
 - 5. Disposable supplies (discretionary) razor, sandpaper, etc...

III. PROTOCOL FOR (AED) USE

A. Patient Selection Criteria

- 1. Adult (over 8 years old) and weighs more than 55 pounds.
- 2. Unconscious, not breathing and no pulse
- 3. No environmental or trauma contraindications
- 4. Traumatic Contraindications include:
 - a) Decapitation
 - b) Exsanguination
 - c) Similar circumstances

B. The Welch Allyn AED 10 can be used in fresh / salt water environments (not submerged) and on patients found on metal (i.e. aluminum) flooring / floor surface. It is not for use in intrinsically safe required environments

Defibrillator Usage and Protocol

C. If the patient does not meet the above criteria deliver care appropriate for the situation; if the patient does meet the above criteria, continue

D. Position and Prepare the Patient (Initiate BLS)

1. Patient laying on back
2. Remove clothing to expose the chest.
3. Dry and/or shave chest area as needed
4. Prepare defibrillator for use while continuing BLS
5. Place AED on flat surface near left side of patient's head
6. Press the On/Off button to turn on the AED
7. Remove electrode pads from packaging
8. Remove gel/adhesive protector from electrode pads.
9. Remove electrode pads from package and apply with a rolling motion:
 - a) Right: just below the right clavicle
 - b) Left: over the ribs in line with the armpit and below the left breast.
**Be aware that some patients may have an implantable self-defibrillator or pacemaker. It can be found on the anterior abdominal wall (self defibrillator) or near the right clavicle (pacemaker). If found, be aware it may or may not be functional. If a self-defibrillator or pacemaker is found, place the defibrillation pad near but not over the pacemaker or self-defibrillator. For all other patients apply as stated above.
 - c) The pads cannot be placed in an anterior / posterior fashion
10. Insert defibrillation pad connector into connector slot
11. Follow voice prompt instructions given by the Welch Allyn AED 10. You may also see the instructions in the back of the AED case. Do not touch patient
12. If prompted, make sure rescuers and bystanders are not touching the patient. Then say "I'm clear, you're clear, we're all clear". Press flashing red "Shock" button
13. Repeat as directed by AED

E. Fire Department personnel should also attempt to document when the ALS paramedic unit arrives.

Defibrillator Usage and Protocol

1. At this time the primary responsibility for patient care transfers to the senior paramedic on scene.
2. He/she may elect to leave the Fire Department AED in place or he/she may apply their own equipment to continue treatment/monitoring.
3. Fire personnel should continue to document all the on scene events. Items to note would be and not limited to: Intubation, I.V., meds, loading or moving the patient and when directed to discontinue the AED by the paramedic
4. It is the company commander or lead firefighters responsibility to make a report to the senior paramedic to include the following;
 5. The history of the event
 6. Age of patient
 7. Medical history
 8. Summary of your on-scene actions including defibrillation sequence.
9. The AED can be left attached to the patient at the paramedic's request. Defibrillation shall not take place in a moving ambulance. If the paramedic requests assessment and defibrillation, the ambulance would have to come to a complete stop.

Defibrillator Usage and Protocol

IV. DAILY MAINTENANCE AND TESTING PROCEDURES, EQUIPMENT REPAIR REPORTING AND SUPPLY NEEDS PROCEDURES

- A. Each defibrillator unit in service shall be checked daily by the oncoming shift. The daily check shall occur as soon as possible after shift change
- B. Daily Check to include:
 - 1. Additional Spare Battery Present (Check expiration date)
 - 2. 2 Sets Defibrillation Pads Present (Check Expiration Date)
 - 3. Additional Supplies Present
- C. Check Status Indicator Light
- D. If Status Indicator Light Displays a solid dark diamond, the Welch Allyn AED 10 is ready for use
- E. If a solidly lit circle with a slash is present, system is not ready for use. Check results of self-test. If unit does not power up, check battery connection.
- F. If a Flashing Red X is found, replace the battery
- G. Repeat the status check in “D” above after replacing the battery
- H. This completes the required checkout of the Welch Allyn AED 10. No other maintenance is required.

V. ADDITIONALLY

- A. The defibrillators are not to be taken out of the City on automatic aid or mutual aid incidents within the County where extended deployment is anticipated. At no time will the defibrillator units be taken on out-of-county responses. They shall be left in their respective station for use within the City by Department personnel.
- B. Disposable supplies may be obtained by ordering them on the station monthly supply request or on an emergent basis from the duty Battalion Chief
- C. ****AFTER PATIENT USE**
 - 1. When an Engine Company or Rescue-One has a defibrillator use, they are to notify the Department EMS Coordinator via e-mail of that use.
- D. Related SOP [E-XII-5](#) Do Not Resuscitate