

Chemical Disaster EDOU: *Crowd control agents/irritants*

Lacrimators (CS, CN, mace, etc), capsaicin, phosgene, ammonia, chlorine, NO₂

Inclusion Criteria

- Exposure to riot control agent or irritant
- Mild to moderate ocular symptoms (pain, lacrimation, blepharospasm)
- Mild to moderate respiratory symptoms (rhinitis, cough)
- Asymptomatic and exposed to phosgene

Exclusion Criteria

- Significant munition/ballistic traumatic injuries
- Partial or full thickness burns, ocular trauma or burns
- Abnormal vital signs significant hypoxia (pulse Ox <92%) or tachypnea (Resp >30)
- Opacities on chest x-ray
- Stable for immediate discharge (minor symptoms, low risk toxin)

Interventions

- ED
- Removal of contaminated clothing prior to ED entry
- Irrigation with copious cold water (skin)
- Standard ocular irrigation
- Chest x-ray if lower respiratory symptoms or high-risk exposure

EDOU

- Telemetry, pulse oximetry
- Symptom mgmt.: analgesics (systemic, topical ocular), nebulized bronchodilators, humidified air
- Considerations:
 - Nebulized sodium bicarbonate for significant chlorine exposure.
 - Steroids inhaled or IV
- Vital signs Q2-4 hours
- Repeat CXR if new hypoxia or worsening dyspnea

Disposition Criteria

- Discharge Home
 - Resolution of symptoms (6-8 hours chlorine; 24 hours phosgene or NO₂)
 - Vitals Normal
- Inpatient Admission
 - Hypoxemia or tachypnea
 - Stridor
 - Development of opacities on CXR