

A close-up photograph showing a person's hands performing CPR on a training mannequin. The hands are positioned over the mannequin's chest, with fingers interlaced. The mannequin is white and has a black mouthpiece. The background is a blurred indoor setting.

2025

Guidelines and
Standards

BLS

Basic Life Support

Provider Handbook

By Dr. Karl Disque





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Printed in the United States of America

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Version 2026.01



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GENERAL CONCEPTS OF BASIC LIFE SUPPORT

According to the Centers for Disease Control (CDC), heart disease continues to be the leading cause of death in the United States and is responsible for over 600,000 deaths every year. Research continues to improve how we respond with life-saving techniques to emergencies. These techniques are based on the most current research and are organized into a systematic response called the Chain of Survival, which begins with Basic Life Support (BLS). The Chain of Survival provides the victim the best chance to receive the care needed and return to a healthy life.

The heart pumps blood through the lungs, where blood takes in oxygen and releases carbon dioxide. This blood then returns to the heart where it is pumped out to vital organs—the heart and brain—as

Taking the right action quickly and confidently can make the difference between life and death for a person dealing with cardiac arrest.

well as the rest of the body. When the heart stops, blood flow stops, and the person quickly becomes unconscious. Without blood flow, the heart and the brain quickly become damaged due to lack of oxygen. The actions that make up BLS try to prevent or slow the damage until the cause of the problem can be corrected. BLS improves a person's chance of surviving until advanced care becomes available.

Keys for BLS:

- Quickly start the Chain of Survival.
- Deliver high-quality chest compressions to circulate oxygen to the brain and vital organs.
- Know when and how to use an Automated External Defibrillator (AED).
- Provide rescue breathing.
- Understand how to work with other rescuers as part of a team.
- Know how to treat choking.



INITIATING CHAIN OF SURVIVAL

To increase the odds of surviving a cardiac event, the rescuer should follow the steps in the Chain of Survival (*Figure 1*). As of 2025, the Pediatric and Adult Chains of Survival have been unified into a single chain, for a total of 6 steps.

Chain of Survival



Figure 1



2025 BLS GUIDELINES CHANGES

The content contained herein is based on the most recent ILCOR publications on BLS. Recommendations for adult basic life support (BLS) from the 2025 Guidelines for CPR and ECC include the following:

- The importance of early initiation of CPR by lay rescuers has been re-emphasized. The risk of harm to the patient is low if the patient is not in cardiac arrest. Bystanders should not be afraid to start CPR even if they are not sure whether the victim is breathing or in Cardiac Arrest.
- The Pediatric and Adult Chains of Survival have been unified into a single chain, for a total of 6 steps.
- Care of the patient after return of spontaneous circulation (ROSC) requires close attention to oxygenation, blood pressure control, evaluation for percutaneous coronary intervention, targeted temperature management, and multimodal neuroprognostication.
- Because recovery from cardiac arrest continues long after the initial hospitalization, patients should have formal assessment and support for their physical, cognitive, and psychosocial needs.
- After a resuscitation, debriefing for lay rescuers, EMS providers, and hospital-based health care workers may be beneficial to support their mental health and well-being.
- Management of cardiac arrest in pregnancy focuses on maternal resuscitation, with preparation for early perimortem cesarean delivery if necessary to save the infant and improve the chances of successful resuscitation of the mother.



BLS FOR ADULTS

BLS for adults focuses on doing several tasks simultaneously. In previous versions of BLS, the focus was primarily on one-rescuer CPR. In many situations, more than one person is available to do CPR. This simultaneous and choreographed method includes performing chest compressions, managing the airway, delivering rescue breaths, and using the AED, all as a team. By coordinating efforts, a team of rescuers can save valuable seconds when time lost equals damage to the heart and brain.

ADULT BLS ALGORITHM

Understanding the adult BLS algorithm is essential for health care professionals and first responders when dealing with cardiac emergencies. This page provides a simplified overview of the steps of the Simple Adult BLS Algorithm, ensuring you are prepared to deliver effective Basic Life Support (BLS) to adults in critical situations.

WHAT IS THE SIMPLE ADULT BLS ALGORITHM?

The Simple Adult BLS Algorithm is a streamlined sequence of actions designed to assess and manage life-threatening conditions in adults aged puberty and older. By focusing on the most critical steps, the algorithm enables rescuers to act quickly and confidently during emergencies.



Simple Adult BLS Algorithm

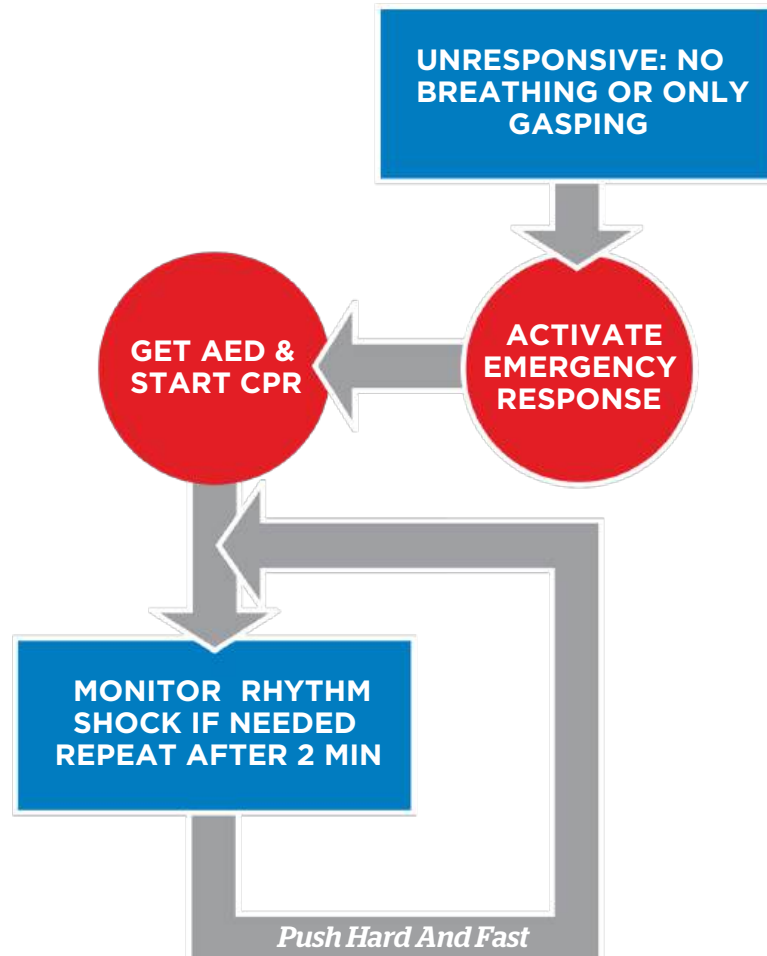


Figure 2

KEY STEPS IN THE SIMPLE ADULT BLS ALGORITHM

1. Check Responsiveness and Ensure Safety

- **Ensure Scene Safety:** Before approaching the victim, ensure the environment is safe for you and the patient.
- **Check Responsiveness:** Firmly tap the victim's shoulders and shout, "Are you okay?" to see if there is any response.

2. Activate Emergency Response System

- **If Unresponsive:**
 - Shout for help.
 - If someone is nearby, instruct them to call emergency services and get an AED.
 - Call emergency services and activate speaker mode if you are alone and have a mobile phone.



3. Assess Breathing

- **Look for Normal Breathing:**
 - Observe the chest for rise and fall.
 - Listen for normal breathing sounds.
- **If Not Breathing or Only Gaspings:**
 - Begin CPR immediately following the adult BLS algorithm.

4. Begin High-Quality CPR

- **Chest Compressions:**
 - Place the heel of one hand on the center of the victim's chest (lower half of the sternum).
 - Place your other hand on top, interlocking your fingers.
 - Keep your arms straight and shoulders directly over your hands.
- **Compression Depth:** At least 2 inches (5 cm).
- **Compression Rate:** 100 to 120 compressions per minute.
- **Allow Full Chest Recoil after each compression.**
- **Ventilations:**
 - After 30 compressions, open the airway using the head-tilt-chin-lift method.
 - Pinch the victim's nose closed and give two breaths, each over 1 second, watching for chest rise.
 - Avoid Excessive Ventilation to prevent complications.

5. Use an Automated External Defibrillator (AED)

- **Attach the AED as soon as it is available.**
- **Follow AED Prompts:**
 - Turn on the AED and follow the voice instructions.
- **Pad Placement:**
 - Apply AED pads to the victim's bare chest as indicated.
- **Analyze Rhythm:**
 - Ensure no one is touching the victim during analysis.
- **Deliver Shock if Advised:**
 - If a shock is advised, ensure everyone is clear and press the shock button.
- **Resume CPR Immediately After Shock:**
- **Continue CPR starting with chest compressions, following the adult BLS algorithm.**

6. Continue CPR Cycles

- **Cycle Ratio:** Maintain cycles of 30 compressions and two breaths.
- **Minimize Interruptions:**
 - Keep pauses in chest compressions to less than 10 seconds.
- **Reassessment:**
 - Do not stop to check for a pulse or breathing until emergency services arrive or the victim shows signs of life.

Importance of the Simple Adult BLS Algorithm

The adult BLS algorithm is designed to simplify the rescue process, making it easier to remember and execute during high-stress situations. Key benefits include:

- **Immediate Action:** Encourages quick response, which is critical for survival.
- **Standardized Procedure:** Provides a consistent approach that all rescuers can follow.
- **Enhanced Survival Rates:** Early and effective CPR using the adult BLS algorithm can significantly improve outcomes.



ONE-RESCUER BLS/CPR FOR ADULTS

Be Safe

- Make sure the scene is safe before proceeding.
- Move the person out of traffic.
- Move the person out of water and dry the person. (Drowning persons should be removed from the water and dried off; they should also be removed from standing water, such as puddles, pools, gutters, etc.)
- Be sure you do not become injured yourself.

Assess the Person

- Shake the person, tap their shoulder hard, and talk to them loudly.
- Check to see if the person is breathing. (Agonal breathing, which is occasional gasping and is ineffective, does not count as breathing.)

Call EMS

- Send someone for help or to call your emergency number and to get an AED.
- If alone, call for help while assessing for breathing and pulse. (The ILCOR emphasizes that cell phones are available everywhere now and most have a built-in speakerphone. Call for help without leaving the person.)

CPR

- Begin sets of compressions and rescue breaths.

Defibrillate

- Attach the AED pads when available.

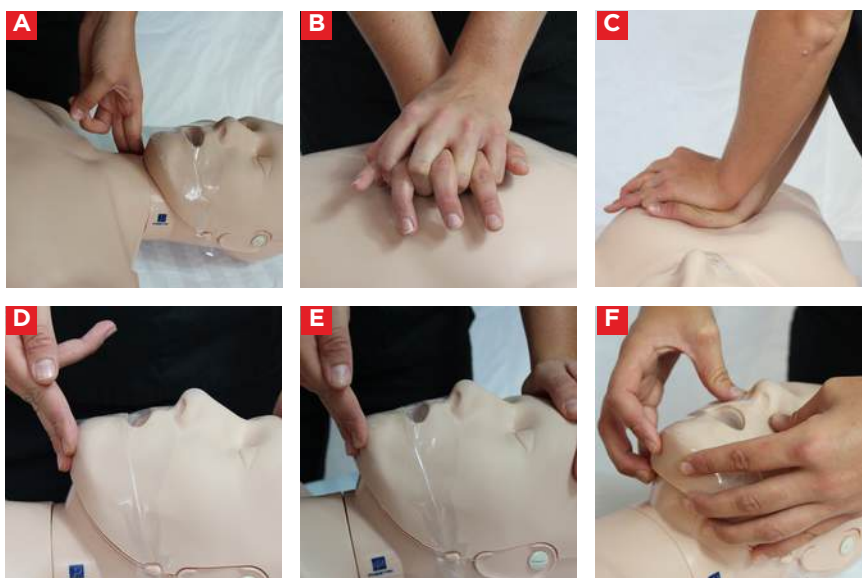


Figure 3

CPR STEPS

1. Check for the carotid pulse on the side of the neck (Figure 3a). Keep in mind not to waste time trying to feel for a pulse; feel for no more than 10 seconds. If you are not sure you feel a pulse, begin CPR with a cycle of 30 chest compressions and two breaths.
2. Use the heel of one hand on the lower half of the sternum in the middle of the chest (Figure 3b).
3. Put your other hand on top of the first hand (Figure 3c).
4. Straighten your arms and press straight down (Figure 3c). Compressions should be 2 to 2.4" (5 to 6 cm) into the person's chest and at a rate of 100 to 120 compressions per minute.
5. Be sure that between each compression you completely stop pressing on the chest and allow the chest wall to return to its natural position. Leaning or resting on the chest between compressions can keep the heart from refilling in between each compression and make CPR less effective.
6. After 30 compressions, stop compressions and open the airway by tilting the head and lifting the chin (Figure 3d & 3e).
 - a. Put your hand on the person's forehead and tilt the head back.
 - b. Lift the person's jaw by placing your index and middle fingers on the lower jaw; lift up.
 - c. Do not perform the head-tilt/chin-lift maneuver if you suspect the person may have a neck injury. In that case, the jaw-thrust is used.
 - d. For the jaw-thrust maneuver, grasp the angles of the lower jaw and lift it with both hands, one on each side, moving the jaw forward. If their lips are closed, open the lower lip using your thumb (Figure 3f).
7. Give a breath while watching the chest rise. Repeat while giving a second breath. Breaths should be delivered over one second.
8. Resume chest compressions. Switch quickly between compressions and rescue breaths to minimize interruptions in chest compressions.



TWO-RESCUER BLS/CPR FOR ADULTS

Many times there will be a second person available that can act as a rescuer. The ILCOR emphasizes that cell phones are available everywhere now and most have a built-in speakerphone. Direct the second rescuer to call 911 or Emergency Medical Services (EMS) without leaving the person while you begin CPR. This second rescuer can also find an AED while you stay with the person. When the second rescuer returns, the CPR tasks can be shared:

1. The second rescuer prepares the AED for use.
2. You begin chest compressions and count the compressions out loud.
3. The second rescuer applies the AED pads.
4. The second rescuer opens the person's airway and gives rescue breaths.
5. Switch roles after every five cycles of compressions and breaths. One cycle consists of 30 compressions and two breaths.
6. Be sure that between each compression you completely stop pressing on the chest and allow the chest wall to return to its natural position. Leaning or resting on the chest between compressions can keep the heart from refilling in between each compression and make CPR less effective. Rescuers who become tired may tend to lean on the chest more during compressions; switching roles helps rescuers perform high-quality compressions.
7. Quickly switch between roles to minimize interruptions in delivering chest compressions.
8. When the AED is connected, minimize interruptions of CPR by switching rescuers while the AED analyzes the heart rhythm. If a shock is indicated, minimize interruptions in CPR. Resume CPR as soon as possible.

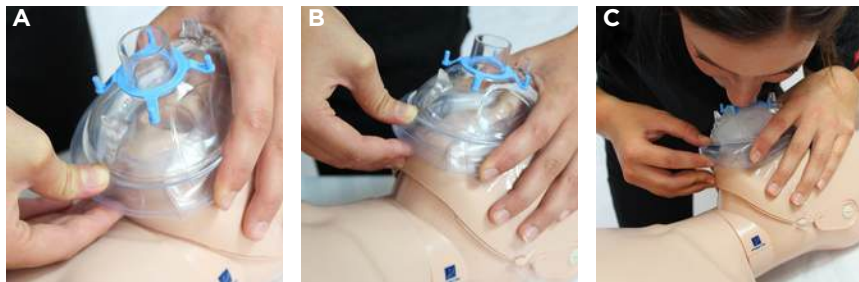


Figure 4

ADULT MOUTH-TO-MASK VENTILATION

In one-rescuer CPR, breaths should be supplied using a pocket mask, if available.

1. Give 30 high-quality chest compressions.
2. Seal the mask against the person's face by placing four fingers of one hand across the top of the mask and the thumb of the other hand along the bottom edge of the mask (*Figure 4a*).
3. Using the fingers of your hand on the bottom of the mask, open the airway using the head-tilt/chin-lift maneuver. (Do not do this if you suspect the person may have a neck injury) (*Figure 4b*).
4. Press firmly around the edges of the mask and ventilate by delivering a breath over one second as you watch the person's chest rise (*Figure 4c*).



Figure 5

ADULT BAG-MASK VENTILATION IN TWO-RESCUER CPR

If two people are present and a bag-mask device is available, the second rescuer is positioned at the victim's head while the other rescuer performs high-quality chest compressions. Give 30 high-quality chest compressions.

1. Deliver 30 high-quality chest compressions while counting out loud (*Figure 5a*).
2. The second rescuer holds the bag-mask with one hand using the thumb and index finger in the shape of a "C" on one side of the mask to form a seal between the mask and the face, while the other fingers open the airway by lifting the person's lower jaw (*Figure 5b*).
3. The second rescuer gives two breaths over one second each as you watch the person's chest rise (*Figure 5c*).
4. Practice using the bag-valve-mask; it is essential to forming a tight seal and delivering effective breaths.



ADULT BASIC LIFE SUPPORT ALGORITHM

Knowing the adult Basic Life Support algorithm is crucial for saving lives in emergency situations involving adults. This guide provides health care professionals and first responders with a step-by-step approach to delivering high-quality Basic Life Support (BLS) to adult patients experiencing cardiac arrest or other life-threatening conditions.

UNDERSTANDING THE ADULT BLS ALGORITHM

The adult Basic Life Support algorithm is a systematic sequence of actions designed to assist rescuers in assessing and managing life-threatening emergencies in individuals aged puberty and older. It emphasizes early recognition, immediate activation of emergency response systems, effective chest compressions, timely ventilations, and using Automated External Defibrillators (AEDs) when appropriate.



Adult BLS Algorithm

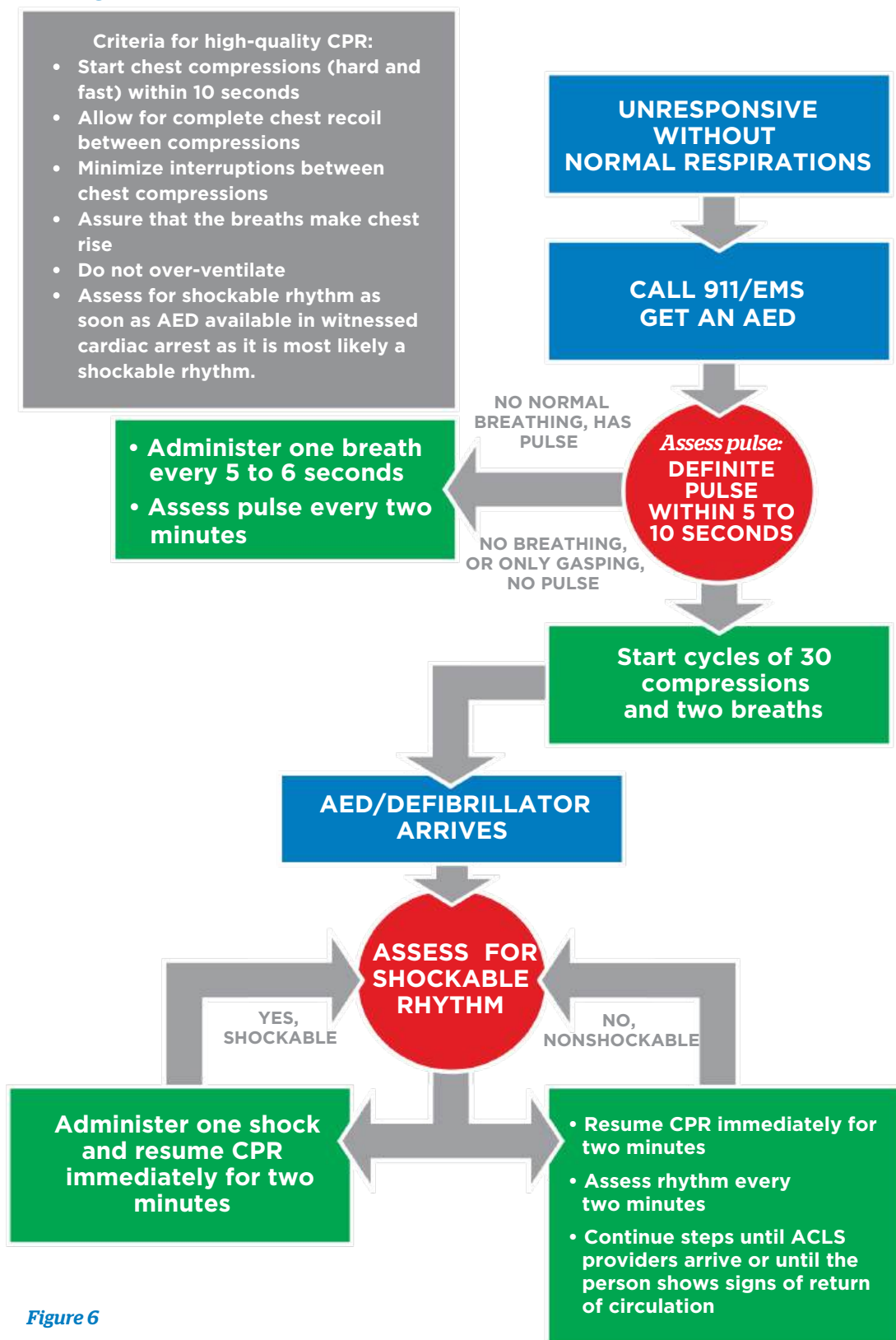


Figure 6



KEY STEPS OF THE ADULT BASIC LIFE SUPPORT ALGORITHM

1. Ensure Scene Safety

Before approaching the patient, ensure the environment is safe for you and the victim.

2. Check Responsiveness

Gently tap the person's shoulders and shout to see if they respond. Use a loud voice, asking, "Are you okay?"

3. Activate Emergency Response System

- If the person is unresponsive:
 - Shout for help.
 - If someone else is available to help, instruct them to call EMS and get an AED.
 - Call emergency services and put the phone on speaker mode if you are alone and have a mobile phone.

4. Assess Breathing and Pulse

- Breathing:
 - Look for normal breathing (not gasping or irregular breaths).
- Pulse:
 - Check the carotid pulse for no more than 10 seconds.
 - Locate the pulse by placing two fingers on the trachea and sliding them into the groove between the trachea and neck muscle.

If the person is not breathing normally and has no pulse, begin CPR immediately following the adult Basic Life Support algorithm.

5. Begin High-Quality CPR

- Chest Compressions:
 - Place the heel of one hand on the center of the victim's chest (lower half of the sternum).
 - Place your other hand on top of the first, interlocking your fingers.
 - Keep your arms straight and shoulders directly over your hands.
- Compression Depth: At least 2 inches (5 cm) but not more than 2.4 inches (6 cm).
- Rate: 100 to 120 compressions per minute.
- Allow full chest recoil after each compression.
- Ventilations:
 - After 30 compressions, open the airway using the head-tilt-chin-lift method.
 - Pinch the victim's nose closed and give two breaths, each over 1 second, watching for chest rise.
 - Avoid excessive ventilation.



6. Use of Automated External Defibrillator (AED)

- **Attach the AED as soon as it is available.**
- **Turn on the AED and follow the prompts.**
- **Pads Placement:**
 - Expose the chest and wipe it dry if necessary.
 - Attach the AED pads to the victim's bare chest as indicated on the pads.
- **Analyze Rhythm:**
 - Ensure no one is touching the victim during rhythm analysis.
- **Shock Delivery:**
 - If a shock is advised, ensure everyone is clear of the victim and press the shock button.
 - Resume CPR immediately after the shock is delivered or if no shock is advised.

7. Continue CPR Cycles

- **Continue cycles of 30 compressions and two breaths.**
- **Reassess the victim every 2 minutes or after five cycles of CPR.**
- **Rotate compressors every 2 minutes to reduce fatigue.**

Importance of High-Quality CPR in the Adult Basic Life Support Algorithm

High-quality CPR is a critical component of the adult Basic Life Support algorithm and significantly increases the chances of survival. Key elements include:

- **Adequate Compression Depth and Rate: Ensures sufficient blood flow to vital organs.**
- **Minimizing Interruptions:** Limit pauses in compressions to less than 10 seconds.
- **Full Chest Recoil:** Allows the heart to refill between compressions.
- **Avoiding Excessive Ventilation:** Prevents decreased cardiac output and potential gastric inflation.



SELF-ASSESSMENT FOR ADULT BLS

1. A 65-year-old male is on a short ladder changing a light and suddenly collapses. He is unresponsive. What is the next step?
 - a. Call 911/EMS.
 - b. Begin CPR.
 - c. Begin mouth-to-mouth ventilation.
 - d. Check pulse.
2. What method should be used to open his airway in the case above?
 - a. Chin-lift
 - b. Jaw thrust
 - c. Head-tilt/chin-lift
 - d. Head-tilt
3. CPR is initiated and the person's pulse returns, but he is not breathing. What ventilation rate should be used for this person?
 - a. 6-8 breaths per minute
 - b. 10-12 breaths per minute
 - c. 18-20 breaths per minute
 - d. Depends on his color

ANSWERS

1. A
Initiation of the Chain of Survival, which is to call 911/EMS, is the first step in the treatment of this person.
2. B
The jaw thrust is the maneuver of choice to open this patient's airway given the concern of a fall and potential for traumatic injuries.
3. B
Most experts recommend a ventilation rate of 10-12 breaths per minute for adults.



USE OF AUTOMATED EXTERNAL DEFIBRILLATOR

Ventricular fibrillation, caused by disorganized electrical activity in the main pumping chambers of the heart, is a common cause of cardiac arrest. The treatment for ventricular fibrillation is defibrillation or the delivery of an electric shock to the heart through the person's chest wall. This shock attempts to stop the disorganized electrical activity and allow the heart's normal rhythm to resume.

The automated external defibrillator (AED) is a device that recognizes ventricular fibrillation and other dysrhythmias and delivers an electric shock at the right time. The AED has become a common sight in public buildings. The AED is nearly foolproof and will not allow you to make a mistake. It is safe for anyone to use. In a witnessed cardiac arrest, where the person is observed to suddenly collapse, the most common cause is likely to be ventricular fibrillation and a defibrillator should analyze the person's cardiac rhythm as soon as possible.

Using the team concept, one rescuer should coordinate all available rescuers so that one rescuer performs chest compressions while the second rescuer prepares the AED for use. Although there are many different brands of AEDs, all are utilized in a similar way. Be sure to move the person and yourself to a safe place before using the AED. Electricity and water can be lethal when combined. Ensure that the person is not wet (quickly wipe dry) or in close proximity to water before using the AED. It is safe to use an AED if the person is lying in snow. If the person has an implanted device, such as a pacemaker, you will see a bulge over their chest. Place the defibrillator pads as close to the correct position as possible without being directly over the device. For persons with medication patches, remove the patch, wipe the skin dry, and apply the AED pad.

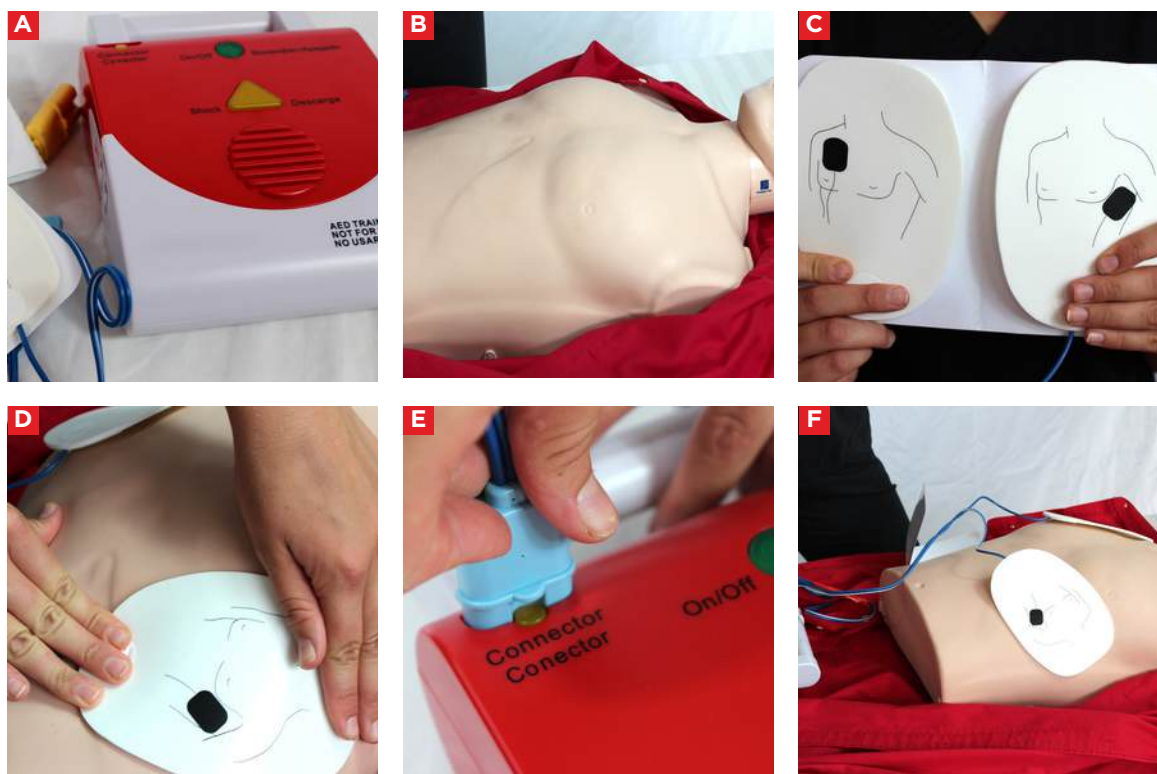


Figure 7

AED STEPS

1. Retrieve the AED (*Figure 7a*).
 - a. Open the case.
 - b. Turn on the AED.
2. Expose the person's chest (*Figure 7b*).
 - a. If wet, dry chest.
 - b. Remove medication patches.
3. Open the AED pads (*Figure 7c*).
 - a. Peel off backing.
 - b. Check for pacemaker or internal defibrillator.
4. Apply the pads (*Figure 7d*).
 - a. Apply one pad on upper right chest above the breast.
 - b. Apply the second pad on lower left chest below the armpit.
5. Ensure the wires are attached to the AED box (*Figure 7e*).
6. Move away from the person (*Figure 7f*).
 - a. Stop CPR.
 - b. Clear the person to make sure no one is touching any part of the victim.



Figure 7

7. Let AED analyze the rhythm.
8. If AED message reads “Check Electrodes,” then:
 - a. Ensure electrodes make good contact.
 - b. If chest is hairy, pull off pad and replace it.
9. If AED message reads “Shock,”
 - a. Be sure the person is “clear” by making sure no one is touching them.
 - b. Press and hold the “shock” button until the AED delivers the shock (*Figure 7g*).
10. Resume CPR for two minutes starting with chest compressions (*Figure 7h*)
11. Repeat steps 1 to 10.



SELF-ASSESSMENT FOR AED

1. What does AED stand for?
 - a. Automatic Energy Delivery
 - b. Automated External Device
 - c. Automated External Defibrillator
 - d. Autonomous Energy Defibrillator

A 49-year-old female suffers a witnessed cardiac arrest. She has a known cardiac history per her family.

2. You notice a bulge in the upper left chest under the skin. There is a healed incision overlying that bulge. Which is true of AED use?
 - a. AED cannot be used in this person.
 - b. You should put a magnet over the bulge before using the AED.
 - c. You should place pads over the bulge.
 - d. You should avoid placing pads over the bulge.
3. The AED indicates “Shock.” What is the next step?
 - a. Clear the person and deliver the shock.
 - b. Deliver two additional minutes of CPR before delivering the shock.
 - c. Ventilate while shock is delivered.
 - d. Assume error and do not deliver shock.
4. After delivering a shock, what is the next step in caring for this person?
 - a. Reassess for a pulse.
 - b. Do chest compressions only.
 - c. Resume CPR starting with chest compressions.
 - d. Do ventilation only.

ANSWERS

1. C

AED stands for Automated External Defibrillator.

2. D

This person has either a pacemaker or an automated implantable cardioverter-defibrillator (AICD). Avoid placing AED pads directly over these devices.

3. A

Clear the person and deliver the shock. Do not delay delivery of a shock to perform additional CPR. All responders should be clear of the person when a shock is delivered. Do not assume error or delay administration of a shock.

4. C

After delivery of a shock, two minutes of high-quality CPR is performed. Do not perform a rhythm or pulse check at this point.



BLS FOR CHILDREN

(1 TO PUBERTY)

Many similarities exist between the BLS guidelines for adults and children. Following are the main differences between the two:

- For children of all age groups, the compression to breaths ratio is 30:2 for one rescuer and 15:2 for two rescuers.
- The depth of compression may be different. For children, compress the chest at least one-third the depth of the chest. This may be less than two inches for small children (4 -5 cm) but will be approximately two inches for larger children (5 cm).
- If you are the only rescuer at the scene and find an unresponsive child, perform CPR for two minutes before you call EMS or before you go look for an AED. The ILCOR emphasizes that cell phones are available everywhere now, and most have a built-in speakerphone, so you can call EMS while being with the child.
- In children, primary cardiac events are not common. Cardiac arrest is most commonly preceded by respiratory problems. Survival rates improve with early intervention for respiratory problems. Remember that prevention is the first link in the unified Chain of Survival.
- If you witness a cardiac arrest in a child, call EMS and get an AED as you would in the Adult BLS sequence.



ONE-RESCUER BLS FOR CHILDREN

If you are alone with a child at the scene, do the following:

1. Tap and talk loudly to the child to determine if they are responsive.
2. If the child does not respond and is not breathing (or only gasping), yell for help. If someone answers, send them to call 911/EMS and to get an AED.
3. Assess for breathing while simultaneously checking for the child's carotid pulse (on the side of the neck) or femoral pulse (on the inner thigh in the crease between their leg and groin) for 5 but no more than 10 seconds.
4. If you cannot feel a pulse (or if you are unsure), begin CPR by doing 30 compressions followed by two breaths. If you can feel a pulse but the pulse rate is less than 60 beats per minute, you should begin CPR. This rate is too slow for a child.
5. After doing CPR for about two minutes (usually about five cycles of 30 compressions and two breaths), and if other help has not arrived, call EMS while staying with the child. The ILCOR emphasizes that cell phones are available everywhere now and most have a built-in speakerphone. Get an AED if you know where one is.
6. Use and follow AED prompts when available while continuing CPR until EMS arrives or until the child's condition normalizes.

TWO-RESCUER BLS FOR CHILDREN

If you are not alone with a child at the scene, do the following:

1. Tap and talk loudly at the child to determine if they are responsive.
2. If the child does not respond and is not breathing (or if only gasping), have the second rescuer call 911/EMS and get an AED. (The ILCOR emphasizes that cell phones are available everywhere now and most have a built-in speakerphone, so you or the second rescuer can call 911/EMS without leaving the scene).
3. Assess for breathing while simultaneously checking for the child's carotid pulse (on the side of the neck) or femoral pulse (on the inner thigh in the crease between their leg and groin) for 5 but no more than 10 seconds.
4. If you cannot feel a pulse (or if you are unsure), begin CPR by doing 15 compressions followed by two breaths. If you can feel a pulse but the pulse rate is less than 60 beats per minute, you should begin CPR. This rate is too slow for a child.
5. When the second rescuer returns, begin doing CPR by performing 15 compressions by one rescuer and two breaths by the second rescuer.
6. Use and follow AED prompts when available while continuing CPR until EMS arrives or until the child's condition normalizes.



PEDIATRIC BLS ALGORITHM

Knowing the pediatric BLS algorithm can make a critical difference in patient outcomes in emergency situations involving infants and children. This guide provides healthcare professionals and first responders with a step-by-step approach to delivering high-quality basic life support (BLS) pediatric patients.

Understanding the Pediatric BLS Algorithm

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Pediatric BLS Algorithm

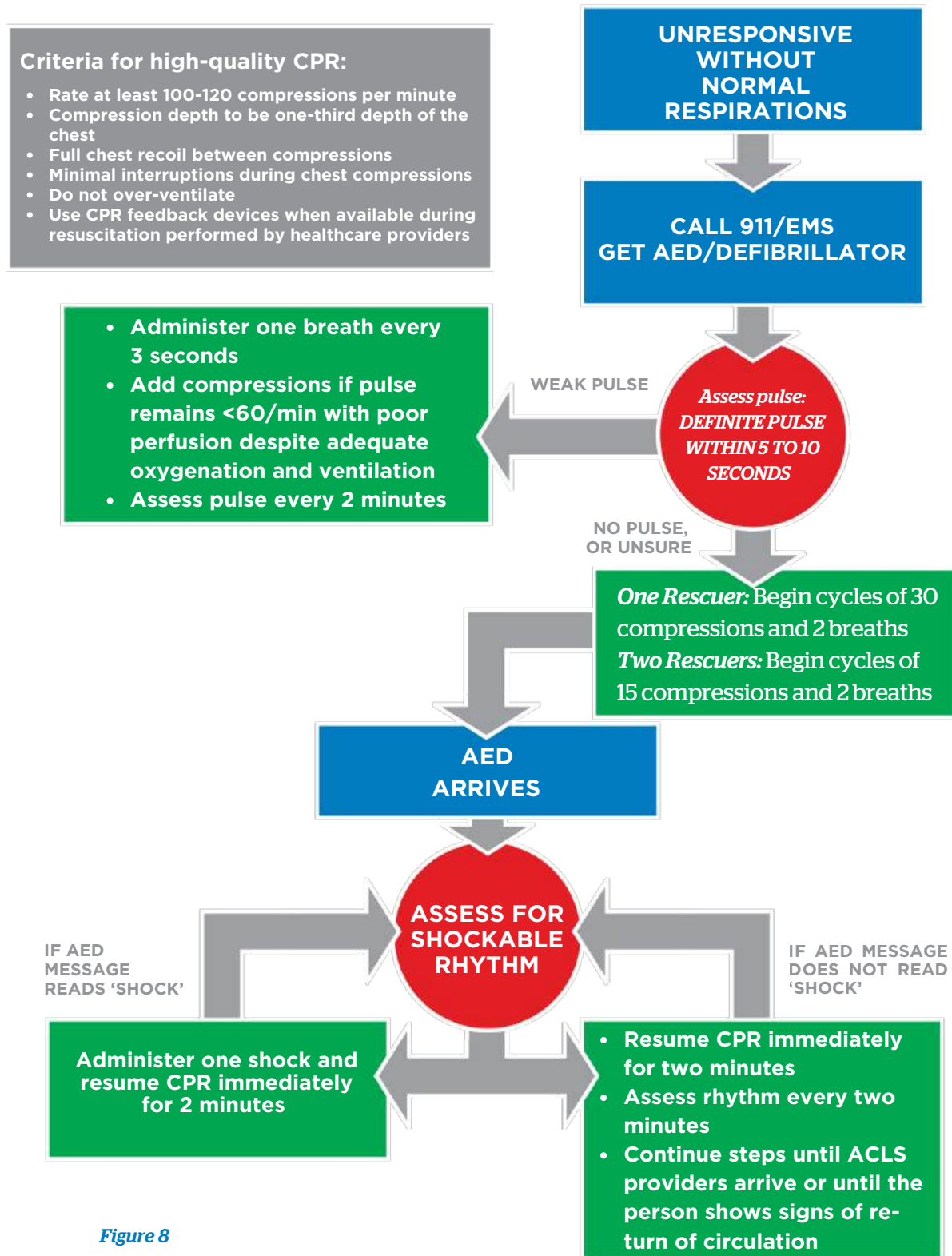


Figure 8



KEY STEPS OF THE PEDIATRIC BLS ALGORITHM

1. Ensure Scene Safety

Before approaching the patient, ensure the environment is safe for you and the victim.

2. Check Responsiveness

Gently tap the child and shout to see if they respond. For infants, tap the bottom of the bare foot.

3. Activate Emergency Response

- If you are alone and the collapse was unwitnessed:
- Perform 2 minutes of CPR before calling emergency services.
- If you are not alone, send someone to activate the emergency response system and retrieve an AED immediately. If alone and unable to call EMS, Perform 2 minutes of CPR before leaving the scene to call EMS.
- Send someone to activate the emergency response system and retrieve an AED immediately.

4. Assess Breathing and Pulse

- **Breathing:**
 - Look for normal breathing (not gasping).
- **Pulse:**
 - Check the brachial pulse in infants or carotid/femoral pulse in children for no more than 10 seconds.

5. Begin High-Quality CPR

If there is no breathing or only gasping and no pulse (or a pulse less than 60 bpm with signs of poor perfusion), start CPR immediately.

Chest Compressions:

- **Infants:**
 - Use the two thumb-encircling hands technique on the center of the chest.
- **Children:**
 - Use one or two hands (depending on the child's size) on the sternum's lower half.

Compression Depth:

- At least one-third the depth of the chest (about 1.5 inches/4 cm for infants, 2 inches/5 cm for children).
- **Rate:**
 - 100 to 120 compressions per minute.
- Allow full chest recoil after each compression.

Ventilations:

- Open the airway using the head-tilt-chin-lift method.
- Give two breaths after every 30 compressions if you're alone or after every 15 compressions if there are two rescuers.
- Each breath should last about 1 second, making the chest rise visibly.

6. Use of AED

- Attach the AED as soon as it is available.
- **Pediatric Pads:**
 - Use if the child is less than eight years old.
- **If Pediatric Pads Are Unavailable:**
 - Use adult pads, ensuring they do not touch each other.
 - Follow the AED prompts and deliver shocks if advised.



7. Continue CPR

Resume CPR immediately after the AED delivers a shock or if no shock is advised. Rotate compressors every 2 minutes to prevent fatigue.

Importance of Early Intervention

Timely and effective application of the pediatric BLS algorithm significantly improves survival rates and neurological outcomes. Children have unique anatomical and physiological characteristics, making specialized pediatric BLS training essential for proper care.

CHILD VENTILATION

If masks are available, they should be used in children as in adults; however, you must ensure the mask is the correct size for the child. The mask should cover the child's mouth and nose without covering the eyes or chin. You will not be able to get a good seal with a mask that is too big. As with an adult, use the head-tilt/chin-lift maneuver to open the child's airway. Each breath should last one second and should cause the child's chest to rise. As with an adult, avoid giving breaths too quickly, as this may result in distention of the stomach, vomiting, and possible aspiration of stomach contents.

Child Ventilation Algorithm

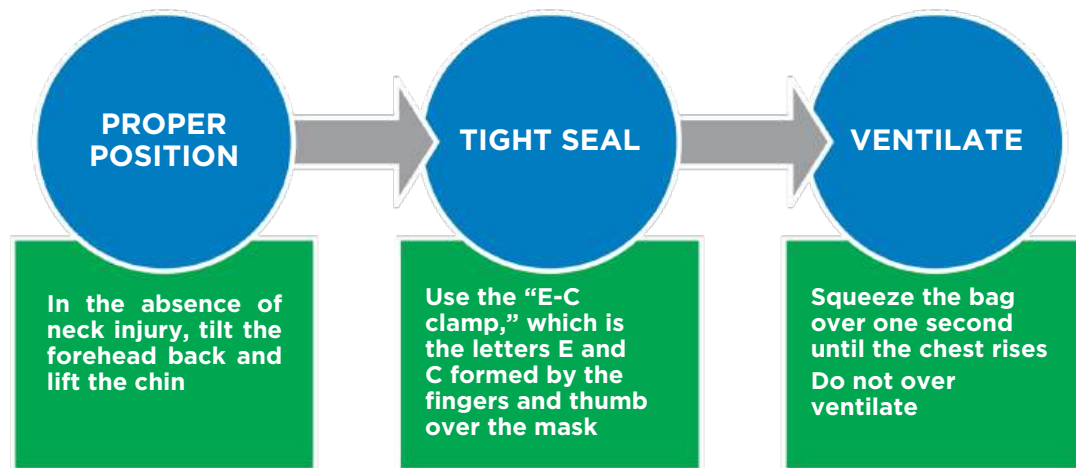


Figure 9



BLS FOR INFANTS (0 TO 12 MONTHS)



Figure 10

BLS for both children and infants is almost identical. Following are the main differences between BLS for children and BLS for infants:

- Check the pulse in the infant using the brachial artery on the inside of the upper arm between the infant's elbow and shoulder (*Figure 10a*).
- During CPR, perform compressions on an infant using the two thumb-encircling hands technique (*Figure 10c*).
- Compression depth should be one-third of the chest depth; for most infants, this is about 1.5 inches (4 cm).
- If you are the only rescuer at the scene and find an unresponsive infant, perform CPR for two minutes before calling 911/EMS or using an AED.
- In infants, primary cardiac events are not common. Usually, cardiac arrest will be preceded by respiratory problems. Survival rates improve when you intervene with respiratory problems as early as possible. Remember that prevention is the first step in the unified Chain of Survival.
- If you witness a cardiac arrest in an infant, call 911/EMS and get an AED as you would in the BLS sequence for adults or children.



Figure 10

ONE-RESCUER BLS FOR INFANTS

If you are alone with the infant at the scene, do the following:

1. Tap the heel of their foot and talk loudly at the infant to determine if they are responsive.
2. Assess if they are breathing (*Figure 10d*) while simultaneously checking for the infant's brachial pulse for 5 but no more than 10 seconds (*Figure 10e*). If the infant does not respond and is not breathing (only gasping), yell for help.
3. If someone responds, send the second rescuer to call 911/EMS and get an AED. (The ILCOR emphasizes that cell phones are available everywhere now and most have a built-in speakerphone, so rescuers do not have to leave the scene.)
4. If you cannot feel a pulse (or if you are unsure), begin CPR by doing 30 compressions followed by two breaths. If you can feel a pulse but the rate is less than 60 beats per minute, begin CPR. This rate is too slow for an infant. To perform CPR on an infant, do the following:
 - a. Be sure the infant is face-up on a hard surface.
 - b. Using the two thumb-encircling hands technique, perform compressions in the center of the infant's chest. Do not press on the end of the sternum as this can cause injury to the infant.
 - c. Compression depth should be about 1.5 inches (4 cm) and 100-120 compressions per minute.
6. Perform CPR for about two minutes (using cycles of 30 compressions and two breaths). If help has not arrived, call 911/EMS and get an AED.
7. Use and follow AED prompts when available while continuing CPR until EMS arrives or until the infant's condition normalizes.



Figure 10

TWO-RESCUER BLS FOR INFANTS

If you are not alone with the infant at the scene, do the following:

1. Tap the bottom of their foot and talk loudly at the infant to determine if they are responsive.
2. If the infant does not respond, have the second rescuer call 911/EMS and get an AED. (The ILCOR emphasizes that cell phones are available everywhere now and most have a built-in speakerphone, so you can call while at the scene.)
3. Assess if they are breathing while simultaneously feeling for the infant's brachial pulse for 5 but no more than 10 seconds.
4. If you cannot feel a pulse (or if you are unsure), begin CPR by doing 15 compressions followed by two breaths. If you can feel a pulse but the rate is less than 60 beats per minute, begin CPR. This rate is too slow for an infant.
5. When the second rescuer returns, begin CPR by performing 15 compressions by one rescuer and two breaths by the second rescuer. Perform CPR using the two thumb-encircling hands method. If the rescuer's hands are too small to encircle the infant's chest, use one hand with two fingers on the center of the chest.
6. Compressions should be approximately 1.5 inches (4 cm) deep and at a rate of at least 100-120 per minute.
7. Use and follow AED prompts when available while continuing CPR until EMS arrives or until the infant's condition normalizes.



AED FOR CHILDREN AND INFANTS

An AED can be used on children and infants and should be used as early as possible for the best chance of improving the chance of survival. Check the AED when it arrives at the scene. Pediatric pads should be used if the person is less than eight years old or less than 55 pounds (25 kg). Standard (adult) pads may be used if pediatric pads are not available. If using standard (adult) pads, do not let the pads touch. For infants less than a year old, a manual defibrillator should be used if available. If a manual defibrillator is not available, an AED may be used. Some AEDs have a switch that can be set to deliver a pediatric shock. If available, turn the switch on when using on children younger than eight years old. If the AED cannot deliver a pediatric shock, an adult shock should be given. It is important to remember an electric shock may be the treatment for a fatal heart rhythm.

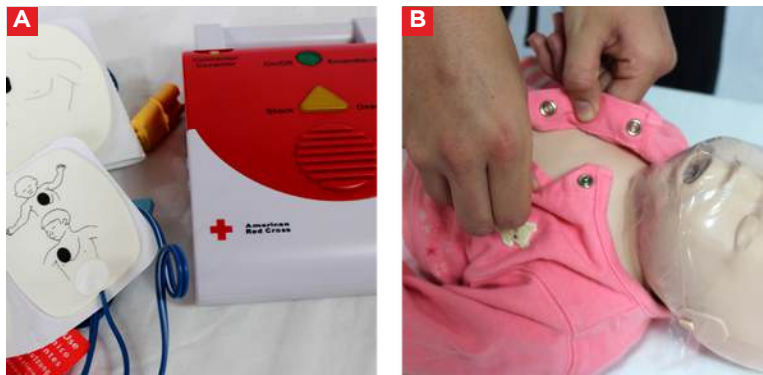


Figure 11

AED STEPS FOR CHILDREN AND INFANTS

1. Retrieve the AED (*Figure 11a*).
 - a. Open the case.
 - b. Turn on the AED.
2. Expose the person's chest (*Figure 11b*).
 - a. If wet, dry the chest.
 - b. Remove any medication patches.

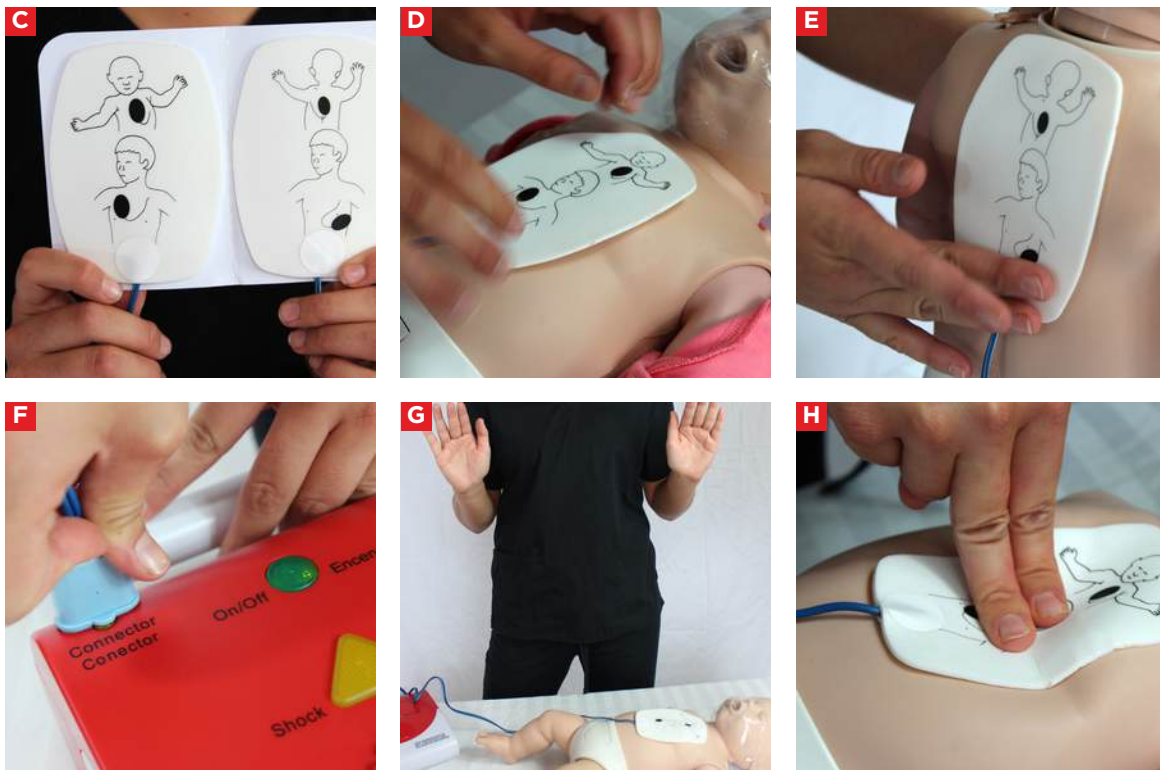


Figure 11

3. Open the Pediatric AED pads (*Figure 11c*).
 - a. Peel off backing.
 - b. Check for pacemaker or implanted defibrillator.
4. Apply the pads (*Figure 11d*).
 - a. Apply one pad on the upper right chest above the breast.
For infants, apply on front of chest
 - b. Apply the second pad on lower left chest below the armpit.
For infants, apply second pad to back (*Figure 11e*).
5. Ensure wires are attached to the AED box (*Figure 11f*).
6. Move away from the child (*Figure 11g*).
 - a. Stop CPR.
 - b. Instruct others not to touch the person.
7. Let AED analyze the rhythm.
8. If AED message reads “Check Electrodes,” then:
 - a. Ensure electrodes make good contact (*Figure 11f*).
9. If AED message reads “Shock,” then:
 - a. Press and hold flashing shock button until shock is delivered (*Figure 11h*).
10. Resume CPR for two minutes starting with chest compressions
11. Repeat steps 1-10.



SELF-ASSESSMENT FOR AED

1. What age is considered an infant for BLS purposes?
 - a. Under one year
 - b. Two years
 - c. Three years
 - d. Four years
2. Why are ventilations delivered to a pediatric arrest victim before seeking assistance in single-rescuer scenarios?
 - a. 911/EMS response times are generally slow.
 - b. The parents are often nearby.
 - c. Most pediatric cardiac arrests are due to respiratory arrest.
 - d. The use of an AED is contraindicated in pediatrics.

You are a daycare provider and find a 3-year-old child who is unresponsive. She had laid down for a nap because she was not feeling well. When you checked on her, she was not breathing and appeared blue. You are by yourself.

3. What is the first step in managing this case?
 - a. Give back blows.
 - b. Do a blind finger sweep.
 - c. Call 911/EMS.
 - d. Deliver two minutes of CPR.
4. The child begins to breathe spontaneously at a rate of 18. Her pulse is 50. What is the next step?
 - a. Give faster rescue breaths.
 - b. Do carotid massage.
 - c. Begin CPR starting with chest compressions.
 - d. Monitor breathing.

ANSWERS

1. A For BLS definitions, an infant is under one year of age. A child is 1 year of age to puberty. The BLS algorithms place children over the age of adolescence into the adult category.
2. C
Respiratory arrest is the most common cause of cardiac arrest in children. Restoration of oxygen delivery can be life-saving and prevent a cardiac arrest.
3. D
If you are alone, unwitnessed arrest in a child requires two minutes of CPR before calling 911/EMS. If assistance is available, send them to call 911/EMS while you begin CPR.
4. C
CPR should be initiated for pediatrics with a heart rate (pulse) that is 60 or less.



AIRWAY MANAGEMENT

Until an advanced airway is inserted, the rescue team should use mouth-to-mouth, mouth-to-mask, or bag-mask ventilation. An advanced airway (supraglottic airway, laryngeal mask airway, or endotracheal tube) provides a more stable way of providing breaths and should, therefore, be

inserted as early as possible in a resuscitation effort. Once an advanced airway is in place, the compression to breath ratio should be adjusted as noted below ([Table 1](#)).

The compression rate for all persons is always 100-120 per minute.

COMPRESSION TO BREATH RATIO	NO ADVANCED AIRWAY	ADVANCED AIRWAY
<i>A dult</i>	<i>30 compressions followed by two breaths</i>	<i>One breath every 6 seconds without pauses in compressions</i>
<i>Child/Infant</i>	<i>30 compressions followed by two breaths for one rescuer 15 compressions followed by two breaths for two rescuers</i>	<i>One breath every 6 seconds without pauses in compressions One breath every 2-3 seconds (20-30 breaths per minute)</i>

Table 1



MOUTH-TO-MOUTH RESCUE BREATHING

When a pocket mask or bag-mask is not available, it may be necessary to give mouth-to-mouth breaths during CPR. Mouth-to-mouth breathing is very effective in delivering oxygen into the person's lungs without putting the rescuer at a high level of risk. The rescuer's exhaled air contains approximately 17% oxygen and 4% carbon dioxide. This is in contrast to the 100% oxygen available with ventilation with 100% high flow oxygen and the 21% oxygen that is available in room air that we breathe.

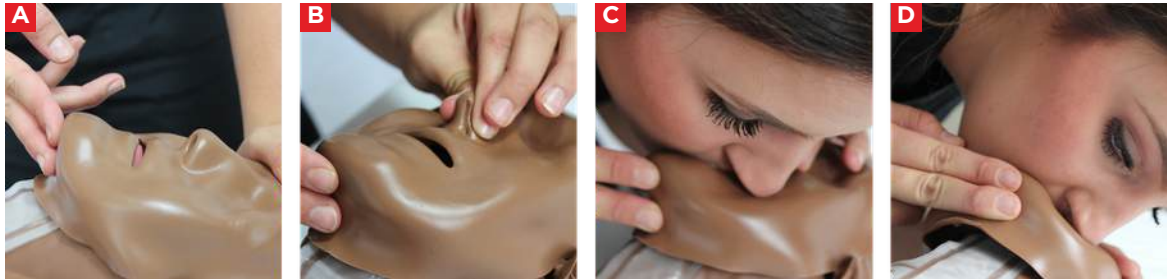


Figure 12

ADULTS AND OLDER CHILDREN MOUTH-TO-MOUTH

Do not give breaths too rapidly or too forcefully. Doing this may cause air to be forced into the stomach, resulting in distention and less room for lung expansion. It may also cause vomiting.

To deliver mouth-to-mouth breaths, do the following:

1. Open the airway using the head-tilt/chin-lift maneuver (*Figure 12a*).
2. Pinch the person's nose closed with your hand on the person's head (*Figure 12b*).
3. Create a seal when using your lips to surround the person's mouth (*Figure 12c*).
4. Blow into the person's mouth for one full second and watch for chest to rise (*Figure 12d*). Tilt the victim's head further back if the chest does not rise.
5. Give an additional breath for over one second.
6. If you cannot see the chest rise in two breaths, continue giving chest compressions.



Figure 13

INFANTS MOUTH-TO-MOUTH/NOSE

When performing rescue breathing on an infant, the rescuer should cover the infant's mouth and nose when possible and do the following:

1. Open the airway using the head-tilt/chin-lift maneuver (*Figure 13a*). Be sure not to hyper-extend the neck. Aim for a neutral position.
2. Create a seal using your lips to surround the infant's nose and mouth (*Figure 13b*).
3. Gently blow into the infant's nose and mouth for one second (*Figure 13c*). Keep in mind that an infant's lungs are smaller than an adult's and need a smaller volume of air. Watch for the infant's chest to rise. If you cannot see the chest rise, re-adjust the tilt of their head.
4. Give an additional breath and watch for the infant's chest to rise. If unable to cover both mouth and nose entirely with your mouth, use the following method for rescue breathing:
 - a. Open the airway using the head-tilt/chin-lift maneuver.
 - b. Pinch the infant's nose closed.
 - c. Create a seal using your lips to surround the infant's mouth.
 - d. Gently blow into the infant's mouth for one second.
 - e. Give an additional breath and watch for the chest to rise.



RESCUE BREATHING

In many cases, cardiac arrest is preceded by respiratory arrest. Therefore, it is important to be able to recognize respiratory issues in order to take steps to prevent cardiac arrest.

When a person of any age has a pulse but is not breathing (or is not breathing well), immediately open the airway using the head-tilt/chin-lift maneuver and begin rescue breathing. See [Table 2](#) for details on rescue breathing.

Table 2

AGE GROUP	HOW OFTEN	BREATHS PER MINUTE	DURATION	EVALUATION
<i>Adult</i>	<i>Every 6 seconds</i>	<i>10 to 12 breaths per minute</i>	<i>Each breath should last one second</i>	<i>Check for chest rise and breathing; Check pulse and begin CPR if necessary</i>
<i>Child/Infant</i>	<i>One rescuer: Every 6 seconds Two rescuers: Every 2 to 3 seconds</i>	<i>One rescuer: 10 to 12 breaths per minute Two rescuers: 20 to 30 breaths per minute</i>		



RELIEF OF CHOKING



Figure 14

Choking is a common preventable cause of cardiac arrest. The correct response for a choking person depends on the degree of airway obstruction, whether the person is responsive or not, and the age of the person. See [Table 3](#) for rescue actions for choking in adult and children.

Choking In Adults And Children

DEGREE OF OBSTRUCTION	PERSON'S RESPONSE	RESCUER'S ACTION
Mild Obstruction	<ul style="list-style-type: none">Breathing but may also be wheezingCoughing and making noise	<ul style="list-style-type: none">Stay with the person and try to keep them calmEncourage them to coughCall 911/EMS if the person seems to be getting worse
Severe Obstruction	<ul style="list-style-type: none">Clutching the neck (universal sign of choking: figure 15)Weak or no coughUnable to make noise or talk; may make high-pitched noiseLittle or no breathingMay be cyanotic (blue around lips and fingertips)	<ul style="list-style-type: none">Deliver 5 back blows between the shoulder blades, then 5 abdominal thrusts. Alternate until obstruction is relieved or person becomes unresponsive.Call 911/EMSBegin BLS if the person becomes unresponsive

Table 3

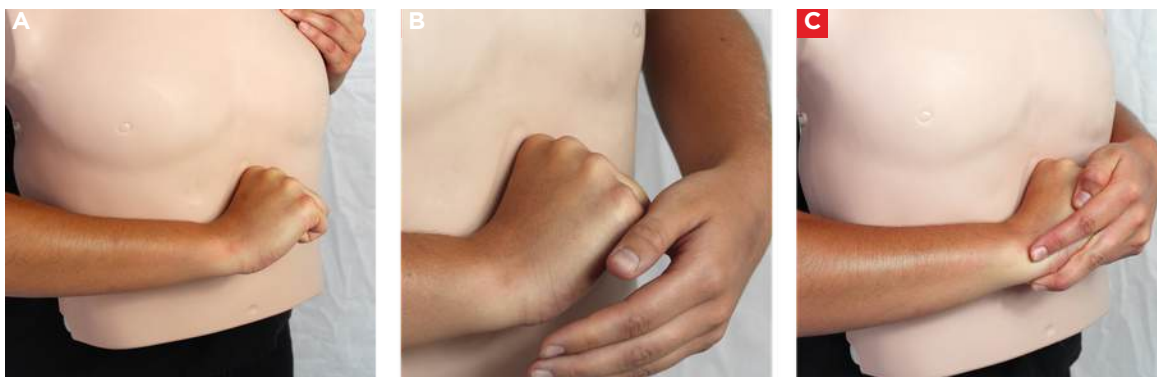


Figure 15:
Abdominal
Thrusts

If you can see a foreign object in the individual's mouth and can easily remove it, then do it. Watch and feel for breathing to begin. If the individual does not begin breathing, continue to provide CPR and rescue breaths until help arrives.

Back Blows and Abdominal Thrusts

These steps should only be used when a person is responsive and older than one year of age.

To properly perform abdominal thrusts, do the following:

1. Begin with 5 back blows: stand to the side and slightly behind the person, support their chest with one hand, and deliver 5 firm blows between the shoulder blades with the heel of your free hand. Then perform 5 abdominal thrusts as follows. Alternate back blows and abdominal thrusts until the obstruction is cleared or the person becomes unresponsive.
2. Stand behind the responsive person. Wrap your arms around their waist under their ribcage.
3. Put the side of your fist above the person's navel in the middle of their belly. Do not press on the lower part of the sternum (*Figure 15a*).
4. With your other hand, hold the first fist and press forcefully into the person's abdomen and up toward their chest (*Figure 15b and 15c*).
5. Continue performing these thrusts until the obstruction is relieved or until the person becomes unresponsive.



Choking In Infants

DEGREE OF OBSTRUCTION	INFANT'S RESPONSE	RESCUER'S ACTION
Mild Obstruction	<ul style="list-style-type: none">• Breathing but may also be wheezing• May be coughing and making noise	<ul style="list-style-type: none">• Stay with the infant and try to keep them calm• Do not do a blind finger sweep• Call 911/EMS if infant does not quickly clear the obstruction
Severe Obstruction	<ul style="list-style-type: none">• Weak or no cough• Unable to make noise; may make high-pitched noise• Little or no breathing• May be cyanotic (blue around lips and fingertips)	<ul style="list-style-type: none">• Use back blows/chest thrusts to attempt to remove obstruction• call 911/EMS• begin BLS if infant becomes unresponsive• assess if obstruction is visible; if so, remove it

Table 4

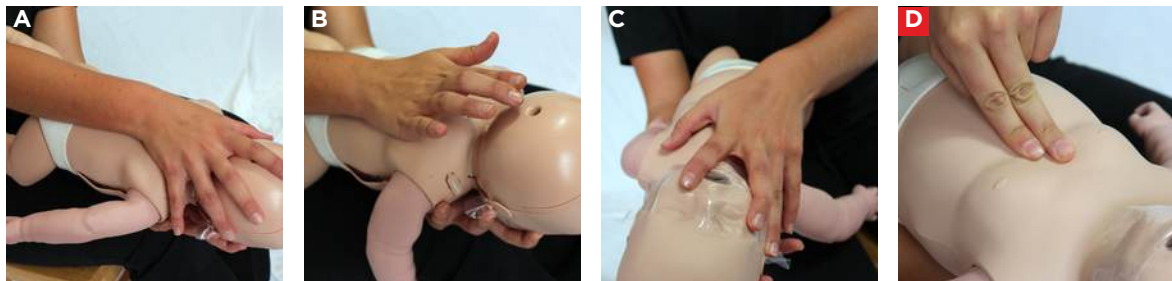


Figure 16

BACK BLOWS AND CHEST THRUSTS IN INFANTS

In a choking but responsive infant less than one-year-old, back blows and chest thrusts are used instead of abdominal thrusts. See [Table 4](#) for rescue actions for choking in infants. To provide back blows and chest thrusts, do the following:

1. Hold the infant in your lap.
2. Put the infant with their face down and their head lower than their chest; they should be resting on your forearm. Put your forearm on your thigh ([Figure 16a](#)).
3. Support the infant's head and neck with your hand and be sure to avoid putting pressure on their throat.
4. Using the heel of your free hand, deliver five back blows between the infant's shoulder blades ([Figure 16b](#)).
5. Using both hands and arms, turn the infant face up so they are now resting on your other arm; this arm should now be resting on your thigh ([Figure 16c](#)).
6. Make sure the infant's head is lower than their chest.
7. Using the fingers of your free hand, provide up to five quick downward chest thrusts over the lower half of the breastbone ([Figure 16d](#)). Perform one thrust every second.
8. If the obstruction is not relieved, turn the infant face down on your other forearm and repeat the process ([Figure 16b](#)).
9. Continue doing these steps until the infant begins to breathe or becomes unresponsive.



SELF-ASSESSMENT FOR RELIEF OF CHOKING

A 21-year-old intoxicated college student turns blue and collapses while eating a hot dog at a bar.

1. What is most likely the cause?
 - a. Cardiac arrest
 - b. Alcohol poisoning
 - c. Choking
 - d. Drug ingestion
2. You assess that the student still has a pulse. What is the next step in managing this case?
 - a. Begin CPR
 - b. Open airway
 - c. Apply AED
 - d. Put in Recovery position
3. You are concerned that this student may have choked. What is the best method to clear an obstruction from the airway?
 - a. Abdominal thrusts only
 - b. 5 back blows followed by 5 abdominal thrusts, alternating
 - c. Start CPR
 - d. Blind finger sweep

ANSWERS

1. C

The color change suggests that he is choking. Patients who are intoxicated are at an increased risk of choking and aspirating food.

2. B

After determining unresponsiveness and activating EMS, open their airway.

3. B

Back blows followed by abdominal thrusts. Deliver 5 back blows first, then 5 abdominal thrusts, alternating until the obstruction is relieved.



ADDITIONAL TOOLS

MEDICODE



With MediCode, you no longer will have to carry a set of expandable cards with you at all times while at work. You will never have to waste valuable time in an emergency situation searching through multiple algorithms until you find the right one. All of the algorithms are now accessible from the palm of your hand, and you will be selecting your desired algorithm by memory in no time. Choose between multiple viewing options and easily share algorithms with co-workers and friends through email and social media.

To improve functionality and speed in obtaining your desired algorithm as quickly as possible in an emergency, they have been divided between BLS, ACLS, PALS, and CPR. All are accessible from the home screen.

The individual algorithms included in this app are:

- Basic Life Support (BLS)
- Advanced Cardiac Life Support (ACLS)
- Pediatric Advanced Life Support (PALS)
- Cardiopulmonary Resuscitation (CPR) AED, and First Aid



CERTALERT+



CertAlert+ is the perfect app to minimize a potential area of stress and distraction in your life. With CertAlert+, you will have all your licenses and certifications in one place anytime you need them. We will keep track and remind you when your expiration date approaches, and we will help you with your registration whenever possible.

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- Take photos (front and back) of certification cards and licenses for simple reference.
- Record all expiration dates and store with ease.
- Choose when you want to be reminded of your approaching expiration dates.
- Send all license or certification information directly to your email after exporting from the app.
- Quick access to easily register for online certification and recertification courses.





BLS REVIEW QUESTIONS

1. The 2020 ILCOR Guidelines for CPR changed the recommended compressions to ventilations ratio for Pediatrics to:
 - a. 15:2 for all scenarios
 - b. 30:2 for all scenarios
 - c. 30:2 for 1 provider, then switch to 15:2 for 2 providers
 - d. 15:2 for 1 provider, then switch to 30:2 for 2 providers
2. Critical characteristics of high-quality CPR include which of the following?
 - a. Start chest compressions within 10 seconds of recognition of cardiac arrest
 - b. Allow complete chest recoil after each compression
 - c. Minimize interruptions of CPR
 - d. All of the above
3. At what age is it preferable to use the pediatric AED pads?
 - a. 8 years of age or older
 - b. Less than 8 years of age
 - c. 12 years of age or younger
 - d. 18 years of age or younger
4. The compression to ventilation ratio for single rescuer giving CPR to an Adult is:
 - a. 30:1
 - b. 30:2
 - c. 15:1
 - d. 15:2
5. Where should you attempt to perform a pulse check in an adult?
 - a. Brachial artery
 - b. Carotid artery
 - c. Popliteal artery
 - d. Temporal artery
6. An AED can be used safely in all of the following situations except:
 - a. Victim lying in the snow
 - b. Victim with an implanted pacemaker
 - c. Victim with a transdermal medication patch on
 - d. Victim lying partially in water
7. The 6 steps in the unified Chain of Survival include all of the following except:
 - a. Early CPR
 - b. Rapid defibrillation
 - c. Use of cardiovascular medications
 - d. Integrated post-cardiac arrest care



8. You are alone when you encounter a person in what appears to be cardiac or respiratory arrest. What are the first three steps you should take to stabilize the person? Check for danger, _____, and send for help.
- Establish IV access
 - Insert an advanced airway
 - Check for response
 - Start CPR
9. In both children and infants, two minutes of CPR should be given if:
- Witnessed cardiac arrest
 - Unwitnessed collapse
 - Witnessed choking incident
 - Unresponsive victim with pulse and breathing
10. The proper steps for operating an AED are:
- Power on the AED, attach electrode pads, shock the person, and analyze the rhythm
 - Power on the AED, attach electrode pads, analyze the rhythm, and shock the person
 - Power on the AED, analyze the rhythm, attach electrode pads, and shock the person
 - Power on the AED, shock the person, attach electrode pads, and analyze the rhythm

ANSWERS

- C
30:2 for 1 provider, then switch to 15:2 for 2 providers
- D
All of the above
- B
Less than 8 years of age, weighing 55 pounds (25 kg). Eight years old and older (to adult) use adult pads.
- B
30:2
- B
Carotid artery
- D
Victim lying partially in water
- C
Use of cardiovascular medications
- C
Check for response.
- B.
If you come across a child with unwitnessed collapse, perform 2 minutes of CPR if you are alone and can't call for help.
- B
Power on the AED, attach electrode pads, analyze the rhythm, and shock the person.



Who is the Disque Foundation?

The Disque Foundation was created for the sole purpose of empowering others to save lives! We do this by providing advanced health care education to underserved populations of the U.S. and the world through technology.

To fulfill this mission, we have created the Save a Life Initiative. We offer the world's first free life support training courses online through our partnership with SaveaLife.com (Save a Life by by Advanced Medical Certification). Saving lives means giving others the chance to make a difference in the world. Our goal is to empower 20 million people with the ability to save a life by 2028.



How can I help?

Through the help of committed supporters like yourself, the Disque Foundation will have the ability to grow and expand our cause across the globe. Please help us by making a tax-deductible gift to the Disque Foundation. A donation of any size will help support our mission and your generous contribution will go directly to strengthening our efforts to empower others to save lives.

Donations can be made at DisqueFoundation.org or by mailing a check to:

Disque Foundation Donations Department
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For more information, contact us at info@disquefoundation.org.



Learn more at
DisqueFoundation.org

Save a Life

INITIATIVE™

The idea behind the Save a Life Initiative is simple – take the same advanced life-saving training we developed for health care providers, and give it to the underserved, at home and abroad. We work in conjunction with SaveaLife.com to fulfill its mission of advancing health care education to the underserved through advanced technology. When we put the knowledge, skills, and ability to perform CPR and other proven techniques in people's hands around the world, the power to save lives is possible.

