

Chemical Terrorism Poster

Produced by the MN Department of Health www.health.state.mn.us, the MN Laboratory System www.health.state.mn.us/mls, and The Poison Control Center mnpoison.org.

Blood Agents

- Symptoms Include:
 - Vertigo
 - Tachycardia
 - Tachypnea
 - Cyanosis
 - Flu-like symptoms
 - Nonspecific neurological symptoms
- Indicative Lab Tests:
 - Increased anion gap
 - Metabolic acidosis
 - Narrow pO₂ difference between arterial and venous samples
- Potential Agents:
 - Hydrogen Cyanide
 - Hydrogen Sulfide
 - Carbon Monoxide
 - Cyanogen Chloride

Nerve Agents

- Symptoms Include:
 - Diarrhea diaphoresis
 - Urination
 - Miosis
 - Bradycardia bronchospasm,
 - Emesis
 - Lacrimation
 - Salivation sweating
- Indicative Lab Tests:
 - Decreased cholinesterase
 - Increased anion gap
 - Metabolic acidosis

Nerve Agents (cont.)

- Potential Agents:
 - Sarin
 - VX
 - Tabun
 - Soman

Blister Agents

- Symptoms Include:
 - Itching
 - Erythema
 - Yellowish blisters
 - Flu-like symptoms
 - Delayed eye irritation
- Indicative Lab Tests:
 - Thiodyglycol present in urine
- Potential Agents:
 - Sulfur Mustard
 - Phosgene Oxime
 - Nitrogen Mustard

Choking Agents

- Symptoms Include:
 - Upper respiratory tract irritation
 - Rhinitis
 - Coughing
 - Choking
 - Delayed pulmonary edema
- Indicative Lab Tests:
 - Decreased pO₂
 - Decreased pCO₂
- Potential Agents:
 - Phosgene
 - Diphosgene
 - Chlorine

Metal Agents

- Symptoms Include:
 - Cough
 - Metallic taste
 - CNS effects
 - Shortness of breath

Metal Agents (cont.)

- Symptoms Include (cont.):
 - Flu-like symptoms
 - Visual disturbances
- Indicative Lab Tests:
 - Proteinuria
 - Blood mercury
 - Urine mercury
- Potential Agents:
 - Dimethylmercury
 - Lead
 - Copper
 - Mercury
 - Arsenic
 - Copper
 - Cadmium

Call Poison Control 24/7 for Treatment Information 1-800-222-1222. Call the MDH Clinical Chemists for appropriate specimen collection, packaging and shipping information at 612-282-3750 (After regular hours call MDH at 651-201-5414).

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[Public Health Laboratory \(www.health.state.mn.us/about/org/phl/index.html\)](http://www.health.state.mn.us/about/org/phl/index.html)

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To obtain this information in a different format, call: 651-201-5200. Printed on recycled paper.