

AED+PLUS™

The First and Only
Full-Rescue AED



ZOLL
It's about time.

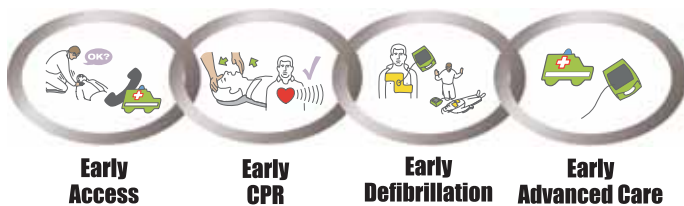
AED+PLUS™

More than a Defibrillator... A Full-Rescue AED

The Chain of Survival

The best way to increase the chance of saving sudden cardiac arrest (SCA) victims is to remember and follow every link in the Chain: Early Access. Early CPR. Early Defibrillation. Early Advanced Care. Every step helps save lives. Any break in the Chain compromises survival.

Ordinary AEDs only defibrillate. Rapid defibrillation is a critical intervention to improve survival, but it is not enough. While roughly half of unresponsive, collapsed victims need defibrillation, every one of them needs cardiopulmonary resuscitation (CPR).



Following the Chain of Survival requires more than just attaching electrodes and delivering a shock. From checking responsiveness, summoning help, and doing an “ABC” assessment (Airway, Breathing, Circulation) to CPR and defibrillation, the ZOLL® AED Plus™ with instantaneous CPR Feedback helps guide the rescuer through the entire effort to rescue SCA victims.

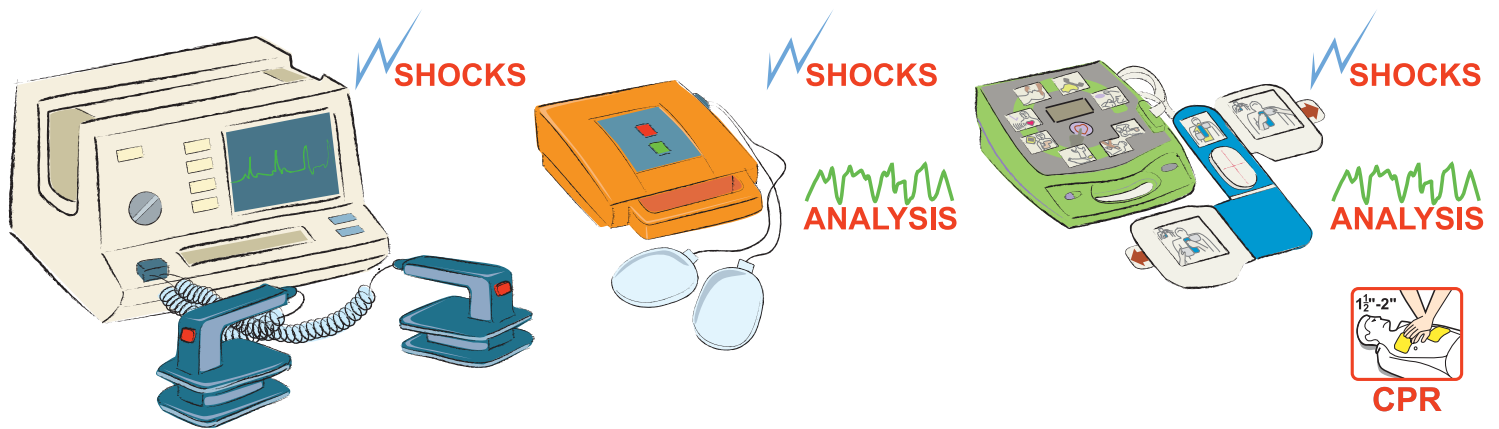
The AED Plus Fully Supports the Rescuer

By focusing on the full Chain of Survival and supporting effective CPR, the ZOLL AED Plus is the first and only Full-Rescue AED.

“AEDs are easy to use, while CPR and the ABCs remain difficult to perform. Based on adherence to the Chain of Survival guidelines, however, those [study participants] who used the ZOLL device performed significantly better than those who used the other devices [in the study].”¹



Evolution of the Full-Rescue AED



First Generation: Manual Defibrillators

Responders are trained to interpret rhythms and deliver defibrillating shocks. Used by doctors and paramedics trained to interpret heart rhythms.

Second Generation: Ordinary AEDs

One- or two-button shock boxes needing two electrodes. They do not fully support the Chain of Survival or help with effective CPR.

Third Generation: Full-Rescue AED

ZOLL's AED Plus™ is the only Full-Rescue AED because it defibrillates, provides feedback to help with effective CPR, and supports the full Chain of Survival.

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Help for Infrequent Rescuers When They Need Help the Most

A Complete Road Map for Resuscitation

A picture is worth a thousand words. The AED Plus' unique graphical interface—pictures combined with text displays and voice prompts—helps the rescuer every step of the way.

Lights on the pictures draw the rescuer's attention to actions in the proper sequence. Text and voice prompts correspond to the pictures and help the rescuer perform every important life-saving action. These pictures and prompts assure that everything is done in order and that shocks, if required, are delivered rapidly.



One Electrode Pad Is Easier than Two

Ordinary AEDs require that the rescuer use two confusing electrodes. ZOLL's Full-Rescue AED features *CPR-D · padz*,™ a one-piece, pre-connected electrode with CPR Feedback. By using

CPR hand placement as the landmark, it is easy to place the *CPR-D · padz* on the victim quickly. The *CPR-D · padz* also lasts four years—the longest shelf life of any electrode sold today.

Intelligent Pediatric Capability

The ZOLL® AED Plus™ can defibrillate children up to eight years of age, using the *pedi · padz II*™ electrodes. When the *pedi · padz II* are connected, the AED Plus recognizes that a pediatric rescue is in progress. With ECG analysis designed specifically for a pediatric heart rate, coupled with appropriate defibrillation energy levels, the AED Plus can handle both adult and pediatric rescues.



Only One AED Supports the Entire Rescue

Instantaneous CPR Feedback

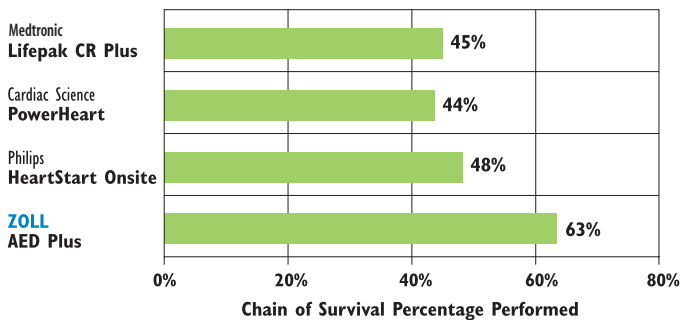
Inadequate compression rate and depth are common during CPR.^{2,3,4} Adult victims need compressions at a rate of 100 per minute and at a depth of 1½ to 2 inches. Compressions must be done well to effectively move blood and oxygen.



The ZOLL® AED Plus™ converts compression data instantaneously from the CPR-D · padz™ and provides an adaptive metronome to help the

rescuer with the proper rate and depth, saying “Push harder” or “Good compressions,” as needed. It also shows CPR compression depth on the display screen. ZOLL's AED Plus is the only AED that helps the rescuer achieve the correct rate and depth of chest compressions during CPR. No other AED has this capability.

The ZOLL AED Plus supports the full Chain of Survival best.⁷



Consumer Batteries for Convenience and Savings

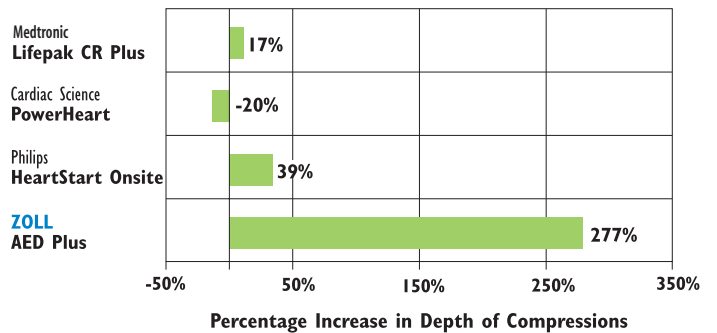
The ZOLL AED Plus is the only AED to use inexpensive, consumer batteries that are easy to replace and last at least five years in stand-by mode. These lithium camera batteries are available at most department and electronics stores.



ZOLL's Rectilinear Biphasic™ Waveform

The ZOLL Rectilinear Biphasic waveform is the only biphasic waveform cleared by the FDA⁵ to be labeled as clinically superior to monophasic waveforms for the conversion of ventricular fibrillation in high-impedance patients.⁶ It allows the AED Plus to deliver more current than any other AED when it matters most.

The ZOLL AED Plus improves CPR performance the most.⁸



ZOLL

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The AED Plus has all the hallmarks of a ZOLL product: advanced technology, durability, quality, and value. With more than 20 years of experience in defibrillation—and 10 years manufacturing AEDs—ZOLL is a pioneer in resuscitation solutions. ZOLL is a standard used in leading hospital, EMS, and public safety facilities worldwide.

The ZOLL® AED Plus™ can be easily reconfigured to meet special needs such as modifying voice prompts, prompting CPR before a shock, and changing shock levels.

Advanced Medical Control

All information recorded by the AED Plus in an emergency, including CPR compression data, ECG, and optional audio recording, can be evaluated and analyzed by a medical professional for retrospective analysis. The data can be downloaded via a standard infrared port, found on computers and Pocket PCs.

Self-Testing Assures Constant Readiness

The ZOLL AED Plus conducts a self-test every one to seven days, depending on the configuration chosen. The status indicator shows either a green “√” or a red “X” to clearly indicate whether the unit is ready for use. When the unit requires new batteries, it sounds an alarm and displays a red “X.”

Everything You Need for the Rescue

The CPR-D • padz™ comes complete with a CPR barrier mask, scissors, disposable gloves, a prep razor, a towel, and a moist towelette.



References

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3. Kern KB, Hilwig RW, Berg RA, Ewy GA. "Efficacy of chest compression-only BLS CPR in the presence of an occluded airway." Resuscitation. 1998; 39:179-188.
4. Handley AJ, Handley JA. "The relationship between rate of chest compression and compression:relaxation ratio." Resuscitation. 1995; 30:237-241.
5. FDA 510(k) Clearance K990762.
6. M Series Operator's Guide, Rectilinear Biphasic Waveform Defibrillator Option Insert, 9650-0209-01.4-5. For defibrillation of VF: "... data also must demonstrate the superior efficacy of low-energy rectilinear biphasic shocks in patients with high transthoracic impedance at 90%* confidence level. *Kerber R, et al. AHA Scientific Statement, Circulation. 1997; 95:1677-1682. For cardioversion of AF: "...data demonstrate the superior efficacy of low energy rectilinear biphasic shocks compared to high energy monophasic shocks for transthoracic cardioversion of atrial fibrillation."
7. Miller SG et al. "Lay rescuer adherence to the chain of survival: A comparison of four automated external defibrillators." Prehospital Emergency Care. 2004; 8:91(abstract).
8. Ibid.

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