

A legacy of  
**innovation.**  
A legacy of  
**saving lives.**



# History of Innovation



## THE BEGINNING

## THE POWER

**1991**

Cardiac Science, Inc. is formed to develop rhythm-analysis software, the foundation for the first fully automatic bedside defibrillator.

Founded in Irvine, California.

**1992**

SurVivaLink Corporation founded in Minnesota by Byron Gilman and Kenneth Olson.

**1995**

SurVivaLink Corporation receives FDA clearance for VivaLink, the first commercial AED.

**1999**

SurVivaLink receives FDA market clearance on the first pre-connected defibrillation pads.

**2001**

Cardiac Science, Inc., acquires SurVivaLink Corporation.

**2003**

Cardiac Science launches Powerheart® G3 AEDs.



**Our footprint:** Over 500,000 AEDs deployed in 90 countries throughout the world.

**Our customers:** Emergency services, companies, schools, gyms, sports associations, and many more.



## POWERHEART G3 ERA

### 2004

Cardiac Science receives FDA clearance on the first fully automatic public access defibrillator AED.

### 2012

Cardiac Science incorporates new ERC / AHA guidelines into Powerheart G3 models.

Corporate headquarters relocates to Waukesha, Wisconsin.

Cardiac Science introduces G5 AED in parts of Europe and Australia.

## G5 ERA

### 2015

Cardiac Science introduces Powerheart® G5 AED in the United States.

### 2016

Aurora Resurgence, an affiliate of Aurora Capital Group, purchases Cardiac Science.

# The Cardiac Science Difference

Cardiac Science was founded in 1991, and has quickly become a leader in developing and marketing potentially life-saving AED technology. The company has continually brought innovation to the AED category, and has achieved more than 100 patents in pursuit of its primary goal: to contribute to saving more lives by delivering the highest quality AEDs available. From Rescue Ready® technology that self-tests Powerheart® AEDs every day and helps ensure readiness, to STAR® Biphasic technology that customises defibrillation energy to the patient, Powerheart AEDs incorporate technology that ensure they are easy to use and ready to rescue. It's a legacy of innovation that goes back to the company's early days, when Cardiac Science developed the first FDA-cleared fully automatic defibrillator.

Cardiac Science is headquartered near Madison, Wisconsin, in the United States, with commercial operations around the world. With over 500,000 AEDs now deployed, the company is a global leader in the AED category. Every Cardiac Science employee around the world is committed to extending the company's legacy of quality, readiness, and innovation, with the ultimate goal of helping save more lives from sudden cardiac arrest (SCA).







***Fitness Center Workers  
Save New Mother's Life***



***Two Cable Car  
Employees Save  
Life of a Tourist***

The headlines are  
**breathtaking**



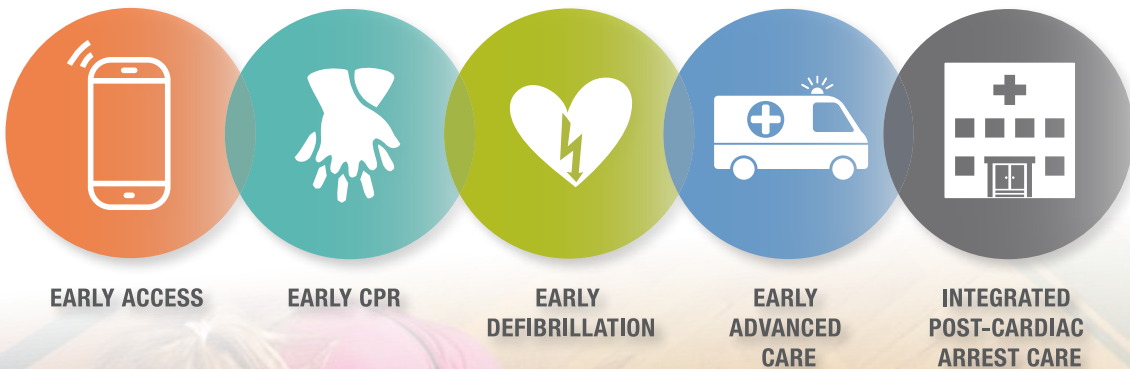
***Two Quick-Thinking Teachers  
Save 12-Year-Old Student's Life***



# The SCA Crisis

*Empower people to become part of the chain of survival through Powerheart® AEDs.*

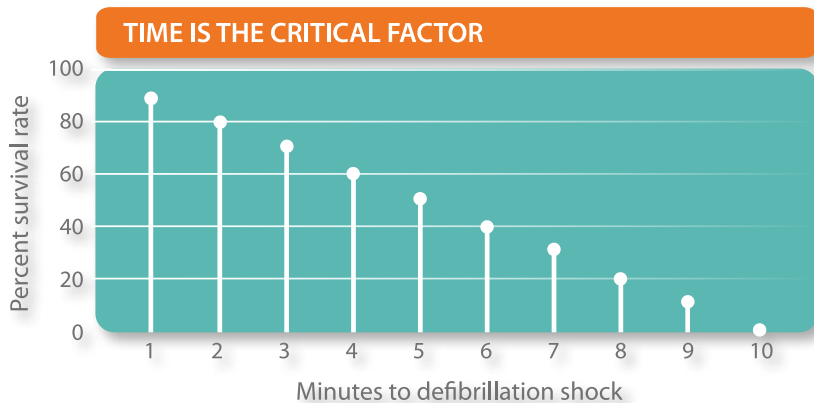
According to the European Resuscitation Council (ERC), approximately 350,000 people suffer sudden cardiac arrest (SCA) every year in Europe, or 1,000 people each day. It is the cause of ~20% of all deaths in Europe and is one of the leading causes of death. On initial heart-rhythm analysis, about 25–50% of SCA victims have ventricular fibrillation (VF) but when the rhythm is addressed soon after collapse, in particular by an on-site AED, the proportion of victims in VF can be as high as 76%. The recommended treatment for VF cardiac arrest is immediate bystander CPR and early electrical defibrillation.<sup>1</sup> For any SCA victim, the sooner they receive defibrillation therapy, the better their chances of survival — precisely why having an AED accessible and ready to use while you're waiting for emergency medical responders is so important.





# Time Is Critical For Survival

If a rescuer can provide defibrillation in the first minute, the victim's chance of survival increases to more than 90 percent.<sup>1</sup>



Several studies have documented the effects of time to defibrillation on survival from cardiac arrest, and the consensus is that minutes count. If a rescuer can provide defibrillation in the first minute, the victim's chance of survival increases to more than 90 percent. However, each minute that passes will decrease the victim's chance of survival by 7–10 percent if no defibrillation is provided.<sup>1</sup>

1. European Resuscitation Council Guidelines for Resuscitation 95 (2015); Section 1. Executive Summary (1-80).



# Why Cardiac Science AEDs?

*Five reasons to choose a Powerheart® AED*

## **PATENTED RESCUE READY® TECHNOLOGY**

Powerheart AEDs perform automatic daily, weekly, and monthly self-tests to monitor critical components, including the internal circuitry and software. Our pre-connected defibrillation pads and medical grade battery are also tested each day for both presence and functionality. If anything is amiss, the Rescue Ready indicator immediately changes from green to red and emits an audible tone to cue users that attention is required.

## **EASY WITHOUT COMPROMISE**

All Powerheart AEDs include RescueCoach™ technology which provides clear, calm user paced prompts to give first-time responders the confidence to perform a rescue. The Powerheart G5 with optional Intellisense™ CPR Feedback provides corrective CPR prompts to help first time and professional rescuers deliver compressions to the latest ERC guidelines. Furthermore, the fully automatic shock delivery feature eliminates user hesitation.\*

## **ADVANCED PATIENT CARE**

Each Powerheart AED includes patented RHYTHMx® technology to assess the patient's heart rhythm. Sophisticated STAR® biphasic technology delivers a customised shock at an appropriate energy level.

## **FLEXIBILITY AND DURABILITY**

Powerheart AEDs are designed to be tough and have been deployed in the most challenging settings. For example, the Powerheart G5 AED meets rugged military standards and has a high ingress protection rating (IP55) against water and dust. The Powerheart G5 has great flexibility as well—it lets you choose from an array of prompt settings, shock protocols, and CPR settings to meet specific requirements.

## **THE PEACE OF MIND IN WORKING WITH CARDIAC SCIENCE**

For more than 20 years, Cardiac Science has developed patented technologies such as fully automatic AED operation, pre-connected pads, and many other innovations that have shaped how first responders use AEDs to save lives. Each Powerheart AED is supported by an experienced global staff of AED Certified Specialists and a team of select partners to provide expert deployment consultations and training. Finally, Powerheart AEDs are built to last with a multi-year device warranty programme, the industry's strongest indemnification policy, and an industry-leading 4-year full operational guarantee on genuine Intellisense® non-rechargeable medical-grade batteries.





# Successful Rescues

We never forget our mission at Cardiac Science: Putting potentially life-saving Powerheart® AEDs into the hands of rescuers. In fact, we hear remarkable stories from people like you who've either helped save a life or had their life saved. Here are just a few of their stories:



**Caden**

Caden Cherry, 12, was playing soccer in gym class at Creekland Middle School (USA) when he collapsed from sudden cardiac arrest. His twin brother, Cooper, immediately alerted school staff. Thanks to his brother's quick actions and the school's insistence on emergency preparedness, Caden's life was saved after a school nurse shocked him with a Powerheart® AED. Said Caden's mom, Kerrienne Cherry, "The Powerheart AED is why my son is alive today."



**Samantha**

It was a normal day for Samantha Jobe as she was warming-up for her workout at Crossfit121, Melbourne (AUS) with her husband Damien and eight-week-old daughter Makayla looking on. Normal until her heart stopped and she had no pulse. A team of rescuers, including the gym owner and employees at a nearby chemical company, swung into action, performing CPR before shocking her with a Powerheart® AED. Samantha's heartbeat was restored, and she is now living proof that AEDs help save lives. Said Samantha, "You have given me the chance to watch my daughter grow and for her to have a mom and a chance to grow old with my husband. The gratitude that fills my heart is immeasurable. I can only hope I make you proud by living each day to its fullest potential."



**David Lloyd Leisure**

Although there's no legal requirement in the United Kingdom (UK) for fitness clubs to have AEDs on their premises, David Lloyd Leisure (DLL) has a different set of rules they operate by: saving lives by any means necessary. Since 1998, the DLL staff has used automated external defibrillators (AEDs) to save the lives of more than 150 people. "We've had such success with Cardiac Science Powerheart® AEDs it would have been foolhardy to move away from a device that has been successful in enabling us to deliver such fantastic results," said Caleb Brown, Health and Safety Manager at DLL.



**Kevin**

Just six months after a Powerheart® AED was installed at Hillingdon Athletic Club in Ruislip (UK), the investment paid off: it saved a person's life. Just 100 meters from the end of a 20-mile run called the Finchley 20, Kevin Twomey suffered a sudden cardiac arrest. Two nurses – one watching and one running past – and club member Nigel Ealand, performed CPR while a fourth person ran to the clubhouse to retrieve a Powerheart® AED. Within minutes it delivered a life-saving shock. Said Kevin, "I am very lucky to be here. Lucky that I collapsed so near the finish, that medically trained people were on hand so quickly, and that an AED was available. It definitely saved my life."

***"The gratitude that fills my heart is immeasurable. I can only hope I make you proud by living each day to its fullest potential."***



# At the Heart of Saving Lives®

Founded in 1991 on the guiding principle that AEDs must be simple to use and always ready when called upon, Cardiac Science is the leader in developing AED technology.

We are headquartered in the United States with offices across Europe. Our presence extends globally with over 500,000 Cardiac Science AEDs deployed worldwide. We are the company that helps first responders increase sudden cardiac arrest survival rates.



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