CONTINUOUS POSITIVE AIRWAY PRESSURE - CPAP

- PURPOSE: To improve ventilation and oxygenation, and avoid intubation. CPAP is required for all ALS providers.
- 2. **INDICATIONS:** Patients age 8 or older in severe respiratory distress and:
 - ► CHF with pulmonary edema
 - **▶ Near-drowning**
 - ▶ Other causes of severe respiratory distress
- CONTRAINDICATIONS Bag-valve-mask ventilation or endotracheal intubation should be considered for any patient who exhibits one or more of the following contraindications
 - 3.1 Absolute Contraindications (DO NOT USE):
 - ► Age < 8
 - ▶ Respiratory or cardiac arrest
 - ► Agonal respirations
 - ► Severely depressed level of consciousness
 - ► Systolic blood pressure < 90
 - ► Signs and symptoms of pneumothorax
 - ► Inability to maintain airway patency
 - ► Major trauma, especially head injury with increased ICP or significant chest trauma
 - ► Facial anomalies or trauma (e.g., burns, fractures)
 - ▶ Vomiting
 - 3.2 Relative Contraindications (USE CAUTIOUSLY):
 - ► History of Pulmonary Fibrosis
 - ▶ Decreased LOC
 - ► Claustrophobia or unable to tolerate mask (after first 1-2 minutes trial). Consider Sedation, page 139

4. COMPLICATIONS:

- ► Hypotension
- ▶ Pneumothorax
- ► Corneal Drying
- 5. GOALS OF CPAP:
 - ► Elimination of dyspnea
 - ▶ Decreased respiratory rate
 - ▶ Decreased heart rate
 - ► Increased Sp0₂
 - ► Stabilized blood pressure

Bag-valve-mask ventilation or endotracheal intubation should be considered if the patient fails to show improvement based on the above goals.

CONTINUOUS POSITIVE AIRWAY PRESSURE - CPAP

For all CPAP patients:

- FAILURE TO IMPROVE: Should the patient fail to show improvement with CPAP (as evidenced by the following) remove the CPAP device and assist ventilations with BVM, as needed
 - 6.1 Sustained or increased heart rate,
 - 6.2 Sustained or increased respiratory rate,
 - 6.3 Sustained or increased blood pressure,
 - 6.4 Sustained or decreasing pulse oximetry readings, and/or
 - 6.5 Decrease in level of consciousness

7. DOCUMENTATION:

- 7.1 The use of CPAP rnust be documented on the PCR
- 7.2 Vital signs (BP, HR, RR, Sp0₂) must be documented every 5 minutes.
- 7.3 Narrative documentation should include a description of the patient's response to CPAP. Refer to "Goals of CPAP" for descriptive terms that may be useful
- 7.4 Additional narrative documentation should include if the patient does not respond to CPAP and endotracheal intubation is required