

Colorado Pediatric
Preparedness for the
Emergency Room
(COPPER)

## Position airway

• If hypoxemia – give O2 supplement (NC, Face mask, NRB)

**Abnormal Appearance & Breathing =** 

**Respiratory Failure** 

**ACT NOW** 

• If increased WOB – support with flow (NC, hold PEEP for CPAP, HHFNC, BVM)



#### **Abnormal Breathing**

- RR?
- SpO2?
- Increased WOB? (Look at skin any retractions? Tracheal tugging? Nasal flaring?)
- Lung sounds?

#### **Abnormal Appearance**

- Glucose?
- Pupil check?
- Trauma visible?
- Fever?
- Abnormal movements?

#### **CNS Causes**

- Seizure
- Toxin
- Trauma
- Tumor

Infection

Stroke

#### Other Causes

- Sepsis
- Toxin
- Hypoxemia
- Metabolic

#### **Pulmonary Causes**

- Asthma (个 RR, wheeze or decreased air entry, 个WOB)
- Bronchiolitis (↑ RR, changing breath sounds, wheezes/ crackles, ↓ SpO2)
- Pneumonia (↓ SpO2, fever)
- Pneumothorax
- Croup (stridor, 个RR, 个WOB)

#### **Non-Pulmonary Causes**

- Sepsis (+/- fever)
- Acute abdomen ↑ RR, normal SpO2, normal WOB (pain)
- DKA (hyperpnea)
- Metabolic
- Cardiac (normal lung sounds, RR > 80, +/- hypoxemia, possible hepatomegaly, any murmur?)
- Toxins

# Abnormal Circulation and Appearance ACT NOW

- Unless known contraindication give O2
- Determine if hypovolemic or cardiogenic shock
- If hypovolemic (sepsis, dehydration, toxin)
  - Give 20mL/kg fluid bolus fast
  - Re-evaluate
  - Consider sepsis
- If cardiogenic CXR, ECG, call for consult, consider pressors

### Abnormal Circulation

CIRCULATION

PEDIATRIC ASSESSMENT TRIANGLE

- HR
- Cap refill (check several places)
- BP (check cuff size)

#### **Cardiac Causes**

- Neonate? Consider ductal dependent lesion? (give PGE, monitor for apnea)
- Myocarditis
- Congenital heart disease

#### **Other Causes**

- Sepsis
- Hypovolemic / neurogenic shock
- Metabolic
- Pain

# Abnormal Breathing and Circulation = Impending CV Collapse ACT NOW

- If hypoxemia give O2 (NC, Face mask, NRB)
- If increased WOB support with flow (NC, hold PEEP for CPAP, BMV, HHFNC)
- Consider sepsis
- Consider toxin give naloxone
- NS 20mL/kg bolus, pressors (consider push/pull fluid administration when pressure bag is not appropriate due to volume)