

Smoke Inhalation Injury Heparin Protocol

Indications:

- Presence of carbonaceous sputum with suctioning
- Intraoral or pharyngeal burns
- Upper airway edema, erythema, mucosal blisters
- Inhalation injury confirmed by bronchoscopy
- Evidence of smoke inhalation
- PaO₂/FiO₂ less than 200
- · History of fire in an enclosed space
- Carboxyhemoglobin value greater than 10

Initiate protocol immediately if any of the above indications are noted.

Intubated Patient

- Lung protective strategy modality including: ARDSnet, APRV, or PRVC
- Aerosolize: 2.5mg Albuterol/3mL 20% Mucomyst alternating with 5000units of Heparin/3mL NS every 4 hours
 - Start with 2.5mg Albuterol/3mL 20% Mucomyst then in 4 hours aerosolize 5000units of Heparin/3mL NS then 4 hours later 2.5mg Albuterol/3mL 20% Mucomyst etc...

Example: 0700 - 2.5mg Albuterol/3mL 20% Mucomyst

1100 - 5000units of Heparin/3mL NS

1500 - 2.5mg Albuterol/3mL 20% Mucomyst

1900 - 5000units of Heparin/3mL NS

- o Deliver aerosolized therapy for 7 days
- CPT/Wrap Q4h for 10 minutes
 - o Hz 10-14 (as tolerated)
 - o Pressure 1-4 (as tolerated)
 - o After completion 5 minutes of therapy, pause therapy and suction patient, repeat in 5 minutes
- Sputum cultures every Monday, Wednesday and Friday

Non-Intubated Patient

- Humidified O₂ keeping sats greater than 90%
- IS Q2 hours
- Aerosolize: 2.5mg Albuterol/3mL 20% Mucomyst alternating with 5000units of Heparin/3mL NS every 4 hours
 - Start with 2.5mg Albuterol/3mL 20% Mucomyst then in 4 hours aerosolize 5000units of Heparin/3mL NS then 4 hours later 2.5mg Albuterol/3mL 20% Mucomyst etc...

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1900 - 5000units of Heparin/3mL NS

- Deliver aerosolized therapy for 7 days
- CPT/Wrap Q4h for 10 minutes
 - Hz 10-14 (as tolerated)
 - o Pressure 1-4 (as tolerated)
 - After completion 5 minutes of therapy, pause therapy have the patient cough or NT suction patient, repeat in 5 minutes
 - Sputum cultures every Monday, Wednesday and Friday