

Washtenaw/Livingston MCA, HEMS MCA
System Protocols - Hazardous Materials Medical Response Team
AMMONIA (LIQUID & GAS)

Date: April 24, 2019

Section 11-2

Ammonia (Liquid & Gas)

FORMS: Gas (anhydrous) and liquid (aqueous solutions, variable concentrations).

ROUTES OF EXPOSURE: Skin and eye, inhalation, ingestion.

SIGNS AND SYMPTOMS:

- CNS:** Stupor, lethargy and coma. Seizures may be present.
- Eye:** Chemical conjunctivitis with vapors, necrosis and blindness with liquids and anhydrous gas exposures.
- Cardiovascular:** Ventricular arrhythmias and hypotension.
- Respiratory:** Acute pulmonary edema, bronchospasm, stridor, cough, dyspnea and chest pain. Respiratory tract irritation with possible laryngeal edema.
- Gastrointestinal:** G.I. bleeding due to liquefaction necrosis of the G.I. tract.
- Other:** Respiratory damage can be severe with potential fatal results. Respiratory symptoms may be delayed.

Pre-Medical Control

PARAMEDIC

1. Follow **General HAZMAT Treatment** Protocol.
2. If the patient is unconscious, follow the **Altered Mental Status** protocol and the **Emergency Airway Procedure**. Aggressive airway management may be indicated.
3. If the patient is wheezing, administer Albuterol 2.5 mg/3 ml NS nebulized. Repeat as needed.
4. Follow **HAZMAT Eye Irrigation** protocol.