

Indications for AED Use:

- All pulseless patients, except those who meet obviously dead criteria [X-01].
- Patients who appear to have the possibility of impending cardiac arrest.

Exclusion Criteria:

- Patient has a pulse.

Procedure: Automated External Defibrillator (AED)

1. Press On/Off.
2. Bare the patient's chest. Shave any excessive chest hair if needed.
3. Place the pads in accordance with the pictures on the AED pad packaging.
 - a. Adolescents/Adults: use the standard adult AED pads.
 - i. Anterior: upper right torso, lateral to the sternum and below the clavicle.
 - ii. Lateral: lateral to the left nipple, centered in the midaxillary line.
 - b. Children (< 8 years old): use the 'Infant/Child' AED pads.
 - i. Place the pads in an anterior and posterior fashion.
 - c. If the AED pads contain a CPR sensor, ensure it is placed over the sternum consistent with package labeling.
4. Connect the electrodes to the AED.
5. Await analysis: there are three possible messages
 - a. If the AED detects a shockable rhythm: "Stand Clear. Push Shock Button."
 - i. Immediately clear from the patient and depress the shock button.
 - ii. Resume compressions immediately after the defibrillation.
 - b. If the AED detects a non-shockable rhythm: "No Shock Advised. Start CPR."
 - c. After three minutes, the AED will prompt: "Stand Clear. Analyzing Now."
 - i. If motion interferes with the analysis, the AED will state "Motion Detected. Stop Motion." Make certain no one is touching the patient, wires or device.

Procedure: Manual Defibrillation

1. Attach the pads to the patient in accordance with the pictures on the electrode packaging, and plug pads into the monitor/defibrillator.
2. Select the defibrillation/cardioversion setting on the monitor/defibrillator.
3. Select the appropriate energy setting
 - a. Adults: 200 J (for cardiac arrest)
 - b. Pediatrics: 2-4 J/kg (for cardiac arrest)
4. Clear the area around the patient by loudly stating, "Clear! I'm clear, you're clear, everybody's clear" while visually verifying that you and all other persons are clear of the patient.
5. Push the "shock" button on the defibrillator unit.
6. Resume CPR until the next pulse/rhythm check.

NOTES:

- If the patient loses pulses at any time (an EMS witnessed arrest), immediately initiate an AED analysis by pressing the right soft-key.
- Documentation: record comments about the incident regarding AED use, bystander CPR and other therapies in the patient care record.
- AED information shall be downloaded as soon as possible