

<b>CONTINUOUS POSITIVE AIRWAY PRESSURE (CPAP)</b>		
<b>FOR USE IN PATIENTS &gt;34 KG</b>		
<b>BLS</b>		
Universal Protocol #601		
Pulse Oximetry – O <sub>2</sub> administration per Airway Management Protocol #602		
<b>BLS Elective Skills</b>		
<b>For Moderate to Severe Respiratory Distress</b>		
<b>Application</b>		
<ul style="list-style-type: none"> <li>• Monitor pulse oximetry throughout use</li> <li>• Place patient in sitting position</li> <li>• Set up CPAP per manufacturer recommendations</li> <li>• Confirm air flow prior to applying mask to patient</li> <li>• Instruct patient to inhale through nose and exhale through mouth</li> <li>• Adjust settings, beginning low and titrate in 3cm/H<sub>2</sub>O increments – monitoring patient’s tolerance and improved VS</li> <li>• Consider BVM if patient fails to show improvement</li> <li>• Document patient response before and after application – see notes</li> </ul>		
Discontinue (support respirations with BVM) if:		
<ul style="list-style-type: none"> <li>• Hypotension – SBP &lt; 90 mmHg (remove topical Nitroglycerin products if used)</li> <li>• Increasing respiratory distress or decrease in respiratory drive</li> <li>• Decreasing LOC</li> <li>• Evidence of barotrauma (subcutaneous air or pneumothorax)</li> <li>• Other signs or symptoms of decompensation (ALOC, sustained decrease in O<sub>2</sub> Sat, etc.)</li> </ul>		
<b>ALS Standing Orders</b>		
<ul style="list-style-type: none"> <li>• Monitor End-tidal Capnography throughout use</li> <li>• Medication(s) per appropriate treatment protocol (some patients may not tolerate application until medications take effect)</li> <li>• Consider BVM or endotracheal intubation (adults only) if patient fails to show improvement</li> </ul>		
<b>Base Hospital Orders Only</b>		
As needed		
<b>Notes</b>		
<ul style="list-style-type: none"> <li>• Notify Base Hospital when used</li> </ul>		
<b>Clinical Condition</b>	<b>Therapeutic Range</b>	<b>Maximum Settings</b>
Asthma/Anaphylaxis	3.0-5.0 cm H <sub>2</sub> O	15 cm H <sub>2</sub> O
COPD/Pneumonia	5.0-7.5 cm H <sub>2</sub> O	15 cm H <sub>2</sub> O
Pulmonary Edema/Drowning	7.5-10.0 cm H <sub>2</sub> O	15 cm H <sub>2</sub> O
<ul style="list-style-type: none"> <li>• Indications – Moderate or Severe Respiratory Distress associated with:                             <ul style="list-style-type: none"> <li>○ Acute pulmonary edema</li> <li>○ COPD</li> <li>○ Asthma/Anaphylaxis</li> <li>○ Drowning</li> <li>○ Pneumonia</li> </ul> </li> </ul>		

- **Contraindications**
  - Unconscious or decreased level of consciousness with inability to adequately ventilate
  - Respiratory failure/arrest or cardiac arrest
  - Tracheostomy
  - Sign and symptoms of a pneumothorax
  - Major facial, head or chest trauma
  - Vomiting or upper GI bleed
  - Epistaxis – moderate to severe
  - Unable to control secretions
  - Uncooperative patient after coaching
  - Hypotension (SBP < 90 mmHg)
- **Documentation**
  - Pressure settings and any adjustments
  - Pulse oximetry readings
  - ETCO<sub>2</sub> and ECG (ALS Providers)
  - Vital Signs
  - Response to treatments