Pediatric Ventricular Fibrillation/Pulseless Ventricular Tachycardia

“Circle of Life”
Core Concepts of Resuscitation
Assess C A B’s & Begin CPR
Attach monitor / defibrillator
**Defibrillate 2 J/kg**
Administer Oxygen
Continually provide CPR in 2 min cycles
Stop briefly every 2 min to assess and defibrillate

[Secondary procedures]
Secure Airway when appropriate / Monitor CO₂
Obtain Vascular Access
Defibrillate 4 J/kg 2 minutes after first defibrillation
Epinephrine
IV/IO: 0.01 mg/kg 1:10,000
Defibrillate 4 J/kg if VF or pulseless VT
Amiodarone 5mg/kg IV or IO
Defibrillate 4 J/kg if VF or pulseless VT
Repeat Epinephrine every 3 -5 min at the same dose
Continue 2 min of CPR after each dose
Defibrillate 4 J/kg
May repeat Amiodarone every 5 min up to 15mg/kg
Defibrillate 4 J/kg
Identify and Treat causes between defibrillation

Anytime in the sequence:
H’s-Hypovolemia, Hypoxia, Hydrogen ions (acidosis), Hypothermia, Hypo/hyper kalemia, Hypoglycemia
T’s-Toxins, Trauma, Tamponade, Tension Pneumo, Thrombus (pulm or coronary), Too fast or too slow.

May consider:
Lidocaine 1mg/kg 
(equally effective as Amiodarone)
or
Magnesium sulfate 25-50 mg/kg ONLY if Torsades or hypomagnesemia is suspected