Non-Traumatic Shock Adult & Pediatric

Recognize Compensated Shock-Adult

- Anxiety
- Tachycardia
- Tachypnea
- Diaphoresis

NO

SHOCK

Inadequate tissue perfusion that impairs cellular metabolism

Recognize Compensated Shock - Pediatric:

- Delayed capillary refill
- Decreased or bounding peripheral pulses
- Palpable central pulse, decreased distal pulse
- Cool extremities
- Altered mental status
 - Mild tachypnea



Trauma Involved?

See Shock - Traumatic Protocol 4.

EMT STANDING ORDERS - ADULT & PEDIATRIC:



Obtain finger stick lactate level (if available and trained)

ETCO₂ < 25 mmHg OR lactate > 2 mmol/L may indicate poor perfusion/shock



ADVANCED EMT STANDING ORDERS – ADULT & PEDIATRIC ADULT: Administer 0.9% NaCl in 250 mL boluses to return the patient to a coherent mental status or palpable radial pulse, not to exceed 2000 mL without consultation with Medical Control.

PEDIATRIC: Administer fluid bolus of 20 mL/kg of 0.9% NaCl by syringe push method (may repeat to a maximum 60 mL/kg) to improve clinical condition (capillary refill time ≤ 2 seconds, equal peripheral and distal pulses, improved mental status, normal breathing.



ADULT: If there is no adequate hemodynamic response after 2,000 ml IV fluid infused consider:



Norepinephrine infusion 1 – 30 microgram/minute (preferred) via pump, OR

Epinephrine infusion 2 – 10 micrograms/minute, via pump **PEDAITRIC**: If there is no adequate hemodynamic response after 60 mL/kg IV fluid infused contact Medical Control



Consider-▶

CARDIOGENIC SHOCK

Primary pump failure Decreased cardiac output

Norepinephrine infusion 1 – 30 microgram/minute (preferred) via pump, OR

Epinephrine infusion 2 – 10 micrograms/minute, via pump *For pediatric cardiogenic shock administer fluid bolus of 10mL/kg of 0.9% saline by syringe push method. Repeat bolus per **Medical** Control.



Consider-

DISTRIBUTIVE SHOCK

Inadequate blood volume distribution.

Known history of AI or recent illness, see Adrenal Insufficiency Protocol

Systemic response to an allergen, see Anaphylaxis/Allergic Reaction Protocol 2.2A&P

Overwhelming response to an infection, see Sepsis Protocol 2.18 A&P

-Consider→

HYPOVOLEMIC SHOCK

Insufficient circulating volume.

Abdominal pain with vaginal bleeding see Obstetric Protocol 2.14. Nausea and vomiting see Nausea Vomiting Protocol 2.11. For GI bleeding see Abdominal Pain Protocol 2.0. Heat exposure, see Hyperthermia Protocol 2.8.

Consider-▶

OBSTRUCTIVE SHOCK

Obstruction of blood flow outside the heart

For cardiac tamponade, rapid transport, treat arrhythmias per Cardiac Protocols 3.0 – 3.6.

For spontaneous pneumothorax: consider needle decompression per Thoracic Injury Protocol 4.6

For pulmonary embolism: rapid transport and see Airway Management Protocol 5.0.

Medical Protocol