

# AGENTS OF CHEMICAL TERRORISM



## BLOOD

- Carbon Monoxide (CO)
- Hydrogen Cyanide (HCN)
- Hydrogen Sulfide
- Cyanogen Chloride



## METAL

- Arsenic
- Lead
- Cadmium
- Thallium
- Mercury



## NERVE

- Sarin (GB)
- Soman (GD)
- Tabum (GA)
- VX
- Organophosphate Pesticides



## BLISTER

- Sulfur Mustard (HD)
- Nitrogen Mustard
- Lewisite (L)



## PULMONARY

- Ammonia
- Chlorine
- Phosgene
- Diphosgene



## BIOTOXINS

- Ricin
- Abrin
- Botulinum

AGENTS

### SYMPTOMS INCLUDE:

- Tachycardia
- Tachypnea
- Coma
- Seizures

### INDICATIVE LAB TESTS

- Lactic Acid (HCN)
- Acid Base Assessment
- Narrow pO<sub>2</sub> difference between venous & arterial samples
- Carboxyhemoglobin (COHb)

### SYMPTOMS INCLUDE:

- Neurologic Symptoms
- Renal Dysfunction
- Metallic Taste

### INDICATIVE LAB TESTS

- Renal Assessment
- Proteinuria
- Blood/Urine Metal Levels

### SYMPTOMS INCLUDE:

- Salivation
- Lacrimation (tears)
- Muscle Weakness
- Diarrhea
- Dyspnea
- Vomiting
- Miosis (pupil constriction)
- Seizures

### INDICATIVE LAB TESTS

- Decreased Cholinesterases
- Increased Anion Gap
- Metabolic Acidosis

### SYMPTOMS INCLUDE:

- Erythema (rash)
- Burns
- Blisters
- Bone Marrow Suppression

### INDICATIVE LAB TESTS

- Hematological Assessment (delayed reaction)

### SYMPTOMS INCLUDE:

- Upper Respiratory Irritation
- Cough
- Dyspnea
- Delayed Pulmonary Edema

### INDICATIVE LAB TESTS

- Renal Assessment
- Proteinuria

### SYMPTOMS INCLUDE:

- Shock (ricin, abrin)
- Organ Failure (ricin, abrin)
- Paralysis (botulinum)

### INDICATIVE LAB TESTS

- Urine Abrine, Ricinine
- Serum Botulinum Toxin Level

## Nebraska Public Health Laboratory

for specimen collection, packaging and shipping information

**(402) 559-3590**

or After Regular Hours Pager (402) 888-5588

## Nebraska Regional Poison Control Center

for symptoms & treatment of chemical agent exposures

**(800) 222-1222**

