

Pediatric Shock

¹Manage anaphylactic shock as per **Pediatric Anaphylaxis** protocol

²Alert the hospital if you have a sepsis patient!

Risk Factors for Septic Shock

Cancer
Sickle Cell disease
Catheters (PICC, Foley, etc)
Immune deficiency or compromise
History of transplant
Severe developmental delay

Routine Medical Care / Trauma Care

- Include temperature
- Look for associated injuries

Place 1 or 2 IVs of the largest size possible
(consider IO after two unsuccessful attempts)

Consider etiology of shock state

General Signs of Shock

- Altered mental status
- Delayed/flash capillary refill
- Weak or decreased pulses
- Tachycardia*
- Elevated RR
- Hypoxemia
- Hypotension for age
- Decreased urine output

sometimes tachycardia is the only symptom

Normal SBP = 70 + (age in yrs x 2)

¹Anaphylactic

²Septic

Hypovolemic

Neurogenic

Obstructive

Cardiogenic

Crystalloid Fluid bolus

20 mL/kg IV/IO (max 1L)

deliver bolus as quickly as possible
(infuse over <15 minutes)

- High flow O₂ via NRB
- Evaluate lung sounds
- Decompress tension pneumothorax (consult **Med Control** prn)

- Evaluate lung sounds
- **Crystalloid Fluid bolus** 10 mL/kg IV/IO (max 500 mL)

- Reassess vital signs and perfusion
- Look for signs of fluid overload (ex. JVD, crackles, hepatomegaly, hx of heart failure)

Repeat prior **Crystalloid Fluid bolus** 20 ml/kg
(if cardiogenic 10ml/kg)

Are there signs of fluid overload?

No

Yes

Start Epinephrine infusion³
0.01-0.5 mcg/kg/min

³Consider Vasopressor Infusion:

Epinephrine 0.01–0.5 mcg/kg/min

or

Norepinephrine 0.01–0.5 mcg/kg/min

³While preparing infusion, consider

Push Dose Epinephrine 1ml IV/IO - may repeat q5min x 2 (3 doses total)
Do NOT administer faster than 1ml/min.

To Make:

Using a 1ml syringe, draw 0.1ml of 0.1mg/ml (1:10,000) Epi and 0.9 ml of NS
(syringe = 10mcg/ml Epinephrine)

* contraindicated in traumatic shock*

Normal Vital Signs by Age

AGE	HEART RATE (beats/min)	BLOOD PRESSURE (mmHg)	AGE	HEART RATE (beats/min)	BLOOD PRESSURE (mmHg)
Premature	120-170	55-75/35-45	1-3 yr	70-110	90-105/55-70
0-3 mo	100-150	65-85/45-55	3-6 yr	65-110	95-110/60-75
3-6 mo	90-120	70-90/50-65	6-12 yr	60-95	100-120/60-75
6-12 mo	80-120	80-100/55-65	12+ yr	55-85	110-135/65-85

Contact Medical Control for additional orders or consultation

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