



By Ryan Landon
Vice President and General Manager, Emergency Care Public Access

Better technology. Better outcomes.

Help increase sudden cardiac arrest survival rates with cprINSIGHT™ Analysis Technology

No one expects to resuscitate a victim of sudden cardiac arrest (SCA) in a public place. Yet SCA can happen anywhere, at any time, and affects nearly 370,000 people in the United States each year.¹ Unfortunately, nine out of 10 of those victims don't get the help they need from bystanders before an ambulance arrives.²

Increasing the number of connected automated external defibrillators (AEDs) in public places where most CPR begins helps save lives, and using devices equipped with the latest in CPR technology combined with high-quality CPR is a critical link in the chain of survival.

Performing CPR with minimal pauses is one of the most important actions during a resuscitation. In fact, dismal survival rates prompted professional organizations like the American Heart Association (AHA) to establish new and more vigorous CPR guidelines for medical professionals. The guidelines now specifically emphasize the need to minimize pauses.³

Older AED technologies require rescuers to pause for 10 seconds or more to perform rhythm analysis, reducing hands-on time and blood perfusion, adversely affecting survival rates. Stryker's exclusive LIFEPAK® CR2 defibrillator with cprINSIGHT Analysis Technology is the first and only AED that features a proprietary algorithm that decreases hands-off time and reduces or eliminates pauses associated with ECG analysis and defibrillator charging by analyzing the patient's ECG and impedance data during chest compressions. This reduction in pauses helps maintain circulation of the blood, leading to better patient outcomes.^{4,5}

CprINSIGHT Analysis Technology automatically analyzes and detects if a shock is needed. If a shockable rhythm is detected, the necessary pause time is shortened to only the time required for the rescuer to stand clear and deliver the shock. If no shock is advised, the pause for analysis is eliminated altogether, allowing for continuous CPR. This requires no judgement call by the user, no additional accessories or confusing tools, and keeps them focused on what really matters—helping save a life.

In both the shock advised and no shock advised situations, two prompts are no longer needed during the rhythm analysis, saving 10 to 14 seconds during a resuscitation.⁶

In an AED comparison study, the LIFEPAK CR2 defibrillator with cprINSIGHT Analysis Technology helped lay responders deliver the highest overall CPR quality and was rated easiest to use, easiest to hear and highest in overall user confidence.⁷

Visualize a future where better technology enables better outcomes—and more lives saved.

[Learn more now.](#)

1. Benjamin E, Virani S, Callaway C, et al. Heart disease and stroke statistics – 2018 Update. *Circulation*. 2018; 137:e355.

2. AHA. CPR facts and stats. n.d. [Cited 2018 May 11.]

3. Kleinman M, Brennan E, Goldberger Z, et al. Part 5: Adult basic life support and cardiopulmonary resuscitation quality. 2015 American Heart Association Guidelines.

4. Brouwer TF, Walker RG, Chapman FW, et al. Association Between Chest Compression Interruptions and Clinical Outcomes of Ventricular Fibrillation Out-of-Hospital Cardiac Arrest. *Circulation*. 2015;132(11):1030-7. doi: 10.1161/CIRCULATIONAHA.115.014016.

5. Cheskes S, Schmicker RH, Christenson J, et al. Perishock pause: an independent predictor of survival from out-of-hospital shockable cardiac arrest. *Circulation*. 2011;124(1):58-66. doi: 10.1161/CIRCULATIONAHA.110.010736.

6. Stryker cprINSIGHT Analysis Technology Whitepaper, GDR 3341345_A 7. Physio-Control Internal Semi-Automatic AED Comparison Usability Study, August 2016.