

OXYGEN ADMINISTRATION

1. Level: EMT, AEMT, Paramedic, RN
2. Indications:
 - 2.1. Patients experiencing any of the following with $SpO_2 \leq 94\%$:
 - 2.1.1. Shortness of breath
 - 2.1.2. Hypoxia
 - 2.1.3. Respiratory or cardiac arrest
 - 2.1.4. Cardiac chest pain, suspected MI, or Stroke
 - 2.1.5. Shock
 - 2.1.6. Blood loss
 - 2.1.7. Lung diseases
 - 2.1.8. Head injury
 - 2.1.9. Multi-systems trauma
3. Procedure:
 - 3.1. If the patient is not breathing adequately on his/her own, the treatment should be ventilation, not just oxygen. A nasal cannula without a breath is a waste of oxygen!
 - 3.2. A small percentage of patients with chronic lung disease breathe because they are hypoxic. Administration of oxygen will shut off their respiratory drive. **DO NOT WITHHOLD OXYGEN BECAUSE OF THIS POSSIBILITY. BE PREPARED TO ASSIST VENTILATION IF NEEDED.** Initial oxygen flow should be 2 liters per minute (lpm) or 1 lpm greater than home O₂ in these patients.
4. Administering Oxygen
 - 4.1. Explain to the patient the need for oxygen.
 - 4.2. Open the main valve and adjust the flow-meter.
 - 4.3. Place oxygen delivery device.
 - 4.4. Adjust flow-meter
 - 4.4.1. Low Flow (Nasal Cannula - 1-6 lpm): Patients with chronic lung disease
 - 4.4.2. High Flow
 - 4.4.2.1. Nasal Cannula: 15 lpm for pre-oxygenation as outlined in the Rule of 15's
 - 4.4.2.2. Non-rebreather Mask 10-15 lpm Severe respiratory distress, CO Poisoning, Smoke inhalation, moderate respiratory distress
 - 4.5. Secure during transfer.
5. Discontinuing Oxygen
 - 5.1. Remove delivery device.
 - 5.2. Close the main valve.
 - 5.3. Remove delivery tubing.
 - 5.4. Bleed flow-meter.
6. Documentation:
 - 6.1. Oxygen should be documented in the medication section of the ePCR
 - 6.2. Document route of administration:
 - 6.2.1. Blow-By
 - 6.2.2. Endotracheal Tube
 - 6.2.3. Inhalation
 - 6.2.3.1. When ventilations performed with BVM to facemask
 - 6.2.3.2. CPAP or BiPAP

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- 6.2.4. Nasal Cannula
- 6.2.5. Nasotracheal Tube
- 6.2.6. Nebulizer
- 6.2.7. Non-Rebreather Mask
- 6.2.8. Tracheostomy
- 6.2.9. Ventimask
- 6.3. LPM
 - 6.3.1. Document the lpm delivered
 - 6.3.1.1. The EMV + ventilator automatically calculates the lpm used and is displayed in the upper right hand corner of the FiO2 section.