

R Series®

ZOLL®



Taking Resuscitation  
**to Heart**

# Because It's Not Just About a Shock

Remarkably, 80% of in-hospital cardiac arrests present with a non-shockable rhythm. That's why it's vitally important that defibrillators go beyond just providing a shock.

Shockable or nonshockable rhythm, 100% of patients will require CPR, and the better the CPR, the better the outcome. Survival depends on compressions that are fast—but not too fast—and deep—but not too deep—with full release, minimal interruptions, and appropriate ventilation.

That's a lot to keep track of. It's the reason R Series® Monitor/Defibrillators have easy-to-use technologies that help you consistently deliver high-quality CPR. With the R Series ALS and the R Series Plus, you have the flexibility to meet the needs of all providers, whether BLS or ALS trained, and all patients, from pediatrics to adults.

## CPR Metrics on Display

Using Real CPR Help® technology, the R Series provides audio and visual feedback that guides rescuers to consistently deliver high-quality CPR. If compressions aren't deep enough, you will hear, "Push harder." And detailed visual feedback, including the rate and depth of each compression, is displayed on the CPR Dashboard™. If either one falls out of the Guidelines-recommended range, it will be indicated by a color change. Additionally, the diamond-shaped Perfusion Performance Indicator, or PPI, provides a quick indication of how well the combined rate and depth of compressions match current CPR Guidelines.

The dashboard also provides a compression release indicator. When the bar is full, you know that you've come completely off the chest to allow for full recoil.

## Maximize CPR Fraction

The 2015 AHA and ERC Guidelines emphasize the importance of maximizing the proportion of time spent delivering chest compressions. During a code, minutes can seem like seconds, and the longer the pauses in compressions, the harder it is to deliver a successful shock. After a 3-second delay in compressions, the R Series displays a CPR idle timer to help track and minimize pause times.

One of the most common reasons for interruptions in CPR is stopping to determine whether an organized, shockable rhythm has developed. With ZOLL's patented See-Thru CPR® technology, the compression artifact is filtered out, making it possible to see whether an organized rhythm is present during CPR. By reducing the duration of pauses, See-Thru CPR is just one more way the R Series is designed to help you provide high-quality CPR.

## CPR Dashboard

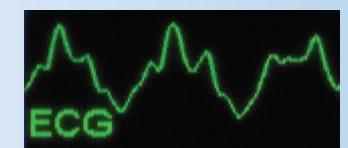


Inadequate compressions

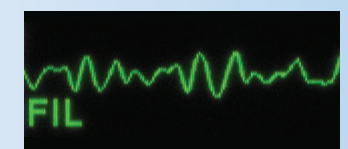


Good compressions

## See-Thru CPR



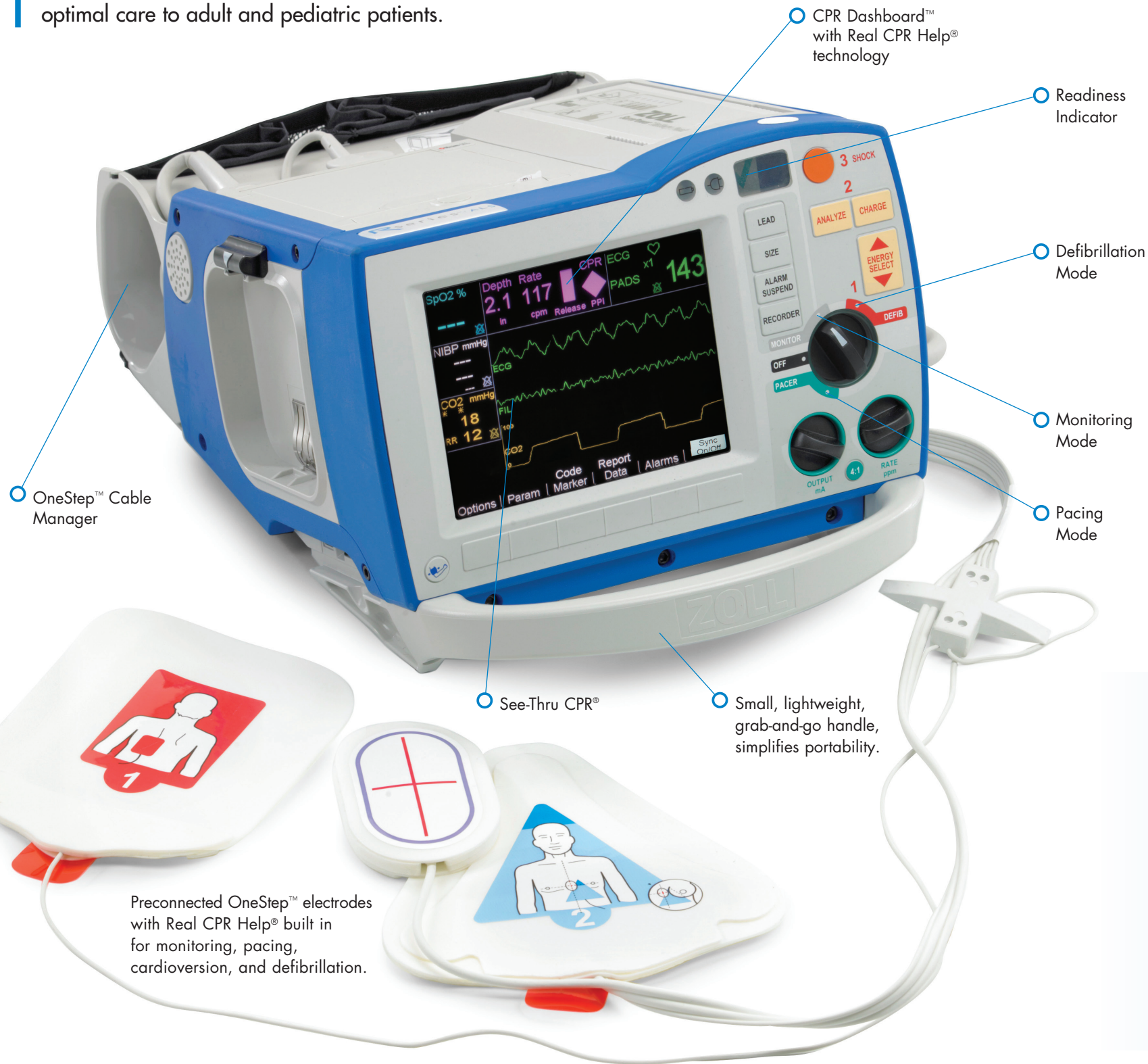
Unfiltered ECG signal during CPR



Signal filtered by See-Thru CPR

# OneStep Simplicity

The R Series is designed to help you deliver optimal care to adult and pediatric patients.



## OneStep Simplicity

Delivering therapy is easy with the OneStep™ family of electrodes. Monitor, defibrillate, or pace—without the need for a separate three-lead ECG cable—with OneStep Complete electrodes. To take advantage of Real CPR Help, use OneStep Complete, OneStep CPR, or OneStep Pediatric CPR electrodes. And, with a dual circuit design, OneStep electrodes can remain pre-connected, even during a 30-joule shock test. They're available in anterior/anterior or anterior/posterior configurations.

## Extensive Pediatric Capabilities

When used with OneStep Pediatric electrodes, the R Series automatically reduces the shock energy to a lower protocol, starting at 50 joules rather than 120. And when the R Series is in Advisory mode or the R Series Plus is in AED mode, the OneStep Pediatric electrodes enable a pediatric algorithm that can distinguish between a shockable and nonshockable rhythm.

The unique OneStep Pediatric CPR electrodes also provide visual feedback by displaying the rate and depth of every compression on the CPR Dashboard. These electrodes are specifically designed to ensure precise CPR measurements in small children.

Manual interface activated



## R Series Plus

### User-inspired Flexibility

The R Series Plus is truly two devices in one. To meet the needs of BLS-trained responders, it powers on as an AED. But with the push of a button, it converts to a full-featured manual defibrillator for ALS responders.

# It's in Your Hands

Improving outcomes is in your hands. The R Series provides advanced technologies to support you during every code.



## Always Code-Ready®

The R Series conducts a comprehensive self-test of more than 110 individual indicators of readiness once a day. Using standard wireless technology, it can automatically relay this information to Defibrillator Dashboard,™ which provides a quick snapshot of the overall health of the entire defibrillator fleet that can be viewed on a PC or mobile device. Defibrillator Dashboard optimizes defibrillator readiness and increases efficiency for the biomedical engineering team.

*ZOLL data products can improve efficiency and quality by providing at-a-glance dashboards that display defibrillator readiness and CPR quality.*



## Debrief with Unmatched Accuracy

After a cardiac arrest event, the R Series supports continuous quality improvement (CQI) initiatives with the push of two buttons, sending the code data rapidly and wirelessly to a designated server. These comprehensive data include the number of shocks, ECG, end-tidal CO<sub>2</sub> values, and CPR quality, which can be viewed using a number of code data programs. Choose the one that's right for your institution.



## ZOLL MEDICAL CORPORATION

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