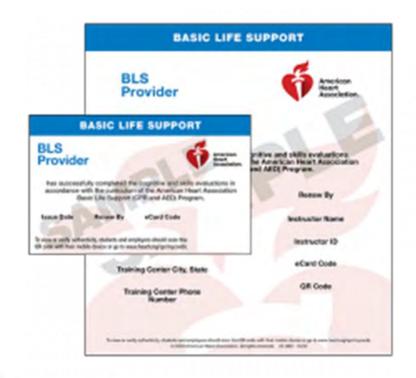
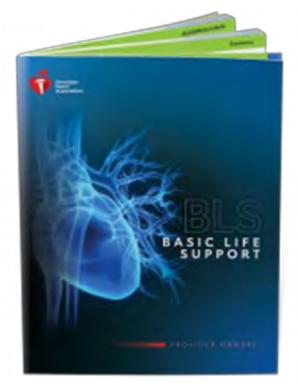
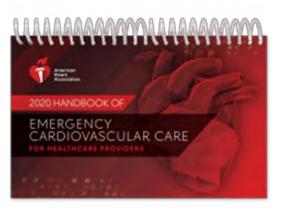
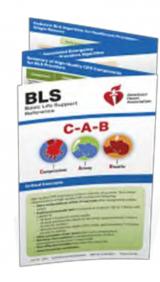
BLS Study Guide 2021











Welcome to LearnACLS a multi-regional and international American Heart Association Training Center, the home of "Stress Free Leaning".

If you register and pay 10 days prior to the class, you may choose to receive your course materials shipped to you for an additional \$7.95. Please take the opportunity to review the materials prior to attending your course. Enclosed you will find a quick reference study guide which we have prepared to assist you in preparing for your course. This guide is not meant to replace your AHA materials but to facilitate your learning.

Upon successful course completion, including demonstration of skills competency in all learning stations and passing the skills test, bag-mask ventilation skills test, and a written test, students receive an BLS course completion card, valid for two years.

Once again thank you for choosing LearnACLS for your American Heart Association training needs. We look forward to seeing you at your class.





High quality CPR and early defibrillator is the core of BLS care in the cardiac arrest patient.

High quality CPR can be measured by, Partial End Tidal Carbon Dioxide (PETCO). A reading greater than 10 and less than 23 indicates high quality CPR. The normal PETCO is 35-45 mm HG. Any reading less than 10 indicates ineffectiveness CPR during resuscitation.

A sudden rise of PETCO towards normal is the first sign of return spontaneous circulation (ROSC).

If an AED does not analyze it is defective, do not attempt to troubleshoot.

Integration of the Rapid Response Team (RRT) or Medical Emergency Team (MET) facilities early identification of clinical deterioration of patients and visitors in hospital and improves overall outcome.

In Return of Spontaneous Circulation (ROSC) algorithms the first priority is to maintain airway, the overall focus is maintenance of homeostasis.





Check for pulse & breathing or abnormal breathing (5-10 seconds); Health care providers are encouraged to simultaneously perform checking for breathing and pulse.

The rate of chest compressions is 100 to 120 compressions.

Adult a depth between 2 to 2.4 inches (5-6cm); Child a depth of at least 2 inches (5cm); Infant a depth of at least 1.5 inches (4cm)

Health care providers are encouraged to simultaneously perform checking for breathing and pulse.

The rate of chest compressions is 100 to 120 compressions.

HCP will provide rescue breaths for the adult at a rate of 1breath every 5-6 sec. (10-12/min); Respiratory or cardiac arrest in pediatric is one (1) breath every 2-3 seconds (20-30/minute) with or without advanced airway.

Once an advanced airway is in place continuous CPR with 1 ventilation every 6 sec. (10/min)

For infants a single rescuer may also use two thumbs or the heel of one hand for infant compressions.

Use of bag-mask ventilation is not recommended for a lone provider. Bag-mask ventilation is most effective when performed by 2 providers.



Key changes in advanced cardiovascular life support, reflecting the 2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care

Basic life support skills, including effective chest compressions monitored by a CPR Coach, use of a bag-mask device with a filter and use of an (AED). For infants, a single rescuer may use two thumbs or the heel of one hand for compressions.

Recognition and early management of respiratory and cardiac arrest

Airway management rescue breaths for Peds is 1 breath every 2 to 3 seconds (20 to 30 breaths/min)

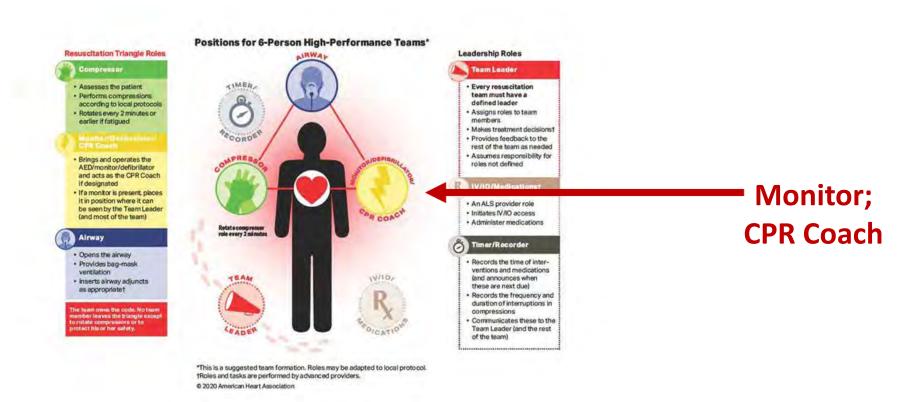
Effective communication as a member and leader of a resuscitation team

Effective Resuscitation Team Dynamics

Booster sessions (every 90 days) is recommended when a massed learning approach was used for resuscitation training. A spaced learning approach is recommended over a massed learning approach..

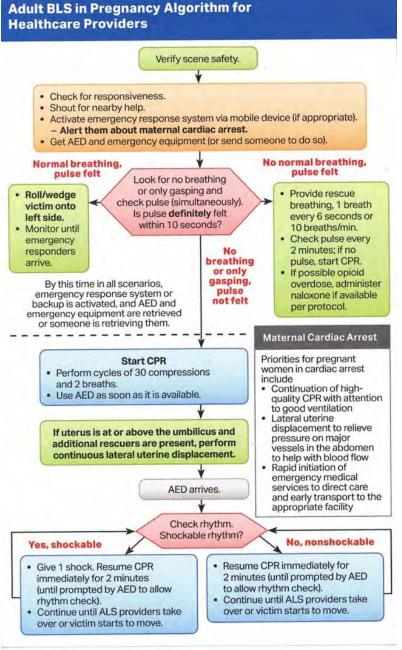






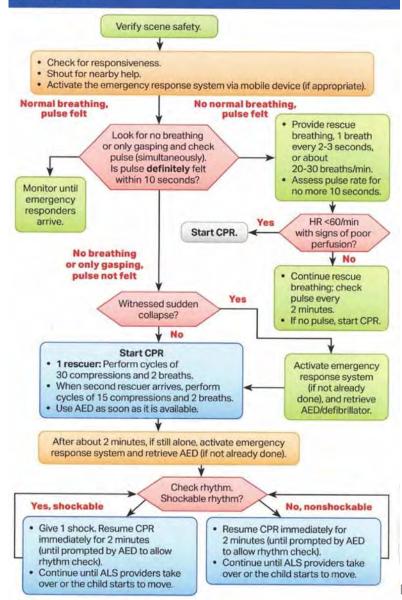


Adult BLS Algorithm for Healthcare Providers Verify scene safety. · Check for responsiveness. · Shout for nearby help. Activate emergency response system via mobile device (if appropriate). · Get AED and emergency equipment (or send someone to do so). Normal No normal Provide rescue breathing, breathing, breathing, 1 breath pulse felt pulse felt every 6 seconds or 10 breaths/min. Monitor Look for no breathing Check pulse every or only gasping and check until 2 minutes: if no pulse (simultaneously). emergency pulse, start CPR. responders Is pulse definitely felt If possible opioid within 10 seconds? arrive. overdose, administer naloxone if available No breathing per protocol. or only gasping pulse not felt By this time in all scenarios, emergency response system or backup is activated, and AED and emergency equipment are retrieved or someone is retrieving them. Start CPR · Perform cycles of 30 compressions and 2 breaths. Use AED as soon as it is available. AED arrives. Check rhythm. Shockable rhythm? shockable nonshockable · Give 1 shock, Resume CPR · Resume CPR immediately for 2 minutes (until prompted by AED immediately for 2 minutes to allow rhythm check). (until prompted by AED to allow Continue until ALS providers take rhythm check). Continue until ALS providers take over or victim starts to move. over or victim starts to move.



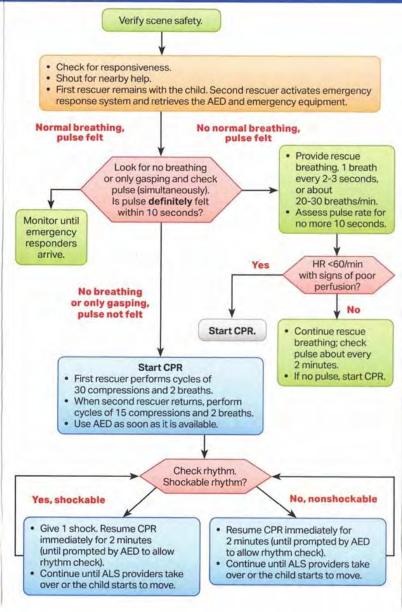
BLS Healthcare Provider Adult Cardiac Arrest Algorithm for Suspected or Confirmed COVID-19 Patients Updated April 2020 Verify scene safety Don PPE Limit personnel Victim is unresponsive. Shout for nearby help. · Provide rescue breathing Activate emergency response system using bag-mask device with via mobile device (if appropriate). filter and tight seal. Get AED and emergency equipment 1 breath every 5-6 seconds (or send someone to do so). or about 10-12 breaths/min. Activate emergency response system (if not already Norma No normal Look for no breathing breathing breathing. done) after 2 minutes. Monitor until has pulse or only gasping and check has pulse Continue rescue breathing; emergency pulse (simultaneously). check pulse about every responders arrive. Is pulse definitely felt 2 minutes, if no pulse, begin within 10 seconds? CPR (go to "CPR" box). If possible opioid overdose, administer naloxone if No breathing available per protocol. or only gasping. By this time in all scenarios, emergency response system or backup is activated. ______ and AED and emergency equipment are retrieved or someone is retrieving them. Begin cycles of 30 compressions and 2 breaths using bag-mask device with filter and tight seal continuous compressions with passive oxygenation using face mask. Use AED as soon as it is available AED arrives. Check rhythm. Shockable rhythm? Yes, nonshockable shockable Give 1 shock. Resume CPR Resume CPR immediately for immediately for about 2 minutes about 2 minutes (until prompted funtil prompted by AED to allow by AED to allow rhythm check). rhythm check). Continue until ALS providers take Continue until ALS providers take over or victim starts to move. over or victim starts to move @ 2020 American Heart Association

Pediatric BLS Algorithm for Healthcare Providers— Single Rescuer

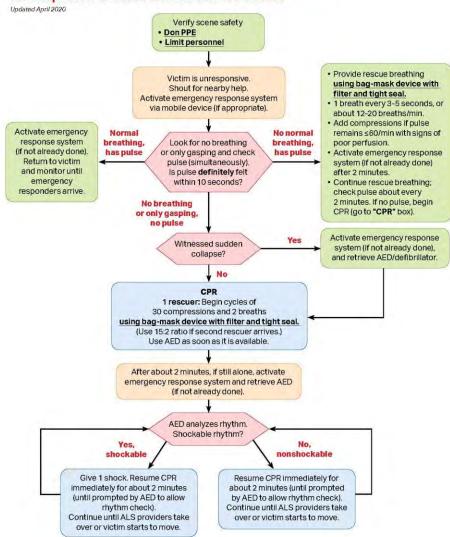


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Pediatric BLS Algorithm for Healthcare Providers— 2 or More Rescuers



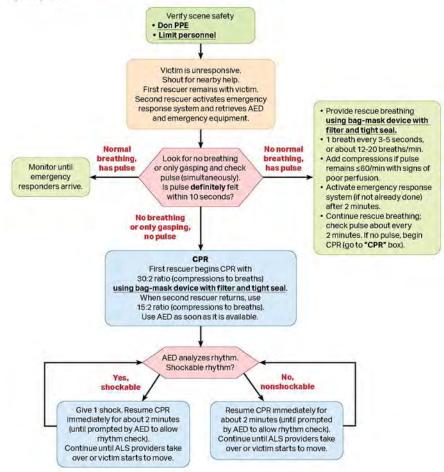
BLS Healthcare Provider Pediatric Cardiac Arrest Algorithm for the Single Rescuer for Suspected or Confirmed COVID-19 Patients



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BLS Healthcare Provider Pediatric Cardiac Arrest Algorithm for 2 or More Rescuers for Suspected or Confirmed COVID-19 Patients

Updated April 2020



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