CAA Cardiac Arrest – Asystole/PEA

longlives ANESTHESIA PATHWAYS

Non-shockable pulseless cardiac arrest

Start

1. Call for "ANESTHESIOLOGIST STAT" and CODE CART

- **Say:** "The top priority is high-quality CPR"

2. Put backboard under patient, supine position

3. Turn FiO_2 to 100%, turn off anesthetics

4. Start CPR - Assessment cycle:

5. Attach defibrillator to patient simultaneously with CPR

- **Perform CPR**
  - "Hard and Fast"; 100 compressions/min
  - Ensure full chest recoil with minimal interruptions
    - If $ETCO_2$ < 10 or DBP < 20mm Hg, consider improved quality compressions
  - 10 breaths / minute, do not over ventilate (30:2 ratio of compressions to breaths if not intubated)
- **Give Epinephrine**
  - Repeat epinephrine every 3-5 minutes
- **Assess every 2 minutes**
  - Change CPR compression provider
  - Treat reversible causes, read aloud Hs & Ts (see list in right column)
  - Check rhythm; if rhythm organized check pulse

If: Asystole/PEA continues:

- Resume CPR - Assessment Cycle (restart Step 4 above)
- Reversible causes: Read aloud Hs &Ts (see list in right column)

If: VF/VT:

- Resume CPR
- Go to » CHKLST CAV

Critical Changes

If VF/VT: Go to » CHKLST CAV

DRUG DOSES and treatments

EPInephrine 1 mg IV, repeat every 3 - 5 minutes

Vasopressin 40 units IV x 1 may replace 1st or 2nd dose of epinephrine

TOXIN treatment

Local anesthetic:	Intralipid Go to » CHKLST LST
Beta-blocker:	Glucagon 2-4 mg IV push
Calcium Channel Blocker or Hyperkalemia	Calcium Chloride 1g IV

Hs & Ts (possible causes)

Hypovolemia	**Trauma (hemorrhage)**
Hypoxia	**Thrombosis (coronary/PE)**
Hydrogen ion (acidosis)	**Tension pneumothorax**
Hyper/ Hypokalemia	**Tamponade (cardiac)**
Hypothermia	**Toxins (local anesthetic, beta blockers, calcium channel blockers)**
Hypoglycemia	

During CPR

Airway:	Bag-mask sufficient (if ventilation adequate) Consider advance airway
Circulation:	Confirm adequate IV or IO access Consider IV fluids wide open
Assign Roles:	Chest compressions, Airway, Vascular access, Documentation, Code cart, Time keeping

PROVIDENCE ANESTHESIOLOGY ASSOCIATES