

# Guide - AED Plus



**1** Easy to place one piece electrode providing more time to focus on the rescue.

**2** The AED Plus supports the Resuscitation Council's full chain of survival through graphical and audio prompts.

**3** Once installed, the AED Plus has the lowest total cost of ownership. Unless used, there is nothing to replace or buy for 5 years.

**4** Paediatric pads available for children upto 8 years old.

**6** Real CPR Help® technology provides real-time feedback on the rate and depth of compressions - the only AED on the market that can see what you're doing during CPR.

**8** Automated self testing every 24 hours to ensure a constant state of readiness.



**5** The specially designed lid for the AED Plus can be placed under the shoulders of the patient to help maintain an open airway.

**7** Best Ingress Protection (IP) rating for dust and water. The AED Plus has an IP rating of 55, the highest IP rating of any AED on the market today.

**9** First Responder Kit supplied with every device to aid rescuers in delivering CPR.

**10** Powered by 10 lithium batteries with redundant battery circuitry so if one fails the other will kick in. The batteries can be purchased at most retail stores making it easier to replace when needed.

## Talking Points

The major benefit of the AED Plus is that it's the best possible support for a someone who is trying to save a victim of a cardiac arrest. The best AED is not one that is simple. It is the AED that provides the best support during the rescue.

## About CPR

Research shows that approximately half of all cardiac arrest victims present in a non-shockable rhythm. In which case the AED will tell the rescuer "NO SHOCK ADVISED, START CPR". When this occurs CPR is the only hope for this victim. If you continue to perform high quality CPR, you may convert the rhythm into one that is shockable and then the AED will allow you to press the shock button and successfully save the victim. Key question: Will your AED help advise you on how to deliver good quality CPR? Will it provide the best help for CPR? The ZOLL AED Plus is the only defibrillator on the market that will provide the level of support needed to deliver effective CPR.

ZOLL believes an AED that works needs to provide a shock where necessary and help the rescuer deliver high quality CPR. AEDs that can't see the CPR being delivered can't fully support the rescuer and in most cases they are left to draw upon past training which may have been undertaken a few years ago.

When is high quality CPR needed most? Right after a shock has been delivered. The most important thing CPR does is deliver oxygenated blood to the heart and brain. A heart that has just been shocked but is not receiving oxygenated blood through CPR is less likely to begin to work normally.

The European Resuscitation Council (ERC) Guidelines show that the chances of survival for a collapsed victim where no CPR is administered decreases by 10% per minute. After 10 minutes without CPR, chances of survival are minimal. However with high quality CPR (100 compressions per minute at a depth of 5-6cm) chances of survival decrease by only 4 % per minute. After 10 minutes of delivering high quality CPR the victim's chances of survival are still at 60%.

## What CPR does

1. Increases systolic pressure (blood pressure) throughout the circulation system
2. Evacuates blood from a distended heart. When a victim collapses, the arteries stop moving blood around the body, but the veins continue to deliver blood to the heart for a further 4 to 5 minutes so that the heart becomes distended (filled with blood which has nowhere to go). Even if the heart is in ventricular fibrillation (VF), it needs CPR to evacuate the blood it has filled up with before a shock can be effective.
3. Moves oxygenated blood to the brain. Helps reduce brain damage, keep the victim alive longer and also leads to improved quality of life if the victim survives.
4. Moves oxygenated blood to the heart. This is the most important part of CPR! Resuscitation requires two things; shocking the heart and delivering blood to the heart.

