

Provide cost-effective, scaleable simulation with the *ACLS Virtual Reality Simulation*

In-hospital cardiac arrest survival rates significantly vary between hospitals, from 11% to 35% and patients in which clinical staff reported adequate resuscitation training have greater than 3-fold odds of higher survival rates than patients where adequate training programs are lacking¹.

ACLS certification is active for two years; however, knowledge of this life saving competency decays at 6 months for those who work in non-critical care areas (majority of the hospital)². Health systems have struggled to implement cost-effective and adequate refresher training due to the volume of individuals needing training and limited numbers of clinical educators.

ACLS Virtual Reality Simulation training was created in response to this need. Our immersive VR application is designed to complement AHA's HeartCode® training program. The virtual simulation instructs participants and validates the competencies requisite to diagnosing and resuscitating adults with cardiopulmonary arrest and other common cardiopulmonary emergencies. By virtualizing training, organizations are able to provide refresher training at scale and 50% less than the cost of physical simulation.

Learners play the role of the clinician running the mega code and are provided thirteen total scenarios that reflect both cardiac and non-cardiac arrest scenarios. The experiential learning method requires learners to identify the different cardiac waveforms and direct non-player virtual team members to shock, give meds, and/or perform CPR as necessary using state of the art voice recognition technology.

The *ACLS VR Simulation* works on any Windows based VR device and is available as an independent simulation or as part of Health Scholars One™ blended learning platform. To learn more visit healthscholars.com.

1 Resuscitation Practices Associated with Survival After In-Hospital Cardiac Arrest: A Nationwide Survey. JAMA Cardiol. 2016 May 1; 1(2): 189–197 2016, 189-197

2 Resuscitation Education Science: Educational Strategies to Improve Outcomes From Cardiac Arrest. Circulation. 2018;138:e82–e122. August 2018

AT-A-GLANCE:

ACLS Virtual Reality Simulation can be used as a pre-learning application before physical simulation or as supplemental training to validate and refresh competencies requisite to identifying and managing the ACLS core rhythms in stable and unstable patient conditions. Our VR simulation was designed in accordance with AHA guidelines and specifically to reinforce:

1. Addressing team members by name and making eye contact
2. Situational awareness of team member fatigue and performance of tasks
3. Closed loop communications

The *ACLS Virtual Reality Simulation* provides healthcare professionals the ability to apply their ACLS certification training through voice-directed actions to animated characters for real-life interaction and practice. The simulation features:

- All of the AHA core rhythms plus return of spontaneous circulation (ROSC)
- Places the learner in the role of the team lead and recreates the stress of a mega code situation
- Provides extensive practice, assessment and skills validation including having the learner redo failed waveform identification
- Can be done without having to schedule an entire team, extending the reach of training
- Can be done at the convenience of the learner encouraging frequency of training

ACLS Virtual Reality Simulation Product Overview

NON-CARDIAC ARREST

Learner must recognize rhythms to inform management of a non-arrest patient.

- SVT (AVNRT)
- Sinus Tachycardia
- Ventricular Tachycardia
- Sinus Bradycardia
- 2nd Degree AV Block - Type 1
- Atrial Fibrillation with RVR
- Atrial Flutter
- Sinus Bradycardia
- AV Block



CARDIAC ARREST

Learner must demonstrate situational awareness of the patient's condition, ensure high quality chest compressions, avoid excessive ventilation and manage the following rhythms:

- Ventricular Fibrillation
- Ventricular Tachycardia
- Pulseless Ventricular Tachycardia
- Agonal/ Asystole



OTHER FEATURES

- Ask the patient about their condition
- Ask for sedation medications
- Ask for the patient to be intubated
- Ask for an ECG
- Ask for pulse and rhythm checks
- Ask to perform intraosseous
- Simulation debrief



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