



**LIFEPAK® 500**  
automated external defibrillator

## **AED Scenarios**

### **1 Witnessed Collapse—ventricular fibrillation (VF) with conversion**

You are dispatched to a 48-year-old male who collapsed while playing basketball. Witnesses called 9-1-1 and started CPR immediately. The victim has no known medical history, however, he complained of dizziness and shortness of breath prior to collapsing.

**Progression:**

Confirm the victim is not breathing and has no pulse/circulation

Attach AED

Clear area, analyze rhythm

Shock advised

Clear area

Press shock button, deliver shock

Auto analyze, clear area

Shock advised

Clear area

Press shock button, deliver shock

Auto analyze, clear area

No shock advised, check pulse/circulation

Carotid pulse present, breathing present

Monitor victim

(Variation of above scenario: carotid pulse/circulation present, but no breathing. Ventilate at a rate of one breath every five seconds.)

## **2 Witnessed Collapse—VF with multiple shocks, no conversion**

A woman reports that she discovered her 69-year-old husband thrashing about in bed. He then became unresponsive. He has a history of several heart attacks and bypass surgery fifteen years ago and takes several cardiac medications. CPR has not been attempted.

### **Progression:**

Confirm the victim is not breathing and has no pulse/circulation

Move victim to floor

Attach AED

Clear area, analyze rhythm

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Check pulse/circulation—none

CPR for one minute

Check pulse/circulation—none

Clear area, analyze rhythm

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Check pulse/circulation—none

CPR for one minute

Check pulse/circulation—none

Clear area, analyze rhythm

continue...

The rhythm is analyzed and victim shocked in stacks of three with appropriate CPR intervals until arrival of advanced cardiac life support (ACLS). If no ACLS is available, a decision must be made to transport the victim with ongoing CPR, analyses and shocks.

### 3 Witnessed Collapse, VF recurs

The victim is a 42-year-old truck driver at a truck stop. He had complained of indigestion after eating dinner and collapsed in the parking lot. He has no medical history, but is a 1–2 pack per day smoker and is overweight.

#### Progression:

Confirm the victim is not breathing and has no pulse/circulation

Attach AED

Clear area, analyze rhythm

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

No Shock Advised

Carotid pulse/circulation present, victim breathing

Monitor victim

*PRESS ANALYZE or STAND CLEAR, ANALYZING NOW, STAND CLEAR* prompt heard

Clear area, analyze rhythm

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Check pulse/circulation—none

CPR for one minute

Check pulse/circulation—none

Clear area, analyze rhythm

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Check pulse/circulation—present, breathing spontaneously; Monitor victim

#### **4 Witnessed collapse, VF with progression to asystole**

A 65-year-old man collapses while shoveling snow in front of his house. His wife begins CPR. You arrive on the scene approximately 10 minutes after the victim collapses.

##### **Progression:**

Confirm the victim is not breathing and has no pulse/circulation

Attach AED

Clear area, analyze rhythm

Shock advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

No Shock Advised

Check pulse/circulation—none

Perform CPR for one minute

Check pulse/circulation—none

Analyze rhythm

No Shock Advised

Check pulse/circulation—none

Perform CPR for one minute

Check pulse/circulation—none

Analyze rhythm

No Shock Advised

Continue analyses and CPR according to local protocol

#### **5 Unwitnessed Collapse-obvious dead on arrival (DOA)**

A distraught family member has called for help after finding her 76-year-old grandmother unconscious in a chair. She was last seen the previous day and had complained of chest congestion. She has a history of angina and congestive heart failure.

##### **Progression:**

Confirm the victim is not breathing and has no pulse/circulation

Victim is cold to the touch

Jaw is stiff and difficult to open. Rigor mortis present.

Follow local protocols for obvious DOA

## 6 Witnessed Collapse, VF with troubleshooting

The victim is a 55-year-old male hotel guest who collapses in the lobby. A bystander immediately begins CPR.

### Progression:

Confirm the victim is not breathing and has no pulse/circulation

Attach AED

Clear area, analyze rhythm

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

*CONNECT ELECTRODES* prompt occurs

Check electrode connection to device and to victim

Electrode on victim's chest is not adhered to chest

Reapply electrode and make sure it is firmly applied to the chest

Auto analyze, clear area

Shock Advised

Clear area

Press Shock button, deliver shock

Auto analyze, clear area

No Shock Advised, check pulse/circulation

Carotid pulse/circulation present, victim breathing

Monitor victim