

ZOLL®

Powerheart® AEDs

Product Presentation

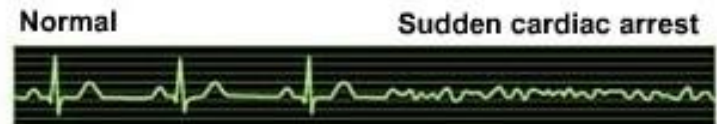
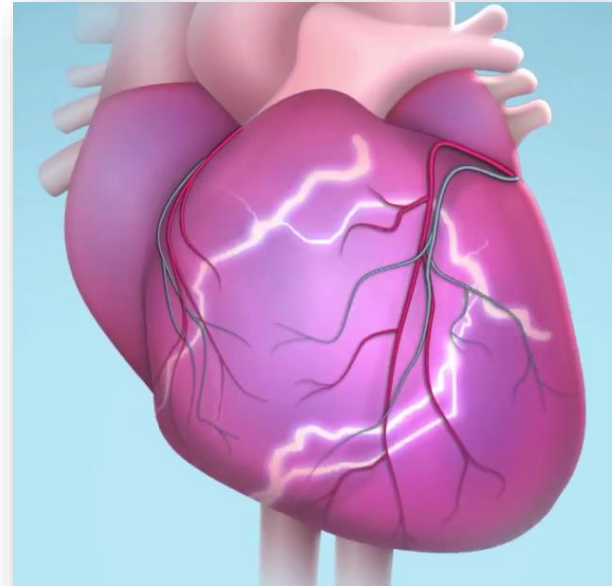
**DESIGNED FOR
UNEXPECTED
HEROES™**



Sudden Cardiac Arrest

What is Sudden Cardiac Arrest (SCA)

- Electrical failure in the heart - Heart fibrillates/quivers and stops pumping blood
- Victim loses consciousness and collapses almost immediately
- Victim is completely unresponsive, pale and not breathing
- If not treated, a victim's chances of survival decreases by 10% for every passing minute
- SCA can happen to anyone, anytime and anywhere



What Impacts Survival?



Time to CPR

Time to Defibrillation

CPR Quality

What Does CPR Do?

CPR 'slows down' the time it takes the victim to become 'irretrievably dead'



1. CPR PROVIDES BLOOD TO THE BRAIN

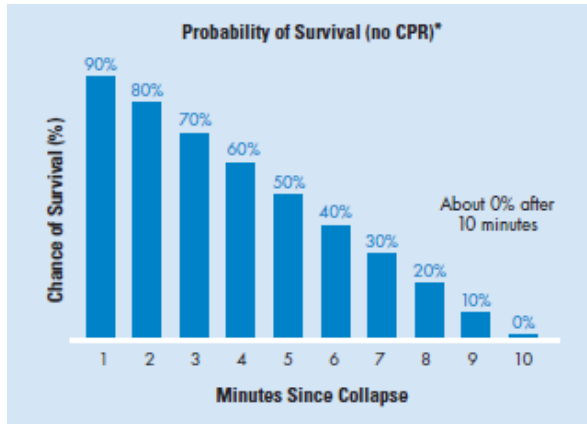


2. CPR MOVES BLOOD THROUGH THE HEART, TO THE HEART

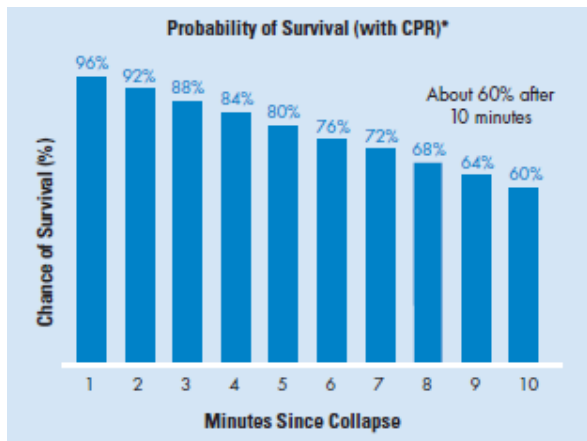


3. EVACUATES BLOOD FROM THE DISTENDED HEART

How Important is CPR?

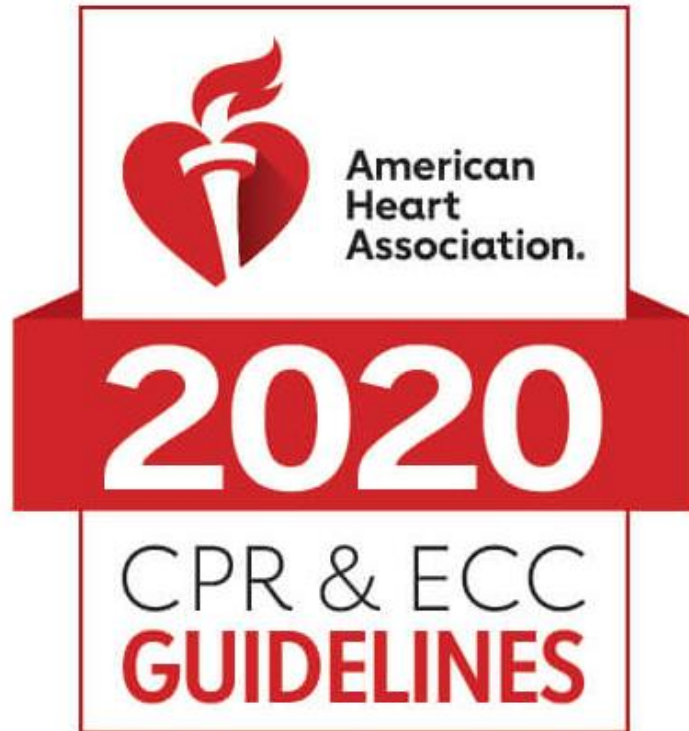


With NO CPR the chances of survival diminish by 10% for every minute that passes from collapse



With “High Quality CPR” the victim’s chance of survival diminishes by only 3% to 4% every minute
















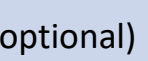





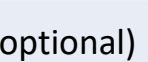



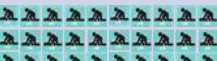

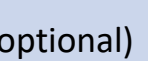
What is High Quality CPR?



- ❖ Chest compression rate 100-120 compressions/minute
- ❖ Chest compression depth 5-6 centimetres
- ❖ Minimize interruptions in chest compressions (< 10 seconds)
- ❖ Allow complete chest recoil
- ❖ Ratio of compressions to rescue breath (30:2) – lay rescuers may perform compression-only CPR in adult victims

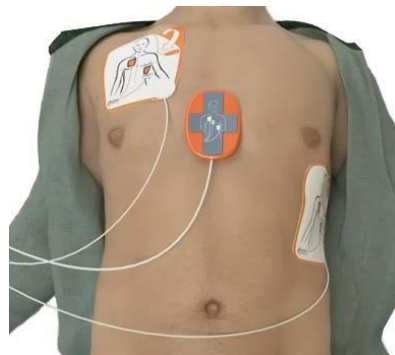
Is CPR Important? The AHA Thinks So.

- American Heart Association Emergency Cardiovascular Care (ECC) Guidelines drive AED rescue instruction protocols.
- Guidelines have evolved** to place **more focus on high quality CPR**, and less focus on defibrillation shocks and rescue breaths.

AHA Guidelines	# of Shocks	CPR Interval		CPR Depth (cm)	Rescue Breaths
		Minutes	Compressions		
2000	3 Shocks 	1	 15 	NA	2 
2005	1 Shock 	2	  30 	4 	2 
2010	1 Shock 	2	  30 	5+ 	2 (optional) 
2015	1 Shock 	2	  30 	5-6 	2 (optional) 
2020	1 Shock 		  30 	5-6 	2 (optional) 

The ZOLL Difference

Only ZOLL AEDs provide **real-time, guideline-driven measurement and feedback** on the quality of CPR compressions.



AEDs with real-time CPR feedback have been clinically proven to increase the survival of SCA victims by 2.7x *

Does CPR Feedback Improve Survival?

A four (4) year study demonstrated that **ZOLL AEDs equipped with real-time feedback** and training more than doubled cardiac arrest survival.

- Bobrow, Mesa, AZ Study

Based on the Bobrow findings, the AHA published this excerpt (right).

“

“Given the insights into clinical performance and discoveries in optimal practice, ***monitoring of CPR quality is arguably one of the most significant advances in resuscitation practice in the past 20 years and one that should be incorporated into every resuscitation*** and every professional rescuer program.”

- 2013 AHA Consensus Statement

”

Providing CPR without monitoring performance can be likened to driving a car without headlights.



Powerheart[®] G5

Delivering Corrective Feedback with Intellisense™ CPR (ICPR)

SMART

Provides active CPR Feedback for compression rate, depth and recoil

Proprietary algorithm

- Monitors each of the rescuer's CPR compressions and provides one of four distinct, corrective voice and text prompts when detecting compressions outside of guidelines:
 - ✓ *'Press Faster'*
 - ✓ *'Press Slower'*
 - ✓ *'Press Softer'*
 - ✓ *'Press Harder and Fully Release'*
- ICPR delivers voice and text corrective prompts for rate, depth and recoil. And only ZOLL can deliver these text/voice corrections in either a primary or alternate language.

Easy Sensor Placement

- Placed in the center of the chest helping ensure proper hand placement during compressions



The G5 gives real-time feedback for CPR rate and depth.

Dual-Language Option Expands Potential Rescuer Base

One Device...Two Languages

Intuitive Language Button

- Preferred language can be selected by user during rescue – swap between primary and secondary languages with a simple touch of button
- Delivers clear, self-paced, user instructions for CPR feedback and shock delivery in English or alternate language

No Rescue Delays

- A touch of a button changes the voice/text prompts in the chosen language without restarting or delaying the rescue.



RescueCoach® Follows User's Pace

Guide rescuers through each critical step of the rescue with user-paced voice/text prompts

- RescueCoach® guides users through each step of the rescue with user-paced prompts
- Prompts only advance after successful completion of each critical step
- Prompts keep up with lay and experienced rescuers
- Complete CPR instruction helps lay rescuers use correct techniques



Rescue Ready®

Readiness is a vital part of any AED program because sudden cardiac arrest (SCA) can happen at any time.

Three (3) critical components are tested daily to ensure they are Rescue Ready®:

- ❖ AED internal circuitry / software to ensure the device is fully functional
- ❖ Installed Intellisense® battery to ensure battery capacity and expiration
- ❖ Connected Intellisense™ defibrillation pads to ensure pads are functional (hydrated) and within expiration.

Highly visible readiness indicator assures the rescuer that if it's green, it's ready to rescue.



Accessible Service Information

- Smartgauge™ Battery Status Indicator displays the remaining capacity of the battery
- Defibrillation pads indicator
- Red LED on service indicator denotes device self-test failure



Intellisense® Battery

Intellisense® high capacity, long-life battery ensures readiness

- Communicates its capacity and readiness to ensure reliable performance
- 4-year operational performance guarantee
- Robust and rugged enclosure promotes durability





Thank You.