



V-Fib/Pulseless V-Tach



Cardiac Arrest (Pediatric)

CRITERIA

- Patient unresponsive, without pulse, and a shockable rhythm evident on ECG
- Patients with rigor mortis, lividity, decomposition or injuries inconsistent with survival (e.g., decapitation or obvious mortal injury) are excluded
- Determine DNR status

PROTOCOL

EMR	Follow <i>General – Universal Patient Care/Initial Patient Contact Protocol</i> .	EMR
	If " NO SHOCK ADVISED " refer to <i>Cardiac Arrest – Asystole Protocol</i> .	
EMR	If " SHOCK ADVISED ", defibrillate once, resume CPR. Analyze after 5 cycles.	EMR
I	If VF or VT present, defibrillate once at 2 J/kg . (AED usage allowed per manufacturers recommendation only.) Resume CPR immediately.	I
EMR	Follow American Heart Association guidelines for CPR.	EMR
I	Administer Epinephrine 1:10,000 0.01 mg/kg (0.1 mL/kg) IV/IO .	I
I	After CPR, defibrillate at 4 J/kg . Resume CPR immediately.	I
I	Administer antidysrhythmic: With vascular access: administer Amiodarone HCL (Cordarone) 5 mg/kg bolus (diluted in 0.9% Normal Saline 10 mL) to a maximum single dose of 300 mg IV/IO If Amiodarone unavailable: administer Lidocaine (Xylocaine) 1 mg/kg IV/IO Subsequent antidysrhythmic therapy must be consistent with the first antidysrhythmic delivered. i.e.: DO NOT give Lidocaine if Amiodarone has already been administered.	I
I	After CPR, defibrillate at 4 J/kg . Resume CPR immediately.	I
I	Repeat Epinephrine 1:10,000 0.01 mg/kg (0.1 mL/kg) IV/IO , CPR and defibrillation.	I
[I]	Repeat antidysrhythmic, CPR and defibrillation.	[I]
EMR	Consider spinal immobilization.	EMR

PEARLS

If there is no **Epinephrine 1:10,000 preloaded syringe**, combine in a **10 mL syringe: 1 mg (1 mL) of Epinephrine 1:1,000 with 0.9% Normal Saline 9 mL**. This creates the same as an **Epinephrine 1:10,000 preloaded syringe**.

The American Heart Association guidelines emphasize the importance of effective uninterrupted CPR during cardiac arrest. The following points are applicable in the shockable cardiac arrest protocol:

- Unwitnessed arrest: Provide CPR prior to first defibrillation
- Witnessed arrest: Proceed quickly to first defibrillation
- Do not compromise CPR to obtain an advanced airway. Consider Blind Insertion Airway Device



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- Once advanced airway is obtained, perform asynchronous CPR
 - Ensure full chest recoil during CPR
 - Obtain IV/IO access at earliest opportunity
 - Consider reversible causes:
 - Hypoxia
 - Hyperkalemia or hypokalemia
 - Preexisting acidosis
 - Drug overdose
 - Hypothermia
 - Tension Pneumothorax
 - Following IV/IO access:
 - Medication should be given without the interruption of CPR
 - Each medication delivery is separated by a defibrillation and CPR
 - Medication cycle is Epinephrine, Antidysrhythmic, Epinephrine, Antidysrhythmic, Epinephrine, etc.
- 🔔 Ensure high quality CPR and effective compressions for key to survival
- 🔔 ALS care should be obtained as rapidly as possible, but do not delay transport waiting for ALS
- 🔔 ALS providers arriving on scene shall not interrupt defibrillation in progress