



Jackson Hole Fire/EMS Operations Manual

Approved by: Will Smith
Will Smith, MD, Medical Director

Approved by: Brady Hansen
Brady Hansen, Chief

Title: **Treatment Protocol: Smoke
Inhalation/ Carbon
Monoxide Poisoning**

Division: 17
Article: 4.21
Revised: January 2022
Pages: 2

Smoke Inhalation/Carbon Monoxide (CO) Poisoning (Treatment Protocol)

ALL PROVIDERS

- **Secure the scene with appropriate agency call out:** Battalion Chief, Engine, Law Enforcement, power company, etc.
- Determine scene safety before entering and evaluate environment with gas monitoring as necessary.
- Establish responsiveness and perform ABC's
- Secure the airway with adjunctive airway equipment and suctioning as needed.
- Administer 100% oxygen via NRB mask regardless of SaO₂ measurement as Cyanide and other poisons are also a concern; if respirations are less than 10/min, assist respirations with BVM. Manage airway per Airway Management Protocol.
- Transport ASAP
- Monitor patient continuously and be prepared for diminishing LOC.
- If signs of AMS, shock, or severe respiratory distress, consider the possibility of cyanide toxicity.
- If LOC diminishes, follow decreased LOC protocol.
- Any patient with CO induced coma will likely require hyperbaric oxygen (facility available at Eastern Idaho Regional – Idaho Falls, ID and Portneuf Medical Center – Pocatello, ID) – consider Air Idaho Rescue dispatch for remote location.

ADULT EMT-BASIC PROVIDER

- Follow above

PEDIATRIC EMT-BASIC PROVIDER

- Follow above

EMT-INTERMEDIATE PROVIDER

- Continuous ECG monitoring
- Consider acquiring ETCO₂ waveform and numerical value. Treat accordingly
- Establish IV/IO of NS TKO, draw blood.
- If wheezing is present, administer one of the following per Medical Control:
 - Nebulized Albuterol and Atrovent (1st dose standing order)

EMT-INTERMEDIATE PROVIDER

- Continuous ECG monitoring
- Consider acquiring ETCO₂ waveform and numerical value. Treat accordingly
- Establish IV/IO of NS TKO, draw blood.
- If wheezing is present, administer one of the following per Medical Control:
 - Nebulized Albuterol and Atrovent (1st dose standing order)

EMT-PARAMEDIC PROVIDER

- Standing order for Albuterol and Atrovent

EMT-PARAMEDIC PROVIDER

- Standing order for Albuterol and Atrovent

Pearls:

- Signs and symptoms of CO Toxicity may include: AMS, dizziness, headache, nausea and vomiting, chest pain, respiratory distress, neurological impairments, tachycardia, tachypnea, arrhythmias, seizures, coma.
- The differential list for CO Toxicity is extensive. Attempt to evaluate other correctable causes when possible (effects of other toxic fire byproduct such as cyanide, acute cardiac event, acute neurological event, Flu/GI illness, acute intoxication, DKA, headache of non-toxic origin).