

Return Of Spontaneous Circulation (ROSC)

MANAGE AIRWAY

- Early placement of endotracheal tube

MANAGE RESPIRATORY PARAMETERS

- Start at 10 breaths per minute
- SpO₂ ≥92%-98%
- PaCO₂ 35-45 mm Hg

MANAGE HEMODYNAMIC PARAMETERS

- Systolic blood pressure >90 mm Hg
- Mean arterial pressure >65 mm Hg

Obtain 12-lead ECG

CONSIDER EMERGENCY CARDIAC INTERVENTION IF:

- STEMI present
- Unstable cardiogenic shock
- Mechanical circulatory support required

Does patient follow commands?

NO

YES

COMATOSE

- TTM
- Obtain brain CT
- EEG monitoring
- Other critical care management

AWAKE

Other critical care management

Evaluate and treat rapidly reversible etiologies
Involve expert consultation for continued management

INITIAL STABILIZATION PHASE

Resuscitation during the post-ROSC phase is ongoing. Many of these activities can occur concurrently.

However, if prioritization is necessary follow these steps:

- Airway Management: Waveform capnography or capnometry and monitor ETT placement
- Manage respiratory parameters: Titrate FIO₂ for SpO₂ 92%-98%; start at 10 breaths/min; titrate to PaCO₂ of 35-45 mm Hg
- Manage hemodynamic parameters: Administer crystalloid and/or vasopressor or inotrope for goal systolic blood pressure >90 mm Hg or mean arterial pressure >65 mm Hg

CONTINUED MANAGEMENT AND ADDITIONAL EMERGENT ACTIVITIES

These evaluations should be done concurrently so that decisions on targeted temperature management (TTM) receive high priority as cardiac interventions.

- Emergent cardiac intervention: Early evaluation on 12-lead electrocardiogram (ECG); consider hemodynamics for decision on cardiac intervention
- TTM: If patient is not following commands, start TTM as soon as possible; begin at 32-26°C for 24 hours by using a cooling device with feedback loop
- Other critical care management:
 1. Continuously monitor core temp
 2. Maintain normoxia, normocapnia, and euglycemia
 3. Provide EEG monitoring
 4. Provide lung-protective ventilation

H'S AND T'S

H's

- Hypovolemia
- Hypoxia
- Hydrogen ion (acidosis)
- Hypo-/hyperkalemia
- Hypothermia

T's

- Tension pneumothorax
- Tamponade (cardiac)
- Toxins
- Thrombosis (pulmonary)
- Thrombosis (coronary)

