

2020 AHA GUIDELINES

Pediatric Advanced Cardiac Life Support

ARRHYTHMIA

DEFIBRILLATION

Shockable

Coarse Ventricular Fibrillation (Coarse VF)

Fine Ventricular Fibrillation (Fine VF)

Ventricular Tachycardia – Pulseless

Polymorphic Ventricular Tachycardia

Not Shockable

Pulseless Electrical Activity (PEA)

Asystole

PALS PROTOCOL

Pediatric Cardiac Arrest Algorithm¹

CPR Quality

Shock Energy for Defibrillation

Drug Therapy

Advanced Airway

Reversible Causes

NON-INVASIVE PACING

Pediatric Bradycardia With a PulseAlgorithm¹

Non-invasive Pacing with Pediatric Electrodes

Effective Pacing: Note the widened positive QRS, which looks like an ectopic beat. Note the inverted T-waves and absence of P-waves.

CARDIOVERSION

Pediatric Tachycardia With a PulseAlgorithm¹

Syncronized Cardioversion

ECG waveform with sync markers

MANUAL DEFIBRILLATION

With OneStep™ Pediatric CPR Electrodes

1. Apply pediatric electrodes to patient

2. Select patient mode (depending upon pad and cable configuration)

3. Press ENERGY SELECT Arrows up or down to select appropriate energy level

4. Push CHARGE button

5. Stand clear

6. Press and hold SHOCK button on device until energy is delivered to patient

HIGH-QUALITY CPR IS VITAL

Components of high-quality CPR include:

Ensuring chest compressions of adequate rate

Ensuring chest compressions of adequate depth

Allowing full chest recoil between compressions

Minimizing interruptions in chest compressions

Avoiding excessive ventilation

NON-INVASIVE PACING

Non-invasive Pacing with Pediatric Electrodes

1. Apply Pediatric Electrodes to Patient

2. Press PACER button to open pacing menu

3. Using Navigation keys, highlight Start Pacer and press Select button to initiate pacing

4. Using Navigation keys, highlight Output and press Select button

5. To adjust rate, use Navigation keys, highlight Rate, and press Select button

Effective Pacing: Note the widened positive QRS, which looks like an ectopic beat. Note the inverted T-waves and absence of P-waves.

SYNCRONIZED CARDIOVERSION

1. Press SYNC Quick Access Key to enable synchronized mode on device

2. When in SYNC mode, unit displays markers (S) above ECG trace to indicate points in cardiac cycle (R waves) where discharge can occur. Verify that markers are clearly visible on monitor and their location is appropriate and consistent from beat to beat.

3. Apply pediatric electrodes to patient

4. Select patient mode (depending upon pad and cable configuration)

5. Press ENERGY SELECT arrows up or down to select appropriate energy level

6. Push CHARGE button

7. Stand clear

8. Press and hold SHOCK button on device until energy is delivered to patient

ECG waveform with sync markers

Reprinted with permission Circulation 2020;142:S469-S523 ©2020 American Heart Association, Inc.

The information contained above summarizes 2020 PALS Protocols as published by the American Heart Association and is not meant as a substitute for comprehensive PALS training. ZOLL Medical Corporation assumes no liability for changes or local interpretations of standard protocols. Some patients may require care not described herein. These guidelines should not limit treatment options.

©2021 ZOLL Medical Corporation. All rights reserved. OneStep and ZOLL are trademarks or registered trademarks of ZOLL Medical Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners. ZOLL Medical Corporation • 269 Mill Road • Chelmsford, MA 01824-4105

MCP EN 2106 0388