Produced by THE MINNESOTA DEPARTMENT OF HEALTH www.health.state.mn.us

MINNESOTA LABORATORY SYSTEM - A PUBLIC & PRIVATE COLLABORATION www.health.state.mn.us/mls

POISON CONTROL CENTER www.mnpoison.org



BLOOD AGENTS

SYMPTOMS INCLUDE:

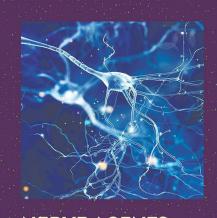
- Vertigo
- Tachycardia
- Tachypnea
- Cyanosis
- Flu-like symptoms
- Nonspecific neurological symptoms

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

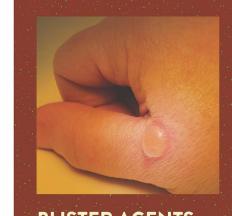
- Diarrhea diaphoresis
- Urination
- · Miosis
- Bradycardia bronchospasm,
- Emesis
- Lacrimation
- Salivation sweating

INDICATIVE LAB TESTS*

- Decreased cholinesterase
- Increased anion gap
- Metabolic acidosis

POTENTIAL AGENTS

- Sarin
- VX
- Tabun
- Soman



BLISTER AGENTS

SYMPTOMS INCLUDE

- Itching
- Erythema
- Yellowish blisters
- Flu-like symptoms
- Delayed eye irritation

INDICATIVE LAB TESTS*

 Thiodiglycol present in urine

POTENTIAL AGENTS

- Sulfer Mustard
- Phosgene Oxime
- Nitrogen Mustard



CHOKING AGENTS

SYMPTOMS INCLUDE

- tract irritation
- · Rhinitis
- Coughing
- Choking
- edema

INDICATIVE LAB TESTS*

- Decreased pO2
- Decreased pCO2

POTENTIAL AGENTS

- Phosgene
- Diphosgene
- · Chlorine



- Upper respiratory

- Delayed pulmonary

• Proteinuria

Cough

- · Blood mercury
- Urine mercury

METAL AGENTS

SYMPTOMS INCLUDE

· Shortness of breath

• Flu-like symptoms

· Visual disturbances

INDICATIVE LAB TESTS*

• Metallic taste

• CNS effects

POTENTIAL AGENTS

- Dimethylmercury
- Lead
- Copper
- Mercury
- Arsenic
- · 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)





