

POST CARDIAC ARREST RETURN OF SPONTANEOUS CIRCULATION (ROSC)

UPDATED 4/2025

ALL PROVIDERS / EMT

- Treatment Plan
 - Focused history and physical exam
 - Blood glucose assessment.
 - Continuous ECG, ETCO₂, and pulse oximetry monitoring.
 - Assist ventilations to maintain ETCO₂ 35-45mmHg.
 - Document blood pressure and acquire 12 lead EKG immediately after establishing ROSC.
 - Prepare for transport while maintaining monitoring and re-checking for pulse periodically.
 - Acquire and transmit post-ROSC 12 lead EKG as well as a second 12 lead EKG 10 minutes post-ROSC.
 - Consider placing mechanical CPR device for transport, if available, in case of re-arrest.
 - Consider fluid resuscitation up to 1L NS/LR for target MAP >65 and/or SBP 90
 - Pediatric lowest acceptable systolic blood pressures are:
 - Birth to 1 month = 60mmHg
 - 1 month to 1 year = 70mmHg
 - 1 year to 10 years is = 70mmHg + (age x 2)
 - Over 10 years = 90mmHg
 - Emergent transport to a STEMI/PCI receiving center.

ADULT

AEMT

- Supraglottic airway, vascular access and fluid therapy.
- Administer crystalloid to achieve a goal of SBP of 90 mmHg or MAP of 65.

PARAMEDIC

- **Epinephrine drip - 2-10mcg/min IV/IO** infusion. Titrate to maintain SBP of 90mmHg or MAP of 65.
- **Push Dose Epinephrine – 2-10mcg** as needed to maintain SBP 90mmHg or MAP of 65
- **Norepinephrine – 1mcg/kg/min IV/IO** infusion. Titrate up to 30mcg/min to maintain SBP 90mmHg or MAP of 65
- For patients with an advanced airway already in place and the return of a gag reflex. Administer **ONCE** via **IV/IO**:
 - **ET intubated PTs**
 - **Fentanyl – 50-100mcg**
 - AND
 - **Midazolam – 2.5mg**
 - **Supraglottic airway PTs**
 - **Fentanyl – 50mcg**

PEDIATRIC

Pediatric dose should NOT EXCEED adult dose

AEMT

- Supraglottic airway, vascular access and fluid therapy.
- Administer crystalloid to achieve a goal of SBP appropriate for age listed above.

PARAMEDIC

- **Epinephrine drip - 0.1-0.5 mcg/kg/min IV/IO.** Titrate to maintain an appropriate SBP for age
- **Push Dose Epinephrine – 1mcg/kg/min** Titrate to maintain appropriate SBP for age
- **Norepinephrine – 0.05-0.1mcg/kg/min IV/IO** infusion. Titrate to maintain appropriate SBP for age
- For patients with an advanced airway already in place and return of a gag reflex. Administer **ONCE** via **IV/IO**:
 - **ET intubated PTs**
 - **Fentanyl - 1mcg/kg**
 - AND
 - **Midazolam - 0.1mg/kg**
 - **Supraglottic Airway PTs**
 - **Fentanyl – 0.5mcg/kg**